

**A klassi lugu : [Jõgeva Keskkooli XI lend]**

**Kuusik, Rein, keemik** Jõgeva Keskkooli XI lenu lugu 1959-2019 2019 / lk. 18-22 : fot [https://www.ester.ee/record=b5232099\\*est](https://www.ester.ee/record=b5232099*est)

**Accelerated carbonation of Ca-rich fly ashes in non-cement applications = Kaltsiumirikka lendtuha kiirendatud karboniseerimine tsemendivabades rakendustes**

**Usta, Mustafa Cem** 2023 <https://doi.org/10.23658/taltech.63/2023> <https://digikogu.taltech.ee/et/Item/5cd96499-8d75-44fa-9599-6d3eee32b244> [https://www.ester.ee/record=b5645215\\*est](https://www.ester.ee/record=b5645215*est)

**Accelerated carbonation technology granulation of industrial waste : effects of mixture composition on product properties**

**Berber, Hakan; Tamm, Kadriann; Leinus, Mari-Liis; Kuusik, Rein, keemik; Tõnsuaadu, Kaia; Paaver, Peeter; Uibu, Mai** Waste management & research 2020 / p. 142-155 <https://doi.org/10.1177/0734242X19886646> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Acoustic emission of Estonian clay Arumetsa during firing**

Hulan, Tomaš; Štubna, Igor; **Kaljuvee, Tiit** THERMOPHYSICS 2018: 23rd International Meeting of Thermophysics 2018 : Smolenice, Slovakia, 7–9 November 2018 2018 / art. 020016, [6] p <https://doi.org/10.1063/1.5047610> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**Acquisition of O2 adsorption isotherms as thorough characterization of nanocrystalline titanium dioxide photocatalysts**

Moiseev, Anna; **Kritševskaja, Marina; Preis, Sergei** Surfaces and interfaces 2019 / p. 44-49 : ill <https://doi.org/10.1016/j.surf.2018.11.003> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Activated persulfate and hydrogen peroxide treatment of highly contaminated water matrices: a comparative study**

**Dulova, Niina; Kattel, Eneliis; Trapido, Marina** International journal of environmental science and development 2020 / p. 549–554 <https://doi.org/10.18178/ijesd.2020.11.12.1306> [Journal metrics at Scopus](#) [Article at Scopus](#)

**Activated persulfate processes for degradation of endocrine disrupting compound nonylphenol in aqueous matrices [Online resource]**

**Dulova, Niina; Balpreet Kaur; Kattel, Eneliis; Trapido, Marina** 19th European Meeting on Environmental Chemistry : 3 - 6 december 2018 Royat - France : programm book 2018 / p. 34 [https://emec19.sciencesconf.org/data/pages/EMEC\\_19\\_Book\\_of\\_abstract.pdf](https://emec19.sciencesconf.org/data/pages/EMEC_19_Book_of_abstract.pdf)

**Activation of oil shale ashes for sulfur capture**

Trass, Olev; **Kuusik, Rein, keemik; Kaljuvee, Tiit** Oil shale 2018 / p. 375-385 : ill <https://doi.org/10.3176/oil.2018.4.07> [http://www.kirj.ee/public/oilshale\\_pdf/2018/issue\\_4/OS-2018-4-375-385.pdf](http://www.kirj.ee/public/oilshale_pdf/2018/issue_4/OS-2018-4-375-385.pdf) [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**The activity of nanomaterials in photocatalysis**

**Krichevskaya, Marina** Proceedings 2023 / art. 23 <https://doi.org/10.3390/proceedings2023092023>

**Adhesion of single-walled carbon nanotube thin films with different materials**

Rajanna, Pramod M.; Luchkin, Sergey; Larionov, Konstantin; Grebenko, Artem; Popov, Zakhar; Sorokin, Pavel; **Danilson, Mati; Bereznev, Sergei**; Lund, Peter D.; Nasibulin, Albert The journal of physical chemistry letters 2020 / p. 504–509 <https://doi.org/10.1021/acs.jpcclett.9b03552> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Adsorption of Cd<sup>2+</sup> by an ion-imprinted thiol-functionalized polymer in competition with heavy metal ions and organic acids**

Kong, Qiaoping; Xie, Binbin; **Preis, Sergei** RSC advances 2018 / p. 8950–8960 : ill <https://doi.org/10.1039/c7ra11811b> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Advanced sensing materials based on molecularly imprinted polymers towards developing point-of-care diagnostics devices**

**Kidakova, Anna; Reut, Jekaterina; Boroznjak, Roman; Öpik, Andres; Sõritski, Vitali** Proceedings of the Estonian Academy of Sciences 2019 / p. 158–167 : ill <https://doi.org/10.3176/proc.2019.2.07> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Advanced oxidation processes for sulfonamide antibiotic sulfamethizole degradation : Process applicability study at ppm level and scale-down to ppb level**

**Klauson, Deniss; Romero Sarcos, Natalja; Kritševskaja, Marina; Kattel, Eneliis; Dulova, Niina; Dedova, Tatjana; Trapido, Marina** Journal of environmental chemical engineering 2019 / art. 103287, 8 p. : ill <https://doi.org/10.1016/j.jece.2019.103287> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Advances in characteristics analysis, measurement methods and modelling of flow dynamics in airlift reactors**

Zhang, Tao; Wei, Chaohai; Feng, Chunhua; **Preis, Sergei** Chemical engineering and processing : process intensification 2019 / art. 107633, 19 p. : ill <https://doi.org/10.1016/j.cep.2019.107633> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

[at WOS](#)

**Advances in detection of antibiotic pollutants in aqueous media using molecular imprinting technique - a review**  
**Ayankojo, Akinrinade George; Reut, Jekaterina; Nguyen, Vu Bao Chau; Boroznjak, Roman; Söritski, Vitali** Biosensors 2022 / art. 441 <https://doi.org/10.3390/bios12070441> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Advances in the one-step synthesis of 2D and 3D sulfide materials grown by pulsed laser deposition assisted by a sulfur thermal cracker**

Esterlich, Joan Ramish; Affannoukoue, Kevin; **Kaupmees, Reelika**; Miakota, Denys; Engberg, Sara; **Grossberg-Kuusk, Maarja**; Schou, Jorgen; Canulescu, Stela Applied physics. A, Materials science & processing 2023 / art. 59, 8 p. : ill <https://doi.org/10.1007/s00339-022-06319-w> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Advancing green hydrogen production : synthesizing and analyzing nickel and iron micro-flower shaped electrocatalysts on Ni-mesh for alkaline water electrolysis**

Jäger, Rutha; Valk, Peeter; Grozovski, Vitali; **Volobujeva, Olga**; Prits, Alise-Valentine; Maide, Martin; Küngas, Rainer; Lust, Enn; Nerut, Jaak 246th ECS Meeting PRIME 2024; Honolulu, Hawaii, USA; October 6-11, 2024 <https://doi.org/10.1149/MA2024-02422814mtgabs>

**Aerosol-assisted fine-tuning of optoelectrical properties of SWCNT films**

Tsopenko, Alexey; Romanov, Stepan; Satco, Daria; **Volobujeva, Olga**; **Danilson, Mati** The journal of physical chemistry letters 2019 / p. 3961-3965 : ill <https://doi.org/10.1021/acs.jpclett.9b01498> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**AFM nanoshaving of covalently modified graphite for studying molecular self-assembly under lateral nanoconfinement**

Steenro, Roelof; Van Gorp, Hans; **Walke, Peter**; Mali, Kunal S.; De Feyter, Steven Journal of physical chemistry C 2021 / p. 21624-21634 <https://doi.org/10.1021/acs.jpcc.1c05700> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Ag nanoparticles on mesoporous carbon support as cathode catalyst for anion exchange membrane fuel cell**

Linge, Jonas Mart; Erikson, Heiki; Mooste, Marek; Piirsoo, Helle-Mai; **Kaljuvee, Tiit**; Kikas, Arvo; Aruväli, Jaan; Kisand, Vambola; Tamm, Aile; Kannan, Arunachala Mada; Tammeveski, Kaido International Journal of Hydrogen Energy 2023 / p. 11058-11070 <https://doi.org/10.1016/j.ijhydene.2022.12.138> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Ageing of kesterite solar cells 1 : Degradation processes and their influence on solar cell parameters**

**Neubauer, Christian; Samiepour, Ali; Oueslati, Souhaib; Danilson, Mati; Meissner, Dieter** Thin solid films 2019 / p. 595-599 : ill <https://doi.org/10.1016/j.tsf.2018.11.043> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Ageing of kesterite solar cells 2 : Impact on photocurrent generation**

**Samiepour, Ali; Neubauer, Christian; Oueslati, Souhaib; Mikli, Valdek; Meissner, Dieter** Thin solid films 2019 / p. 509-513 : ill <https://doi.org/10.1016/j.tsf.2018.11.044> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Aggregate production from burnt oil shale and CO2 - an Estonian perspective**

**Berber, Hakan; Tamm, Kadriann; Leinus, Mari-Liis; Kuusik, Rein; Keemik, Uibu, Mai** Oil Shale 2019 / p. 431-447 : ill <https://doi.org/10.3176/oil.2019.3.05> [http://www.kirj.ee/32493/?tpl=1061&c\\_tpl=1064](http://www.kirj.ee/32493/?tpl=1061&c_tpl=1064) [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Air vortex electrospinning method for nanofiber yarn production [Online resource]**

**Viirsalu, Mihkel; Savest, Natalja; Krumme, Andres** Tartu Ülikooli ASTRA projekt PER ASPERA : Funktsionaalsed materjalid ja tehnoloogiad : [7-8 märts 2017, Tartu : teesid] 2017 / [1] p <http://fntdk.ut.ee/teesid/>

**Airtightness of cross-laminated timber envelopes : influence of moisture content, indoor humidity, orientation, and assembly**

**Kukk, Villu; Bella, Adeniyi; Kers, Jaan; Kalamees, Targo** Journal of building engineering 2021 / art. 102610 <https://doi.org/10.1016/j.jobe.2021.102610> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**"AK. Nädal" uuris, kuidas jõuab inimesteni puhas joogivesi**

Saar, Sandra novaator.err.ee 2023 ["AK. Nädal" uuris, kuidas jõuab inimesteni puhas joogivesi](#)

**Akadeemik : tööstuses võiks olla rohkem doktorikraadiga juhte**

Mihkelsaar, M.; Grossberg-Kuusk, Maarja novaator.err.ee 2024 [Akadeemik: tööstuses võiks olla rohkem doktorikraadiga juhte](#)

**Aldehyde-free resins based on resorcinol and natural alkylresorcinols modified with styrene**

**Jurkeviciute, Ana; Grigorieva, Larisa; Tõnsuaadu, Kaia; Yashicheva, Tamara** Polymers / Composites / 3Bs Materials 2023 International Joint Conferences 22-24 February 2023 Bangkok, Thailand : Book of Abstracts 2023 / p. 43 : ill <https://setcor.org/userfiles/files/2023/Bangkok/Polymers-Composites-3BsMaterials-2023-Book-of-Abstracts.pdf>

**Allsolution||processed transparent front contact for monograin layer kesterite solar cells**

Edinger, Stefan; Bansal, Neha; Wibowo, Adhi Rachmat; Winkler, Nina; Illich, Peter; Zechmeister, Armin; Plessing, Lukas; **Meissner, Dieter** Progress in photovoltaics : research and applications 2019 / p. 547-555 <https://doi.org/10.1002/pip.3122> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **An alternative chlorine-assisted optimization of CdS/Sb<sub>2</sub>Se<sub>3</sub> solar cells : towards understanding of chlorine incorporation mechanism**

**Gopi, Sajeesh Vadakkedath; Spalatu, Nicolae; Katerski, Atanas;** Kulicek, Jaroslav; Razek, Bohuslav; Ukraintsev, Egor; Barinkova, Marketa Šlapal; Zoppi, Guillaume; **Krunks, Malle; Oja Acik, Ilona** Journal of alloys and compounds 2024 / art. 176175 <https://doi.org/10.1016/j.jallcom.2024.176175>

#### **Alumina/graphene/Cu hybrids as highly selective sensor for simultaneous determination of epinephrine, acetaminophen and tryptophan in human urine**

**Taleb, Masoud; Ivanov, Roman; Bereznev, Sergei;** Kazemi, Sayed Habib; **Hussainova, Irina** Journal of electroanalytical chemistry 2018 / p. 184-192 : ill <https://doi.org/10.1016/j.jelechem.2018.06.013> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Amorphous Zn(O,Se) buffer layer for Cu(In,Ga)Se<sub>2</sub> thin film solar cells**

**Abdalla, Akram; Danilson, Mati; Oueslati, Souhaib; Pilvet, Maris; Bereznev, Sergei** Materials science in semiconductor processing 2021 / art. 105862 <https://doi.org/10.1016/j.mssp.2021.105862> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **An electrochemical biosensor for direct detection of hepatitis C virus**

**Antipchik, Mariia;** Korzhikova-Vlakh, Evgenia; Polyakov, Dmitry; Tarasenko, Irina; **Reut, Jekaterina; Öpik, Andres; Sõritski, Vitali** Analytical Biochemistry 2021 / art. 114196 <https://doi.org/10.1016/j.ab.2021.114196> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Analysis of grain orientation and defects in Sb<sub>2</sub>Se<sub>3</sub> solar cells fabricated by close-spaced sublimation**

**Krautmann, Robert; Spalatu, Nicolae;** Gunder, Rene; Abou-Ras, Daniel; Unold, Thomas; Schorr, Susan; **Oja Acik, Ilona; Krunks, Malle** GSFMT Scientific Conference 2021 : Tartu, June 14-15, 2021 : abstracts 2021 / P 17 [https://fntdk.ut.ee/wp-content/uploads/2021/06/GSFMT\\_abstractbook\\_2021.pdf](https://fntdk.ut.ee/wp-content/uploads/2021/06/GSFMT_abstractbook_2021.pdf)

#### **Analysis of grain orientation and defects in Sb<sub>2</sub>Se<sub>3</sub> solar cells fabricated by close-spaced sublimation : [journal article]**

**Krautmann, Robert; Spalatu, Nicolae;** Gunder, Rene; Abou-Ras, Daniel; Unold, Thomas; Schorr, Susan; **Krunks, Malle; Oja Acik, Ilona** Solar energy 2021 / p. 494-500 <https://doi.org/10.1016/j.solener.2021.07.022> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Andres Krumme: plastimurest vabaks puidust toodetava bioplasti abil**

director.ee 2022 [Andres Krumme: plastimurest vabaks puidust toodetava bioplasti abil](#)

#### **Andres Krumme: usk teaduses ja teadus usus**

**Krumme, Andres** <https://trialoog.taltech.ee/andres-krumme-usk-teaduses-ja-teadus-usus/> err.ee 2025 <https://trialoog.taltech.ee/andres-krumme-usk-teaduses-ja-teadus-usus/> <https://www.err.ee/1609667264/andres-krumme-usk-teaduses-ja-teadus-usus>

#### **Antibacterial and antiviral effects of Ag, Cu and Zn metals, respective nanoparticles and filter materials thereof against coronavirus SARS-CoV-2 and influenza A virus**

Kubo, Anna-Liisa; Rausalu, Kai; Savest, Natalja; Žusinaite, Eva; **Vasiliev, Grigory; Viirsalu, Mihkel; Plamus, Tiia; Krumme, Andres;** Merits, Andres; Bondarenko, Olesja Pharmaceutics 2022 / art. 2549 : 19 p. : ill <https://doi.org/10.3390/pharmaceutics14122549> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Antimicrobial particles based on Cu<sub>2</sub>ZnSnS<sub>4</sub> monograins**

Žalneravicius, Rokas; Pakštas, Vidas; Grinciene, Giedre; Klimas, Vaclovas; Paškevičius, Algimantas; **Timmo, Kristi; Kauk-Kuusik, Marit;** Franckevicius, Marius; Niaura, Gediminas; Talaikis, Martynas; Jagminas, Arunas; Ramanavicius, Arunas Colloids and Surfaces B: Biointerfaces 2023 / art. 113275 <https://doi.org/10.1016/j.colsurfb.2023.113275> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Apatites based catalysts : a tentative classification**

Gruselle, Michel; **Tõnsuaadu, Kaia;** Gredin, Patrick; Len, Christophe Molecular catalysis 2022 / art. 112146 <https://doi.org/10.1016/j.mcat.2022.112146> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Application of activated persulfate processes for the treatment of water and high-strength wastewater = Aktiveeritud persulfaadi protsesside kasutamine vee ja raskesti saastatud reovee puhastamiseks**

**Kattel, Eneliis** 2018 <https://digi.lib.ttu.ee/i/?9958> [https://www.ester.ee/record=b5054228\\*est](https://www.ester.ee/record=b5054228*est)

#### **Application of fly ash of lignite combustion in air and water purification**

**Nikitin, Dmitri; Bolobajev, Juri; Kritševskaja, Marina;** Pilar, Lukas; Vitvarova, Monika; **Preis, Sergei; Dulova, Niina** Proceedings 2023 / art. 32 <https://doi.org/10.3390/proceedings2023092032>

#### **Application of HOHWM based function approximation algorithms in engineering design**

**Mäe, Tiina; Plamus, Tiia; Majak, Jüri; Karunanidhi, Ramachandran; Rahman, Md Toufique** International conference of numerical analysis and applied mathematics ICNAAM 2021 : Rhodes, Greece, 20–26 September 2021 2023 / art. 250003 <https://doi.org/10.1063/5.0162255> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

#### **Application of metal-doped organic aerogels for photodegradation of antibiotics in water**

**Bolobajev, Juri; Kask, Maarja; Koel, Mihkel** Chemical industry digest 2019 / p. 92–95 <http://chemindigest.com/chemical-industry-digest-june-2019/>

#### **Application of metal-doped organic aerogels for photodegradation of trimethoprim in water**

**Kask, Maarja; Koel, Mihkel; Bolobajev, Juri** Aerogels processing, modeling and environmental-driven applications : book of abstracts. 2019 / p. 28

#### **Application of thermal analysis techniques for studying the possibilities of utilization of oil shale ashes formed at electricity production in Estonia**

**Kaljuvee, Tiit; Uibu, Mai; Einard, Marve; Yörük, Can Rüstü; Trikkel, Andres; Kuusik, Rein, keemik** 5th Central and Eastern European Conference on Thermal Analysis and Calorimetry & 14th Mediterranean Conference on Calorimetry and Thermal Analysis , 27-30 August 2019, Roma, Italy: CEEC-TAC5 & Medicta2019 : book of abstracts 2019 / p. 47 <http://www.ceec-tac.org/download.php?f=/download/BoA%20CEEC-TAC5%20Medicta2019.pdf>

#### **Application of ultrasonic sprayed zirconium oxide dielectric in zinc tin oxide-based thin film transistor**

**Oluwabi, Abayomi Titilope; Katerski, Atanas; Carlos, Emanuel; Branquinho, Rita; Mere, Arvo; Krunks, Malle; Fortunato, Elvira; Pereira, Luis; Oja Acik, Ilona** Journal of materials chemistry C 2020 / p. 3730-3739 : ill <https://doi.org/10.1039/C9TC05127A> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Aqueous bromide oxidized with pulsed corona discharge**

**Petrotsenko, Irina; Preis, Sergei** Journal of electrostatics 2024 / art. 103978, 9 p. : ill <https://doi.org/10.1016/j.elstat.2024.103978> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Aqueous mineral carbonation of oil shale mine waste (limestone) : a feasibility study to develop a CO2 capture sorbent**

**Puthiya Veetil, Sanoop Kumar; Rebane, Kaarel; Yörük, Can Rüstü; Lopp, Margus; Trikkel, Andres; Hitch, Michael William** Energy 2021 / art. 119895 <https://doi.org/10.1016/j.energy.2021.119895> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Aqueous photocatalytic degradation of selected micropollutants by Pd-modified titanium dioxide in three photoreactor types**

**Klauson, Deniss; Šakarašvili, Marko; Pronina, Natalja; Kritševskaja, Marina; Kärber, Erki; Mikli, Valdek** Environmental technology 2017 / p. 860-871 : ill <https://doi.org/10.1080/09593330.2016.1214185> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Arvo Mere: esimese arvuti ehitasin ise 1987. aastal**

**Mere, Arvo** Mente et Manu 2025 / lk. 8-9 : fot [https://www.ester.ee/record=b1242496\\*est](https://www.ester.ee/record=b1242496*est)

#### **Ash characterisation formed under different oxy-fuel circulating fluidized bed conditions**

**Baqain, Mais Hanna Suleiman; Yörük, Can Rüstü; Nešumajev, Dmitri; Järvik, Oliver; Konist, Alar** Fuel 2023 / art. 127244 <https://doi.org/10.1016/j.fuel.2022.127244> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Ash melting behaviour of reed and woody fuels blends**

**Link, Siim; Yrjäs, Patrik; Lindberg, Daniel; Trikkel, Andres; Mikli, Valdek** Fuel 2022 / art. 123051 <https://doi.org/10.1016/j.fuel.2021.123051> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Asjade interneti levikule töotavad anda hoogu erilised päikesepaneelid**

**Sibinski, Maciej** novaator.err.ee 2024 [Asjade interneti levikule töotavad anda hoogu erilised päikesepaneelid](#)

#### **Assessing the frost resistance of illite-based ceramics through the resonant frequency of free vibration and internal damping**

**Hulan, Tomaš; Knapek, Michal; Minarik, Peter; Csaki, Štefan; Kaljuvee, Tiit; Uibu, Mai** AIP conference proceedings 2017 / art. 040015, p. 1-7 <https://doi.org/10.1063/1.4994495> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

#### **Assessment of the hazard of nine (doped) lanthanides-based ceramic oxides to four aquatic species**

**Blinova, Irina; Vija, Heiki; Lukjanova, Aljona; Muna, Marge; Syvertsen-Wiig, Guttorm; Kahru, Anne** Science of the total environment 2018 / p. 1171-1176 : ill <https://doi.org/10.1016/j.scitotenv.2017.08.274> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Assessment of the toxic effects of mixtures of three lanthanides (Ce, Gd, Lu) to aquatic biota**

Romero-Freire, A.; Joonas, E.; **Muna, Marge**; Cossu-Leguille, C.; Vignati, D.A.L.; **Giamberini, L.** Science of the total environment 2019 / p. 276-284 : ill <https://doi.org/10.1016/j.scitotenv.2019.01.155> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Asymmetric NDI electron transporting SAM materials for application in photovoltaic devices**

Svirskaitė, Lauryna Monika; **Mandati, Sreekanth**; **Spalatu, Nicolae**; Malinauskienė, Vida; Karazhanov, Smagul; Getautis, Vytautas; Malinauskas, Tadas Synthetic metals 2022 / art. 117214 <https://doi.org/10.1016/j.synthmet.2022.117214> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Atomic structure and dynamics of unusual and wide-gap phase-change chalcogenides : a GeTe<sub>2</sub> case**

Usuki, Takeshi; Benmore, Chris J.; Tverjanovich, Andrey; **Bereznev, Sergei**; Khomenko, Maxim; Sokolov, Anton; Fontanari, Daniele; Ohara, Koji; Bokova, Maria; Kassem, Mohammad; Bychkov, Eugene Physica status solidi - rapid research letters 2024 / art. 2300482 <https://doi.org/10.1002/pssr.202300482> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Atypical phase-change alloy Ga<sub>2</sub>Te<sub>3</sub> : atomic structure, incipient nanotectonic nuclei, multilevel writing**

Tverjanovich, Andrey; Khomenko, Maksym; Benmore, Chris; **Bereznev, Sergei**; Sokolov, Anton; Fontanari, Daniele; Kiselev, Aleksei; Lotin, Andrey; Bychkov, Eugene Journal of materials chemistry C 2021 / p. 17019-17032 <https://doi.org/10.1039/d1tc03850h> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Au/Ga<sub>2</sub>O<sub>3</sub>/ZnO heterostructure nanorods arrays for effective photoelectrochemical water splitting**

**Abdalla, Akram**; Khan, Ibrahim; Sohail, Manzar; Qurash, Ansanulhaq Solar energy 2019 / p. 333-338 : ill <https://doi.org/10.1016/j.solener.2019.01.065> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Autothermal Siberian pine nutshell pyrolysis maintained by exothermic reactions**

Astafev, Alexander; Shanenkov, Ivan; Ibraeva, Kanipa; Tabakaev, Roman; **Preis, Sergei** Energies 2022 / art. 7118 <https://doi.org/10.3390/en15197118> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Average residual stresses in hard Physical Vapor Deposited (PVD) coatings**

Lille, Harri; Ryabchikov, Alexander; Kõo, Jakub; **Mikli, Valdek**; **Adoberg, Eron**; **Vagiström, Heinar**; **Kübarsepp, Jakob**; **Peetsalu, Priidu** Modern Materials and Manufacturing 2019 : 12th International DAAAM Baltic Conference and 27th International Baltic Conference BALTMATTRIB 2019. Selected, peer reviewed papers from the conference Modern Materials and Manufacturing 2019 (MMM 2019), April 24-26, 2019, Tallinn, Estonia 2019 / p. 20-25 : ill <https://doi.org/10.4028/www.scientific.net/KEM.799.20> <https://www.scientific.net/KEM.799.20> [https://www.eester.ee/record=b5235278\\*est](https://www.eester.ee/record=b5235278*est) [Conference proceeding at Scopus](#) [Article at Scopus](#)

#### **Axial synchronous magnetic coupling modeling and printing with selective laser melting**

**Tiismus, Hans**; **Kallaste, Ants**; **Vaimann, Toomas**; **Rassõlkin, Anton**; **Belahcen, Anouar** 2019 IEEE 60th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON), 7-9 October 2019 : conference proceedings 2019 / 4 p. : ill <https://doi.org/10.1109/RTUCON48111.2019.8982344>

#### **Band gap engineering by cationic substitution in Sn(Zr<sub>1-x</sub>Ti<sub>x</sub>)Se<sub>3</sub> alloy for bottom sub-cell application in solar cells**

Kondrotas, Rokas; Pakstas, Vidas; Franckevicius, Marius; Suchodolskis, Arturas; Tumenas, Saulius; Jasinskas, Vidmantas; Juskenas, Remigijus; Krotkus, Arunas; **Muska, Katri**; **Kauk-Kuusik, Marit** Journal of materials chemistry A 2023 / p. 26488-26498 : ill <https://doi.org/10.1039/D3TA05550G> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **The band structure of CuInTe<sub>2</sub> studied by optical reflectivity**

Yakushev, Michael V.; Mudrov, Andrej; **Kärber, Erki** Applied physics letters 2019 / art. 062103, 4 p. : ill <https://doi.org/10.1063/1.5079971> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Bandgap fluctuations, hot carriers, and band-to-acceptor recombination in Cu<sub>2</sub>ZnSn(S,Se)<sub>4</sub> microcrystals**

**Krustok, Jüri**; **Kaupmees, Reelika**; **Abbasi, Nafiseh**; **Muska, Katri**; **Mengü, Idil**; **Timmo, Kristi** Physica status solidi - rapid research letters 2023 / art. 2300077, 5 p. : ill <https://doi.org/10.1002/pssr.202300077> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Behavior of Estonian oil shale in acidic oxidative conditions**

**Niidu, Allan**; Grenman, Henrik; **Muldma, Kati**; **Kaldas, Kristiina**; **Mikli, Valdek**; **Lopp, Margus** Frontiers in Chemical Engineering 2022 / art. 590115 <https://doi.org/10.3389/fceng.2022.590115>

#### **Beneficiation of Estonian phosphate ore by flotataion [Online resource]**

**Tamm, Kadriann**; **Piir, Indrek**; **Kuusik, Rein**, keemik; **Tõnsuaadu, Kaia** Beneficiation of Phosphates VIII : proceedings 2018 / [1] p. : ill [http://dc.engconfintl.org/phosphates\\_viii/1/](http://dc.engconfintl.org/phosphates_viii/1/)

#### **Bifunctional platinum-free mixed metal oxygen electrocatalysts based on naturally abundant peat**

Teppor, Patrick; Jäger, Rutha; Härmas, Meelis; Aruväli, Jaan; **Volobujeva, Olga**; Koppel, Mirjam; Lust, Enn ECS Meeting Abstracts 2022 / p. 29-37 : ill <https://doi.org/10.1149/10807.0029ecst> [Journal metrics at Scopus](#) [Article at Scopus](#)

#### **Bioceb: tuleviku biomajandust loome viie ülikooli ühise õppekavaga**

**Biodegradable polyurethane/graphene oxide scaffolds for soft tissue engineering : in vivo behavior assessment**

Ivanoska-Dacikj, Aleksandra; Bogoeva-Gaceva, Gordana; **Krumme, Andres; Tarasova, Elvira**; Scalera, Chiara; Stojkovski, Velimir; Gjorgoski, Icko; Ristoski, Tpe International Journal of Polymeric Materials and Polymeric Biomaterials 2020 / p. 1101 - 1111 <https://doi.org/10.1080/00914037.2019.1655754> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Biomass derived fibers as a substitute to synthetic fibers in polymer composites**

**Qasim, Umair**; Ali, Muzaffar; Ali, Touqeer; Iqbal, Rameez; Jamil, Farrukh ChemBioEng Reviews 2020 / p. 193-215 <https://doi.org/10.1002/cben.202000002>

**Bio-recalcitrant pollutants removal from wastewater with combination of the Fenton treatment and biological oxidation**

**Trapido, Marina**; Tenno, Taavo; **Goi, Anna; Dulova, Niina; Kattel, Eneliis; Klauson, Deniss**; Klein, Kati; Tenno, Toomas; **Viisimaa, Marika** Journal of water process engineering 2017 / p. 277-282 : ill <https://doi.org/10.1016/j.jwpe.2017.02.007> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Bis-spirocyclic diol monomers and polyurethanes derived from citric acid : synthesis, properties, electrospinnability, and evaluation of chemical recyclability**

Liblikas, Ilme; Bonjour, Olivier; **Savest, Natalja; Krumme, Andres**; Jannasch, Patric; Vares, Lauri Chemical engineering journal 2025 / art. 163525 <https://doi.org/10.1016/j.cej.2025.163525>

**1-butyl-3-methylimidazolium chloride assisted electrospinning of SAN/MWCNTs conductive reinforced composite membranes [Online resource]**

**Vassiljeva, Viktoria; Krumme, Andres; Märtson, Triin; Rikko, M.; Tarasova, Elvira; Savest, Natalja; Viirsalu, Mihkel** Tartu Ülikooli ASTRA projekt PER ASPERA : Funktsionaalsed materjalid ja tehnoloogiad : [7-8 märts 2017, Tartu : teesid] 2017 / [1] p <http://fntdk.ut.ee/teesid/>

**BOD/COD ratio as a probing index in the O/H/O process for coking wastewater treatment**

Wei, Gengrui; Wei, Tuo; Li, Zemin; Wei, Cong; Kong, Qiaopin; Guan, Xianghong; Qiu, Guanglei; Hu, Yun; Wei, Chaohai; Zhu, Shuang; Liu, Yu; **Preis, Sergei** Chemical Engineering Journal 2023 / art. 143257 <https://doi.org/10.1016/j.cej.2023.143257> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Broad-band photoluminescence of donor-acceptor pairs in tetrahedrite Cu<sub>10</sub>Cd<sub>2</sub>Sb<sub>4</sub>S<sub>13</sub> microcrystals**

**Krustok, Jüri; Raadik, Taavi; Kaupmees, Reelika; Ghisani, Fairouz; Timmo, Kristi; Altosaar, Mare; Mikli, Valdek; Grossberg, Maarja** Journal of physics D: applied physics 2021 / art. 105102, 7 p. : ill <https://doi.org/10.1088/1361-6463/abce29> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Bulk and interface recombination in TiO<sub>2</sub>/Sb<sub>2</sub>Se<sub>3</sub> solar cells**

**Krautmann, Robert; Josepson, Raavo; Spalatu, Nicolae; Oja Acik, Ilona** Graduate School of Functional Materials and Technology (GSFMT) Scientific Conference : abstracts 2022 / p. 28 [Graduate School of Functional Materials and Technology \(GSFMT\) Scientific Conference 2022](#)

**Bulk and surface characterisation techniques of solar absorbers : general discussion**

Andreasen, Jens Wenzel; Breternitz, Joachim; Bär, Marcus; Dale, Phillip J.; Dimitrievska, Mirjana; Fermin, David J.; Fleck, Nicole; Hages, Charles J.; Havryliuk, Yevhenii; Hawkins, Cara; **Mandati, Sreekanth** Faraday Discussions 2022 / p. 180-201 <https://doi.org/10.1039/D2FD90056D>

**Calcium extraction from Estonian industrial ash bashed on ammonium solvents for production of precipitated calcium carbonate**

**Tamm, Kadriann; Viires, Regiina; Žuravljova, Anastassia; Otto, Kätlin; Kuusik, Rein, keemik; Uibu, Mai** International IX Oil Shale Conference 2017 "Oil Shale Industry in Circular Economy" : 15th-16th November 2017, [Jõhvi], Ida-Viru County, Estonia : summary 2017 / p. 28-29 : ill [http://www.ester.ee/record=b4751282\\*est](http://www.ester.ee/record=b4751282*est)

**Calcium extraction from Estonian industrial wastes based on ammonium solvents**

**Tamm, Kadriann; Viires, Regiina; Kuusik, Rein, keemik; Uibu, Mai** Energy and sustainability VII 2018 / p. 465-476 : ill <https://doi.org/10.2495/ESUS170431> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**Calcium, Barium and Strontium apatites : a new generation of catalysts in the Biginelli reaction**

Ben Moussa, Sana; Lachheb, Jalel; Gruselle, Michel; **Maaten, Birgit; Kriis, Kadri; Kanger, Tõnis; Tõnsuaadu, Kaia**; Badraoui, Bechir Tetrahedron 2017 / p. 6542-6548 : ill <https://doi.org/10.1016/j.tet.2017.09.051> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Carbon aerogel platinum-praseodymium oxide nanocatalyst for methanol oxidation in 0.5 M sulfuric acid : (digital presentation)**

Prits, Alise-Valentine; Nerut, Jaak; Kasuk, Heili; **Koel, Mihkel**; Sepp, Silver; Valk, Peeter; Aruväli, Jaan; Koppel, Miriam; **Mikli, Valdek; Volobujeva, Olga**; Lust, Enn ECS transactions 2022 / art. 79 <https://doi.org/10.1149/10807.0079ecst> [Journal metrics at Scopus](#) [Article at Scopus](#)

### **Carbon xerogel from 5-methylresorcinol-formaldehyde gel : the controllability of structural properties**

Peikolainen, Anna-Liisa; **Uibu, Mai**; Kozlova, Jekaterina; Mändar, Hugo; Tamm, Aile; Aabloo, Alvo Carbon trends 2021 / art. 100037, 11 p. : ill <https://doi.org/10.1016/j.cartre.2021.100037> [Journal metrics at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **Carbonation and leaching behaviors of cement-free monoliths based on high-sulfur fly ashes with the incorporation of amorphous calcium aluminate**

**Usta, Mustafa Cem; Yörük, Can Rüstü; Uibu, Mai; Traksmaa, Rainer; Hain, Tiina; Gregor, Andre; Trikkel, Andres** ACS omega 2023 / p. 29543–29557 : ill <https://doi.org/10.1021/acsomega.3c03286> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Catalytic ozonation of trimethoprim in aqueous solution by in situ generated hydrous manganese oxide**

**Goi, Anna; Bolobajev, Juri** 5th European Conference on Environmental Applications of Advanced Oxidation Processes (EAAOP5) : book of abstracts 2017 / p. 330 [https://photo-catalysis.org/events/901/photo/book\\_of\\_proceedings\\_eaaop5\\_prague.pdf](https://photo-catalysis.org/events/901/photo/book_of_proceedings_eaaop5_prague.pdf)

### **Cellulose dissolution and transesterification in superbase ionic liquid [mTBNH][OAc] with green co-solvents = Tselluloosi lahustamine ja ümberesterdamine superaluselises ioonvedelikus [mTBNH][OAc] koos roheliste kaaslahustitega**

**Savale, Nutan Bharat** 2025 [https://www.ester.ee/record=b5734584\\*est](https://www.ester.ee/record=b5734584*est) <https://digikogu.taltech.ee/et/Item/85b4caf4-fab7-44a7-96a6-d7f5861795f6> <https://doi.org/10.23658/taltech.13/2025>

### **Changes in the thermal behaviour of phosphorite sample from Toolse deposit (Estonia) along the drill-core**

**Kaljuvee, Tiit; Tõnsuaadu, Kaia; Kallaste, Toivo; Hints, Rutt; Kivimäe, Eliise-Koidula; Petkova, Vilma; Trikkel, Andres** 7th Central and Eastern European Conference on Thermal Analysis and Calorimetry (CEEC-TAC7) : book of abstracts 2023 / p. 69

### **Characterisation of frost-retted hemp fibres for use as reinforcement in biocomposites = Külmligu kanepikiudude karakteriseerimine kasutamiseks sarrusena biokomposiitides**

**Alao, Percy Festus** 2022 <https://doi.org/10.23658/taltech.31/2022> <https://digikogu.taltech.ee/et/Item/1cb2c061-7df8-4d8b-806a-fd53ea8820b5> [https://www.ester.ee/record=b5500189\\*est](https://www.ester.ee/record=b5500189*est)

### **Characterization and comparison of as received and clinically retrieved Bio-active™ orthodontic archwires**

Georgieva, Mirela; Stoyanova-Ivanova, Angelina; Cherneva, Sabina; Petrov, Valeri; Petrova, Violeta; Andreeva, Laura; Mihailov, Valentin; Petkov, Alexander; **Mikli, Valdek** Biotechnology and biotechnological equipment 2021 / p. 1301-1311 : ill <https://doi.org/10.1080/13102818.2021.1964381> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Characterization of ash melting of reed and wheat straw blend**

**Link, Siim**; Yrjas, Patrik; Lindberg, Daniel; **Trikkel, Andres** ACS omega 2022 / p. 2137-2146 : ill <https://doi.org/10.1021/acsomega.1c05087> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Characterization of FeS<sub>2</sub> pyrite microcrystals synthesized in different flux media**

**Kristmann, Katrin; Raadik, Taavi; Altosaar, Mare; Danilson, Mati; Krustok, Jüri**; Paaver, Peeter; Butenko, Yuriy Materials advances 2023 / p. 1565 - 1575 <https://doi.org/10.1039/D3MA00697b> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Characterization of tetrahedrite Cu<sub>10</sub>Cd<sub>2</sub>Sb<sub>4</sub>S<sub>13</sub> monograin materials grown in molten CdI<sub>2</sub> and Lil**

**Ghisani, Fairouz; Timmo, Kristi; Altosaar, Mare; Mikli, Valdek; Pilvet, Maris; Kaupmees, Reelika; Krustok, Jüri; Grossberg, Maarja; Kauk-Kuusik, Marit** Thin solid films 2021 / art. 138980 <https://doi.org/10.1016/j.tsf.2021.138980> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Characterization of tetrahedrite Cu<sub>10</sub>Cd<sub>2</sub>Sb<sub>4</sub>S<sub>13</sub> monograin materials grown in molten CDI<sub>2</sub> and Lil : [conference paper]**

**Ghisani, Fairouz; Timmo, Kristi; Altosaar, Mare** GSFMT Scientific Conference 2021 : Tartu, June 14-15, 2021 : abstracts 2021 / p. 29 [https://fntdk.ut.ee/wp-content/uploads/2021/06/GSFMT\\_abstractbook\\_2021.pdf](https://fntdk.ut.ee/wp-content/uploads/2021/06/GSFMT_abstractbook_2021.pdf)

### **Characterization of thermally treated anatase TiO<sub>2</sub> supplemented by oxygen adsorption measurements**

**Kritševskaja, Marina**; Moiseev, Anna; Weber, Alfred; Deubener, Joachim 5th European Conference on Environmental Applications of Advanced Oxidation Processes (EAAOP5) : book of abstracts 2017 / p. 124 [https://photo-catalysis.org/events/901/photo/book\\_of\\_proceedings\\_eaaop5\\_prague.pdf](https://photo-catalysis.org/events/901/photo/book_of_proceedings_eaaop5_prague.pdf)

### **Chemical etching of tetrahedrite Cu<sub>10</sub>Cd<sub>2</sub>Sb<sub>4</sub>S<sub>13</sub> monograin powder materials for solar cell applications**

**Ghisani, Fairouz; Timmo, Kristi; Altosaar, Mare; Mikli, Valdek; Danilson, Mati; Grossberg, Maarja; Kauk-Kuusik, Marit** Materials science in semiconductor processing 2022 / art. 106291 <https://doi.org/10.1016/j.mssp.2021.106291> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Chemical processes involved in Cu<sub>2</sub>ZnSnSe<sub>4</sub> synthesis and SnS recrystallization in a molten salt medium = Keemilised protsessid Cu<sub>2</sub>ZnSnSe<sub>4</sub> sünteesil ja SnS rekristallisatsioonil sulade soolade keskkonnas**

**Leinemann, Inga** 2019 <https://digi.lib.ttu.ee/i/?11250> [https://www.ester.ee/record=b5185552\\*est](https://www.ester.ee/record=b5185552*est)

### **Chemical treatment of tetrahedrite Cu<sub>10</sub>Cd<sub>2</sub>Sb<sub>4</sub>S<sub>13</sub> monograin powder**

**Ghisani, Fairouz; Timmo, Kristi; Altosaar, Mare** GSFMT Scientific Conference 2020 : Tallinn, February 4-5, 2020 : abstracts 2020 / p. 24 <http://fmdk.ut.ee/wp-content/uploads/2020/01/GSFMT2020.pdf>

### **Chemical vapour deposition of WS<sub>2</sub> monolayers [Online resource]**

**Kaupmees, Reelika; Grossberg, Maarja; Krustok, Jüri** Tartu Ülikooli ASTRA projekt PER ASPERA : Funktsionaalsed materjalid ja tehnoloogiad : [4.-5. veebr. 2019, Tartu : teesid] 2019 / 1 p <http://fmdk.ut.ee/teesid-2019/>

### **Chloromethylation of lignin as a route to functional material with catalytic properties in cross-coupling and click reactions**

**Mohan, Mahendra Kothottil; Silenko, Oleg; Krasnou, Illia; Volobujeva, Olga; Kulp, Maria; Ošeka, Maksim; Lukk, Tiit; Karpichev, Yevgen** ChemSusChem 2024 / art. e202301588 <https://doi.org/10.1002/cssc.202301588> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Circular production, designing, and mechanical testing of polypropylene-based reinforced composite materials : statistical analysis for potential automotive and nuclear applications**

**Hussain, Abrar; Podgurski, Vitali; Goljandin, Dmitri; Antonov, Maksim; Sergejev, Fjodor; Krasnou, Illia** Polymers 2023 / art. 3410, 30 p. : ill <https://doi.org/10.3390/polym15163410> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Class-selective molecularly imprinted polymer-based sensor for macrolide antibiotics detection**

**Ayankojo, Akinrinade George; Nguyen, Vu Bao Chau; Reut, Jekaterina; Öpik, Andres; Söritski, Vitali** International Conference on Chemical Sensors : Mátrafüred 2022 2022 / p. 70 [https://matrafured.ch/MatrafuredScientificProgram\\_2022.pdf](https://matrafured.ch/MatrafuredScientificProgram_2022.pdf)

### **ClimMIT - Climate change mitigation with CCS and CCU technologies**

**Uibu, Mai; Siirde, Andres; Järvik, Oliver; Triikkel, Andres; Yörük, Can Rüstü; Nurk, Gunnar; Kirsimäe, Kalle; Hazak, Aaro; Konist, Alar** Proceedings of the 15th Greenhouse Gas Control Technologies Conference 15-18 March 2021 2021 / 9 p <https://ssrn.com/abstract=3812288> <https://doi.org/10.2139/ssrn.3812288>

### **CNC machining of halftone and lithophane images into wood-based panels [Online resource]**

**Kiiman, Karmo; Luga, Üllar; Poltimäe, Triinu; Kers, Jaan** Tartu Ülikooli ASTRA projekt PER ASPERA : Funktsionaalsed materjalid ja tehnoloogiad : [7-8 märtsil 2018, Tallinn : teesid] GSFMT Scientific Conference 2018 : Tallinn, March 7-8, 2018 : abstracts 2018 / p. 1 <http://fmdk.ut.ee/teesid-2018/>

### **CNC-töötlemiskeskused puidutööstuses**

**Kiiman, Karmo; Serg, Rene** Puidutöötlemise õpik 2025 / lk. 406-448 : ill [https://www.ester.ee/record=b5714083\\*est](https://www.ester.ee/record=b5714083*est) <https://digikogu.taltech.ee/et/Item/32f67368-0b3f-4f3d-9c57-26b8d9d7bc93>

### **CO<sub>2</sub> curing of Ca-rich fly ashes to produce cement-free building materials**

**Usta, Mustafa Cem; Yörük, Can Rüstü; Uibu, Mai; Hain, Tiina; Gregor, Andre; Triikkel, Andres** Minerals 2022 / art. 513, 24 p. : ill <https://doi.org/10.3390/min12050513> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **CO<sub>2</sub> mineralization by burnt oil shale and cement by pass dust effect of operating temperature and pre-treatment**

**Usta, Mustafa Cem; Yörük, Can Rüstü; Uibu, Mai; Kaljuvee, Tiit; Triikkel, Andres** GSFMT Scientific Conference 2020 : Tallinn, February 4-5, 2020 : abstracts 2020 / p. 87 <http://fmdk.ut.ee/wp-content/uploads/2020/01/GSFMT2020.pdf>

### **CO<sub>2</sub> mineralization by burnt oil shale and cement bypass dust : effect of operating temperature and pre-treatment**

**Yörük, Can Rüstü; Uibu, Mai; Usta, Mustafa Cem; Kaljuvee, Tiit; Triikkel, Andres** Journal of thermal analysis and calorimetry 2020 / p. 991–999 : ill <https://doi.org/10.1007/s10973-020-09349-9> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **CO<sub>2</sub> mineralization by burnt oil shale and cement bypass dust: effect of operating temperature and pre-treatment**

**Yörük, Can Rüstü; Uibu, Mai; Usta, Mustafa Cem; Kaljuvee, Tiit; Triikkel, Andres** 2nd Journal of Thermal Analysis and Calorimetry Conference, Budapest, June 18–21, 2019 : book of abstracts 2019 / p. 501 <https://jtac-jtacc.akcongress.com/>

### **CO<sub>2</sub> mineralization in cement sector : Lab scale experiments on burnt oil shale and concrete demolition wastes**

**Uibu, Mai; Usta, Mustafa Cem; Tamm, Kadriann; Žuravljova, Anastassia; Kallas, Juha; Kuusik, Rein; Keemik, Triikkel, Andres** enos-project.eu 2018 / 18 p. : ill <http://www.enos-project.eu/highlights/conference/basreccs-enos-workshop/> [http://www.enos-project.eu/media/15321/8-basreccs-enos\\_muibu.pdf](http://www.enos-project.eu/media/15321/8-basreccs-enos_muibu.pdf)

### **CO<sub>2</sub> transformed into highly active catalysts for the oxygen reduction reaction via low-temperature molten salt electrolysis**

**Rommel, Anna-Liis; Ratso, Sander; Liivand, Kerli; Danilson, Mati; Kaare, Kätlin; Mikli, Valdek; Kruusenberg, Ivar** Electrochemistry Communications 2024 / art. 107781 <https://doi.org/10.1016/j.elecom.2024.107781> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **CO<sub>2</sub> turned into a nitrogen doped carbon catalyst for fuel cells and metal-air battery applications**

Ratso, Sander; **Walke, Peter; Mikli, Valdek**; Locs, Janis; Šmits, Krišjānis; Vitola, Virginija; Šutka, Andris; Kruusenberg, Ivar Green chemistry 2021 / p. 4435–4445 <https://doi.org/10.1039/D1GC00659B> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Cobalt and nitrogen co-doped peat derived carbon based catalysts for oxygen reduction**

Jäger, Rutha; Teppor, Patrick; Härk, Eneli; Härmas, Meelis; Adamson, Anu; Paalo, Maarja; **Volobujeva, Olga**; Kikas, Arvo; Kochovski, Zdravko; Romann, Tavo ECS Transactions 2020 / p. 605-613 : ill <https://doi.org/10.1149/09707.0605ecst> [Journal metrics at Scopus](#) [Article at Scopus](#)

#### **Combination of advanced oxidation methods for the energy-efficient abatement of aqueous and gaseous hazardous pollutants = Süvaoksüdatsiooniprotsesside kombineerimine ohtlike saasteainete energiatõhusaks lagundamiseks vees ja õhus**

**Kask, Maarja** 2021 [https://www.ester.ee/record=b5451819\\*est](https://www.ester.ee/record=b5451819*est) <https://digikogu.taltech.ee/et/Item/26344f14-93e2-432d-82d6-cc540247d95b> <https://doi.org/10.23658/taltech.37/2021>

#### **Combinative solution processing and Li doping approach to develop p-type NiO thin films with enhanced electrical properties**

**Oluwabi, Abayomi Titilope; Spalatu, Nicolae**; Maticiu, Natalia; **Katerski, Atanas; Mere, Arvo; Krunks, Malle; Oja Acik, Ilona** Frontiers in materials 2023 / 12 p. : ill <https://doi.org/10.3389/fmats.2023.1060420> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Combined effects of test media and dietary algae on the toxicity of CuO and ZnO nanoparticles to freshwater microcrustaceans daphnia magna and heterocypris incongruens : food for thought**

**Muna, Marge**; Blinova, Irina; Kahru, Anne; Vrček, Ivana Vinković; Pem, Barbara; Orupõld, Kaja; Heinlaan, Margit Nanomaterials 2019 / art. 23 <https://doi.org/10.3390/nano9010023> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Combined treatment of pyrogenic wastewater from oil shale retorting**

Klein, Kati; **Kattel, Eneliis; Goi, Anna**; Kivi, Arthur; **Dulova, Niina**; Saluste, Alar; Zekker, Ivar; **Trapido, Marina**; Tenno, Taavo Oil shale 2017 / p. 82-96 : ill <https://doi.org/10.3176/oil.2017.1.06> [https://artiklid.elnet.ee/record=b2816468\\*est](https://artiklid.elnet.ee/record=b2816468*est) [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Comparative analysis of the qualitative characteristics of formaldehyde and acetaldehyde resins based on styrene-modified oil shale alkylresorcinols**

**Jurkeviciute, Ana; Grigorieva, Larisa; Tõnsuaadu, Kaia; Blum, Kristina** Materials research express 2023 / art. 035304, 14 p. : ill <https://doi.org/10.1088/2053-1591/acc0e1> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **A comparative study of losartan photodegradation : activated persulfate versus hydrogen peroxide**

**Balpreet Kaur; Eha, Kaie; Dulova, Niina** The 20th European Meeting on Environmental Chemistry : 2-5 December 2019 Lodz, Poland : book of abstract 2019 / p. 77 : ill [https://emec20.p.lodz.pl/files/Book\\_of\\_Abstracts\\_EMEC20.pdf](https://emec20.p.lodz.pl/files/Book_of_Abstracts_EMEC20.pdf)

#### **Comparative study of perhydropolysilazane protective films**

**Shmagina, Elizaveta; Danilson, Mati; Mikli, Valdek; Bereznev, Sergei** Surface engineering 2022 / p. 769-777 : ill <https://doi.org/10.1080/02670844.2022.2155445> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Comparative study of siox layers deposition using thermal and uv-assisted curing of perhydropolysilazane**

**Shmagina, Elizaveta; Bereznev, Sergei** GSFMT Scientific Conference 2021 : Tartu, June 14-15, 2021 : abstracts 2021 / P 50 [https://fmtdk.ut.ee/wp-content/uploads/2021/06/GSFMT\\_abstractbook\\_2021.pdf](https://fmtdk.ut.ee/wp-content/uploads/2021/06/GSFMT_abstractbook_2021.pdf)

#### **A comparative study of the growth dynamics and tribological properties of nanocrystalline diamond films deposited on the (110) single crystal diamond and Si(100) substrates**

**Podgurski, Vitali; Bogatov, Andrei; Yashin, Maxim; Viljus, Mart; Volobujeva, Olga; Mere, Arvo; Raadik, Taavi** Diamond and related materials 2019 / p. 159-167 : ill <https://doi.org/10.1016/j.diamond.2018.12.024> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Comparative study of thin films prepared by different curing methods of perhydropolysilazane**

**Shmagina, Elizaveta; Danilson, Mati; Mikli, Valdek; Bereznev, Sergei** Graduate School of Functional Materials and Technology (GSFMT) Scientific Conference : abstracts 2022 / art. 54 [Graduate School of Functional Materials and Technology \(GSFMT\) Scientific Conference 2022](#)

#### **A comparative study on physical properties of Al-doped zinc oxide thin films deposited from zinc acetate and zinc acetylacetonate by spray pyrolysis**

**Eensalu, Jako Siim; Krunks, Malle; Gromõko, Inga; Katerski, Atanas; Mere, Arvo** Energetika 2017 / p. 46-55 : ill <https://doi.org/10.6001/energetika.v63i2.3519> [Journal metrics at Scopus](#) [Article at Scopus](#)

#### **A comparative study on physical properties of Al-doped zinc oxide thin films deposited from zinc acetate and zinc acetylacetonate solutions by spray pyrolysis**

**Eensalu, Jako Siim; Krunks, Malle; Gromõko, Inga; Katerski, Atanas; Mere, Arvo** The 14th International Conference of Young

Scientists on Energy Issues : Kaunas, Lithuania, May 25-26, 2017 2017 / p. X-332  
[http://cyseni.com/archives/proceedings/Proceedings\\_of\\_CYSENI\\_2017.pdf](http://cyseni.com/archives/proceedings/Proceedings_of_CYSENI_2017.pdf)

#### **Comparison of dehydration in kaolin and illite using DC conductivity measurements**

Kubliha, Marian; Trnovcova, Viera; Ondruška, Jan; Štuba, Igor; Bošák, Ondrej; **Kaljuvee, Tiit** Applied clay science 2017 / p. 8–12 : ill  
<https://doi.org/10.1016/j.clay.2017.08.012> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Comparison of different advanced oxidation processes for sulphamethizole degradation : process applicability study at mg L-1 level and scale-down to µg L-1 level**

**Klauson, Deniss**; Grimm, F.; **Pronina, Natalja**; **Viisimaa, Marika**; **Dulova, Niina** 5th European Conference on Environmental Applications of Advanced Oxidation Processes (EAAOP5) : book of abstracts 2017 / p. 401 [https://photo-catalysis.org/events/901/photo/book\\_of\\_proceedings\\_eaaop5\\_prague.pdf](https://photo-catalysis.org/events/901/photo/book_of_proceedings_eaaop5_prague.pdf)

#### **Comparison of multifractal parameters of surface defects and non-defects**

Martsepp, Merike; Laas, Tõnu; Tökke, Siim; **Priimets, Jaanis**; **Mikli, Valdek** Proceedings of the Estonian Academy of Sciences 2023 / p. 115-127 : ill <https://doi.org/10.3176/proc.2023.2.03> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Competitive binding of natural amphiphiles with graphene derivatives**

Radic, Slaven; Geitner, Nicholas K.; Podila, Ramakrishna; **Käkinen, Aleksandr**; Chen, Pengyu; Ke, Pu Chun; Ding, Feng Scientific reports 2013 / art. 2273 <https://doi.org/10.1038/srep02273> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Comprehensive study of photoluminescence and device properties in Cu<sub>2</sub>Zn(Sn<sub>1-x</sub>Gex)<sub>4</sub> monograins and monograin layer solar cells**

**Mengü, Idil**; **Muska, Katri**; **Pilvet, Maris**; **Mikli, Valdek**; Dudutiene, Evelina; Kondrotas, Rokas; **Krustok, Jüri**; **Kauk-Kuusik, Marit**; **Grossberg-Kuusk, Maarja** Solar energy materials and solar cells 2024 / art. 113124 <https://doi.org/10.1016/j.solmat.2024.113124>

#### **Comprehensive study of proteolysis during cheese ripening = Proteolüüsi detailne iseloomustamine juustu valmimise käigus**

**Taivosalo, Anastassia** 2020 <https://digikogu.taltech.ee/et/Item/baa0efb7-99a7-47b4-a051-3046973593cc>

#### **A computational approach for rational monomer selection in molecularly imprinted polymer synthesis = Monomeeride valiku protsessi modelleerimine optimaalse monomeeri leidmiseks molekulaarselt jäljendatud polümeeride sünteesil**

**Boroznjak, Roman** 2017 <https://digi.lib.ttu.ee/II/?7629>

#### **The computational approach for rational monomer selection in molecularly imprinted polymer synthesis [Online resource]**

**Boroznjak, Roman**; **Lomaka, Andre**; **Sõritski, Vitali**; **Reut, Jekaterina** Tartu Ülikooli ASTRA projekt PER ASPERA : Funktsionaalsed materjalid ja tehnoloogiad : [7-8 märts 2017, Tartu : teesid] 2017 / [1] p. : ill <http://fntdk.ut.ee/teesid/>

#### **A computational approach to study functional monomer|protein molecular interactions to optimize protein molecular imprinting**

**Boroznjak, Roman**; **Reut, Jekaterina**; **Tretjakov, Aleksei**; **Lomaka, Andre**; **Õpik, Andres**; **Sõritski, Vitali** Journal of molecular recognition 2017 / art. e2635, p. 1-9 : ill <https://doi.org/10.1002/jmr.2635> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Consumption of Estonian phosphorite [Online resource]**

**Tamm, Kadriann**; **Kuusik, Rein**, keemik; **Veiderma, Mihkel**; **Tõnsuaadu, Kaia** Combined set of posters presented at ESPC3 2018 / [1] p. : ill <https://phosphorusplatform.eu/images/Conference/ESPC3/Outcomes/ESPC3-Posters-Combined-v2018-10-17-reduced.pdf>

#### **Control over MoSe<sub>2</sub> formation with vacuum-assisted selenization of one-step electrodeposited Cu-In-Ga-Se precursor layers**

**Mandati, Sreekanth**; Misra, Prashant; Boosagulla, Divya; Tata, Narasinga Rao; Bulusu, Sarada V. Environmental science and pollution research 2021 / p. 15123-15129 : ill <https://doi.org/10.1007/s11356-020-11783-z>

#### **Controlled annealing process for efficient CdTe thin film solar cells [Online resource]**

**Spalatu, Nicolae**; **Hiie, Jaan**; **Krunks, Malle** [2018 E-MRS Spring Meeting and Exhibit : Materials for energy and environment : Thin film chalcogenide photovoltaic materials : program] 2018 / A.PII.29 <https://www.european-mrs.com/thin-film-chalcogenide-photovoltaic-materials-emrs> [https://www.etis.ee/File/DownloadPublic/d661bb08-33fb-49cb-9ce9-8c6e1c3228ce?name=Fail\\_Abstracts%20EMRS%202018\\_SYMPOSIUM%20A\\_Thin%20film%20chalcogenide%20photovoltaic%20materials.pdf&type=application%2Fpdf](https://www.etis.ee/File/DownloadPublic/d661bb08-33fb-49cb-9ce9-8c6e1c3228ce?name=Fail_Abstracts%20EMRS%202018_SYMPOSIUM%20A_Thin%20film%20chalcogenide%20photovoltaic%20materials.pdf&type=application%2Fpdf)

#### **Controlled nanocrystalline precipitation of hydroxyapatite on the surface of microfibrillated cellulose fibers**

**Kärner, Kärt**; **Elomaa, Matti Antero**; **Kallavus, Urve**; **Tõnsuaadu, Kaia** International journal of recent scientific research 2017 / p. 20803-20809 : ill <http://recentscientific.com/sites/default/files/8807-A-2017.pdf>

### **Copper chalcopyrites for solar energy applications**

**Mandati, Sreekanth;** Misra, Prashant; Sarada, Bulusu V.; Rao, Tata Naransinga Transactions of the Indian Institute of Metals 2019 / p. 271–288 : ill <https://doi.org/10.1007/s12666-018-1455-0>

### **Copper–zinc oxide heterojunction catalysts exhibiting enhanced photocatalytic activity prepared by a hybrid deposition method**

Montero, Jose; Welearegay, Tesfalem; Thyr, Jakob; Stopfel, Henry; **Dedova, Tatjana; Oja Acik, Ilona;** Österlund, Lars RSC advances 2021 / p. 10224–10234 <https://doi.org/10.1039/d1ra00691f> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Correction to: CO<sub>2</sub> mineralization by burnt oil shale and cement bypass dust: effect of operating temperature and pre-treatment (Journal of Thermal Analysis and Calorimetry, (2020), 142, 2, (991-999), 10.1007/s10973-020-09349-9)**

**Yörük, Can Rüstü; Uibu, Mai; Usta, Mustafa Cem; Kaljuvee, Tiit; Triikkel, Andres** Journal of Thermal Analysis and Calorimetry 2020 / p. 1001 <https://doi.org/10.1007/s10973-020-09973-5> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Correction: Improving Pharmaceuticals Removal at Wastewater Treatment Plants Using Biochar: A Review (Waste and Biomass Valorization, (2023), 14, 8, (2433-2458), 10.1007/s12649-023-02070-2)**

Akintola, Ayooluwa Tomiwa; **Ayankunle, Ayankoya Yemi** Waste and biomass valorization 2023 / p. 2459-2460 <https://doi.org/10.1007/s12649-023-02093-9> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Corrigendum to “Fabrication of novel SiOxNy/SWCNT laminate-type composite protective coating using low-temperature approach” [Ceram. Int. 50 (2024) 34312–34320, (S0272884224026634), (10.1016/j.ceramint.2024.06.250)]**

**Shmagina, Elizaveta; Volobujeva, Olga;** Nasibulin, Albert; **Bereznev, Sergei** Ceramics international 2025 / art. 48887 <https://doi.org/10.1016/j.ceramint.2024.09.158> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Corrigendum to Improvement in iron activation ability ofalachlor Fenton-like oxidation by ascorbic acid [Chem. Eng. J. 281 (2015) 566-574] Doi: 10.1016/j.cej.2015.06.115**

**Bolobajev, Juri; Trapido, Marina; Goi, Anna** Chemical Engineering Journal 2016 / p. 19 <https://doi.org/10.1016/j.cej.2015.11.001> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Corrigendum to “Screening and optimization of processing temperature for Sb<sub>2</sub>Se<sub>3</sub> thin film growth protocol: Interrelation between grain structure, interface intermixing and solar cell performance” [Solar Energy Mater. Solar Cell. 225 (2021) 1–13 111045](S092702482100088X)(10.1016/j.solmat.2021.111045)**

**Spalatu, Nicolae; Krautmann, Robert; Katerski, Atanas; Kärber, Erki; Josepson, Raavo; Hiie, Jaan; Oja Acik, Ilona; Krunks, Malle** Solar Energy Materials and Solar Cells 2021 / Art. 111098 <https://doi.org/10.1016/j.solmat.2021.111098> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Cost-effective fluorene and thiophene containing hole conductors towards semi-transparent Sb<sub>2</sub>S<sub>3</sub> absorber-based solar cells**

**Mandati, Sreekanth; Juneja, Nimish; Katerski, Atanas;** Jegorove, Aiste; Daskeviciute-Geguziene, Sarune; Grzibovskis, Raitis; Vembris, Aivars; **Spalatu, Nicolae;** Magomedov, Artiom; Karazhanov, Smagul; Getautis, Vytautas; **Krunks, Malle; Oja Acik, Ilona** WCPEC-8 : 8th World Conference on Photovoltaic Energy Conversion 2022 / p. 470-473 <https://doi.org/10.4229/WCPEC-82022-2BV.2.70>

### **Cost-effective screen printing approach for Ce/Nd-doped ZnAl<sub>2</sub>O<sub>4</sub> films: tuning crystallinity induced by the substrate**

**Rojas Hernandez, Rocio Estefania;** Rubio-Marcos, Fernando; **Necib, Jallouli; Danilson, Mati;** Fernandez, Jose Francisco; **Hussainova, Irina** Physical chemistry chemical physics 2023 / p. 15829-15838 <https://doi.org/10.1039/D3CP02005C> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Cost-effective synthesis of electrodeposited NiCo<sub>2</sub>O<sub>4</sub> nanosheets with induced oxygen vacancies : a highly efficient electrode material for hybrid supercapacitors**

Pappu, Samhita; Nanaji, Katchala; **Mandati, Sreekanth;** Rao, Tata Naransinga; **Martha, Surendra K.; Bulusu, Sarada V.** Batteries and supercaps 2020 / p. 1209-1219 <https://doi.org/10.1002/batt.202000121>

### **Cu<sub>2</sub>ZnSnS<sub>4</sub> monograin layer solar cells for flexible photovoltaic applications**

**Kauk-Kuusik, Marit; Timmo, Kristi; Pilvet, Maris; Muska, Katri; Danilson, Mati; Krustok, Jüri; Josepson, Raavo; Mikli, Valdek; Grossberg-Kuusk, Maarja** Journal of materials chemistry A 2023 / p. 23640-23652 <https://doi.org/10.1039/D3TA04541B> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Cu(In,Ga)Se<sub>2</sub> monograin powders with different Ga content for solar cells**

**Timmo, Kristi; Kauk-Kuusik, Marit; Pilvet, Maris; Altosaar, Mare; Grossberg, Maarja; Danilson, Mati; Kaupmees, Reelika; Mikli, Valdek; Raudoja, Jaan; Varema, Tiit** Solar energy 2018 / p. 648–655 : ill <https://doi.org/10.1016/j.solener.2018.10.078> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Cyclohexanohemicurbit[8]uril inclusion complexes with heterocycles and selective extraction of sulfur compounds**

from water

**Shalima, Tatsiana; Mishra, Kamini Atindrakumar; Kaabel, Sandra; Ustrnul, Lukas; Bartkova, Simona; Tõnsuaadu, Kaia; Heinmaa, Ivo; Aav, Riina** *Frontiers in chemistry* 2021 / art. 786746, 8 p. : ill <https://doi.org/10.3389/fchem.2021.786746> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Decoding the atomic structure of Ga<sub>2</sub>Te<sub>5</sub> pulsed laser deposition films for memory applications using diffraction and first-principles simulations**

**Tverjanovich, Andrey; Benmore, Chris J.; Khomenko, Maxim; Sokolov, Anton; Fontanari, Daniele; Bereznev, Sergei; Bokova, Maria; Kassem, Mohammad; Bychkov, Eugene** *Nanomaterials* 2023 / art. 2137 <https://doi.org/10.3390/nano13142137> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Deep oxidative desulfurization of planar compounds over functionalized metal-organic framework UiO-66(Zr): An optimization study**

**Barghi, Bijan; Möistlik, Tanel; Raag, Anastassia; Volokhova, Maria; Reile, Indrek; Seinberg, Liis; Mikli, Valdek; Niidu, Allan** *ACS omega* 2024 / p. 23329-23338 <https://doi.org/10.1021/acsomega.3c09971> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Degradation of antibiotic vancomycin by UV photolysis and pulsed corona discharge combined with extrinsic oxidants**

**Nikitin, Dmitri; Kaur, Balpreet; Preis, Sergei; Dulova, Niina** *GSFMT Scientific Conference 2023 : Tartu, 23-24 May, 2023 : abstracts 2023 / 1 p* <https://fmdtk.ut.ee/programm-2023/>

**Degradation of antibiotic vancomycin by UV photolysis and pulsed corona discharge combined with extrinsic oxidants**

**Nikitin, Dmitri; Kaur, Balpreet; Preis, Sergei; Dulova, Niina** *Catalysts* 2023 / art. 466, 16 p. : ill <https://doi.org/10.3390/catal13030466> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Degradation of anti-inflammatory drug dexamethasone by pulsed corona discharge : The effect of peroxycompounds addition**

**Onga, Liina; Kattel-Salusoo, Eneliis; Preis, Sergei; Dulova, Niina** *Journal of environmental chemical engineering* 2022 / art. 108042 <https://doi.org/10.1016/j.jece.2022.108042> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Degradation of aqueous alachlor in pulsed corona discharge**

**Bolobajev, Juri; Gornov, Daniil; Kornev, Iakov; Preis, Sergei** *Journal of electrostatics* 2021 / art. 103543 <https://doi.org/10.1016/j.elstat.2020.103543> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Degradation of ceftriaxone in aqueous solution by heterogeneous photo-activated persulfate system [Online resource]**

**Kattel, Eneliis; Balpreet Kaur; Trapido, Marina; Dulova, Niina** *EMEC18 : Chemistry Towards an Infinite Environment, 18th European Meeting on Environmental Chemistry : book of abstracts 2017 / p. 108* : ill [http://www.europeanace.com/file\\_download/82](http://www.europeanace.com/file_download/82)

**Degradation of ceftriaxone in water by heterogeneously activated persulfate [Online resource]**

**Kuntus, Liina; Dulova, Niina; Kattel, Eneliis** *Tartu Ülikooli ASTRA projekt PER ASPERA : Funktsionaalsed materjalid ja tehnoloogiad : [4.-5. veebr. 2019, Tartu : teesid] 2019 / 1 p* <http://fmdtk.ut.ee/teesid-2019/>

**Degradation of environmentally toxic refractory compounds in suspended-bed reactor by photocatalytic oxidation and combination of biological treatment with photocatalysis [Online resource]**

**Pronina, Natalja; Klauson, Deniss; Kamenev, Sven; Kamenev, Inna; Rudenko, Tatjana; Künnis-Beres, Kai; Moiseev, Anna; Kriševskaja, Marina** *Tartu Ülikooli ASTRA projekt PER ASPERA : Funktsionaalsed materjalid ja tehnoloogiad : [7-8 märts 2017, Tartu : teesid] 2017 / [1] p. : ill* <http://fmdtk.ut.ee/teesid/>

**Degradation of imidazolium-based ionic liquids by pulsed corona discharge and UV photolysis assisted with extrinsic oxidants**

**Nikitin, Dmitri; Preis, Sergei; Dulova, Niina** *IOA 26th World Congress & Exhibition Milano 2023 : proceedings 2023 / p. 15.7-1-15.7-3* <https://www.ioa-ea3g.org/congress/technical-programme/information-for-authors/>

**Degradation of imidazolium-based ionic liquids by UV photolysis and pulsed corona discharge : the effect of persulfates addition**

**Nikitin, Dmitri; Preis, Sergei; Dulova, Niina** *Separation and purification technology* 2024 / art. 127235 <https://doi.org/10.1016/j.seppur.2024.127235> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Degradation of imidazolium-based ionic liquids by UV photolysis and pulsed corona discharge : the effect of persulfates addition**

**Nikitin, Dmitri; Dulova, Niina; Preis, Sergei** *19th IWA leading edge conference on Water and Wastewater Technologies 2024 / 2 p.* <https://iwa-let.org/pdfviewer/degradation-of-imidazolium>

**Degradation of imidazolium-based ionic liquids by UV photolysis and pulsed corona discharge combined with persulfate**

**Nikitin, Dmitri; Preis, Sergei; Dulova, Niina** *18th International Conference on Chemistry and the Environment (ICCE 2023), June 11-15, 2023 : Book of abstracts 2023 / p. 394* <https://icce2023.com/wp-content/uploads/2023/06/Book-of-Abstracts.pdf>

**Degradation of naproxen by ferrous ion-activated hydrogen peroxide, persulfate and combined hydrogen peroxide/persulfate processes : the effect of citric acid addition**

Dulova, Niina; Kattel, Eneliis; Trapido, Marina Chemical engineering journal 2017 / p. 254-263 : ill

<https://doi.org/10.1016/j.cej.2016.07.006> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Dependence of multifractal analysis parameters on the darkness of a processed image**

Martsepp, Merike; Laas, Tõnu; Laas, Katrin; Priimets, Jaanis; Tõkke, Siim; Mikli, Valdek Chaos, Solitons & Fractals 2022 / art.

111811 <https://doi.org/10.1016/j.chaos.2022.111811> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Dependence of the interaction mechanisms between L-serine and O-phospho-L-serine with calcium hydroxyapatite and copper modified hydroxyapatite in relation with the acidity of aqueous medium**

Tõnsuaadu, Kaia; Gruselle, Michel; Kriisa, Frieda; Trikkel, Andres Journal of biological inorganic chemistry 2018 / p. 929–937 : ill

<https://doi.org/10.1007/s00775-018-1594-0> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Deposition of Sb<sub>2</sub>Se<sub>3</sub> thin films by ultrasonic spray pyrolysis for photovoltaic applications = Päikesepatareides rakendatavate Sb<sub>2</sub>Se<sub>3</sub> õhukeste kilede sadestamine ultrahelipihustuspürolüüsi meetodil**

Eensalu, Jako Siim 2022 <https://doi.org/10.23658/taltech.1/2022> [https://digikogu.taltech.ee/et/Item/6c2df448-6e67-496b-9e31-](https://digikogu.taltech.ee/et/Item/6c2df448-6e67-496b-9e31-87205057d560)

[87205057d560](https://www.eester.ee/record=b5492121*est) [https://www.eester.ee/record=b5492121\\*est](https://www.eester.ee/record=b5492121*est)

**Design of performance characteristics on laser treated denim fabric**

Mandre, Nele; Plamus, Tiia; Linder, Angelika; Varjas, Toivo; Majak, Jüri; Krumme, Andres The materials science =

Medžiagotyra 2023 / 10 p. : ill <https://doi.org/10.5755/j02.ms.33259> Journal metrics at Scopus Article at Scopus Journal metrics at WOS

[Article at WOS](#)

**Design of performance characteristics on laser treated denim fabric : [conference paper]**

Mandre, Nele; Plamus, Tiia; Linder, Angelika; Varjas, Toivo; Majak, Jüri; Krumme, Andres Graduate School of Functional

Materials and Technology (GSFMT) Scientific Conference : abstracts 2022 / p. 36 : ill [Graduate School of Functional Materials and Technology \(GSFMT\) Scientific Conference 2022](#)

**Design optimization of permanent magnet clutch**

Andriushchenko, Ekaterina; Kallaste, Ants; Belahcen, Anouar; Heidari, Hamidreza; Vaimann, Toomas; Rassõlkin, Anton

2020 International Conference on Electrical Machines (ICEM), 23-26 August 2020, Gothenburg, Sweden : online : proceedings 2020 / p. 436–440 <https://doi.org/10.1109/ICEM49940.2020.9270726>

**Designing highly insulated cross-laminated timber external walls in terms of hygrothermal performance : field measurements and simulations**

Kukk, Villu; Kaljula, Laura; Kers, Jaan; Kalamees, Targo Building and Environment 2022 / art. 108805

<https://doi.org/10.1016/j.buildenv.2022.108805> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Detailed insight into the CZTS/CdS interface modification by air annealing in monograin layer solar cells**

Kauk-Kuusik, Marit; Timmo, Kristi; Muska, Katri; Pilvet, Maris; Krustok, Jüri; Josepson, Raavo; Brammertz, Guy; Vermang,

Bart; Danilson, Mati; Grossberg, Maarja ACS Applied Energy Materials 2021 / p. 12374–12382

<https://doi.org/10.1021/acsaem.1c02186> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Detailed modeling of sorptive and textural properties of CaO-based sorbents with various porous structures**

Bazaikin, Ya.V.; Malkovich, E.G.; Prokhorov, D.I.; Derevshchikov, Vladimir Separation and purification technology 2021 / art.

117746, 12 p. : ill <https://doi.org/10.1016/j.seppur.2020.117746> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Detailed photoluminescence study of Cu<sub>2</sub>Ge(SSe)<sub>3</sub> microcrystals**

Kuusik, Jüri; Kaupmees, Reelika; Li, Xiaofeng; Kauk-Kuusik, Marit; Grossberg, Maarja AIP advances 2021 / art. 085105

<https://doi.org/10.1063/5.0053928> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Determination and comparison of ash melting temperature of a biomass blend by laboratory methods and thermodynamic modelling**

Link, Siim; Yrjas, Patrik; Lindberg, Daniel; Trikkel, Andres 28th European Biomass Conference and Exhibition : 6-9 July 2020

(Virtual), Marseille, France : proceedings 2020 / p. 322-328 <https://doi.org/10.5071/28thEUBCE2020-2BV.2.1>

**Development and application of energy producing solar pavement in Estonia**

Jalakas, Tanel; Chub, Andrii; Vinnikov, Dmitri; Spalatu, Nicolae; Gudkova, Viktoria; Krunks, Malle; Mere, Arvo; Lahi, Allan

2022 IEEE 63th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCon):

conference proceedings 2022 / 5 p. : ill <https://doi.org/10.1109/RTUCon56726.2022.9978908>

**Development of a molecularly imprinted polymerbased sensor for electrochemical detection of macrolide antibiotics**

Ayankojo, Akinrinade George; Reut, Jekaterina; Öpik, Andres; Sõritski, Vitali Baltic Polymer Symposium 2019 : Vilnius,

Lithuania, 18-20 September 2019 : programme and proceedings 2019 / p. 43 : ill [Development of a molecularly](#)

**Development of a portable MIP-based electrochemical sensor for detection of SARS-CoV-2 antigen**

Raziq, Abdul; Kidakova, Anna; Boroznjak, Roman; Reut, Jekaterina; Öpik, Andres; Söritski, Vitali Biosensors and bioelectronics 2021 / art. 113029 <https://doi.org/10.1016/j.bios.2021.113029> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Development of antimony sulfide thin-film solar cells for semitransparent applications**

Beglaryan, Robert; Katerski, Atanas; Oja Acik, Ilona; Krunks, Malle Graduate School of Functional Materials and Technology (GSFMT) Scientific Conference : abstracts 2022 / 9 I. [Graduate School of Functional Materials and Technology \(GSFMT\) Scientific Conference 2022](#)

**Development of autonomous food dehydration system based on building integrated photovoltaic thermal technology**

Yakobiuk, Dmytro; Jagomägi, Andri; Yakobiuk, Iryna Journal of Renewable and Sustainable Energy 2018 / art. 021002 <https://doi.org/10.1063/1.5000230> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Development of band gap tuned CU<sub>2</sub>ZN(SN<sub>1</sub>-XGEX)S<sub>4</sub> monograin powders**

Mengü, Idil; Grossberg-Kuusk, Maarja; Muska, Katri; Pilvet, Maris; Mikli, Valdek; Kaupmees, Reelika; Krustok, Jüri; Kauk-Kuusik, Marit Graduate School of Functional Materials and Technology (GSFMT) Scientific Conference : abstracts 2022 / 39 I. [Graduate School of Functional Materials and Technology \(GSFMT\) Scientific Conference 2022](#)

**Development of Bi<sub>2</sub>S<sub>3</sub> thin film solar cells by close-spaced sublimation and analysis of absorber bulk defects via in-depth photoluminescence analysis**

Koltsov, Mykhailo; Gopi, Sajeesh Vadakkedath; Raadik, Taavi; Krustok, Jüri; Josepson, Raavo; Gržibovskis, Raitis; Vembris, Aivars; Spalatu, Nicolae Solar energy materials and solar cells 2023 / art. 112292 <https://doi.org/10.1016/j.solmat.2023.112292> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Development of Bi<sub>2</sub>S<sub>3</sub> thin-film solar cells by close-spaced sublimation**

Koltsov, Mykhailo; Krautmann, Robert; Gopi, Sajeesh Vadakkedath; Hiie, Jaan; Krunks, Malle; Oja Acik, Ilona; Spalatu, Nicolae Graduate School of Functional Materials and Technology (GSFMT) Scientific Conference : abstracts 2022 / 25 I. [Graduate School of Functional Materials and Technology \(GSFMT\) Scientific Conference 2022](#)

**Development of bio-based nonwoven materials from post-consumer textile waste**

Rahman, Md Toufiqur; Kaljus, Astri; Plamus, Tiia Baltic polymer symposium 2024 : book of abstracts 2024 / p. 65 <https://doi.org/10.5755/e01.3030-1378.2024>

**Development of CdTe absorber layer for thin-film solar cells = CdTe absorberkile arendamine õhukesekilelistele päikesepatareidele**

Spalatu, Nicolae 2017 <https://digi.lib.ttu.ee/i/?7230> [https://www.ester.ee/record=b4649791\\*est](https://www.ester.ee/record=b4649791*est)

**Development of electrospun nanostructured electrochemical double-layer capacitor electrodes = Elektrilise kaksikkihi kondensaatori elektrokedratud nanostruktuursete elektroodide arendus**

Malmberg, Siret 2021 <https://digikogu.taltech.ee/et/Item/ab0b679b-f1a4-4f69-af49-949f7698e2fc> [https://www.ester.ee/record=b5451440\\*est](https://www.ester.ee/record=b5451440*est) <https://doi.org/10.23658/taltech.39/2021>

**Development of hemp hurd particleboards from formaldehyde-free resins**

Alao, Percy Festus; Tobias, Micah Onyedikachi; Kallakas, Heikko; Poltimäe, Triinu; Kers, Jaan; Goljandin, Dmitri 11th International Conference Biosystems Engineering : May 6-8, 2020 in Tartu, Estonia : book of abstracts [Võrguteavik] 2020 / p. 99 [https://www.ester.ee/record=b5347289\\*est](https://www.ester.ee/record=b5347289*est)

**Development of hemp hurd particleboards from formaldehyde-free resins**

Alao, Percy Festus; Tobias, Micah Onyedikachi; Kallakas, Heikko; Poltimäe, Triinu; Kers, Jaan; Goljandin, Dmitri Agronomy research 2020 / p. 679–688 : ill <https://doi.org/10.15159/AR.20.127> [Journal metrics at Scopus](#) [Article at Scopus](#)

**Development of MIP sensors for antibiotics**

Ayankojo, Akinrinade George; Reut, Jekaterina; Öpik, Andres; Söritski, Vitali The 10th International Conference on Molecular Imprinting, Jerusalem, Israel, June 24-28, 2018 : [abstracts] 2018 / 1 p. : ill <http://events.eventact.com/ProgramView2/Agenda/Lecture?id=175779&code=3608113>

**Development of oxidation technology in water treatment : pulsed corona discharge plasma combined with peroxocompounds = Oksüdatsioonitehnoloogia arendamine veepuhastuses : peroksoühenditega kombineeritud impulss koroona elektrilahendus**

Nikitin, Dmitri 2024 [https://www.ester.ee/record=b5693232\\*est](https://www.ester.ee/record=b5693232*est) <https://doi.org/10.23658/taltech.38/2024> <https://digikogu.taltech.ee/et/Item/9db5662a-18c4-4b91-b18c-52b55d227f0b>

**Development of photo-induced persulfate-based processes for efficient application in water treatment = Foto-indutseeritud persulfaadi-põhiste protsesside väljatöötamine efektiivseks rakendamiseks vee puhastamisel**

Balpreet Kaur 2020 <https://digikogu.taltech.ee/et/Item/f681dc13-dc11-4ad6-b728-aa232dfd8c59>

#### Development of sb2se3 and sb2s3 solar cells by close-spaced sublimation

Krautmann, Robert; Spalatu, Nicolae; Oja Acik, Ilona GSFMT Scientific Conference 2023 : Tartu, 23-24 May, 2023 : abstracts 2023 <https://fmdk.ut.ee/programm-2023/>

#### Development of Sb2Se3 and Sb2S3 thin film solar cells by close-spaced sublimation = Sb2Se3 ja Sb2S3 õhukesekileliste päikesepatareide arendamine lähidistants-sublimatsiooni meetodil

Krautmann, Robert 2023 <https://doi.org/10.23658/taltech.41/2023> <https://digikogu.taltech.ee/et/Item/e7e64926-5d49-40ad-8b3a-e225ea034f7d> [https://www.ester.ee/record=b5573313\\*est](https://www.ester.ee/record=b5573313*est)

#### Development of semi-transparent Sb2S3 solar cells with fluorene-based compounds as hole transport materials = Poollääbipaistvate Sb2S3 päikesepatareide arendus : fluoreenipõhised ühendid aukude transportkihi materjalina

Juneja, Nimish 2024 [https://www.ester.ee/record=b5712253\\*est](https://www.ester.ee/record=b5712253*est) <https://digikogu.taltech.ee/et/Item/f10c197f-3140-40cb-97c6-64a4670d4d1b> <https://doi.org/10.23658/taltech.68/2024>

#### Development of silicon oxynitride nanocomposites with single-walled carbon nanotubes as protective coatings for solar cells = Üheseinaliste süsiniknanotorudega ränioksünitriidist nanokomposiitmaterjalide arendamine päikesepatareide kaitsekateks

Shmagina, Elizaveta 2025 [https://www.ester.ee/record=b5739646\\*est](https://www.ester.ee/record=b5739646*est) <https://digikogu.taltech.ee/et/Item/5b38d0d4-d585-496f-b18e-de06aae6a6da> <https://doi.org/10.23658/taltech.20/2025>

#### Development of spray pyrolysis-synthesised Bi2O3 thin films for photocatalytic applications

Sydorenko, Jekaterina; Krunks, Malle; Katerski, Atanas; Grzibovskis, Raitis; Vembris, Aivars; Mere, Arvo; Spalatu, Nicolae; Oja Acik, Ilona RSC advances 2024 / p. 19648-19657 <https://doi.org/10.1039/D4RA02907K> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### Development of spray-pyrolysis-synthesised TiO2 thin films for photocatalytic degradation of volatile organic compounds in air = Pihustuspürolüüsiga sünteesitud TiO2 õhukeste kilede väljatöötamine lenduvate orgaaniliste ühendite fotokatalüütiliseks lagundamiseks õhus

Sydorenko, Jekaterina 2023 <https://doi.org/10.23658/taltech.6/2023> <https://digikogu.taltech.ee/et/Item/56de388b-6916-458a-8db7-641bb9aca644> [https://www.ester.ee/record=b5542586\\*est](https://www.ester.ee/record=b5542586*est)

#### Development of synthetic receptor-based sensors for detection of neurotrophic factor proteins

Kidakova, Anna; Boroznjak, Roman; Reut, Jekaterina; Öpik, Andres; Söritski, Vitali Graduate Student Symposium on Molecular Imprinting 2019, Berlin, Germany, August 28-30, 2019 : Symposium Programme and Book of Abstracts 2019 / p. 31 <https://drive.google.com/file/d/1zR0jNBFayQ3AdKgX4YrCztpE00iSex/view>

#### Development of ZnO nanorod and NiO thin film based materials for photocatalytic applications = ZnO nanovarrastel ja NiO õhukestel kiledel baseeruvate fotokatalüütiliste materjalide arendus

Chen, Zengjun 2022 <https://doi.org/10.23658/taltech.67/2022> <https://digikogu.taltech.ee/et/Item/838942f1-9577-4109-b783-8c2b5ce8def3> [https://www.ester.ee/record=b5526162\\*est](https://www.ester.ee/record=b5526162*est)

#### Development of ZNO nanorods and NIO film based photocatalysts by solution methods for degradation of dyes in aqueous solution

Chen, Zengjun; Dedova, Tatjana; Krunks, Malle Graduate School of Functional Materials and Technology (GSFMT) Scientific Conference : abstracts 2022 / 13 p [Graduate School of Functional Materials and Technology \(GSFMT\) Scientific Conference 2022](#)

#### Digitaalne sensorplatvorm meditsiiniliseks diagnostikaks ja keskkonnaseireks

Mente et Manu 2018 / lk. 34 : ill [http://www.ester.ee/record=b1242496\\*est](http://www.ester.ee/record=b1242496*est) <http://dea.digar.ee/publication/AKmenteetmanu> [https://www.ttu.ee/public/m/mente-et-manu/MM\\_05\\_2018/mobile/index.html](https://www.ttu.ee/public/m/mente-et-manu/MM_05_2018/mobile/index.html) [https://artiklid.elnet.ee/record=b2868932\\*est](https://artiklid.elnet.ee/record=b2868932*est)

#### (Digital) Oxygen reduction reaction on waste tire derived carbon material and synthesized non-platinum group metal catalysts in alkaline solution

Laanemäe, Joel; Jäger, Rutha; Teppor, Patrick; Volobujeva, Olga; Lust, Enn ECS Meeting Abstracts 2022 / p. 39-47 : ill <https://doi.org/10.1149/10807.0039ecst> [Journal metrics at Scopus](#) [Article at Scopus](#)

#### Direct electrochemical sensing of ampicillin in aqueous media by a ruthenium oxide electrode decorated with a molecularly imprinted polymer

Nguyen, Vu Bao Chau; Reut, Jekaterina; Ayankojo, Akinrinade George; Söritski, Vitali Talanta 2025 / art. 127580 <https://doi.org/10.1016/j.talanta.2025.127580>

#### Directional conductivity in layered alumina

Hussainova, Irina; Saffarshamshirgar, Ali; Ivanov, Roman; Volobujeva, Olga; Romanov, Alexey; Gasik, Michael Current applied physics 2022 / p. 68-73 : ill <https://doi.org/10.1016/j.cap.2020.06.009> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### Directly electrospun electrodes for electrical double-layer capacitors from carbide-derived carbon

**Malmberg, Siret;** Arulepp, Mati; **Savest, Natalja;** Tarasova, Elvira; **Vassiljeva, Viktoria;** Krasnou, Illia; **Käärik, Maike;** Mikli, Valdek; **Krumme, Andres** Journal of electrostatics 2020 / art. 103396, 7 p. : ill <https://doi.org/10.1016/j.elstat.2019.103396> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Dissolution of rare earth elements from phosphate ore in hydrochloric acid**

**Hacialioglu-Erlenheim, Gizem;** Tõnsuaadu, Kaia; **Urtson, Kristjan;** Kallaste, Toivo; **Triikkel, Andres** XIV International Mineral Processing and Recycling Conference : proceedings 2021 / p. 166-171 : ill [https://imprc.tfbor.bg.ac.rs/download/IMPRC\\_2021\\_Proceedings.pdf](https://imprc.tfbor.bg.ac.rs/download/IMPRC_2021_Proceedings.pdf)

#### **Distribution of solar irradiance on inclined surfaces caused by moving clouds**

**Tomson, Teolan** Theoretical and Applied Climatology 2016 / p. 1023 - 1031 <https://doi.org/10.1007/s00704-015-1449-3> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Diverse and distinct bacterial community involved in a full-scale A/O1/H/O2 combination of bioreactors with simultaneous decarbonation and denitrogenation of coking wastewater**

Zhu, Shuang; Deng, Jinsi; Jin, Xiaobao; Wu, Haizhen; Wei, Cong; Qiu, Guanglei; **Preis, Sergei;** Wei, Chaohai Environmental science and pollution research 2023 / p. 2103-2117 <https://doi.org/10.1007/s11356-022-22103-y> [Journal metrics at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

#### **Doktorant loob Kuu peal leiduvatest materjalidest päikesepaneele**

Saar, Sandra novaator.err.ee 2024 [Doktorant loob Kuu peal leiduvatest materjalidest päikesepaneele](#)

#### **Doktorant, tööturg ja karjääriplaneerimine. Millal, kuhu, kuidas?**

**Oja Acik, Ilona** Mente et Manu 2017 / lk. 22-23 : fot [https://artiklid.elnet.ee/record=b2830868\\*est](https://artiklid.elnet.ee/record=b2830868*est)

#### **Doktorikraad materjalitehnoloogia valdkonnas aitab lahendada tekstiilijäätmete probleemi**

**Plamus, Tiia** digi.geenius.ee 2024 [Doktorikraad materjalitehnoloogia valdkonnas aitab lahendada tekstiilijäätmete probleemi](#)

#### **Doktoritöö uuris päikesepatarei töövõime ja eluea pikendamist**

Mente et Manu 2022 / lk. 42-43 : fot [https://www.ester.ee/record=b1242496\\*est](https://www.ester.ee/record=b1242496*est)

#### **Dopant-free fluorene based dimers linked with thiophene units as prospective hole transport materials for Sb2S3 solar cells**

**Juneja, Nimish;** Jegorove, Aiste; Grzibovskis, Raitis; **Katerski, Atanas;** Malinauskas, Tadas; Vembris, Aivars; Karazhanov, Smagul; **Spalatu, Nicolae;** Getautis, Vytautas; **Krunks, Malle;** **Oja Acik, Ilona** Sustainable Energy & Fuels 2024 / p. 4324-4334 <https://doi.org/10.1039/D4SE00472H> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Doping and alloying of kesterites**

Romanyuk, Yaroslav E.; Haass, Stefan G.; Giraldo, Sergio; **Kauk-Kuusik, Marit** Journal of Physics Energy 2019 / art. 044004, 22 p. : ill <https://doi.org/10.1088/2515-7655/ab23bc>

#### **Dual ELISA using SARS-CoV-2 N protein produced in E. coli and CHO cells reveals epitope masking by N-glycosylation**

**Rump, Airi;** **Risti, Robert;** Kristal, Mai-Ly; **Reut, Jekaterina;** **Sõritski, Vitali;** **Lõokene, Aivar;** **Rüütel Boudinot, Sirje** Biochemical and biophysical research communications 2021 / p. 457-460 <https://doi.org/10.1016/j.bbrc.2020.11.060> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Economic pulse electrodeposition for flexible CuInSe(2)solar cells**

**Mandati, Sreekanth;** Misra, Prashant; Boosagulla, Divya; Rao, Tata Naransinga; Sarada, Bulusu V. Materials for renewable and sustainable energy 2020 / art. 19, 6 p. : ill <https://doi.org/10.1007/s40243-020-00177-3>

#### **Ecotoxicity of nanosized magnetite to crustacean Daphnia magna and duckweed Lemna minor**

Blinova, Irina; **Kanarbik, Liina;** Irha, Natalja; Kahru, Anne Hydrobiologia 2017 / p. 141-149 : ill <https://doi.org/10.1007/s10750-015-2540-6> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Ecotoxicological evaluation of shale fuel oils, metal-based nanoparticles and glyphosate formulations =**

**Põlevkivikütteõlide, metalliliste nanoosakeste ja glüfosaadipõhiste herbitsiidide ökotoksikoloogilised uuringud**

**Kanarbik, Liina** 2017 <https://digi.lib.ttu.ee/i/27180> [https://www.ester.ee/record=b4649796\\*est](https://www.ester.ee/record=b4649796*est)

#### **EDLC durable electrodes and capacitor for high frequency applications**

**Malmberg, Siret;** Tarasova, Elvira; **Vassiljeva, Viktoria;** Krasnou, Illia; Arulepp, Mati; **Krumme, Andres** SPCD 2018 : 3rd Space Passive Components Days International Symposium, Noordwijk, Netherlands, 9-12 October 2018 2018 / 10 p. : ill <https://passive-components.eu/edlc-durable-electrodes-and-capacitor-for-high-frequency-applications/>

#### **Eessõna**

**Kuusik, Rein, keemik** 30 aastat Eesti Meestelaulu Seltsi Tallinna Meeskoori : 1989-2019 2019 / lk. 4-5 : fot [https://www.ester.ee/record=b5280542\\*est](https://www.ester.ee/record=b5280542*est)

## Eesti fosforiidi säästlik väärindamine : [RITA MAARE projekti aruanne]

2020 <https://fond.egt.ee/fond/eqf/9405>

## Eesti teadlased aitavad Kuu peal elektrit toota

tehnika.postimees.ee 2022 [Eesti teadlased aitavad...](#)

## Eesti teadlased sillutavad teed Kuul päikeseenergia tootmiseks

postimees.ee 2025 <https://teadus.postimees.ee/8196384/eesti-teadlased-sillutavad-teed-kuul-paikeseenergia-tootmiseks>

## Eesti teadlased tahavad aidata Kuul elektrit toota

Imeline Teadus 2021 / lk. 23 : fot [https://www.ester.ee/record=b2747925\\*est](https://www.ester.ee/record=b2747925*est)

## Eesti teadlaste loodud meetod aitab puhastada vett antibiootikumijääkidest [Võrguväljaanne]

Dulova, Niina novaator.err.ee 2020 / fot [teadlaste loodud meetod aitab puhastada vett antibiootikumijääkidest](#)

## Eesti teadlaste osalusel arendatud päikesepaneel saab teha odavatest ja maakooses laialt levinud materjalidest

Kauk-Kuusik, Marit toostusuudised.ee 2025 [Eesti teadlaste osalusel arendatud päikesepaneel saab teha odavatest ja maakooses laialt levinud materjalidest](#)

## Eesti tööstusdoktorant leidis kestliku teksakanga valemi

Harrik, Airika novaator.err.ee 2023 [Eesti tööstusdoktorant leidis kestliku teksakanga valemi](#) [https://www.ester.ee/record=b5568904\\*est](https://www.ester.ee/record=b5568904*est)

## Eesti uue tudengisatelliidi nimi on SUTS

Imeline Teadus 2024 / lk. 20 : fot [https://www.ester.ee/record=b2747925\\*est](https://www.ester.ee/record=b2747925*est)

## Eestil on vaja materjalitehnolooge, kes rohepöörde päriselt ellu viiksid!

Kers, Jaan delfi.ee 2024 <https://arileht.delfi.ee/artikkel/120297193/eestil-on-vaja-materjalitehnolooge-kes-rohepoorde-pariselt-ellu-viiksid>

## Effect of absorber surface modification on the optoelectronic properties of Cu<sub>2</sub>CdGeSe<sub>4</sub> solar cells

Li, Xiaofeng; Pilvet, Maris; Timmo, Kristi; Grossberg, Maarja; Danilson, Mati; Mikli, Valdek; Kauk-Kuusik, Marit Thin solid films 2020 / art. 137822, 7 p. : ill <https://doi.org/10.1016/j.tsf.2020.137822> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

## Effect of alkali ions (Na<sup>+</sup>, K<sup>+</sup>, Cs<sup>+</sup>) on reaction mechanism of CZTS nano-particles synthesis

Kumar, Suresh; Altosaar, Mare; Grossberg, Maarja; Mikli, Valdek Superlattices and microstructures 2018 / p. 54-63 : ill <https://doi.org/10.1016/j.spmi.2018.02.019>

## Effect of alkali ions (Na<sup>+</sup>, K<sup>+</sup>, Cs<sup>+</sup>) on reaction mechanism of CZTS nano-particles synthesis [Online resource]

Kumar, Suresh; Altosaar, Mare; Grossberg, Maarja; Mikli, Valdek Tartu Ülikooli ASTRA projekt PER ASPERA : Funktsionaalsed materjalid ja tehnoloogiad : [7-8 märtsil 2018, Tallinn : teesid] GSFMT Scientific Conference 2018 : Tallinn, March 7-8, 2018 : abstracts 2018 / 1 p <http://fntdk.ut.ee/teesid-2018/>

## Effect of birch false heartwood on the physical and mechanical properties of wood-plastic composites [Online resource]

Kallakas, Heikko; Martin, Mihkel; Ayansola, Gbenga; Poltimäe, Triinu; Krumme, Andres; Kers, Jaan Tartu Ülikooli ASTRA projekt PER ASPERA : Funktsionaalsed materjalid ja tehnoloogiad : [7-8 märtsil 2018, Tallinn : teesid] GSFMT Scientific Conference 2018 : Tallinn, March 7-8, 2018 : abstracts 2018 / 1 p <http://fntdk.ut.ee/teesid-2018/>

## Effect of carbon stabilizing elements on WC cemented carbides with chromium steel binder

Tarraste, Marek; Kübarsepp, Jakob; Juhani, Kristjan; Mere, Arvo; Viljus, Mart Materials science = Medžiagotyra 2019 / p. 202-206 : ill <https://doi.org/10.5755/j01.ms.25.2.19619> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

## Effect of cBN content and additives on sliding and surface fatigue wear of spark plasma sintered Al<sub>2</sub>O<sub>3</sub>-cBN composites

Kumar, Rahul, 1993-; Antonov, Maksim; Klimczyk, Piotr; Mikli, Valdek; Gomon, Dmitri Wear 2022 / art. 204250 <https://doi.org/10.1016/j.wear.2022.204250> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

## Effect of different hardwood species and lay-up schemes on the mechanical properties of plywood

Kallakas, Heikko; Rohumaa, Anti; Vahermets, Harti; Kers, Jaan Forests 2020 / art. 649, 13 p. : ill <https://doi.org/10.3390/f11060649> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

## Effect of electrode type on electrospun membrane morphology using low-concentration PVA solutions

Zelca, Zane; Krumme, Andres; Kukle, Silvija; Viirsalu, Mihkel; Vilcena, Laimdota Membranes 2022 / art. 609 <https://doi.org/10.3390/membranes12060609> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

## Effect of erodent particle impact energy on wear of cemented carbides

Antonov, Maksim; Yung, Der-Liang; Goljandin, Dmitri; Mikli, Valdek; Hussainova, Irina Wear 2017 / p. 507-515 : ill

**Effect of eutrophication on toxicity of metallic nanoparticles to *Daphnia magna* [Online resource]**

**Muna, Marge;** Heinlaan, Margit; Blinova, Irina; Kahru, Anne Tartu Ülikooli ASTRA projekt PER ASPERA : Funktsionaalsed materjalid ja tehnoloogiad : [7-8 märtsil 2018, Tallinn : teesid] GSFMT Scientific Conference 2018 : Tallinn, March 7-8, 2018 : abstracts 2018 / 1 p <http://fmtdk.ut.ee/teesid-2018/>

**Effect of fibre content, structural parameters, and laser fading on durability and aesthetic properties of multicomponent denim fabric = Kiulise koostise, struktuuri parameetrite ja laserkulutuse mõju mitmekomponentse teksakangast vastupidavusele ja esteetilisetele omadustele**

**Mandre, Nele** 2023 <https://doi.org/10.23658/taltech.30/2023> <https://digikogu.taltech.ee/et/Item/c19f3da7-7f69-4fa9-ab59-057adf1fdd33>  
[https://www.ester.ee/record=b5568904\\*est](https://www.ester.ee/record=b5568904*est)

**Effect of flotation time and collector dosage on Estonian phosphorite beneficiation**

**Tamm, Kadriann; Zadeh, Zeinab Arab; Kuusik, Rein, keemik; Kallas, Juha;** Yang, Jason; Tõnsuaadu, Kaia; Triikkel, Andres Minerals 2021 / art. 114 <https://doi.org/10.3390/min11020114> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Effect of germanium incorporation on the properties of kesterite  $\text{Cu}_2\text{ZnSn}(\text{S},\text{Se})_4$  monograins**

**Oueslati, Souhaib;** Grossberg, Maarja; **Kauk-Kuusik, Marit;** Mikli, Valdek; Ernits, Kaia; Meissner, Dieter; Krustok, Jüri Thin solid films 2019 / p. 315–320 : ill <https://doi.org/10.1016/j.tsf.2018.11.020> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Effect of green co-solvents on properties and synthesis of cellulose esters in superbase ionic liquid**

**Tarasova, Elvira; Savale, Nutan Bharat; Trifonova, Lada; Krasnou, Illia;** Reile, Indrek; **Kudrjašova, Marina; Mere, Arvo; Kaljuvee, Tiit; Mikli, Valdek;** Sedrik, Rauno; **Krumme, Andres** Cellulose 2024 / p. 4911-4927 <https://doi.org/10.1007/s10570-024-05920-x> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**The effect of hardwood veneer densification on plywood density, surface hardness, and screw withdrawal capacity**

**Kallakas, Heikko; Kallakas, Heikko; Akkurt, Tolgay; Akkurt, Tolgay;** Scharf, Alexander; Scharf, Alexander; **Mühls, Fred; Mühls, Fred; Rohumaa, Anti; Rohumaa, Anti; Kers, Jaan; Kers, Jaan** Forests 2024 / art. 1275 <https://doi.org/10.3390/f15071275> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Effect of hemp fiber surface treatment on the moisture/water resistance and reaction to fire of reinforced PLA composites**

**Alao, Percy Festus; Marrot, Laetitia; Kallakas, Heikko; Just, Alar; Poltimäe, Triinu; Kers, Jaan** Materials 2021 / art. 4332, 17 p. : ill <https://doi.org/10.3390/ma14154332> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Effect of hemp fibre length on the properties of polypropylene composites**

**Alao, Percy Festus; Kallakas, Heikko; Poltimäe, Triinu; Kers, Jaan** Agronomy research 2019 / p. 1517–1531 : ill <https://doi.org/10.15159/AR.19.146> Journal metrics at Scopus Article at Scopus

**Effect of hemp fibre length on the properties of polypropylene composites [Online resource]**

**Alao, Percy Festus; Kallakas, Heikko; Kers, Jaan** Tartu Ülikooli ASTRA projekt PER ASPERA : Funktsionaalsed materjalid ja tehnoloogiad : [4.-5. veebruar, 2019, Tartu : teesid] 2019 / 1 p.: ill <http://fmtdk.ut.ee/teesid-2019/>

**The effect of ionic liquids on the mechanical properties of electrospun polyacrylonitrile membranes**

**Plamus, Tiia; Savest, Natalja; Viirsalu, Mihkel;** Harz, Patrick; **Tarasova, Elvira; Krasnou, Illia; Vassiljeva, Viktoria; Kallavus, Urve; Krumme, Andres** Polymer testing 2018 / p. 335-343 : ill <https://doi.org/10.1016/j.polymertesting.2018.09.003> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Effect of laser heat treatment on Al<sub>x</sub>Ti<sub>1-x</sub>N-based PVD coatings, deposited on carbon and tool steel substrates**

**Surženkov, Andrei; Viljus, Mart; Antonov, Maksim; Kübarsepp, Jakob; Juhani, Kristjan; Kulu, Priit; Vagiström, Heinar;** Jankauskas, Vytenis; Leišys, Rimtautas; Bendikiene, Regita; Adoberg, Eron; Peetsalu, Priidu; **Mere, Arvo; Gregor, Andre** Surface and coatings technology 2022 / art. 128771 <https://doi.org/10.1016/j.surfcoat.2022.128771> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Effect of lignin on veneer densification and set-recovery**

**Kilumets, Catherine; Kallakas, Heikko;** Ralph, Sally; Zhu, J. Y.; Hunt, Christopher Glaab; **Rohumaa, Anti; Kers, Jaan** Construction and building materials 2024 / art. 138795 <https://doi.org/10.1016/j.conbuildmat.2024.138795>

**Effect of Local Remelting and Recycled WC-Co Composite Reinforcement Size on Abrasive and Erosive Wear of Manual Arc Welded Hardfacings**

**Katinas, Egidijus; Antonov, Maksim;** Jankauskas, Vytenis; **Goljandin, Dmitri** Coatings 2023 / art. 734 <https://doi.org/10.3390/coatings13040734> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Effect of ozone on photocatalytic oxidation of acetone and toluene vapours in continuous multi-section reactor**

**Kask, Maarja; Bolobajev, Juri; Kritševskaja, Marina** 6th European Conference on Environmental Applications of Advanced Oxidation Processes, Portorož - Portorož, Slovenia, 26-30 June 2019 : book of abstracts 2019 / p. 657

**Effect of ozone on photocatalytic oxidation of acetone vapour [Online resource]**

**Kask, Maarja; Bolobajev, Juri; Kritševskaja, Marina** Tartu Ülikooli ASTRA projekt PER ASPERA : Funktsionaalsed materjalid ja tehnoloogiad : [4.-5. veebr. 2019, Tartu : teesid] 2019 / 1 p <http://fmdk.ut.ee/teesid-2019/>

**The effect of prestressing and temperature on tensile strength of basalt fiber-reinforced plywood**

Lõhmus, Rünno; **Kallakas, Heikko; Tuhkanen, Eero**; Gulik, Volodymyr; Kiisk, Madis; Saal, Kristjan; **Kalamees, Targo** Materials 2021 / art. 4701, 9 p. : ill <https://doi.org/10.3390/ma14164701> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Effect of process parameters on strength and carbonation of engineered building materials by calcium rich alkali wastes**

**Usta, Mustafa Cem; Yörük, Can Rüstü; Gregor, Andre; Hain, Tiina; Uibu, Mai; Triikkel, Andres** GSFMT Scientific Conference 2021 : Tartu, June 14-15, 2021 : abstracts 2021 / P 40 [https://fmdk.ut.ee/wp-content/uploads/2021/06/GSFMT\\_abstractbook\\_2021.pdf](https://fmdk.ut.ee/wp-content/uploads/2021/06/GSFMT_abstractbook_2021.pdf)

**Effect of protein surface hydrophobicity and surface amines on soy adhesive strength**

**Kallakas, Heikko**; Plaza, Nayomi; Crooks, Casey; Turner, Derek; Gargulak, Mathew; Arvanitis, Matthew A.; Frihart, Charles R.; Hunt, Christopher G. Polymers 2024 / art. 202 <https://doi.org/10.3390/polym16020202> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Effect of pulsed deuterium plasma irradiation on dual-phase tungsten high-entropy alloys**

Tökke, Siim; Laas, Tõnu; Priimets, Jaanis; **Tarraste, Marek; Mikli, Valdek; Antonov, Maksim** Fusion engineering and design 2022 / 11 p. : ill <https://doi.org/10.1016/j.fusengdes.2022.113260> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**The effect of recycled fibre type on the properties of nonwoven materials made from post-consumer textile waste**

**Worth, Katre; Rahman, Md Toufique; Plamus, Tiia** Baltic Polymer Symposium 2024 : 22nd International Scientific Conference, September 17-19, 2024, Birštonas, Lithuania : Book of abstracts 2024 / p. 67 <https://doi.org/10.5755/e01.3030-1378.2024>

**The effect of surface properties on bond strength of birch, black alder, grey alder and aspen veneers**

**Rohumaa, Anti; Kallakas, Heikko; Mäetalu, Marja; Savest, Natalja; Kers, Jaan** International Journal of Adhesion and Adhesives 2021 / art. 102945 <https://doi.org/10.1016/j.ijadhadh.2021.102945> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Effect of Zr doping on the structural and electrical properties of spray deposited TiO<sub>2</sub> thin films**

**Oluwabi, Abayomi Titilope**; Juma, Albert Owino; **Oja Acik, Ilona; Mere, Arvo; Krunks, Malle** Proceedings of the Estonian Academy of Sciences 2018 / p. 147–157 : ill <https://doi.org/10.3176/proc.2018.2.05> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**The effect of temperature and sliding speed on friction and wear of Si<sub>3</sub>N<sub>4</sub>, Al<sub>2</sub>O<sub>3</sub>, and ZrO<sub>2</sub> balls tested against AlCrN PVD coating**

**Antonov, Maksim; Afshari, Hossein; Baroninš, Janis; Adoberg, Eron; Raadik, Taavi; Hussainova, Irina** Tribology international 2018 / p. 500-514 : ill <https://doi.org/10.1016/j.triboint.2017.05.035> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Effect of the substrate surface on properties of RF sputtered magnetronantimony selenide (Sb<sub>2</sub>Se<sub>3</sub>) for thin-films**

**Uslu, Mehmet Ender; Grossberg, Maarja; Volobujeva, Olga** GSFMT Scientific Conference 2020 : Tallinn, February 4-5, 2020 : abstracts 2020 / p. 86 <http://fmdk.ut.ee/wp-content/uploads/2020/01/GSFMT2020.pdf>

**Effect of the thickness on the electrical and optical properties of ZN(O,Se) layers prepared by PLD**

**Abdalla, Akram; Bereznev, Sergei** GSFMT Scientific Conference 2020 : Tallinn, February 4-5, 2020 : abstracts 2020 / p. 10 <http://fmdk.ut.ee/wp-content/uploads/2020/01/GSFMT2020.pdf>

**Effect of the titanium isopropoxide : acetylacetone molar ratio on the photocatalytic activity of TiO<sub>2</sub> thin films**

**Spiridonova, Jekaterina; Katerski, Atanas; Danilson, Mati; Kritševskaja, Marina; Krunks, Malle; Oja Acik, Ilona** Molecules 2019 / art. 4326, 14 p. : ill <https://doi.org/10.3390/molecules24234326> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Effect of the titanium isopropoxide : acetylacetone molar ratio on the photocatalytic activity of TiO<sub>2</sub> thin films : [conference paper]**

**Spiridonova, Jekaterina; Katerski, Atanas; Danilson, Mati; Kritševskaja, Marina; Krunks, Malle; Oja Acik, Ilona** GSFMT Scientific Conference 2020 : Tallinn, February 4-5, 2020 : abstracts 2020 / p. 78 <http://fmdk.ut.ee/wp-content/uploads/2020/01/GSFMT2020.pdf>

**The effect of tin doping on the band structure and optical properties of polycrystalline antimony selenide**

**Uslu, Mehmet Ender; Danilson, Mati; Timmo, Kristi; Grossberg-Kuusk, Maarja** Physica B : condensed matter 2024 / art. 415744 <https://doi.org/10.1016/j.physb.2024.415744> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Effect of ultrasonic treatment on the defect structure of the Si-SiO<sub>2</sub> system**

**Kropman, Daniel;** Seeman, Viktor; Dolgov, Sergei; Medvids, Arturs Physica Status Solidi (C) Current Topics in Solid State Physics 2016 / p. 793 - 797 <https://doi.org/10.1002/pssc.201600052> [Journal metrics at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**Effective electrical conductivity of carbon nanotube–epoxy nanocomposites**

Kulakov, Vladimir; Aniskevich, Andrey; Ivanov, Sergey; **Poltimäe, Triinu;** Starkova, Olesja Journal of composite materials 2017 / p. 2979-2988 : ill <https://doi.org/10.1177/0021998316678304> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Effective Wood Veneer Densification by Optimizing Key Parameters : Temperature, Equilibrium Moisture Content, and Pressure**

**Akkurt, Tolgay; Rohumaa, Anti; Kers, Jaan** Forests 2025 / 14 p. : ill <https://doi.org/10.3390/f16060969>

**Effects of persulfate and hydrogen peroxide on oxidation of oxalate by pulsed corona discharge**

**Tikker, Priit; Dulova, Niina;** Kornev, Iakov; **Preis, Sergei** Chemical engineering journal 2021 / art. 128586 <https://doi.org/10.1016/j.cej.2021.128586> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Effects of persulfate and hydrogen peroxide on oxidation of oxalate by pulsed corona discharge treatment**

**Tikker, Priit; Dulova, Niina;** Kornev, Iakov; **Preis, Sergei** GSFMT Scientific Conference 2021 : Tartu, June 14-15, 2021 : abstracts 2021 / O 11 [http://fmtk.ut.ee/wp-content/uploads/2021/06/GSFMT\\_abstractbook\\_2021.pdf](http://fmtk.ut.ee/wp-content/uploads/2021/06/GSFMT_abstractbook_2021.pdf)

**Efficiency enhancement of Cu<sub>2</sub>ZnSnS<sub>4</sub> monograin layer solar cells via absorber post-growth treatments**

**Timmo, Kristi; Dolcet Sadurni, Marc; Pilvet, Maris; Muska, Katri; Altosaar, Mare; Mikli, Valdek;** Atlan, Fabien; Guc, Maxim; Izquierdo-Roca, Victor; **Grossberg-Kuusk, Maarja; Kauk-Kuusik, Marit** Solar energy materials and solar cells 2023 / art. 112090 <https://doi.org/10.1016/j.solmat.2022.112090> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Efficient barrier properties of mechanically enhanced agro-extracted cellulosic biocomposites**

**Qasim, Umair;** Fatima, R.; Usman, M. Materials today chemistry 2020 / art. 100378, 8 p. : ill <https://doi.org/10.1016/j.mtchem.2020.100378>

**Efficient defect-driven cation exchange beyond the nanoscale semiconductors toward antibacterial functionalization**

**Polivtseva, Svetlana; Volobujeva, Olga; Kuznietsov, Ivan; Kaupmees, Reelika; Danilson, Mati; Krustok, Jüri;** Molaiyan, Palanivel; Hu, Tao; Lassi, Ulla; **Klopov, Mihhail;** van Gog, Heleen; van Huis, Marijn A.; Kaur, Harleen; Ivask, Angela; Rosenberg, Merilin; Gathergood, Nicholas; Ni, Chaoying; **Grossberg-Kuusk, Maarja** ACS applied materials & interfaces 2024 / p. 62871-62882 <https://doi.org/10.1021/acsami.4c11425>

**Efficient photoelectrocatalytic degradation of amoxicillin using nano-TiO<sub>2</sub> photoanode thin films : a comparative study with photocatalytic and electrocatalytic methods**

Alaydaroos, Alia Husain; **Sydorenko, Jekaterina;** Palanisamy, Selvakumar; Chiesa, Matteo; Al Hajri, Ebrahim Chemosphere 2023 / art. 139629 <https://doi.org/10.1016/j.chemosphere.2023.139629> [Journal metrics at Scopus](#) [Article at Scopus](#)

**Ei saa me ilma Päikeseta**

**Grossberg-Kuusk, Maarja** Sirp 2025 / lk. 10-11 : fot <https://sirp.ee/s1-artiklid/c21-teadus/ei-saa-me-ilma-paikeseta/>

**Electric properties of anorthite ceramics prepared from illitic clay and oil shale ash**

Csaki, Štefan; Štubna, Igor; **Kaljuvee, Tiit;** Dobron, Patrik; Lukač, František; Trnik, Anton Journal of materials research and technology 2022 / p. 4164-4173 <https://doi.org/10.1016/j.jmrt.2022.11.030> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Electric sail test cube–lunar nanospacecraft, ESTCube-LuNa : solar wind propulsion demonstration mission concept**

Slavinskis, Andris; Palos, Mario F.; Dalbins, Janis; Janhunen, Pekka; Tajmar, Martin; Ivchenko, Nickolay; Rohtsalu, Agnes; Micciani, Aldo; Orsini, Nicola; Moor, Karl Mattias; **Kristmann, Katriin** Aerospace 2024 / art. 230 <https://doi.org/10.3390/aerospace11030230>

**Electrocatalysis of oxygen reduction by iron-containing nitrogen-doped carbon aerogels in alkaline solution**

Sarapuu, Ave; **Kreek, Kristiina;** Kisand, Kaarel; Kook, Mati; **Uibu, Mai; Koel, Mihkel;** Tammeveski, Kaido Electrochimica acta 2017 / p. 81-88 : ill <https://doi.org/10.1016/j.electacta.2017.01.157> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Electrocatalysts for oxygen reduction reaction based on electrospun polyacrylonitrile, styrene–acrylonitrile copolymer and carbon nanotube composite fibres**

Mooste, Marek; Kibena-Pöldsepp, Elo; **Vassiljeva, Viktoria; Uibu, Mai; Krumme, Andres** Journal of materials science 2019 / p. 11618–11634 : ill <https://doi.org/10.1007/s10853-019-03725-z> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Electrochemical and photoelectrochemical characterization of SnS photoabsorber films**

**Kois, Julia; Bereznev, Sergei; Maricheva, Jelena; Naidu, Revathi** Materials science in semiconductor processing 2017 / p. 76-81 : ill <https://doi.org/10.1016/j.mssp.2016.10.036> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Electrochemical behaviour of TiCN and TiAlN gradient coatings prepared by lateral rotating cathode arc PVD technology**

**Baroninš, Janis; Podgurski, Vitali; Antonov, Maksim; Bereznev, Sergei; Hussainova, Irina** Engineering materials and tribology XXV 2017 / p. 414-418 <https://doi.org/10.4028/www.scientific.net/KEM.721.414> [Journal metrics at Scopus](#) [Article at Scopus](#)

### **Electrochemical detection of brain-derived neurotrophic factor by molecularly-imprinted polymer on screen-printed electrode**

**Kidakova, Anna; Boroznjak, Roman; Reut, Jekaterina; Öpik, Andres; Sõritski, Vitali** The 10th International Conference on Molecular Imprinting, Jerusalem, Israel, June 24-28, 2018 : [abstracts] 2018 / 1 p. : ill <https://events.eventact.com/programview2/Agenda/Lecture/175959?code=3635110>

### **Electrochemical evaluation of directly electrospun carbide-derived carbon-based electrodes in different nonaqueous electrolytes for energy storage applications**

**Malmberg, Siret; Arulepp, Mati; Tarasova, Elvira; Vassiljeva, Viktoria; Krasnou, Illia; Krumme, Andres** C – journal of carbon research 2020 / art. 59, 16 p. : ill <https://doi.org/10.3390/c6040059>

### **Electrochemical merits of selective laser melted Mo/MoS<sub>2</sub> composite in aqueous solutions**

**Alinejadian, Navid; Kazemi, Sayed Habib; Kollo, Lauri; Grossberg-Kuusk, Maarja; Odneval, Inger Charlotta; Prashanth, Konda Gokuldoss** Graduate School of Functional Materials and Technology (GSFMT) Scientific Conference : abstracts 2022 / 7 l. [Graduate School of Functional Materials and Technology \(GSFMT\) Scientific Conference 2022](#)

### **Electrochemical Reduction of Oxygen on Platinum-Modified Carbon Materials = Elektrokeemiline hapniku redutseerumine plaatinaga modifitseeritud süsinikmaterjalidel**

**Najafli, Erkin** 2025 <https://digikogu.taltech.ee/et/Item/2da3885d-1ab1-4847-8647-ab7629641de8> [https://www.ester.ee/record=b5746298\\*est](https://www.ester.ee/record=b5746298*est) <https://doi.org/10.23658/taltech.33/2025>

### **Electrochemical sensing of clinically relevant proteins by molecularly imprinted polymer-modified electrodes**

**Sõritski, Vitali** 11th international workshop on surface modification for chemical and biochemical sensing : program and the book of abstracts 2023 / p. 120 [https://www.smcbs.pl/ftp/book\\_of\\_abstracts/Book\\_of\\_Abstracts\\_SMCBS\\_2023.pdf](https://www.smcbs.pl/ftp/book_of_abstracts/Book_of_Abstracts_SMCBS_2023.pdf)

### **Electrochemical sensor based on molecularly imprinted polymer for rapid quantitative detection of brain-derived neurotrophic factor**

**Ayankojo, Akinrinade George; Boroznjak, Roman; Reut, Jekaterina; Tuvikene, Jürgen; Timmusk, Tõnis; Sõritski, Vitali** Sensors and Actuators B: Chemical 2023 / art. 134656 <https://doi.org/10.1016/j.snb.2023.134656> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Electrochemical sensor based on molecularly imprinted polymers for label-free detection of neurotrophic factor protein [Online resource]**

**Kidakova, Anna; Sõritski, Vitali; Reut, Jekaterina; Öpik, Andres** Tartu Ülikooli ASTRA projekt PER ASPERA : Funktsionaalsed materjalid ja tehnoloogiad : [4.-5. veebr. 2019, Tartu : teesid] 2019 / 1 p <http://fmtdk.ut.ee/teesid-2019/>

### **Electrochemically synthesized MIP sensors : applications in healthcare diagnostics**

**Ayankojo, Akinrinade George; Reut, Jekaterina; Sõritski, Vitali** Biosensors 2024 / art. 71 <https://doi.org/10.3390/bios14020071> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Electrochemically synthesized MIPs for sensor applications in healthcare diagnostics**

**Ayankojo, Akinrinade George; Reut, Jekaterina; Sõritski, Vitali** Molecularly imprinted polymers : Computational studies to advanced applications 2025 / p. 167-197 [https://doi.org/10.1007/978-3-031-67368-9\\_6](https://doi.org/10.1007/978-3-031-67368-9_6)

### **Electroconductive fibrous mat prepared by electrospinning of polyacrylamide-g-polyaniline copolymers as electrode material for supercapacitors**

**Smirnov, Michael; Tarasova, Elvira; Mikli, Valdek; Vassiljeva, Viktoria; Krumme, Andres** Journal of materials science 2018 / p. 4859–4873 : ill <https://doi.org/10.1007/s10853-018-03186-w> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Electrodeposited chalcopyrite CuInGaSe<sub>2</sub> absorbers for solar energy harvesting**

**Mandati, Sreekanth; Sarada, Bulusu V.** Materials science for energy technologies 2020 / p. 440-445 : ill <https://doi.org/10.1016/j.mset.2020.03.001>

### **Electrodeposited molybdenum oxide coatings for thin film chalcopyrite solar cells**

**Ganchev, Maxim; Dimitrov, Dimiter; Stankova, Stanka; Katerski, Atanas; Gadjov, Iliya; Volobujeva, Olga; Mere, Arvo; Bereznev, Sergei; Krunks, Malle** 10th Jubilee Conference of the Balkan Physical Union 2019 / art. 140002 <https://doi.org/10.1063/1.5091317> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

#### **Electrodeposited nanostructured CdSe/CdS matrix for hybrid solar cells [Online resource]**

**Maricheva, Jelena; Bereznev, Sergei; Maticiu, Natalia; Volobujeva, Olga; Kois, Julia** Tartu Ülikooli ASTRA projekt PER ASPERA : Funktsionaalsed materjalid ja tehnoloogiad : [7-8 märts 2017, Tartu : teesid] 2017 / [1] p. : ill <http://fntdk.ut.ee/teesid/>

#### **Electrodeposited ZnO morphology transformations under the influence of SeO<sub>2</sub> additive: Rods, disks, nanosheets network**

**Gromōko, Inga; Dedova, Tatjana; Polivtseva, Svetlana; Kois, Julia; Puust, Laurits; Sildos, Ilmo; Mere, Arvo; Krunks, Malle** Thin solid films 2018 / p. 10-15 : ill <https://doi.org/10.1016/j.tsf.2017.12.004> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Electrodeposition of cadmium chalcogenide films for hybrid solar cells = Kaadmiumkalkogeniidkilede elektrokeemiline sadestamine kasutamiseks hübriid-päikesepatareides**

**Maricheva, Jelena** 2017 [http://www.ester.ee/record=b4747305\\*est](http://www.ester.ee/record=b4747305*est) <https://digi.lib.ttu.ee/i/?9117>

#### **Electrolytic phenomena in sodium chloride solutions treated in gas-phase pulsed corona discharge reactor**

**Kuntus, Liina; Preis, Sergei; Kornev, Iakov** 6th European Conference on Environmental Applications of Advanced Oxidation Processes, Portorož - Portorose, Slovenia, 26-30 June 2019 : book of abstracts 2019 / p. 659

#### **Electroreduction of oxygen on carbide-derived carbon supported Pd catalysts**

**Lüsi, Madis; Erikson, Heiki; Sarapuu, Ave; Merisalu, Mado; Rähn, Mihkel; Treshchalov, Alexey; Paiste, Päärn; Käär, Maik; Leis, Jaan; Sammelselg, Väino; Kaljuvee, Tiit; Tammeveski, Kaido** GSFMT Scientific Conference 2020 : Tallinn, February 4-5, 2020 : abstracts 2020 / p. 57 : ill <https://fntdk.ut.ee/wp-content/uploads/2020/01/GSFMT2020.pdf> <https://doi.org/10.1002/celc.201902136> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Electrospinning and characterization of continuous piezoelectric nanofibrous yarns**

**Viirsalu, Mihkel** NART 2019 : Nanofibers, Applications and Related Technologies : September 18-September 20, 2019, Liberec, Czech Republic : conference proceedings 2019 / p. 28

#### **Electrospinning of a polymer membrane reinforced with carbon nanotubes = Süsinik nanotorudega tugevdatud polümeerse membraani elektroketrus**

**Vassiljeva, Viktoria** 2017 <https://digi.lib.ttu.ee/i/?9129> [https://www.ester.ee/record=b4750923\\*est](https://www.ester.ee/record=b4750923*est)

#### **Electrospinning of chitosan biopolymer and polyethylene oxide blends**

**Varnaite-Žuravliova, Sandra; Savest, Natalja; Baltušnikaitė-Guzaitienė, Julija; Abraitienė, Aušra; Krumme, Andres** Autex research journal 2020 / p. 426-440 : ill <https://doi.org/10.2478/aut-2019-0031> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Electrospinning of nanofibrous composites with cellulose acetate, ionic liquids and graphene oxide = Tselluloosatsetaadi, ioonsete vedelike ja grafeenoksiidi nanokiuliste komposiitide elektroketrus**

**Javed, Kashif** 2019 <https://digi.lib.ttu.ee/i/?12424>

#### **Electrospinning polyvinyl alcohol reinforced with chitin: The effect of the degree of acetylation**

**Krumme, Andres; Mendez, James D.** Polymers 2024 / art. 1955 <https://doi.org/10.3390/polym16141955> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Electrospun carbon nanofibre-based catalysts prepared with Co and Fe phthalocyanine for oxygen reduction in acidic medium**

**Muuli, Kaur; Mooste, Marek; Akula, Srinu; Gudkova, Viktoria; Otsus, Markus; Kikas, Arvo; Aruväli, Jaan; Treshchalov, Alexey; Kisand, Vambola; Krumme, Andres** ChemElectroChem 2023 / art. e202300131, 12 p. : ill <https://doi.org/10.1002/celc.202300131> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Electrospun conductive mats from PANi-ionic liquid blends**

**Savest, Natalja; Plamus, Tiia; Kütt, Kertu; Kallavus, Urve; Viirsalu, Mihkel; Tarasova, Elvira; Vassiljeva, Viktoria; Krasnou, Illia; Krumme, Andres** Journal of electrostatics 2018 / p. 40-44 <https://doi.org/10.1016/j.elstat.2018.09.007> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Electrospun conductive membranes from Pani-Ionic liquid blends [Online resource]**

**Plamus, Tiia; Savest, Natalja; Kallavus, Urve; Krumme, Andres** Tartu Ülikooli ASTRA projekt PER ASPERA : Funktsionaalsed materjalid ja tehnoloogiad : [7.-8. märtsil 2018, Tallinn : teesid] GSFMT Scientific Conference 2018 : Tallinn, March 7-8, 2018 : abstracts 2018 / 1 p <http://fntdk.ut.ee/teesid-2018/>

#### **Electrospun fibrous materials with propolis extracts for edible food packaging**

**Zelca, Zane; Merijs-Meri, Remo; Krumme, Andres; Bernava, Aina** Molecules 2023 / art. 5497 <https://doi.org/10.3390/molecules28145497> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Electrospun materials in triboelectric series**

**Savest, Natalja; Krasnou, Illia; Krumme, Andres;** Dobryden, I.; Hakansson, K.; Edberg, J. Baltic Polymer Symposium, BPS2023 : programme and abstracts 2023 / p. 72 [Baltic Polymer Symposium, BPS2023 : programme and abstracts](#)

### **Electrospun nanofibrous materials for energy storage and harvesting**

**Krasnou, Illia; Plamus, Tiia; Vassiljeva, Viktoria; Malmberg, Siret; Tarasova, Elvira; Krumme, Andres** Baltic Polymer Symposium 2019 : Vilnius, Lithuania, 18-20 September 2019 : programme and proceedings 2019 / p. 27 : ill [Molecularly imprinted polymers](#)

### **Electrospun polyacrylonitrile-derived Co and Fe containing nanofibre catalysts for oxygen reduction reaction at the alkaline membrane fuel cell cathode**

Mooste, Marek; Kibena-Põldsepp, Elo; **Vassiljeva, Viktoria;** Kikas, Arvo; Käärik, Maike; Kozlova, Jekaterina; Kisand, Vambola; Külaviir, Marian; Cavaliere, S.; Leis, Jaan; **Krumme, Andres;** Sammelselg, Väino; Holdcroft, Steven; Tammeveski, Kaido ChemCatChem 2020 / p. 4568–4581 : ill <https://doi.org/10.1002/cctc.202000658> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Elektrokedratud kiud**

**Krumme, Andres** Horisont 2021 / lk. 14-15 : fot [https://www.ester.ee/record=b1072243\\*est](https://www.ester.ee/record=b1072243*est)

### **Elemental composition and structural characteristics of as-received TriTanium™ orthodontic archwire**

Ilievskia, I.; Petrov, V.; Mihailov, V.; Karatodorov, S.; Andreeva, L.; Zaleski, A.; **Mikli, Valdek;** Gueorgieva, M.; Petrova, V. 20th International Summer School on Vacuum, Electron and Ion Technologies (VEIT 2017), 25-29 September 2017, Sozopol, Bulgaria 2018 / art. 012036, 5 p. : ill <https://doi.org/10.1088/1742-6596/992/1/012036> [Journal metrics Conference proceeding at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **Elemental composition and structural characteristics of Bio-active™ orthodontic archwire**

Stoyanova-Ivanova, Angelina K.; Mihailov, V.; Georgiev, Velizar; Georgieva, Mirela; Petrov, Valeri G.; Andreeva, Laura A.; Petrova, N.L.; **Mikli, Valdek** 23rd International Summer School on Vacuum, Electron and Ion Technologies 2023 : 18/09/2023-22/09/2023, Sozopol, Bulgaria 2024 / 5 p., art. 012029 <https://doi.org/10.1088/1742-6596/2710/1/012029> [Article at Scopus](#) [Conference proceedings at Scopus](#)

### **Elements distribution between solid and liquid phases in hydrochloric acid treatment of phosphate ore**

**Hacialioglu-Erlenheim, Gizem; Tönsuaadu, Kaia; Urtson, Kristjan; Kallaste, Toivo; Triikkel, Andres** GSFMT Scientific Conference 2021 : Tartu, June 14-15, 2021 : abstracts 2021 / P 54 [https://fmdk.ut.ee/wp-content/uploads/2021/06/GSFMT\\_abstractbook\\_2021.pdf](https://fmdk.ut.ee/wp-content/uploads/2021/06/GSFMT_abstractbook_2021.pdf)

### **Elule lähendamise programm viis otse elu keskele**

**Kuusik, Rein, keemik** Mente et Manu 2018 / lk. 26 : fot [http://www.ester.ee/record=b1242496\\*est](http://www.ester.ee/record=b1242496*est) <http://dea.digar.ee/publication/AKmenteetmanu> [https://artiklid.elnet.ee/record=b2865217\\*est](https://artiklid.elnet.ee/record=b2865217*est)

### **EMI-transparent SB2S3 solar cells with fluorene-based enamine as hole transport material**

**Juneja, Nimish; Mandati, Sreekanth;** Daskeviciute-Geguziene, Sarune; Vembris, Aivars; Getautis, Vytautas; **Krunks, Malle; Oja Acik, Ilona** Graduate School of Functional Materials and Technology (GSFMT) Scientific Conference : abstracts 2022 / 21 l. [Graduate School of Functional Materials and Technology \(GSFMT\) Scientific Conference 2022](#)

### **Employment of dopant-free fluorene-based enamines as innovative hole transport materials to boost the transparency and performance of Sb2S3 based solar cells**

**Juneja, Nimish;** Daskeviciute-Geguziene, Sarune; **Spalatu, Nicolae; Mandati, Sreekanth; Katerski, Atanas;** Grzibovskis, Raitis; Vembris, Aivars; Karazhanov, Smagul; Getautis, Vytautas; **Krunks, Malle; Oja Acik, Ilona** Materials science in semiconductor processing 2024 / art. 107934 <https://doi.org/10.1016/j.mssp.2023.107934>

### **Energiaefektiivne õhupuusti hoiab toa sooja ja õhu kvaliteetse**

**Preis, Sergei** Mente et Manu 2021 / lk. 47 : fot [Mente et Manu 1/2021](#) [https://www.ester.ee/record=b1242496\\*est](https://www.ester.ee/record=b1242496*est)

### **Energiat tootev teekatend nüüd ka Eestis**

**Jalakas, Tanel; Chub, Andrii; Vinnikov, Dmitri; Spalatu, Nicolae;** Gudkova, Viktoria; **Krunks, Malle; Mere, Arvo; Lahi, Allan;** Lindvest, Andre Elektriala 2023 / lk. 14-16 : portr., fot [https://www.ester.ee/record=b1240496\\*est](https://www.ester.ee/record=b1240496*est)

### **Energy levels determination of Zn(O,Se) thin films**

**Abdalla, Akram; Danilson, Mati; Mikli, Valdek; Bereznev, Sergei** Materials science in semiconductor processing 2023 / art. 107137 <https://doi.org/10.1016/j.mssp.2022.107137> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Enhanced efficiency of hybrid amorphous silicon solar cells based on single-walled carbon nanotubes and polymer composite thin film**

Rajanna, Pramod M.; Gilshteyn, Evgenia P.; Yagafarov, Timur; Alekseeva, Alena A.; Anisimov, Anton S.; Neumüller, Alex; Sergeev, Oleg; **Bereznev, Sergei; Maricheva, Jelena;** Nasibulin, Albert Nanotechnology 2018 / 10 p. : ill <https://doi.org/10.1088/1361-6528/aaa647> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Enhanced grain orientation in Sb<sub>2</sub>Se<sub>3</sub> thin films deposited on Mo/BSG substrates via RF-sputtering and selenization**  
Uslu, Mehmet Ender; Muska, Katri; Pilvet, Maris; Bereznev, Sergei; Mikli, Valdek; Kauk-Kuusik, Marit; Grossberg-Kuusk, Maarja Materials science in semiconductor processing 2024 / art. 108835 <https://doi.org/10.1016/j.mssp.2024.108835>

**Enhanced photocatalytic activity of chemically deposited ZnO nanowires using doping and annealing strategies for water remediation**

Gaffuri, Pierre; Dedova, Tatjana; Appert, Estelle; Danilson, Mati; Oja Acik, Ilona Applied surface science 2022 / art. 152323 <https://doi.org/10.1016/j.apsusc.2021.152323> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Enhanced photocatalytic activity of ZnO nanorods by surface treatment with HAuCl<sub>4</sub> : synergic effects through an electron scavenging, plasmon resonance and surface hydroxylation**

Dedova, Tatjana; Oja Acik, Ilona; Chen, Zengjun; Katerski, Atanas; Balmassov, Kirill; Gromōko, Inga; Nagyne-Kovacs, T.; Szilagyi, I.M.; Krunks, Malle Materials chemistry and physics 2020 / art. 122767 <https://doi.org/10.1016/j.matchemphys.2020.122767> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Enhanced sustainability of aerated building blocks: Utilization of accelerated carbonation and oil shale ash in cement composites**

Thomas, Adheena; Yörük, Can Rüstü; Pantšenko, Nata-Ly; Hain, Tiina; Uibu, Mai; Triikkel, Andres Book of abstracts of 2nd Central and Eastern European Conference on Physical Chemistry & Material Science (CEEPCMS2) 2024 / p. 35-36 <https://doi.org/10.5755/e01.9786090218693>

**Enhanced visible and ultraviolet light-induced gas-phase photocatalytic activity of TiO<sub>2</sub> thin films modified by increased amount of acetylacetone in precursor solution for spray pyrolysis**

Spiridonova, Jekaterina; Mere, Arvo; Krunks, Malle; Rosenberg, Merilin; Kahru, Anne; Danilson, Mati; Kritševskaja, Marina; Oja Acik, Ilona Catalysts 2020 / 21 p. : ill <https://doi.org/10.3390/catal10091011> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Enhancing binding properties of imprinted polymers for the detection of small molecules**

Ayankojo, Akinrinade George; Reut, Jekaterina; Öpik, Andres; Tretjakov, Aleksei; Sõritski, Vitali Proceedings of the Estonian Academy of Sciences 2018 / p. 138–146 : ill <https://doi.org/10.3176/proc.2018.2.04> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Enhancing NIR emission in ZnAl<sub>2</sub>O<sub>4</sub>:Nd,Ce nanofibers by co-doping with Ce and Nd: a promising biomarker material with low cytotoxicity**

Rojas Hernandez, Rocio Estefania; Rubio-Marcos, Fernando; Gorni, Giulio; Marini, Carlo; Danilson, Mati; Pascual, Laura; Ichikawa, Rodrigo Uchida; Hussainova, Irina; Fernandez, Jose Francisco Journal of materials chemistry C 2021 / p. 657-670 : ill <https://doi.org/10.1039/D0TC04752J> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Enhancing the bending strength, load-carrying capacity and material efficiency of aspen and black alder plywood through thermo-mechanical densification of face veneers**

Akkurt, Tolgay; Rohumaa, Anti; Kallakas, Heikko; Scharf, Alexander; Kers, Jaan Construction and building materials 2024 / art. 138555 <https://doi.org/10.1016/j.conbuildmat.2024.138555>

**Enne netist tellitud riiete kandmist tasub uurida nende värvi ja lõhna**

novaator.err.ee 2025 <https://novaator.err.ee/1609722717/enne-netist-tellitud-riiete-kandmist-tasub-uurida-nende-varvi-ja-lohna>

**Environmental effects of soil contamination by shale fuel oils**

Kanarbik, Liina; Blinova, Irina; Sihtmäe, Mariliis; Künnis-Beres, Kai; Kahru, Anne Environmental science and pollution research 2014 / p. 11320-11330 : ill <https://doi.org/10.1007/s11356-014-3043-0> [Journal metrics at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**Environmental impact of alternative red mud utilization for metal extraction**

Vitvarova, Monika; Novacek, David; Barreneche, Camila; Svobodova, Adela; Nazir, Shareq; Souza, Pedro; Koci, Vladimir; Karaca, Arif; Preis, Sergei SETAC Europe 34th Annual Meeting : "Science-Based Solutions in Times of Crisis : Integrating Science and Policy for Environmental Challenges" : book of abstracts 2024 / abs.: 5.04.P-Tu504 <https://setac.confex.com/setac/europe2024/meetingapp.cgi/Paper/23388>

**Erratum: Copper-zinc oxide heterojunction catalysts exhibiting enhanced photocatalytic activity prepared by a hybrid deposition method (RSC Advances (2021) 11 (10224–10234) DOI: 10.1039/D1RA00691F)**

Montero, José; Welearegay, Tesfalem; Thyr, Jakob; Stopfel, Henry; Dedova, Tatjana; Oja Acik, Ilona; Österlund, Lars RSC Advances 2021 / p. 13635 <https://doi.org/10.1039/d1ra00096j> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Erratum: Multifractal analysis of high-temperature plasma irradiated tungsten surfaces (Surface Topography: Metrology and Properties (2021) 9 (035030) DOI: 10.1088/2051-672x/ac1dc3)**

Martsepp, Merike; Laas, Tõnu; Laas, Katrin; Priimets, Jaanis; Mikli, Valdek; Antonov, Maksim Surface topography : metrology and

properties 2023 / art. 029501 <https://doi.org/10.1088/2051-672X/acc81c> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Estonian phosphate rock dissolution in hydrochloric acid : optimization of acid dosage and concentration**

**Tõnsuaadu, Kaia; Kallas, Juha; Kallaste, Toivo; Urtson, Kristjan; Einard, Marve; Martin, Rasmus; Kuusik, Rein; Trikkel, Andres** Minerals 2023 / art. 578 <https://doi.org/10.3390/min13040578> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Estonian student satellite Hämarik source of valuable lessons**

news.err.ee 2024 [Estonian student satellite Hämarik source of valuable lessons](#)

### **Ettekandele järgnenud arutelu : [Eesti Energia juhatuse esimehe Hanno Sutteri ettekandele "Eesti energiamajanduse kümne aasta väljavaade", peetud Eesti Teaduste Akadeemia üldkogul 7. detsembril 2022]**

Saari, Peeter; Sutter, Hando; **Kurnitski, Jarek; Grossberg-Kuusk, Maarja** Eesti Teaduste Akadeemia sõnas ja pildis 2022 2023 / lk. 55-57 [https://www.ester.ee/record=b5054043\\*est](https://www.ester.ee/record=b5054043*est)

### **Evaluation of Estonian phosphate rock by flotation**

Yang, Xiaosheng; **Tamm, Kadriann; Piir, Indrek; Kuusik, Rein, keemik; Trikkel, Andres; Tõnsuaadu, Kaia** Minerals engineering 2021 / art. 107127, 10 p. : ill <https://doi.org/10.1016/j.mineng.2021.107127> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Evaluation of high performance aluminum for microwave filters**

Martin-Iglesias, P.; **Raadik, Taavi**; Teberio, F.; Percas, J.M.; Martin-Iglesias, S.; Pambaguian, L.; Arregui, I.; Laso, M.A.G. 2019 IEEE MTT-S International Microwave Symposium (IMS), Boston, Massachusetts, 2-7 June 2019 : proceedings 2019 / p. 1183-1186 <https://doi.org/10.1109/MWSYM.2019.8700938> [Conference proceeding at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **Evaluation of new applications of oil shale ashes in building materials**

**Usta, Mustafa Cem; Yörük, Can Rüstü; Hain, Tiina**; Paaver, Peeter; Snellings, Ruben; Rozov, Eduard; **Gregor, Andre; Kuusik, Rein, keemik; Trikkel, Andres; Uibu, Mai** Minerals 2020 / art. 765, 19 p. : ill <https://doi.org/10.3390/min10090765> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Evaluation of residual stresses in PVD coatings by means of tubular substrate length variation**

Lille, Harri; Ryabchikov, Alexander; Kõo, Jakub; **Adoberg, Eron; Mikli, Valdek; Kübarsepp, Jakob; Peetsalu, Priidu** Residual Stresses 2018 ECRS-10 : 10th European Conference on Residual Stresses(ECRS10) : Leuven, Belgium, 11-14th September, 2018 2018 / p. 131-136 : ill <https://doi.org/10.21741/9781945291890-21>

### **Evaluation of the effect of test medium on total Cu body burden of nano CuO-exposed Daphnia magna: A TXRF spectroscopy study**

**Muna, Marge**; Heinlaan, Margit; Blinova, Irina; Vija, Heiki; Kahru, Anne Environmental pollution 2017 / p. 1488-1496 : ill <https://doi.org/10.1016/j.envpol.2017.07.083> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Evaluation of the potential hazard of lanthanides to freshwater microcrustaceans**

Blinova, Irina; Lukjanova, Aljona; **Muna, Marge**; Vija, Heiki; Kahru, Anne Science of the total environment 2018 / p. 1100-1107 : ill <https://doi.org/10.1016/j.scitotenv.2018.06.155> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Evaluation of the potential hazard of manufactured metal-based nanomaterials to health of aquatic ecosystems: state of the art**

Blinova, Irina; **Muna, Marge**; Lukjanova, Aljona; Kahru, Anne Journal of international scientific publications : ecology & safety 2018 / p. 174-182 : ill <https://www.scientific-publications.net/en/article/1001659/>

### **Evolution of biochemical processes in coking wastewater treatment : a combined evaluation of material and energy efficiencies and secondary pollution**

Qin, Zhi; Wei, Cong; Wei, Tuo; Li, Zemin; Pang, Zijun; Luo, Pei; Feng, Chunhua; Qiu, Guanglei; Wei, Chaohai; Wu, Haizhen; Peng, Yahuan; Jian, Chengfu; **Preis, Sergei** Science of the total environment 2022 / 13 p. : ill <https://doi.org/10.1016/j.scitotenv.2021.151072> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Excitonic emission in heavily Ga-doped zinc oxide films grown on GaN**

Shteplyuk, I.; Khranovskyy, D.; Gogova, D.; **Danilson, Mati; Krunks, Malle** Journal of luminescence 2020 / art. 117265, 10 p. : ill <https://doi.org/10.1016/j.jlumin.2020.117265> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Experimental mechanics analysis of recycled polypropylene-cotton composites for commercial applications**

**Hussain, Abrar; Goljandin, Dmitri; Podgurski, Vitali; Abbas, Muhammad Mujtaba; Krasnou, Illia** Advanced industrial and engineering polymer research 2023 / p. 226-238 : ill <https://doi.org/10.1016/j.aiepr.2022.11.001> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Exploring different synthesis parameters for the preparation of metal-nitrogen-carbon type oxygen reduction catalysts**

Teppor, Patrick; Jäger, Rutha; Härk, Eneli; Sepp, Silver; Kook, Mati; **Volobujeva, Olga**; Paiste, Päärn; Kochovski, Zdravko; Tallo, Indre; Lust, Enn Journal of the Electrochemical Society 2020 / art. 054513 <https://doi.org/10.1149/1945-7111/ab7093> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Exposure to sublethal concentrations of Co<sub>3</sub>O<sub>4</sub> and Mn<sub>2</sub>O<sub>3</sub> nanoparticles induced elevated metal body burden in *Daphnia magna***

Heinlaan, Margit; **Muna, Marge**; **Juganson, Katre**; Oriekhova, Olena; Stoll, Serge; Kahru, Anne; Slaveykova, Vera Aquatic toxicology 2017 / p. 123-133 : ill <https://doi.org/10.1016/j.aquatox.2017.06.002> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Fabrication of novel SiO<sub>x</sub>Ny/SWCNT laminate-type composite protective coating using low-temperature approach**

**Shmagina, Elizaveta**; **Volobujeva, Olga**; **Nasibulin, Albert**; **Bereznev, Sergei** Ceramics international 2024 / p. 34312-34320 <https://doi.org/10.1016/j.ceramint.2024.06.250> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Facile preparation of nitrogen and sulfur co-doped graphene-based aerogel for simultaneous removal of Cd<sup>2+</sup> and organic dyes**

Kong, Qiaoping; Wei, Chaohai; **Preis, Sergei**; Hu, Yun; Wang, Feng Environmental science and pollution research 2018 / p. 21164–21175 : ill <https://doi.org/10.1007/s11356-018-2195-8> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Ferrocene introduced into 5-methylresorcinol-based organic aerogels**

Erkhova, Ludmila V.; Presniakov, Igor A.; Afanasov, Michail I.; Lemenovskiy, Dmitry A.; Yu, Haojie; Wang, Li; **Danilson, Mati**; **Koel, Mihkel** Polymers 2020 / art. 1582 ; 12 p. : ill <https://doi.org/10.3390/polym12071582> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Ferrous ion-activated persulphate process for landfill leachate treatment : removal of organic load, phenolic micropollutants and nitrogen**

**Kattel, Eneliis**; **Dulova, Niina** Environmental technology 2017 / p. 1223-1231 : ill <https://doi.org/10.1080/09593330.2016.1221472> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Fiber-reinforced plywood: Increased performance with less raw material**

**Saal, Kristjan**; **Kallakas, Heikko**; **Tuhkanen, Eero**; **Just, Alar**; **Rohumaa, Anti**; **Kers, Jaan**; **Kalamees, Targo**; **Lõhmus, Rünno** Materials 2024 / art. 3218 <https://doi.org/10.3390/ma17133218> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Field measurements and simulation of an massive wood panel envelope with ETICS**

**Kukk, Villu**; **Kers, Jaan**; **Kalamees, Targo** Wood material science and engineering 2021 / p. 27-34 : ill <https://doi.org/10.1080/17480272.2020.1712738> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Finding the best fitting solutions for wastewater management in Baltic Sea Region villages (VillageWaters) [Online resource]**

**Dulova, Niina**; Räsänen, Kati; Vorne, V. 19th European Meeting on Environmental Chemistry : 3 - 6 december 2018 Royat - France : programm book 2018 / p. 109 : ill [https://emec19.sciencesconf.org/data/pages/EMEC\\_19\\_Book\\_of\\_abstract.pdf](https://emec19.sciencesconf.org/data/pages/EMEC_19_Book_of_abstract.pdf)

**Fire and mechanical properties of hemp and clay boards for timber structures**

**Kallakas, Heikko**; **Liblik, Johanna**; **Alao, Percy Festus**; **Poltimäe, Triinu**; **Just, Alar**; **Kers, Jaan** IOP conference series : earth and environmental science Central Europe towards Sustainable Building (CESB19) 2–4 July 2019, Prague, Czech Republic 2019 / art. 012019, 8 p. : ill <https://doi.org/10.1088/1755-1315/290/1/012019> [Conference proceedings at Scopus](#) [Article at Scopus](#)

**Fluorene- and fluorenone-based molecules as electron-transporting SAMs for photovoltaic devices**

Svirskaitė, Lauryna Monika; Kasparavicius, Ernestas; Steponaitis, Matas; Grzibovskis, Raitis; Franckevicius, Marius; **Katerski, Atanas**; Naujokaitis, Arnas; Karazhanov, Smagul; Gopi, Sajeesh Vadakkedath; Aiztrauts, Arturs RSC advances 2024 / p. 14973-14981 <https://doi.org/10.1039/D4RA00964A> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Foreword**

**Öpik, Andres** Proceedings of the Estonian Academy of Sciences 2018 / p. 115–116 [http://www.kirj.ee/public/proceedings\\_pdf/2018/issue\\_2/proc-2018-2-115-116.pdf](http://www.kirj.ee/public/proceedings_pdf/2018/issue_2/proc-2018-2-115-116.pdf) [Journal metrics at Scopus](#) [Article at Scopus](#)

**Formation and characterization of stable TiO<sub>2</sub>/Cu<sub>x</sub>O-based solar cells**

Wis, Grzegorz; Sawicka-Chudy, Paulina; **Sibinski, Maciej**; Yavorskyi, Rostyslav; Łabuz, Mirosław; Ploch, Dariusz; Bester, Mariusz Materials 2023 / art. 5683, 15 p. : ill <https://doi.org/10.3390/ma16165683> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Formation and growth of Cu<sub>2</sub>ZnSnS<sub>4</sub> monograin powder on molten Cd<sub>2</sub>S = Cu<sub>2</sub>ZnSnS<sub>4</sub> moodustumine ja monoterapulbri kasv Cd<sub>2</sub>S sulafaasi keskkonnas**

**Nkwusi, Godswill** 2017 <https://digi.lib.ttu.ee/i/?7690> [https://www.ester.ee/record=b4678707\\*est](https://www.ester.ee/record=b4678707*est)

#### Formation of Cu<sub>2</sub>ZnSnS<sub>4</sub> absorber layers for solar cells by electrodeposition-annealing route

Ilijina, Julia; Zhang, R.; Ganchev, Maxim; Raadik, Taavi; Volobujeva, Olga; Altosaar, Mare; Traksmäa, Rainer; Mellikov, Enn  
Thin Solid Films 2013 / p. 85 - 89 <https://doi.org/10.1016/j.tsf.2013.04.038> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

#### Fosforiidi väärdamisvõimaluste uuringud

Tamm, Kadriann Aastaraamat 2018 / Eesti Geoloogiateenistus 2019 / lk. 30–32 : ill [https://www.ester.ee/record=b5258416\\*est](https://www.ester.ee/record=b5258416*est)  
[https://www.ester.ee/record=b5231712\\*est](https://www.ester.ee/record=b5231712*est)

#### 4.9 % efficient Sb<sub>2</sub>S<sub>3</sub> solar cells from semi-transparent absorbers with fluorene-based thiophene terminated hole conductors

Mandati, Sreekanth; Juneja, Nimish; Katerski, Atanas; Jegorove, Aiste; Grzibovskis, Raitis; Vembris, Aivars; Dedova, Tatjana; Spalatu, Nicolae; Magomedov, Artiom; Karazhanov, Smagul; Getautis, Vytautas; Krunks, Malle; Oja Acik, Ilona ACS Applied Energy Materials 2023 / p. 3822–3833 <https://doi.org/10.1021/acsaem.2c04097> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

#### Free vibration analysis of uniform and tapered timoshenko beam by higher-order haar wavelet method

Mehrparvar, Marmar; Majak, Jüri; Karjust, Kristo Graduate School of Functional Materials and Technology (GSFMT) Scientific Conference : abstracts 2022 / 38 l. [Graduate School of Functional Materials and Technology \(GSFMT\) Scientific Conference 2022](https://www.gsfmt.ee/record=b5231712*est)

#### Froth Flotation Studies for Beneficiation of Estonian Phosphate Rock

Tamm, Kadriann; Zadeh, Zeinab Arab; Yang, Xiaosheng XIV International Mineral Processing and Recycling Conference : proceedings 2021 / p. 130-135 : ill [https://imprc.tfbor.bg.ac.rs/download/IMPRC\\_2021\\_Proceedings.pdf](https://imprc.tfbor.bg.ac.rs/download/IMPRC_2021_Proceedings.pdf)

#### Functional analysis of ice-binding proteins and practical application in ice cream = Jäaga seonduvate valkude funktsionaalne analüüs ja kasutamine jäätises

Kaleda, Aleksei 2018 <https://digi.lib.ttu.ee/i/?11144> [https://www.ester.ee/record=b5172715\\*est](https://www.ester.ee/record=b5172715*est)

#### Functionalization of CO<sub>2</sub>-Derived Carbon Support as a Pathway to Enhancing the Oxygen Reduction Reaction Performance of Pt Electrocatalysts

Najafli, Erkin; Ratso, Sander; Foroozan, Amir; Noor, Navid; Higgins, Drew C.; Kruusenberg, Ivar Energy & fuels 2024 / p. 15601–15610 : ill <https://doi.org/10.1021/acs.energyfuels.4c02407>

#### Fused hybrid linkers for metal–organic framework-derived bifunctional oxygen electrocatalysts

Ping, Kefeng; Braschinsky, Alan; Alam, Mahboob; Bhadoria, Rohit; Mikli, Valdek; Mere, Arvo; Aruväli, Jaan; Paiste, Pääm; Vlassov, Sergei; Kook, Mati; Rähn, Mihkel; Sammelselg, Väino; Tammeveski, Kaiko; Kongi, Nadežda; Starkov, Pavel ACS Applied Energy Materials 2020 / p. 152–157 : ill <https://doi.org/10.1021/acsaem.9b02039> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

#### Fused hybrid linkers for metal–organic frameworks-derived bifunctional oxygen electrocatalysts : [version 1.0] [Online resource]

Ping, Kefeng; Braschinsky, Alan; Alam, Mahboob; Bhadoria, Rohit; Mikli, Valdek; Mere, Arvo; Starkov, Pavel ChemRxiv 2019 / 10 p., S16 p. : ill <https://doi.org/10.26434/chemrxiv.7687358>

#### Fused hybrid linkers for metal–organic frameworks-derived bifunctional oxygen electrocatalysts : [version 2.0] [Online resource]

Ping, Kefeng; Braschinsky, Alan; Alam, Mahboob; Bhadoria, Rohit; Mikli, Valdek; Mere, Arvo; Starkov, Pavel ChemRxiv 2019 / 10 p., S17 p. : ill <https://doi.org/10.26434/chemrxiv.7687358.v2>

#### Gas sensing capability of spray deposited Al-doped ZnO thin films

Eensalu, Jako Siim; Katerski, Atanas; Mere, Arvo; Krunks, Malle Proceedings of the Estonian Academy of Sciences 2018 / p. 124–130 : ill <https://doi.org/10.3176/proc.2018.2.02> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

#### Gas sensing capability of spray deposited Al-doped ZnO thin films [Online resource]

Eensalu, Jako Siim; Katerski, Atanas; Mere, Arvo; Krunks, Malle Tartu Ülikooli ASTRA projekt PER ASPERA : Funktsionaalsed materjalid ja tehnoloogiad : [7-8 märtsil 2018, Tallinn : teesid] GSFMT Scientific Conference 2018 : Tallinn, March 7-8, 2018 : abstracts 2018 / 1 p <http://fntdk.ut.ee/teesid-2018/>

#### Gas-phase photocatalytic degradation of acetone and toluene, and their mixture in the presence of ozone in continuous multi-section reactor as possible air post-treatment for exhaust from pulsed corona discharge

Kask, Maarja; Bolobajev, Juri; Kritševskaja, Marina Chemical engineering journal 2020 / art. 125815, 9 p. : ill <https://doi.org/10.1016/j.cej.2020.125815> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

#### Gas-phase photocatalytic degradation of VOCs and ozone in continuous multi-section reactor as possible air post-treatment for exhaust from pulsed corona discharge

**Kask, Maarja; Bolobajev, Juri; Kritševskaja, Marina** GSFMT Scientific Conference 2020 : Tallinn, February 4-5, 2020 : abstracts 2020 / p. 40 <http://fmdk.ut.ee/wp-content/uploads/2020/01/GSFMT2020.pdf>

**Gas-phase photocatalytic oxidation of refractory VOCs mixtures : through the net of process limitations**

**Kritševskaja, Marina;** Preis, Sergei; Moiseev, Anna; **Pronina, Natalja;** Deubener, Joachim Catalysis today 2017 / p. 93-98 : ill <https://doi.org/10.1016/j.cattod.2016.03.041> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Gas-phase photocatalytic oxidation of VOCs on the TiO<sub>2</sub> thin films**

**Sydorenko, Jekaterina; Danilson, Mati; Mere, Arvo; Krunks, Malle; Kritševskaja, Marina; Oja Acik, Ilona** GSFMT Scientific Conference 2021 : Tartu, June 14-15, 2021 : abstracts 2021 / O 10 [https://fmdk.ut.ee/wp-content/uploads/2021/06/GSFMT\\_abstractbook\\_2021.pdf](https://fmdk.ut.ee/wp-content/uploads/2021/06/GSFMT_abstractbook_2021.pdf)

**Gas-phase photocatalytic reactor for the study of TiO<sub>2</sub> thin films activity [Online resource]**

**Spiridonova, Jekaterina; Kritševskaja, Marina** Tartu Ülikooli ASTRA projekt PER ASPERA : Funktsionaalsed materjalid ja tehnoloogiad : [4.-5. veebr. 2019, Tartu : teesid] 2019 / 1 p <http://fmdk.ut.ee/teesid-2019/>

**Geosünteetika aitab tugevdada tee konstruktsiooni**

**Krumme, Andres** Teejuht : maal, vees ja õhus : Transpordiameti digiajakiri 2024 / lk. 70-71 : fot [https://www.ester.ee/record=b5495900\\*est](https://www.ester.ee/record=b5495900*est) <https://digiajakiri.transpordiamet.ee/view/1016876430/70/>

**GeTe<sub>2</sub> phase change material for terahertz devices with reconfigurable functionalities using optical activation**

Konnikova, Maria R.; Khomenko, Maxim D.; Tverjanovich, Andrey S.; **Bereznev, Sergei;** Mankova, Anna A.; Parashchuk, Olga D.; Vasilevsky, Ivan S.; Ozheredov, Ilya A.; Shkurinov, Alexander P.; Bychkov, Eugene A. ACS applied materials & interfaces 2023 / p. 9638-9648 <https://doi.org/10.1021/acsami.2c21678> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Glassy GaS: transparent and unusually rigid thin films for visible to mid-IR memory applications**

Tverjanovich, Andrey; Khomenko, Maksym; **Bereznev, Sergei;** Fontanari, Daniele; Sokolov, Anton; Usuki, Takeshi; Ohara, Koji; Le Coq, David; Masselin, Pascal; Bychkov, Eugene Physical chemistry chemical physics 2020 / p. 25560-25573 <https://doi.org/10.1039/D0CP04697C> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Gradient microstructure in tantalum formed under the wear track during dry sliding friction**

**Kommel, Lembit; Põdra, Priit; Mikli, Valdek; Omranpour Shahreza, Babak** Wear 2021 / art. 203573, 7 p. : ill <https://doi.org/10.1016/j.wear.2020.203573> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Granulation of oil shale ashes for neutralizing of acidic soils**

**Kaljuvee, Tiit; Jefimova, Jekaterina;** Loide, Valli; **Uibu, Mai; Einard, Marve; Kuusik, Rein, keemik** International IX Oil Shale Conference 2017 "Oil Shale Industry in Circular Economy" : 15th-16th November 2017, [Jõhvi], Ida-Viru County, Estonia : summary 2017 / p. 16-17 [http://www.ester.ee/record=b4751282\\*est](http://www.ester.ee/record=b4751282*est)

**Graphene oxide-terminated hyperbranched amino polymer-carboxymethyl cellulose ternary nanocomposite for efficient removal of heavy metals from aqueous solutions**

Kong, Qiaoping; **Preis, Sergei;** Li, Leli; Luo, Pei; Hua, Yun; Wei, Chaohai International journal of biological macromolecules 2020 / p. 581-592 : ill <https://doi.org/10.1016/j.ijbiomac.2020.01.185> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Growth and characterization of Cu<sub>2</sub>Zn<sub>1-x</sub>Fe<sub>x</sub>SnS<sub>4</sub> thin films for photovoltaic applications**

Trifiletti, Vanira; Tseberlidis, Giorgio; Colombo, Mario; Spinardi, Alberto; Luong, Sally; **Danilson, Mati; Grossberg, Maarja;** Fenwick, Oliver; Binetti, Simona Materials 2020 / art. 1471, 13 p. : ill <https://doi.org/10.3390/ma13061471> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Growth and optical properties of two-dimensional transition metal dichalcogenides = Kahedimensionaalsete siirdemetallide dikalkogeniidide kasvatus ning optiliste omaduste uurimine**

**Kaupmees, Reelika** 2021 <https://digikogu.taltech.ee/et/Item/72b400aa-c5da-4db6-8cb0-acce54153e2a> [https://www.ester.ee/record=b5429502\\*est](https://www.ester.ee/record=b5429502*est) <https://doi.org/10.23658/taltech.25/2021>

**Growth mechanism of pulse electrodeposited cadmium sulfide and zinc sulfide thin films with tartaric acid and glycerol as additives**

Boosagulla, Divya; **Mandati, Sreekanth;** Allikayala, Ramachandraiah; Sarada, Bulusu V. Thin Solid Films 2022 / art. #139011 <https://doi.org/10.1016/j.tsf.2021.139011>

**Growth of Cu<sub>2</sub>CDGESE<sub>4</sub> monograin powders in molten salts [Online resource]**

**Li, Xiaofeng; Kauk-Kuusik, Marit** Tartu Ülikooli ASTRA projekt PER ASPERA : Funktsionaalsed materjalid ja tehnoloogiad : [4.-5. veebr. 2019, Tartu : teesid] 2019 / 2 p <http://fmdk.ut.ee/teesid-2019/>

**Hazard evaluation of metal-based nanoparticles and lanthanides with freshwater microcrustaceans = Metalliliste nanoosakeste ja lantaniidide kahjulikkuse hindamine magevee pisivähkidega**

Muna, Marge 2019 <https://digi.lib.ttu.ee/i/?11634>

#### Heating rate effect on the thermal behavior of some clays and their blends with oil shale ash additives

**Kaljuvee, Tiit**; Štubna, Igor; Hulan, Tomaš; **Kuusik, Rein, keemik** Journal of thermal analysis and calorimetry 2017 / p. 33-45 : ill <https://doi.org/10.1007/s10973-016-5347-4> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### Heteroatom-doped nanocarbons derived from black liquor as the oxygen reduction reaction catalysts

Kaare, Kätlin; Kruusenberg, Ivar; Volperts, Aleksandrs; Zhurinsh, Aivars; Dobeles, Galina; **Walke, Peter; Mikli, Valdek** GSFMT Scientific Conference 2021 : Tartu, June 14-15, 2021 : abstracts 2021 / P 53 [https://fmdk.ut.ee/wp-content/uploads/2021/06/GSFMT\\_abstractbook\\_2021.pdf](https://fmdk.ut.ee/wp-content/uploads/2021/06/GSFMT_abstractbook_2021.pdf)

#### High temperature tribological properties of Al<sub>2</sub>O<sub>3</sub>/NCD films investigated under ambient air conditions

**Podgurski, Vitali; Yashin, Maxim**; Jõgiaas, Taivo; **Viljus, Mart; Alamgir, Asad; Danilson, Mati; Bogatov, Andrei** Coatings 2020 / art. 175, 13 p. : ill <https://doi.org/10.3390/coatings10020175> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### High-K ZrO<sub>2</sub> thin films by chemical spray pyrolysis method [Online resource]

**Oluwabi, Abayomi Titilope; Oja Acik, Ilona; Katerski, Atanas; Krunks, Malle** Tartu Ülikooli ASTRA projekt PER ASPERA : Funktsionaalsed materjalid ja tehnoloogiad : [7-8 märtsil 2018, Tallinn : teesid] GSFMT Scientific Conference 2018 : Tallinn, March 7-8, 2018 : abstracts 2018 / 1 p <http://fmdk.ut.ee/teesid-2018/>

#### Highly active Fe-N/C oxygen electrocatalysts based on silicon carbide derived carbon

Teppor, Patrick; Jäger, Rutha; Hints, J.; **Volobujeva, Olga**; Valk, Peeter; Koppel, Miriam; Lust, Enn Polymer Electrolyte Fuel Cells & Electrolyzers 20 (PEFC & E 20) 2020 / p. 607 - 615 <https://doi.org/10.1149/09809.0607ecst> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

#### Highly active wood-derived nitrogen-doped carbon catalyst for the oxygen reduction reaction

**Kaare, Kätlin**; Yu, Eric; Volperts, Aleksandrs; Dobeles, Galina; Zhurinsh, Aivars; Dyck, Alexaner; Niaura, Gediminas; Tamasauskaitė-Tamasiunaite, Loreta; Norkus, Eugenijus; Andrulevičius, Mindaugas; **Danilson, Mati**; Kruusenberg, Ivar ACS omega 2020 / p. 23578-23587 : ill <https://doi.org/10.1021/acsomega.0c01974> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### Highly flexible single crystalline solar modules, the ideal solution for versatile building integrated photovoltaic

**Meissner, Dieter** TRATERMAT 2019 : XVI Congreso Internacional de Tratamientos Térmicos y de Superficie 2020 / p. 21-22 <https://dialnet.unirioja.es/servlet/articulo?codigo=7551145>

#### High-strength fuel pellets made of flour milling and coal slack wastes

Tabakaev, Roman; Kahn, Victor; Dubinina, Yury; **Preis, Sergei** Energy 2022 / art. 123071 <https://doi.org/10.1016/j.energy.2021.123071> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### High-temperature oxidation resistance and tribological properties of Al<sub>2</sub>O<sub>3</sub>/ta-C coating

**Alamgir, Asad; Bogatov, Andrei**; Jõgiaas, Taivo; **Viljus, Mart; Raadik, Taavi; Kübarsepp, Jakob; Sergejev, Fjodor**; Lümekemann, Andreas; Kluson, Jan; **Podgurski, Vitali** Coatings 2022 / art. 547 <https://doi.org/10.3390/coatings12040547> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### High-temperature tribological performance of Al<sub>2</sub>O<sub>3</sub>/a-C:H:Si coating in ambient air

**Podgurski, Vitali; Alamgir, Asad; Yashin, Maxim**; Jõgiaas, Taivo; **Viljus, Mart; Raadik, Taavi; Danilson, Mati; Sergejev, Fjodor**; Lümekemann, Andreas; Kluson, Jan; Söndör, Jozsef; **Bogatov, Andrei** Coatings 2021 / art. 495, 15 p. : ill <https://doi.org/10.3390/coatings11050495> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### High-κ metal oxide thin film by chemical spray pyrolysis : from optimization of material properties to application in thin film transistor = Metallioksiidi õhukesed kiled keemilise pihustuspürolüüsi meetodil : materjali omaduste optimeerimine ja rakendamine õhukesekilelistes transistorides

**Oluwabi, Abayomi Titilope** 2020 <https://digikogu.taltech.ee/et/Item/4b6d9afd-74d2-40ac-9c12-335d2f608474> [https://www.ester.ee/record=b5362429\\*est](https://www.ester.ee/record=b5362429*est)

#### Hospital wastewater treatment with pilot-scale pulsed corona discharge for removal of pharmaceutical residues

Ajo, Petri; **Preis, Sergei**; Vornamo, Timo; Mänttari, Mika; Kallioinen, Mari; Louhi-Kultanen, Marjatta Journal of environmental chemical engineering 2018 / p. 1569-1577 : ill <https://doi.org/10.1016/j.jece.2018.02.007> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### Hävinud tudengisatelliit Hämarik andis tegijatele väärtuslikke õppetunde

Vare, Kai err.ee 2024 [Hävinud tudengisatelliit Hämarik andis tegijatele väärtuslikke õppetunde](#)

#### Hybrid molecularly imprinted polymer for amoxicillin detection

**Ayankojo, Akinrinade George; Reut, Jekaterina; Öpik, Andres**; Furchner, Andreas; Söritski, Vitali Biosensors and bioelectronics

2018 / p. 102-107 : ill <https://doi.org/10.1016/j.bios.2018.07.042> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Hydrogen post-treatment enhances the electrochemical activity of Pt-CeO<sub>2</sub>/C catalysts**

Nguyen, Huy Qui Vinh; Kasuk, Heili; Härmas, Meelis; Aruväli, Jaan; **Volobujeva, Olga**; Härk, Eneli; Kochovski, Zdravko; Lust, Enn; Nerut, Jaak 8th Baltic Electrochemistry Conference. Conference Abstract 2024 / 1 p. [https://sisu.ut.ee/wp-content/uploads/sites/638/nguyen\\_huy\\_qui\\_vinh\\_.pdf](https://sisu.ut.ee/wp-content/uploads/sites/638/nguyen_huy_qui_vinh_.pdf)

### **Hydrogen states in mixed-cation CuIn(1-x)Ga<sub>x</sub>Se<sub>2</sub> chalcopyrite alloys : a combined study by first-principles density-functional calculations and muon-spin spectroscopy**

Marinopoulos, Apostolos G.; Vilao, Rui C.; Alberto, Helena Vieira; Ribeiro, E. F. M.; Gil, J. M.; Mengyan, P. W.; Goeks, M. R.; **Kauk-Kuusik, Marit**; Lord, J. S. Philosophical magazine 2021 / p. 2412-2434 <https://doi.org/10.1080/14786435.2021.1972178> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Hydrolytic and dehydratase enzymes : chapter 9**

Yu, S.; **Parve, Jaan**; **Parve, Omar**; **Villo, Ly**; **Aav, Riina** Applied biocatalysis: The chemist's enzyme toolbox 2020 / p. 333-361 <https://www.wiley.com/en-us/9781119487012>

### **Hydroxyapatite-based catalysts in organic synthesis**

Gruselle, Michel; **Tõnsuaadu, Kaia**; Gredin, Patrick; Len, Christophe Design and applications of hydroxyapatite-based catalysts 2022 / chapter 10 <https://doi.org/10.1002/9783527830190.ch10>

### **Hydroxyl radical behavior in water treatment with gas-phase pulsed corona discharge**

Ajo, Petri 2018 <http://urn.fi/URN:ISBN:978-952-335-213-1>

### **Hygrothermal criteria for design of cross-laminated timber external walls**

**Kukk, Villu**; **Kers, Jaan**; **Kalamees, Targo**; Wang, Lin; Ge, Hua Proceedings of the 5th international conference on building energy and environment 2023 / p. 811-815 [https://doi.org/10.1007/978-981-19-9822-5\\_87](https://doi.org/10.1007/978-981-19-9822-5_87) [Conference proceedings at Scopus](#) [Article at Scopus](#)

### **Identification of excitons and biexcitons in Sb<sub>2</sub>Se<sub>3</sub> under high photoluminescence excitation density**

**Krustok, Jüri**; Kondrotas, Rokas; Nedzinskas, Ramunas; **Timmo, Kristi**; **Kaupmees, Reelika**; **Mikli, Valdek**; **Grossberg, Maarja** Advanced optical materials 2021 / 8 p. : ill <https://doi.org/10.1002/adom.202100107> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Impact of 1-butyl-3-methylimidazolium chloride on the electrospinning of cellulose acetate nanofibers**

**Javed, Kashif**; **Krumme, Andres**; **Krasnou, Illia**; **Mikli, Valdek**; **Viirsalu, Mihkel**; **Plamus, Tiia**; **Vassiljeva, Viktoria**; **Tarasova, Elvira**; **Savest, Natalja**; Mendez, James D. Journal of macromolecular science, part A : pure and applied chemistry 2018 / p. 142-147 : ill <https://doi.org/10.1080/10601325.2017.1387861> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Impact of alkali and silane treatment on hemp/PLA composites' performance : from micro to macro scale**

**Alao, Percy Festus**; Marrot, Laetitia; Burnard, Michael David; Lavrič, Gregor; **Saarna, Mart**; **Kers, Jaan** Polymers 2021 / art. 851, 18 p. : ill <https://doi.org/10.3390/polym13060851> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Impact of aspen and black alder substitution in birch plywood**

**Akkurt, Tolgay**; **Kallakas, Heikko**; **Rohumaa, Anti**; Hunt, Christopher Glaab; **Kers, Jaan** Forests 2022 / art. 142 <https://doi.org/10.3390/f13020142>

### **Impact of blocking layers based on TiO<sub>2</sub> and ZnO prepared via direct current reactive magnetron sputtering on DSSC solar cells**

**Sibinski, Maciej**; Sawicka-Chudy, Paulina; Wisz, Grzegorz; Gnida, Pawel; Schab-Balcerzak, Ewa; Wal, Andrzej; Yavorskyi, Rostyslav; Cholewa, Marian Scientific reports 2024 / art. 10676 <https://doi.org/10.1038/s41598-024-61512-6>

### **Impact of built-in moisture on the design of hygrothermally safe cross-laminated timber external walls : a stochastic approach**

**Kukk, Villu**; **Kers, Jaan**; **Kalamees, Targo**; Wang, Lin; **Ge, Hua** Building and environment 2022 / art. 109736 <https://doi.org/10.1016/j.buildenv.2022.109736> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Impact of cracks to the hygrothermal properties of CLT water vapour resistance and air permeability**

**Kukk, Villu**; **Horta, R.**; **Püssa, Martin**; **Luciani, Giovanni**; **Kallakas, Heikko**; **Kalamees, Targo**; **Kers, Jaan** Energy procedia 2017 / p. 741-746 : ill <https://doi.org/10.1016/j.egypro.2017.10.019> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **Impact of high energy milled activation on the thermal properties of Bulgarian and Estonian natural apatites**

Petkova, Vilma; Kostova, Bilyana; Serafimova, Ekaterina; **Kaljuvee, Tiit**; **Tõnsuaadu, Kaia**; Pelovski, Yoncho 2nd Journal of Thermal Analysis and Calorimetry Conference, Budapest, June 18–21, 2019 : book of abstracts 2019 / p. 480-481 <https://itac-jtacc.akcongress.com/>

**Impact of laser fading on physico-mechanical properties and fibre morphology of multicomponent denim fabrics**  
Mandre, Nele; Plamus, Tiia; Linder, Angelika; Krumme, Andres; Rohumaa, Anti Proceedings of the Estonian Academy of Sciences 2023 / p. 145-153 <https://doi.org/10.3176/proc.2023.2.05> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Impact of post-deposition treatments on properties of SnS films and solar cells grown by close-spaced sublimation technique [Online resource]**  
Spalatu, Nicolae; Hiie, Jaan; Krunks, Malle [2018 E-MRS Spring Meeting and Exhibit : Materials for energy and environment : Thin film chalcogenide photovoltaic materials : program] 2018 / A.PIV.27 <https://www.european-mrs.com/thin-film-chalcogenide-photovoltaic-materials-emrs>

**Impact of vacuum and nitrogen annealing on HVE SnS photoabsorber films**  
Revathi, Naidu; Loooris, Mihkel; Kärber, Erki; Volobujeva, Olga; Raudoja, Jaan; Maticiuc, Natalia; Bereznev, Sergei; Mellikov, Enn Materials science in semiconductor processing 2017 / p. 252-257 : ill <https://doi.org/10.1016/j.mssp.2017.08.004> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Impact of weft yarn density and core-yarn fibre composition on tensile properties, abrasion resistance and air permeability of denim fabrics**  
Mandre, Nele; Plamus, Tiia; Krumme, Andres Materials science 2021 / p. 483-491 : ill <https://doi.org/10.5755/j02.ms.27532> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Importance of the micro-lattice structure of selective laser melting processed Mo/Mo(x)S(x+1) composite: Corrosion studies on the electrochemical performance in aqueous solutions**  
Alinejadian, Navid; Kazemi, Sayed Habib; Grossberg-Kuusk, Maarja; Kollo, Lauri; Odnevall, Inger Charlotta; Prashanth, Konda Gokuldoss Materials today chemistry 2022 / art. 101219 <https://doi.org/10.1016/j.mtchem.2022.101219> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Improved amorphous silicon passivation layer for heterojunction solar cells with post-deposition plasma treatment**  
Neumüller, Alex; Sergeev, Oleg; Heise, Stephan J.; Bereznev, Sergei; Volobujeva, Olga Nano energy 2018 / p. 228-235 : ill <https://doi.org/10.1016/j.nanoen.2017.11.053> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Improving pharmaceuticals removal at wastewater treatment plants using biochar: a review**  
Akintola, Ayooluwa Tomiwa; Ayankunle, Ayankoya Yemi Waste and biomass valorization 2023 / p. 2433-2458 <https://doi.org/10.1007/s12649-023-02070-2> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Improving the oxygen barrier of polyamide food packaging by using nanoclay**  
Paara, Tõnis; Lange, Sven; Saal, Kristjan; Lõhmus, Rünno; Krumme, Andres; Mändar, Hugo Materials science = Medžiagotyra 2022 / p. 217-223 <https://doi.org/10.5755/j02.ms.28868> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Indium-free CIGS analogues : general discussion**  
Andreasen, Jens Wenzel; Bowers, Jake W.; Breternitz, Joachim; Dale, Phillip J.; Dimitrievska, Mirjana; Fermin, David J.; Ganose, Alex; Gurieva, Galina; Hages, Charles J.; Mandati, Sreekanth Faraday Discussions 2022 / p. 85-111 <https://doi.org/10.1039/D2FD90055F>

**Individual and simultaneous degradation of sulfamethoxazole and trimethoprim by ozone, ozone/hydrogen peroxide and ozone/persulfate processes: A comparative study**  
Adil, Sawaira; Maryam, Bareera; Kim, Eun-Ju; Dulova, Niina Environmental research 2020 / art. 109889, 10 p <https://doi.org/10.1016/j.envres.2020.109889> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Industrial sustainable fabrication, SEM characterization, mechanical testing, ANOVA analysis of PP-PETF recycled composites : artificial intelligence and deep learning studies for nuclear shielding applications**  
Hussain, Abrar; Goljandin, Dmitri; Podgurski, Vitali; Yörük, Can Rüstü; Sergejev, Fjodor; Kübarsepp, Jakob; Maurya, Himanshu Singh; Rahmani Ahranjani, Ramin European polymer journal 2024 / art. 113082 <https://doi.org/10.1016/j.eurpolymj.2024.113082> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Inexpensive fluorene-based hole transporting material with terminated thiophene unit for efficient semi-transparent Sb2S3 solar cells**  
Jegorove, Aiste; Mandati, Sreekanth; Juneja, Nimish; Katerski, Atanas; Vembris, Aivars; Grzibovskis, Raitis; Getautis, Vytautas; Dedova, Tatjana; Magomedov, Artiom; Spalatu, Nicolae; Karazhanov, Smagul; Krunks, Malle; Oja Acik, Ilona Proceedings of International Conference on Hybrid and Organic Photovoltaics (HOPV22), València, Spain, 2022 May 19th - 25th 2022 <https://www.nanoqe.org/proceedings/HOPV22/62596b7159d9502382511011>

**Influence of alkali iodide fluxes on Cu2ZnSnS4 monograin powder properties and performance of solar cells**  
Timmo, Kristi; Pilvet, Maris; Muska, Katri; Altosaar, Mare; Mikli, Valdek; Kaupmees, Reelika; Josepson, Raavo; Krustok, Jüri; Grossberg-Kuusk, Maarja; Kauk-Kuusik, Marit Materials advances 2023 / p. 4509-4519 : ill <https://doi.org/10.1039/D3MA00444A> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Influence of A-site modifications on the properties of La<sub>0.21</sub>Sr<sub>0.74</sub>-xCa<sub>x</sub>Ti<sub>0.95</sub>Fe<sub>0.05</sub>O<sub>3-δ</sub> based fuel electrode for solid oxide cell**

Paydar, Sara; Kooser, Kuno; Möller, Priit; **Volobujeva, Olga**; Granroth, Sari; Lust, Enn; Nurk, Gunnar Journal of The Electrochemical Society 2023 / art. 054502, 10 p. : ill <https://doi.org/10.1149/1945-7111/acd084> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**The influence of birch (Betula pendula) false heartwood on the mechanical properties of wood-plastic composites = Kase (Betula pendula) väärlülipuidu mõju puitplastkomposiitide mehaanilistele omadustele**

Kallakas, Heikko 2019 <https://digi.lib.ttu.ee/i/?12253>

**Influence of birch false heartwood on the physical and mechanical properties of wood-plastic composites**

Kallakas, Heikko; Ayansola, Gbenga; Tumanov, Tanel; Goljandin, Dmitri; Poltimäe, Triinu; Krumme, Andres; Kers, Jaan Bioresources 2019 / p. 3554-3566 : ill <https://doi.org/10.15376/biores.14.2.3554-3566> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Influence of electrolyte scaffold microstructure and loading of MIEC material on the electrochemical performance of RSOC fuel electrode**

Maide, Martin; Lillmaa, Kadi; Salvan, Laur Kristjan; Möller, Priit; **Uibu, Mai**; Lust, Enn; Nurk, Gunnar Fuel Cells 2018 / p. 789-799 <https://doi.org/10.1002/fuce.201800087> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Influence of electrolyte scaffold microstructure and loading of miec material on the electrochemical performance of r-soc fuel electrode [Online resource]**

Maide, Martin; Lillmaa, Kadi; Salvan, Laur Kristjan; **Uibu, Mai**; Lust, Enn; Nurk, Gunnar Tartu Ülikooli ASTRA projekt PER ASPERA : Funktsionaalsed materjalid ja tehnoloogiad : [7-8 märtsil 2018, Tallinn : teesid] GSFMT Scientific Conference 2018 : Tallinn, March 7-8, 2018 : abstracts 2018 / 1 p <http://fntdk.ut.ee/teesid-2018/>

**Influence of interior layer properties to moisture dry-out of CLT walls**

Kukk, Villu; Külaots, Annegrete; Kers, Jaan; Kalamees, Targo Canadian journal of civil engineering 2019 / p. 1001-1009 <https://doi.org/10.1139/cjce-2018-0591> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Influence of Ni concentration on electrochemical and crystallographic properties of La<sub>0.25</sub>Sr<sub>0.25</sub>Ca<sub>0.4</sub>Ti<sub>1-x</sub>Ni<sub>x</sub>O<sub>3-δ</sub> solid oxide fuel cell anode**

Korjus, Ove; Möller, Priit; Kooser, Kuno; Käämbre, Tanel; **Volobujeva, Olga**; Nerut, Jaak; Kotkas, S.; Lust, Enn; Nurk, Gunnar Journal of Power Sources 2021 / Art. n.r 229739 <https://doi.org/10.1016/j.jpowsour.2021.229739> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Influence of oil shale ash addition on thermophysical processes in an illitic clay during heating**

Csaki, Štefan; **Kaljuvee, Tiit**; Štubna, Igor; Dobron, Patrik; Vozar, Libor ECERS 2017 : 15th Conference & Exhibition of the European Ceramic Society, July 9-13, 2017, Budapest, Hungary : book of abstracts 2017 / p. 579 <https://static.akcongress.com/downloads/ecers/ecers2017-abstract-book.pdf>

**Influence of order-disorder in Cu<sub>2</sub>ZnSnS<sub>4</sub> powders on the performance of monograin layer solar cells**

Timmo, Kristi; Kauk-Kuusik, Marit; Pilvet, Maris; Raadik, Taavi; Altosaar, Mare; Danilson, Mati; Grossberg, Maarja; Raudoja, Jaan; Ernits, Kaia Thin solid films 2017 / p. 122-126 : ill <https://doi.org/10.1016/j.tsf.2016.10.017> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Influence of PH on the hydroxide impurities in chemically deposited CDS thin film**

Üürike, Marvin; Maticiu, Natalia; **Volobujeva, Olga**; Spalatu, Nicolae; Hiie, Jaan The 14th International Conference of Young Scientists on Energy Issues : Kaunas, Lithuania, May 25-26, 2017 2017 / p. X-316 - X-323 : ill [http://cyseni.com/archives/proceedings/Proceedings\\_of\\_CYSENI\\_2017.pdf](http://cyseni.com/archives/proceedings/Proceedings_of_CYSENI_2017.pdf)

**Influence of post-UV/ozone treatment of ultrasonic-sprayed zirconium oxide dielectric films for a low-temperature oxide thin film transistor**

**Oluwabi, Abayomi Titilope**; Gaspar, Diana; **Katerski, Atanas**; **Mere, Arvo**; **Krunks, Malle**; Pereira, Luis; **Oja Acik, Ilona** Materials 2020 / art. 6, 14 p. : ill <https://doi.org/10.3390/ma13010006> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Influence of protic ionic liquid-based flame retardant on the flammability and water sorption of alkalized hemp fiber-reinforced PLA composites**

**Alao, Percy Festus**; **Press, Raimond**; Ruponen, Jussi; **Mikli, Valdek**; **Kers, Jaan** Polymers 2023 / art. 3661 <https://doi.org/10.3390/polym15183661> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Influence of selenous acid microadditive on electrochemical formation of CdS thin films**

**Maricheva, Jelena**; **Bereznev, Sergei**; **Maticiu, Natalia**; **Volobujeva, Olga**; **Kois, Julia** Electrochimica acta 2017 / p. 280-286 : ill <https://doi.org/10.1016/j.electacta.2017.05.035> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Influence of SiO<sub>2</sub> on the thermal behavior of high-energy activated natural phosphorites**

Petkova, Vilma; Kostova, Bilyana; Kadiyski, Milen; **Kaljuvee, Tiit** 12th Conference on Calorimetry and Thermal Analysis of Polish Society of Calorimetry and Thermal Analysis and 5th Joint Czech-Hungarian-Polish-Slovakian Thermoanalytical Conference : Book of Abstracts 2015 / 218-220

### **Influence of solution composition on sprayed ZnO nanorods properties and formation process: Thermoanalytical study of the precursors**

**Dedova, Tatjana; Oja Acik, Ilona; Polivtseva, Svetlana; Krunks, Malle; Gromöko, Inga; Tõnsuaadu, Kaia; Mere, Arvo** Ceramics international 2019 / p. 2887-2892 : ill <https://doi.org/10.1016/j.ceramint.2018.07.274> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **The influence of synthesis parameters and thermal treatment on the optical and structural properties of zinc oxide-based nanomaterials**

Paltusheva, Zhaniya; Kedruk, Yevgeniya; Gritsenko, Lesya; Tulegenova, Madina; **Sõritski, Vitali**; Abdullin, Khabibulla Physical sciences and technology 2024 / Lk. 49-57 <https://doi.org/10.26577/phst2024v11i1a6> [Journal metrics at Journal](#) [Article at Scopus](#)

### **Influence of the copper content on the optical properties of CZTSe thin films**

Yakushev, M. V.; Sulimov, M. A.; Marquez-Prieto, J.; Forbes, I.; **Krustok, Jüri** Solar energy materials and solar cells 2017 / p. 69-77 : ill <https://doi.org/10.1016/j.solmat.2017.04.022> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Influence of the post-granulation treatment on the thermal behaviour and leachability characteristics of Estonian oil shale ashes**

**Kaljuvee, Tiit; Jefimova, Jekaterina**; Loide, Valli; **Uibu, Mai; Einard, Marve** Journal of thermal analysis and calorimetry 2018 / p. 47–57 : ill <https://doi.org/10.1007/s10973-017-6875-2> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Influence of the post-granulation treatment on the thermal behaviour of Estonian oil shale ashes**

**Kaljuvee, Tiit; Jefimova, Jekaterina**; Loide, Valli; **Uibu, Mai; Einard, Marve; Kuusik, Rein, keemik** JTACC+V4 : 1st Journal of Thermal Analysis and Calorimetry Conference and 6th V4 (Joint Czech-Hungarian-Polish-Slovakian) Thermoanalytical Conference: Budapest Hungary, June 6-9, 2017 : Book of Abstracts 2017 / p. 105 <https://static.akcongress.com/downloads/jtacc/jtacc2017-book-of-abstracts.pdf>

### **Influence of vapour transport deposition conditions on properties of SB2SE3 thin film absorber and solar cells**

**Gopi, Sajeesh Vadakkedath; Spalatu, Nicolae; Katerski, Atanas; Krunks, Malle; Oja Acik, Ilona** Graduate School of Functional Materials and Technology (GSFMT) Scientific Conference : abstracts 2022 / 18 l. [Graduate School of Functional Materials and Technology \(GSFMT\) Scientific Conference 2022](#)

### **Influence of waste products from electricity and cement industries on the thermal behaviour of Estonian clay from Kunda deposit**

**Kaljuvee, Tiit; Štubna, Igor; Hulan, Tomaš; Csaki, Štefan; Uibu, Mai; Jefimova, Jekaterina** 12th European Symposium on Thermal Analysis and Calorimetry ESTAC 12 : 27-30 August 2018, Brasov, Romania : book of abstracts 2018 / OP1.19, p. 75 <http://estac12.org/download.php?f=../download/BoA%20ESTAC12.pdf>

### **Influence of waste products from electricity and cement industries on the thermal behaviour of Estonian clay from Kunda deposit**

**Kaljuvee, Tiit; Štubna, Igor; Hulan, Tomaš; Csaki, Štefan; Uibu, Mai; Jefimova, Jekaterina** Journal of thermal analysis and calorimetry 2019 / p. 2635–2650 : ill <https://doi.org/10.1007/s10973-019-08319-0> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Inkjet-printed hybrid conducting polymer-activated carbon aerogel linear actuators driven in an organic electrolyte**

Põdsalu, Inga; Harjo, Madis; Tamm, Tarmo; **Uibu, Mai**; Peikolainen, Anna-Liisa; Kiefer, Rudolf Sensors and actuators B : chemical 2017 / p. 44-51 : ill <https://doi.org/10.1016/j.snb.2017.04.138> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Insights into nonylphenol degradation by UV-activated persulfate and persulfate/hydrogen peroxide systems in aqueous matrices: a comparative study**

**Balpreet Kaur; Kattel, Eneliis; Dulova, Niina** Environmental science and pollution research 2020 / p. 22499–22510 <https://doi.org/10.1007/s11356-020-08886-y> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Insights into TiO<sub>2</sub> thin film photodegradation from Kelvin Probe AFM maps**

Olukan, Tuza; **Sydorenko, Jekaterina; Katerski, Atanas**; Al Mahri, Mariam; Lai, Chia-Yun; Al-Hagri, Abdulrahman; Santos, Sergio; **Chiesa, Matteo** Applied physics letters 2022 / art. 031901 <https://doi.org/10.1063/5.0098788> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Interaction of CuCl<sub>2</sub> with poly(ethylene glycol) under microwave radiation**

Tverjanovich, Andrey; Grevtsev, A. S.; **Bereznev, Sergei** Materials research express 2017 / art. 015006, p. 1-6 : ill <https://doi.org/10.1088/2053-1591/aa52d0> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **The interaction pathway in the mechano-ultrasonically assisted and carbon-nanotubes augmented nickel-aluminum system**

Nazaretyan, Khachik; Kirakosyan, Hasmik; **Volobujeva, Olga**; **Aydinyan, Sofiya** Metals 2022 / art. 436

<https://doi.org/10.3390/met12030436> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Intermolecular interaction of thermoresponsive poly(l-isopropylloxazoline) in solutions and interpolymer complex with fiber-forming polyethylene oxide**

Amirova, Alina; Rodchenko, Serafim; Kurlykin, Mikhail; Tenkovtsev, Andrey; **Krasnou, Illia**; **Krumme, Andres**; Filippov, Alexander

Journal of applied polymer science 2020 / art. 49708, 8 p <https://doi.org/10.1002/app.49708> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Investigating the possibilities for valorising phosphorite**

**Tamm, Kadriann** Yearbook 2018 / Geological Survey of Estonia 2019 / p. 30-32 : ill [https://www.egt.ee/sites/default/files/content-](https://www.egt.ee/sites/default/files/content-editors/aastaraamat/egt_aastaraamat_eng_web.pdf)

[editors/aastaraamat/egt\\_aastaraamat\\_eng\\_web.pdf](https://www.egt.ee/sites/default/files/content-editors/aastaraamat/egt_aastaraamat_eng_web.pdf) [https://www.ester.ee/record=b5231713\\*est](https://www.ester.ee/record=b5231713*est)

### **Investigation of dynamic mechanical properties of Estonian clay Arumetsa during firing**

Štubna, Igor; Hulan, Tomaš; **Kaljuvee, Tiit**; Vozár, Libor Applied clay science 2018 / p. 23-28 : ill

<https://doi.org/10.1016/j.clay.2017.11.038> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Investigation of efficient alkali treatment and the effect of flame retardant on the mechanical and fire performance of frost-retted hemp fiber reinforced PLA**

**Alao, Percy Festus**; **Press, Raimond**; **Kallakas, Heikko**; Ruponen, Jussi; **Poltimäe, Triinu**; **Kers, Jaan** Polymers 2022 / art. 2280

<https://doi.org/10.3390/polym14112280> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Investigation of influence of conductivity on the polyaniline fiber mats, produced via electrospinning**

Varnaite-Žuravliova, Sandra; **Savest, Natalja**; Abraitienė, Aušra; Baltušnikaite-Guzaitienė, Julija; **Krumme, Andres** Materials

Research Express 2018 / art. 055308 <https://doi.org/10.1088/2053-1591/aac4ea> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Investigation of mechanical and physicochemical properties of clinically retrieved titanium-niobium orthodontic archwires**

Stoyanova-Ivanova, Angelina; Cherneva, Sabina; Petrunov, Vladimir; Petrova, Violeta; Ilievska, Ivana; **Mikli, Valdek**; Iankov, Roumen

Acta of bioengineering and biomechanics 2020 / p. 31–39 <https://doi.org/10.37190/ABB-01486-2019-03> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Investigation of oxygen reduction on platinum nanoparticles deposited onto peat-derived carbon carrier**

Lobjakas, Viljar; Nerut, Jaak; Kasuk, Heili; Adamson, Anu; Thomborg, Thomas; Aruväli, Jaan; Valk, Peeter; Teppor, Patrick; Koppel, Mirjam; **Mikli, Valdek**; **Volobujeva, Olga**; **Lust, Enn** ECS Meeting Abstracts 2022 / p. 49-58 : ill

<https://doi.org/10.1149/10807.0049ecst> [Journal metrics at Scopus](#) [Article at Scopus](#)

### **Investigation of rough surfaces on Cu<sub>2</sub>ZnSn(S x Se 1-x) 4 monograin layers using light beam induced current measurements**

**Neubauer, Christian**; **Babatas, Ertug**; **Meissner, Dieter** Applied surface science 2017 / p. 465-468 : ill

<https://doi.org/10.1016/j.apsusc.2017.06.111> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Investigation of steam turbine blades damage and reliability in a power plant**

**Molodtsov, Artjom**; **Dedov, Andrei**; **Klevtsov, Ivan**; **Kommel, Lembit**; **Lausmaa, Toomas**; **Mikli, Valdek** Modern Materials and Manufacturing 2019 : 12th International DAAAM Baltic Conference and 27th International Baltic Conference BALTMATRIB 2019.

Selected, peer reviewed papers from the conference Modern Materials and Manufacturing 2019 (MMM 2019), April 24-26, 2019, Tallinn, Estonia 2019 / p. 89-94 : ill <https://www.scientific.net/KEM.799.89> [https://www.ester.ee/record=b5235278\\*est](https://www.ester.ee/record=b5235278*est)

<https://doi.org/10.4028/www.scientific.net/KEM.799.89> [Conference proceeding at Scopus](#) [Article at Scopus](#)

### **The investigation of the production of salt-added polyethylene oxide/chitosan nanofibers**

Varnaite-Žuravliova, Sandra; **Savest, Natalja**; Baltušnikaite-Guzaitienė, Julija; Abraitienė, Aušra; **Krumme, Andres** Materials 2024 / art. 132 <https://doi.org/10.3390/ma17010132> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Investigation of the solar cell materials Cu(In,Ga)Se<sub>2</sub> and Cu<sub>2</sub>ZnSnS<sub>4</sub> with muon spin spectroscopy and density-functional calculations**

Vilao, Rui C.; Marinopoulos, Apostolos G.; dos Santos, Diego Garcia; Alberto, Helena Vieira; Gil, Joao Campos; Mengyan, Patrick W.; **Kauk-Kuusik, Marit**; Lord, James; Weidinger, Alois Journal of applied physics 2024 / art. 055704

<https://doi.org/10.1063/5.0205837> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Ionic liquids recycling**

**Krasnou, Illia**; **Krumme, Andres** Baltic Polymer Symposium, BPS2023 : programme and abstracts 2023 / p. 17

**Iron and cobalt containing electrospun carbon nanofibre-based cathode catalysts for anion exchange membrane fuel cell**  
Sokka, Andri; Mooste, Marek; Käärrik, Maike; **Gudkova, Viktoria**; Kozlova, Jekaterina; Kikas, Arvo; Kisand, Vambola; Treshchalov, Alexey; Tamm, Aile; Paiste, Päärn; Aruväli, Jaan; Leis, Jaan; **Krumme, Andres**; Holdcroft, Steven; Cavaliere, Sara; Jaouen, Frederic; Tammeveski, Kaido International Journal of Hydrogen Energy 2021 / p. 31275-31287  
<https://doi.org/10.1016/j.ijhydene.2021.07.025> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Iron and cobalt phthalocyanine embedded electrospun carbon nanofiber-based catalysts for anion exchange membrane fuel cell cathode**  
Muuli, Kaur; Sokka, Andri; Mooste, Marek; Lilloja, Jaana; **Gudkova, Viktoria**; Käärrik, Maike; Otsus, Markus; Kikas, Arvo; Kisand, Vambola; Tamm, Aile; Leis, Jaan; **Krumme, Andres** Journal of Catalysis 2023 / p. 117-130 <https://doi.org/10.1016/j.jcat.2023.04.008>  
[Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Iron, cobalt, and nickel phthalocyanines tri-doped electrospun carbon nanofibre-based catalyst for rechargeable zinc-air battery air electrode**  
Muuli, Kaur; Rohit Kumar; Mooste, Marek; **Gudkova, Viktoria**; Treshchalov, Alexey; Piirsoo, Helle-Mai; Kikas, Arvo; Aruväli, Jaan; Kisand, Vambola; Tamm, Aile; **Krumme, Andres**; Moni, Prabu; Wilhelm, Michaela; Tammeveski, Kaido Materials 2023 / art. 4626  
<https://doi.org/10.3390/ma16134626> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Is Estonian phosphate rock easy to enrich?**  
Tamm, Kadriann Yearbook 2019 2020 / p. 29-31 : ill [Yearbook](#)

**Isolation of cellulose from wheat straw using Alkaline Hydrogen Peroxide and Acidified Sodium Chlorite treatments: comparison of yield and properties**  
**Qasim, Umair**; Ali, Zulfiqar; Nazir, Muhammad Shahid Advances in polymer technology 2020 / art. 9765950, 7 p. : ill  
<https://doi.org/10.1155/2020/9765950>

**A journey for the development of a highly active ptcec(cr3c2) catalyst: material selections, synthesis optimization and electrical measurements for methanol oxidation and oxygen reduction**  
Nguyen, Huy Quí Vinh; Nerut, Jaak; Kasuk, Heili; Thomborg, Thomas; Härmäs, Meelis; Härmäs, R.; Koppel, Miriam; Teppor, Patrick; Külaviir, Marian; Aruväli, Jaan; **Volobujeva, Olga**; Lust, Enn GSFMT Scientific Conference 2023 : Tartu, 23-24 May, 2023 : abstracts 2023 <https://fmdk.ut.ee/programm-2023/>

**Jõhker kogus ravimijääke jõuab meie kanalisatsiooni! Tehnikaülikooli teadlane Sergei Preis selgitab selle tagajärgi**  
**Preis, Sergei** digi.geenius.ee 2024 [Jõhker kogus ravimijääke jõuab meie kanalisatsiooni! Tehnikaülikooli teadlane Sergei Preis selgitab selle tagajärgi](#)

**K2CO3-containing composite sorbents based on a ZrO2 aerogel for reversible CO2 capture from ambient air**  
Veselovskaya, Janna; **Derevshchikov, Vladimir**; Shalygin, Anton S.; Yatsenko, Dmitry Microporous and Mesoporous Materials 2021 / art. 110624 <https://doi.org/10.1016/j.micromeso.2020.110624> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Ka klaasitais sooja kraanivett võib teha tervisele kahju**  
Michelson, Tarmo Maaleht 2024 / lk. 8-9 [https://dea.digar.ee/article/maaleht/2024/04/04/10.1\\_Ka\\_klaasitais\\_sooja\\_kraanivett\\_voib\\_teha\\_tervisele\\_kahju](https://dea.digar.ee/article/maaleht/2024/04/04/10.1_Ka_klaasitais_sooja_kraanivett_voib_teha_tervisele_kahju)

**21. sajandi keskkonnatehnoloogia väljakutse - mikrosasteained**  
**Trapido, Marina; Kattel, Eneliis** Teadusmõte Eestis (X). Tehnikateadused. 3 : [artiklikogumik] 2019 / lk. 190-199 : ill., fot  
[https://www.ester.ee/record=b5208765\\*est](https://www.ester.ee/record=b5208765*est)

**Kas Eesti fosforiiti on lihtne rikastada?**  
Tamm, Kadriann Aastaraamat 2019 2020 / lk. 28-29 : ill [https://www.egt.ee/sites/default/files/content-editors/aastaraamat/egt\\_aastaraamat\\_est\\_web\\_2019.pdf](https://www.egt.ee/sites/default/files/content-editors/aastaraamat/egt_aastaraamat_est_web_2019.pdf)

**Kas «killerikottidest» loobumine on ka tegelikult keskkonnale kasu toonud?**  
Lees, Merike postimees.ee 2023 [Kas «killerikottidest» loobumine on ka tegelikult keskkonnale kasu toonud?](#)

**Kas Kuul on elu? Jah, varsti – Eesti teadlaste kaasabiga!**  
Vill, Ants Director. Inseneeria 2022 / lk. 62-69 : fot [https://www.ester.ee/record=b1519314\\*est](https://www.ester.ee/record=b1519314*est) <https://director.ee/2022/01/13/kas-kuul-on-elu-jah-varsti-eesti-teadlaste-kaasabiga/> <https://doi.org/10.1016/j.tsf.2021.139068>

**Kas looduslikule nahale ja karusnahale on jätkusuutlikke asendusvariante?**  
Plamus, Tiia Eesti Loodus 2022 / lk. 64-65 : fot [http://www.ester.ee/record=b1072059\\*est](http://www.ester.ee/record=b1072059*est)

**Kas läbimurre põlevkivituhha kasutuses?**  
Kuusik, Rein, keemik Mente et Manu 2022 / lk. 27-29 : ill [https://www.ester.ee/record=b1242496\\*est](https://www.ester.ee/record=b1242496*est)

### **Kassikuld võib osutada elektroonikatööstuses kullast kallimaks**

Kristmann, Katriin novaator.err.ee 2024 [Kassikuld võib osutada elektroonikatööstuses kullast kallimaks](#)

### **Kaval keemia aitab fosforiidist välja pigistada haruldasi muldmetalle**

Alvela, Ain novaator.err.ee 2023 [Kaval keemia aitab fosforiidist välja pigistada haruldasi muldmetalle](#)

### **Keskkonnakaitse ülesanded**

2017 [http://www.ester.ee/record=b4772117\\*est](http://www.ester.ee/record=b4772117*est)

### **Keskkonnakasuga ehitusmaterjalidest**

Hurt, Kadri Kestlik Eesti Roheline jalajälg : Delfi Meedia As 2024 / lk. 14-16 [https://www.ester.ee/record=b5678518\\*est](https://www.ester.ee/record=b5678518*est) [Keskkonnakasuga ehitusmaterjalidest](#)

### **Kesterite monograins for solar cells and water splitting applications**

Oueslati, Souhaib; Pilvet, Maris; Grossberg, Maarja; Kauk-Kuusik, Marit; Krustok, Jüri; Meissner, Dieter Thin solid films 2021 / art. 138981 <https://doi.org/10.1016/j.tsf.2021.138981> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Kinetics of Estonian phosphate rock dissolution in hydrochloric acid**

Azeez, Ruhany Sheherazad; Tõnsuaadu, Kaia; Kaljuvee, Tiit; Trikkel, Andres Minerals 2024 / art. 322 <https://doi.org/10.3390/min14030322> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Kirjeldan praegu ühte üsna täiuslikku naist ehk insener-barbid rajavad teed**

Kristmann, Katriin postimees.ee 2024 [Kirjeldan praegu ühte üsna täiuslikku naist ehk insener-barbid rajavad teed](#)

### **Kleenukesed päikeseelemendid aitaks vältida ränipaneele ootavat kriisi**

Sibinski, Maciej novaator.err.ee 2024 [Kleenukesed päikeseelemendid aitaks vältida ränipaneele ootavat kriisi](#)

### **Kohalike omavalitsuste ringmajanduslike tegevuste hetkeseisu analüüs ja teekaartide koostamine : analüüsi aruanne**

Hurt, Ulrika; Piirimäe, Kristjan; Tuisk, Tarmo; Voronova, Viktoria; Dulova, Niina; Merisaar, Jaana; Kull, Margit; Niidu, Allan; Klõga, Marija; Pachel, Karin; Küttim, Merle 2023 <https://doi.org/10.11590/taltech.municipalities.circular.economy.roadmaps.report.2023>

### **Kolm Eesti ülikooli ja rida ettevõtteid loovad täiesti uusi puidupõhiseid materjale**

Kartau, Mari maaleht.delfi.ee 2023 [Kolm Eesti ülikooli ja rida ettevõtteid loovad täiesti uusi puidupõhiseid materjale](#) [Kolm Eesti ülikooli ja rida ettevõtteid loovad täiesti uusi puidupõhiseid materjale](#)

### **Koroona-impulss elektrilahendus kui õhupuhastuse tehnoloogia**

Bolobajev, Juri 2024 / lk. 30-32 : fot [https://www.ester.ee/record=b1242496\\*est](https://www.ester.ee/record=b1242496*est)

### **Kuhu küll kõik jäätmed said ehk laul tulevikust, kui jäätmeid enam ei tekigi**

digi.geenius.ee 2023 [Kuhu küll kõik jäätmed said ehk laul tulevikust, kui jäätmeid enam ei tekigi](#)

### **Kui hea karjääri tagab doktorikraad?**

digi.geenius.ee 2024 [Kui hea karjääri tagab doktorikraad?](#)

### **Kui läheks päikesele vastu ja jätaks varjud selja taha**

Grossberg-Kuusk, Maarja Sirp 2022 / lk. 36-37 : fot <https://sirp.ee/s1-artiklid/c21-teadus/kui-laheks-paikesele-vastu-ja-jataks-varjud-selja-taha/>

### **Kui mürgine on soe vesi?**

Vill, Ants Kodu & Ehitus : TM 2024 / lk. 47-50 : fot [https://www.ester.ee/record=b1740684\\*est](https://www.ester.ee/record=b1740684*est)

### **Kuidas pikendada päikeseplatari töövõimet ja eluiga?**

Eensalu, Jako Siim Ehitaja 2022 / lk. 24 : fot [https://www.ester.ee/record=b1072123\\*est](https://www.ester.ee/record=b1072123*est)

### **Kuidas saada roheline energia eksperdiks? Õppides TalTechi uues magistriprogrammis!**

Grossberg-Kuusk, Maarja; Timmo, Kristi delfi.ee 2025 <https://www.delfi.ee/artikkel/120372237/kuidas-saada-rohelise-energia-eksperdiks-oppides-taltech-i-ues-magistriprogrammis>

### **Kuus tudengit saavad RKAS-ilt kokku 21 000 eurot**

postimees.ee 2023 [Kuus tudengit saavad RKAS-ilt kokku 21 000 eurot](#)

### **Kübeke hõbedat vase asemele päikesepepüünisesse**

Vill, Ants Director. Inseneria 2021 / lk. 50-57 : fot <https://director.ee/2021/02/03/kubeke-hobedat-vase-asemele-paikesepepuunisesse/> [http://www.ester.ee/record=b2336521\\*est](http://www.ester.ee/record=b2336521*est)

**Laboratory and pilot plant scale study on the removal of radium, manganese and iron from drinking water using hydrous manganese oxide slurry**

**Bolobajev, Juri**; Leier, Maria; Vaasma, Taavi; Nilb, Nele; Salupere, Siiri Journal of environmental chemical engineering 2022 / art. 108942 <https://doi.org/10.1016/j.jece.2022.108942> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Large area bar coated TiO<sub>2</sub> electron transport layers for perovskite solar cells with excellent performance homogeneity**

**Mandati, Sreekanth**; Dileep, K. Reshma; Veerappan, Ganapathy; Ramasamy, Easwaramoorthi Solar Energy 2022 / p. 258-268 <https://doi.org/10.1016/j.solener.2022.04.060>

**Laser additively manufactured magnetic core design and process for electrical machine applications**

**Tiismus, Hans**; Kallaste, Ants; Vaimann, Toomas; Lind, Liina; Virro, Indrek; Rassõlkin, Anton; Dedova, Tatjana Energies 2022 / art. 3665 <https://doi.org/10.3390/en15103665> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Laste mööbel [Võrguteavik] : imikuvoodid : ohutusnõuded ja katsemeetodid = Children's furniture : cribs : safety requirements and test methods**

**Poltimäe, Triinu** 2019 [https://www.ester.ee/record=b5291269\\*est](https://www.ester.ee/record=b5291269*est)

**Layered structure of alumina/graphene-augmented-inorganic-nanofibers with directional electrical conductivity**

**Saffarshamshirgar, Ali**; Rojas Hernandez, Rocio Estefania; Mikli, Valdek; Karppinen, Maarit; Hussainova, Irina Carbon 2020 / p. 634-645 <https://doi.org/10.1016/j.carbon.2020.06.038> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Lead and nitrogen co-doped multi-walled carbon nanotube electrocatalyst for oxygen reduction reaction**

Zarmehri, Ehsan; Raudsepp, Ragle; Šmits, Krišjānis; Käämbre, Tanel; Šutka, Andris; Yörük, Can Rüstü; Zacs, Dzintars; Kruusenberg, Ivar Journal of The Electrochemical Society 2023 / art. 114505, 10 p. : ill <https://doi.org/10.1149/1945-7111/ad0072> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Lepp ja haab ei anna rämpsputitu, vaid väärtuslikku toorainet**

toostusuudised.ee 2024 [Lepp ja haab ei anna rämpsputitu, vaid väärtuslikku toorainet](#)

**Li@C60thin films : characterization and nonlinear optical properties**

Wolf, Mathias; Toyouchi, Shuichi; Walke, Peter R.; Umemoto, Kazuki; Masuhara, Akito; Fukumura, Hiroshi; Takano, Yuta; Yamada, Michio; Hirai, Kenji; Fron, Eduard; Uji-I, Hiroshi RSC Advances 2021 / p. 389 - 394 <https://doi.org/10.1039/d1ra08051b> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Liigne veetarbimine võib rikkuda põhjavee**

Gnadenteich, Uwe postimees.ee 2023 [Liigne veetarbimine võib rikkuda põhjavee](#)

**Lillekujulised kaadmiumseleniidi kristallid**

**Leinemann, Inga**; Altosaar, Mare; Volobujeva, Olga Horisont 2018 / lk. 18-19 : fot [https://www.ester.ee/record=b1072243\\*est](https://www.ester.ee/record=b1072243*est) <http://www.horisont.ee/arhiiv-2018/Horisont-6-2018.pdf>

**Local strain-induced band gap fluctuations and exciton localization in aged WS<sub>2</sub> monolayers**

**Krustok, Jüri**; Kaupmees, Reelika; Jaaniso, Raivo; Kiisk, Valter; Sildos, Ilmo; Li, B.; Gong, Y. AIP advances 2017 / art. 065005, 12 p. <https://doi.org/10.1063/1.4985299> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Long-term monitoring of water treatment technology designed for radium removal-removal efficiencies and NORM formation**

Hill, Liie; Suursoo, Siiri; Kiisk, Madis; Jantsikene, Alar; Munter, Rein Journal of radiological protection 2018 / 24 p. : ill <https://doi.org/10.1088/1361-6498/aa97f2> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Low processing temperatures explored in Sb<sub>2</sub>S<sub>3</sub> solar cells by close-spaced sublimation and analysis of bulk and interface related defects**

**Krautmann, Robert**; Spalatu, Nicolae; Josepson, Raavo; Nedzinskas, Ramunas; Kondrotas, Rokas; Gržibovskis, R.; Vembris, Aivars; Krunks, Malle; Oja Acik, Ilona Solar energy materials and solar cells 2023 / art. 112139, 9 p. : ill <https://doi.org/10.1016/j.solmat.2022.112139> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Low temperature time resolved photoluminescence in ordered and disordered Cu<sub>2</sub>ZnSnS<sub>4</sub> single crystals**

**Raadik, Taavi**; Krustok, Jüri; Kauk-Kuusik, Marit; Timmo, Kristi; Grossberg, Maarja; Ernits, Kaia; Bleuse, J. Physica B : condensed matter 2017 / p. 47-50 : ill <https://doi.org/10.1016/j.physb.2016.12.011> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Low-temperature synthesis of ZnO layers assisted by chemical processes**

**Polivtseva, Svetlana**; Dedova, Tatjana; Bereznev, Sergei; Kois, Julia; Tõnsuaadu, Kaia; Volobujeva, Olga; Juma, Albert Owino 12th European Symposium on Thermal Analysis and Calorimetry ESTAC 12 : 27-30 August 2018, Brasov, Romania : book of

**Lugeja küsib: miks katavad päikesepargid autoparklate asemel põllumaid?**

novaator.err.ee 2024 [Lugeja küsib: miks katavad päikesepargid autoparklate asemel põllumaid?](#)

**Lugeja küsib: miks kipuvad veetorud ära külmuma just ilma soojemaks minnes? [Võrguväljaanne]**

Kalda, Jaan; Mere, Arvo novaator.err.ee 2021 ["Lugeja küsib: miks kipuvad veetorud ära külmuma just ilma soojemaks minnes?"](#)

**Lugeja küsib: miks puit alati tumedamaks läheb? [Võrguväljaanne]**

novaator.err.ee 2021 / fot [Lugeja küsib: miks puit alati tumedamaks läheb?](#)

**Lõppsõna**

**Kuusik, Rein, keemik** 30 aastat Eesti Meestelaulu Seltsi Tallinna Meeskoori : 1989-2019 2019 / lk. 86

[https://www.ester.ee/record=b5280542\\*est](https://www.ester.ee/record=b5280542*est)

**Maailma suurima prahisaare pindala on Eestist 34 korda suurem. Eestlased panevad Euroopa plastivõitlusele öla alla**

Mölder, Henry arileht.delfi.ee 2023 [Maailma suurima prahisaare pindala on Eestist 34 korda suurem. Eestlased panevad Euroopa plastivõitlusele öla alla](#)

**Maarja Grossberg : Eestis tehtav teadus muudab päikesepaneelid tarbijale kättesaadavamaks**

Grossberg, Maarja heureka.postimees.ee 2019 / fot [Maarja Grossberg: Eestis tehtav teadus muudab päikesepaneelid tarbijale kättesaadavamaks](#)

**Maarja Grossberg ja Jüri Krustok: teadus areneb alati säästlikuma ja tõhusama poole**

Grossberg, Maarja; Krustok, Jüri Mente et Manu 2021 / lk. 12-17 : fot [Mente et Manu 2/2021](#)

**Maarja Grossberg-Kuusk: elu akadeemilisel rajal ja teekond tippteadusesse**

Grossberg-Kuusk, Maarja delfi.ee 2025 <https://arileht.delfi.ee/artikkel/120372392/maarja-grossberg-kuusk-elu-akadeemilisel-rajal-ja-teekond-tippeadusesse>

**Magnetic studies on spinel ferrite nanoparticles and bulk samples synthesized by citrate combustion route**

Dimri, Mukesh C.; Khanduri, H.; Agarwal, P.; Garg, V.; **Mere, A.**; Stern R. DAE Solid State Physics symposium 2019, 18–22 December 2019, Jodhpur, India 2020 / art. 030517 <https://doi.org/10.1063/5.0016823> [Journal metrics at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**Malle Krunks : kõige uhkem olen järelkasvu üle**

Krunks, Malle Mente et Manu 2018 / lk. 12-17 : fot <https://www.ttu.ee/ttu-uudised/ajaleht-mente-et-manu/mente-et-manu/>  
[http://www.ester.ee/record=b1242496\\*est](http://www.ester.ee/record=b1242496*est) [https://artiklid.elnet.ee/record=b2836021\\*est](https://artiklid.elnet.ee/record=b2836021*est)

**Mangaandioksiidi baasil tehnoloogia arendamine joogivee puhastamiseks**

Goi, Anna; Vaasma, T.; Suursoo, S.; Leier, M.; Nilb, N. XXXIV Eesti keemiapäevad : 100. aastapäeva teaduskonverentsi teesid 2019 / lk. 14 [https://www.ester.ee/record=b5208044\\*est](https://www.ester.ee/record=b5208044*est)

**Manganese-substituted kesterite thin-films for earth-abundant photovoltaic applications**

Trifiletti, Vanira; Frioni, Luigi; Tseberlidis, Giorgio; Vitiello, Elisa; **Danilson, Mati**; **Grossberg, Maarja**; Acciarri, Maurizio; Binetti, Simona; Marchionna, Stefano Solar energy materials and solar cells 2023 / art. 112247, 13 p. : ill  
<https://doi.org/10.1016/j.solmat.2023.112247> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Marketable products derived from aluminium-containing industrial wastes**

11. uluslararası alüminyum sempozyumu : bildiriler kitabı = 11th international aluminium symposium : proceedings book 2023 / p. 263-269 [http://www.alusist.com/Content/ALUS11\\_Bildiriler\\_Kitabi.pdf](http://www.alusist.com/Content/ALUS11_Bildiriler_Kitabi.pdf)

**Materials design and bonding : general discussion**

Agbenyeke, Raphael; Andreasen, Jens Wenzel; Benhaddou, Nada; Bowers, Jake W.; Breternitz, Joachim; Bär, Marcus; Dimitrievska, Mirjana; Fermin, David J.; Ganose, Alex; **Mandati, Sreekanth** Faraday Discussions 2022 / p. 375-404  
<https://doi.org/10.1039/D2FD90058K>

**Materjaliteadlane : tulevikus on päikesepaneelid juba ehitusmaterjalide sees [Võrguväljaanne]**

Grossberg, Maarja novaator.err.ee 2020 / audio [Materjaliteadlane: tulevikus on päikesepaneelid juba ehitusmaterjalide sees](#)

**MC technologies developed for waste materials**

Uibu, Mai; Viires, Regiina; Kuusik, Rein, keemik CO2 sequestration by ex-situ mineral carbonation 2017 / p. 91-131 : ill  
[https://doi.org/10.1142/9781786341600\\_0004](https://doi.org/10.1142/9781786341600_0004)

**Mechanical and physical properties of industrial hemp-based insulation materials**

Kallakas, Heikko; Närep, Merili; Närep, Aivo; **Poltimäe, Triinu**; **Kers, Jaan** Proceedings of the Estonian Academy of Sciences

**Mechanical and physical properties of thermally modified wood flour reinforced polypropylene composites [Online resource]**

**Kallakas, Heikko; Poltimäe, Triinu; Krumme, Andres; Kers, Jaan** Tartu Ülikooli ASTRA projekt PER ASPERA : Funktsionaalsed materjalid ja tehnoloogiad : [7-8 märts 2017, Tartu : teesid] 2017 / [1] p <http://fmdtk.ut.ee/teesid/>

**Mechanical properties and self-healing capacity of ultra high performance fibre reinforced concrete with alumina nano-fibres : tailoring ultra high durability concrete for aggressive exposure scenarios**

Cuenca, Estefania; D'Ambrosio, Leonardo; Lizunov, Dennis; **Tretjakov, Aleksei; Volobujeva, Olga**; Ferrara, Liberato Cement and concrete composites 2021 / art. 103956, 17 p <https://doi.org/10.1016/j.cemconcomp.2021.103956> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Mechanochemically driven covalent self-assembly of a chiral mono-biotinylated hemicucurbit[8]uril**

**Suut-Tuule, Elina; Jarg, Tatsiana; Tikker, Priit; Lootus, Ketren-Marlein; Martõnova, Jevgenija; Reitalu, Rauno; Ustrnül, Lukas; Ward, Jas S.; Rjabovs, Vitalijs; Shubin, Kirill; Nallaparaju, Jagadeesh Varma; Vendelin, Marko; Preis, Sergei; Öeren, Mario**; Rissanen, Kari; **Kananovich, Dzmitry; Aav, Riina** Cell reports physical science 2024 / art. 102161 <https://doi.org/10.1016/j.xcrp.2024.102161> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Mechanosynthesis of a bifunctional FeNi-N-C oxygen electrocatalyst via facile mixed-phase templating and preheating-pyrolysis**

Kosimov, Akmal; Yusibova, Gulnara; Wojsiat, Ivan Tito; Aruväli, Jaan; Käärik, Maike; Leis, Jaan; Paaver, Peeter; Vlassov, Sergei; Kikas, Arvo; Kisand, Vambola; Piirsoo, Helle-Mai; Kukli, Kaupo; Heinmaa, Ivo; **Kaljuvee, Tiit**; Kongi, Nadezda Journal of Materials Chemistry A 2023 / p. 335 - 342 <https://doi.org/10.1039/d3ta04580c> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Meie Eesti naised : Naisteadlased, kes parandavad tervist, vaimset heaolu, päikeseenergeetikat ja Eesti majandust**

**Velthut-Meikas, Agne; Bachmann, Maie; Leoste, Janika; Grossberg-Kuusk, Maarja; Kauk-Kuusik, Marit** goodnews.ee 2023 [Meie Eesti naised : Naisteadlased, kes parandavad tervist, vaimset heaolu, päikeseenergeetikat ja Eesti majandust](https://goodnews.ee/naisteadlased-kes-parandavad-tervist-vaimset-heaolu-paikeseenergeetikat-ja-eesti-majandust)

**Meie paberipuidule saaks rajada roheline Eesti majandusmootori**

**Kers, Jaan** Eesti Päevaleht 2021 / Lk. 3 <https://dea.digar.ee/article/eestipaevaleht/2021/06/15/3.6>

**Meie seast lahkus TTÜ õppejõud Rein Reiska 07.03.1939-07.07.2020**

Eesti Päevaleht 2020 / lk. 15 <https://dea.digar.ee/article/eestipaevaleht/2020/07/09/21.2> [https://www.ester.ee/record=b1072079\\*est](https://www.ester.ee/record=b1072079*est)

**Metal-doped organic aerogels for photocatalytic degradation of trimethoprim**

**Bolobajev, Juri; Kask, Maarja; Kreek, Kristiina; Kulp, Maria; Koel, Mihkel; Goi, Anna** Chemical engineering journal 2019 / p. 120-128 : ill <https://doi.org/10.1016/j.cej.2018.09.127> Tehnikaülikooli teadlaste meetod aitab puhastada reovett antibiootikumijääkidest <https://keskkonnatehnika.ee/reovee-puhastamine-kasutades-aerogeele/> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**A method for producing conductive graphene biopolymer nanofibrous fabrics by exploitation of an ionic liquid dispersant in electrospinning**

**Javed, Kashif; Krumme, Andres; Viirsalu, Mihkel; Krasnou, Illia; Plamus, Tiia; Vassiljeva, Viktoria; Tarasova, Elvira; Savest, Natalja; Mere, Arvo; Mikli, Valdek; Danilson, Mati; Kaljuvee, Tiit; Lange, Sven** Carbon 2018 / p. 148-156 : ill <https://doi.org/10.1016/j.carbon.2018.08.034> <https://novaator.err.ee/873101/ttu-teadlaste-arendatud-tselluloosikangaga-saab-vajadusel-laadida-telefoni> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Microplastics and plasticizers in Estonian wastewater treatment plants**

**Ayankunle, Ayankoya Yemi; Buhhalko, Natalja; Pachel, Karin; Lember, Erki**; Heinlaan, Margit PRIMO22 : book of abstracts 2024 / p. 154 [https://primo22.org/wp-content/uploads/2024/05/PRIMO22-Book\\_of\\_abstracts.pdf](https://primo22.org/wp-content/uploads/2024/05/PRIMO22-Book_of_abstracts.pdf)

**Microstructure and physical-mechanical properties evolution of pure tantalum processed with hard cyclic viscoplastic deformation**

**Kommel, Lembit; Omranpour Shahreza, Babak; Mikli, Valdek** International journal of refractory metals and hard materials 2019 / art. 104983, 10 p. : ill <https://doi.org/10.1016/j.jrmhm.2019.104983> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Microstructure evolution of TiC cermets with ferritic AISI 430L steel binder**

**Kolnes, Märt; Mere, Arvo; Kübarsepp, Jakob; Viljus, Mart; Maaten, Birgit; Tarraste, Marek** Powder metallurgy 2018 / p. 197-209 : ill <https://doi.org/10.1080/00325899.2018.1447268> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Microwave pyrolysis of cattle manure : initiation mechanism and product characteristics**

Tabakaev, Roman; Kalinich, Ivan; Mostovshchikov, Andrei; Dimitryuk, Igor; Asilbekov, Askar; Ibraeva, Kanipa; Gaidabrus, Mariya; Shanenkov, Ivan; Rudmin, Maxim; Yazykov, Nikolay; **Preis, Sergei** Biomass Conversion and Biorefinery 2024 / p. 26193-26204  
<https://doi.org/10.1007/s13399-023-04686-9> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Mida ootab teadlastelt pakenditööstus?**

**Krumme, Andres** Mente et Manu 2024 / lk. 26-27 : fot [https://www.ester.ee/record=b1242496\\*est](https://www.ester.ee/record=b1242496*est)

### **Mida sisaldab voodipesu**

**Plamus, Tiia** Maakodu 2017 / lk. 27 [https://www.ester.ee/record=b1072539\\*est](https://www.ester.ee/record=b1072539*est) <https://maakodu.delfi.ee/artikkel/76790776/mida-sisaldab-voodipesu-vaata-jarele>

### **Miks just puit on Hiumaa tulevikumaterjal?**

**Kers, Jaan** Hiiu Leht 2023 [Miks just puit on Hiumaa tulevikumaterjal?](#)

### **Miks kõõgis kasutatav plast on endiselt valdavalt naftapõhine?**

Arndt-Kalju, Margit Oma Maitse 2024 / lk. 33-36 : fot [https://www.ester.ee/record=b2069719\\*est](https://www.ester.ee/record=b2069719*est)

### **Miks kõõgis kasutatav plast on endiselt valdavalt naftapõhine?**

Arndt-Kalju, Margit omamaitse.delfi.ee 2024 [Miks kõõgis kasutatav plast on endiselt valdavalt naftapõhine?](#)

### **Miks puidu rafineerimise teine tulek võiks ja peaks õnnestuma?**

**Kers, Jaan** Äripäev 2021 / Lk. 18 : ill [https://www.ester.ee/record=b2952033\\*est](https://www.ester.ee/record=b2952033*est)

### **Milleks meile uued päikesepaneelitehnoloogiad?**

**Grossberg, Maarja** Sirp 2020 / lk. 33-34 : fot <https://sirp.ee/s1-artiklid/c21-teadus/milleks-meile-uued-paikesepaneelitehnoloogiad/>

### **Milline pann osta? Kas odav pann teeb töö ära sama hästi kui kallis?**

Arndt-Kalju, Margit; Kirikal, Siiri; Skuin, Mari; Tarkmeel, Krõõt delfi.ee 2023 [Milline pann osta? Kas odav pann teeb töö ära sama hästi kui kallis?](#)

### **Millisest materjalist valmistada kaitsemask?**

Maaleht Targu Talita : Maalehe nõuandelisa : [ilmub koos Maalehega] 2020 / Lk. 318 [https://www.ester.ee/record=b1073018\\*est](https://www.ester.ee/record=b1073018*est)

### **Mineral sequestration of CO2 from Vernasca Ca-looping demo system : scale up to a pilot**

**Usta, Mustafa Cem; Uibu, Mai; Yörük, Can Rüstü; Tamm, Kadriann; Kuusik, Rein, keemik; Trikkel, Andres;** Gastaldi, Daniela; Canonico, Fulvio Proceedings of the 15th Greenhouse Gas Control Technologies Conference 15-18 March 2021 2021 / 12 p.: ill  
<https://ssrn.com/abstract=3812245> <https://doi.org/10.2139/ssrn.3812245>

### **Mineral trapping of CO2 for cement industry de-carbonization**

**Uibu, Mai; Usta, Mustafa Cem; Tamm, Kadriann; Žuravljova, Anastassia; Kallas, Juha; Kuusik, Rein, keemik; Trikkel, Andres** 14th Greenhouse Gas Control Technologies Conference Melbourne 21-26 October 2018 (GHGT-14) 2019 / 8 p. : ill  
<https://ssrn.com/abstract=3365766>

### **Mineral trapping of CO2 in oil shale industry**

**Tamm, Kadriann; Uibu, Mai; Žuravljova, Anastassia; Usta, Mustafa Cem; Leier, Ae; Kallas, Juha; Kuusik, Rein, keemik; Trikkel, Andres** <https://www.ttu.ee/asutused/polevkivi-kompetentsikeskus> 2018 / Poster <https://www.ttu.ee/asutused/polevkivi-kompetentsikeskus/konverentsid-ja-koolitused/polevkivikonverentsid/2018-6/posterettekanded/>

### **MIP-based electrochemical sensor for direct detection of hepatitis C virus via E2 envelope protein**

**Antipchik, Mariia; Reut, Jekaterina; Ayankojo, Akinrinade George; Öpik, Andres; Sõritski, Vitali** Talanta 2022 / art. 123737  
<https://doi.org/10.1016/j.talanta.2022.123737> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **MIP-based electrochemical sensors detecting antibiotics and fungicides as emerging contaminants in aqueous environments**

**Nguyen, Vu Bao Chau; Ayankojo, Akinrinade George; Reut, Jekaterina; Sõritski, Vitali** 11th international workshop on surface modification for chemical and biochemical sensing : program and the book of abstracts 2023 / p. 78

### **Mitmekütuseline Wankelmootor ehk Wankelmootor vol 2**

**Gregor, Andre** Director. Inseneeria 2018 / lk. 100-104 : fot [http://www.ester.ee/record=b2336521\\*est](http://www.ester.ee/record=b2336521*est)  
[https://artiklid.elnet.ee/record=b2862642\\*est](https://artiklid.elnet.ee/record=b2862642*est)

### **Mitoquinol mesylate alleviates oxidative damage in cirrhotic and advanced hepatocellular carcinogenic rats through mitochondrial protection and antioxidative effects**

Sulaimon, Lateef Adegboyega; Adisa, Rahmat Adetutu; Samuel, Titilola A.; Abdulkareem, Fatimah Biade; **Ayankojo, Akinrinade George** Advances in Redox Research 2021 / art. 100014 <https://doi.org/10.1016/j.arres.2021.100014>

### **Modelling continuous process for precipitated calcium carbonate production from oil shale ash**

Tamm, Kadriann; Kallas, Juha; Kuusik, Rein, keemik; Uibu, Mai Energy procedia 2017 / p. 5409-5416 : ill <https://doi.org/10.1016/j.egypro.2017.03.1685> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **Modelling of Cu<sub>2</sub>ZnSnSe<sub>4</sub>-CdS-ZnO thin film solar cell**

Ben Messaoud, Khaled; Brammertz, Guy; Buffière, Marie; Oueslati, Souhaib Materials research express 2017 / art. 116403, 13 p. : ill <http://dx.doi.org/10.1088/2053-1591/aa94f3>

### **Modification of the optoelectronic properties of Cu<sub>2</sub>CdSnS<sub>4</sub> through low-temperature annealing**

Pilvet, Maris; Kauk-Kuusik, Marit; Grossberg, Maarja; Raadik, Taavi; Mikli, Valdek; Traksmäa, Rainer; Raudoja, Jaan; Timmo, Kristi; Krustok, Jüri Journal of alloys and compounds 2017 / p. 820-825 : ill <https://doi.org/10.1016/j.jallcom.2017.06.307> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Modification of the optoelectronic properties of Sb<sub>2</sub>Se<sub>3</sub> absorber material for photovoltaic applications = Päikesepatarei absorbermaterjali Sb<sub>2</sub>Se<sub>3</sub> optoelektronsete omaduste muutmine**

Uslu, Mehmet Ender 2025 [https://www.esteeer.com/record=b5712268\\*est](https://www.esteeer.com/record=b5712268*est) <https://digikogu.taltech.ee/et/Item/26bc364a-9424-4811-ad7f-4268ab02bc6e> <https://doi.org/10.23658/taltech.65/2024>

### **Molecular mechanism of mitochinone mesylate in mitigating the progression of hepatocellular carcinoma - in silico and in vivo studies**

Sulaimon, Lateef Adegboyega; Adisa, Rahmat Adetutu; Samuel, Titilola Aderonke; Joel, Ireoluwa Yinka; Ayankojo, Akinrinade George; Abdulkareem, Fatimah Biade; Olaniyi, Timothy Olajire Journal of Cellular Biochemistry 2021 / p. 1157-1172 <https://doi.org/10.1002/jcb.29937> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Molecular properties of comb-shaped maleimide copolymers in dilute solutions : effect of alkyl side chains**

Tarabukina, Elena; Tarasova, Elvira; Filippov, Alexander Polymer Science, Series A 2022 / p. 261-269 <https://doi.org/10.1134/S0965545X22700134> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Molecularly imprinted co-polymer for class-selective electrochemical detection of macrolide antibiotics in aqueous media**

Nguyen, Vu Bao Chau; Ayankojo, Akinrinade George; Reut, Jekaterina; Rappich, Jörg; Furchner, Andreas; Hinrichs, Karsten; Söritski, Vitali Sensors and actuators B : chemical 2023 / art. 132768, 9 p. : ill <https://doi.org/10.1016/j.snb.2022.132768> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Molecularly imprinted macroporous polymer monolithic layers for L-phenylalanine recognition in complex biological fluids**

Antipchik, Mariia; Dzhuzha, Apollinariia; Sirovov, Vasilii; Tenukova, Tatiana; Korzhikova-Vlakh, Evgenia Journal of applied polymer science 2021 / art. e50070 <https://doi.org/10.1002/app.50070>

### **Molecularly imprinted polymer as a selective recognition element for detection of azoxystrobin in aqueous media**

Nguyen, Vu Bao Chau; Reut, Jekaterina; Söritski, Vitali Baltic Polymer Symposium, BPS2023 : programme and abstracts 2023 / p. 28 [Molecularly imprinted polymer as a selective recognition element for detection of azoxystrobin in aqueous media](#)

### **Molecularly imprinted polymer based electrochemical sensor for quantitative detection of SARS-CoV-2 spike protein**

Ayankojo, Akinrinade George; Boroznjak, Roman; Reut, Jekaterina; Öpik, Andres; Söritski, Vitali Sensors and Actuators B: Chemical 2022 / Art. 131160 <https://doi.org/10.1016/j.snb.2021.131160> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Molecularly imprinted polymer-based electrochemical sensor for detection of azoxystrobin in aqueous media**

Nguyen, Vu Bao Chau; Reut, Jekaterina; Söritski, Vitali Graduate school of functional materials and technologies scientific conference 2023 2023 / 1 p <http://fntdk.ut.ee/wp-content/uploads/2023/05/Nguyen.pdf>

### **Molecularly imprinted polymer-based electrochemical sensor for the detection of azoxystrobin in aqueous media**

Nguyen, Vu Bao Chau; Reut, Jekaterina; Rappich, Jörg; Hinrichs, Karsten; Söritski, Vitali Polymers 2024 / art. 1394 <https://doi.org/10.3390/polym16101394> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Molecularly imprinted polymer-based SAW sensor for label-free detection of cerebral dopamine neurotrophic factor protein**

Kidakova, Anna; Boroznjak, Roman; Reut, Jekaterina; Öpik, Andres; Saarma, Mart; Söritski, Vitali Sensors and actuators B : chemical 2020 / art. 127708, 8 p. : ill <https://doi.org/10.1016/j.snb.2020.127708> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Molecularly imprinted polymer-based sensor for electrochemical detection of erythromycin**

Ayankojo, Akinrinade George; Reut, Jekaterina; Ciocan, Valeriu; Öpik, Andres; Söritski, Vitali Talanta 2020 / art. 120502, 9 p. : ill <https://doi.org/10.1016/j.talanta.2019.120502> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Molecularly imprinted polymer-based sensor for label-free detection of a neurotrophic factor protein - cerebral dopamine**

#### neurotrophic factor

**Kidakova, Anna; Boroznjak, Roman; Reut, Jekaterina; Öpik, Andres; Sõritski, Vitali** The 10th International Conference on Molecular Imprinting, Jerusalem, Israel, June 24-28, 2018 : [abstracts] 2018 / 1 p  
<https://events.eventact.com/programview2/Agenda/Lecture/174899?code=3666033>

#### Molecularly Imprinted Polymer-modified Electrodes for Electrochemical Sensing of Emerging Aqueous Pollutants = Molekulaarselt jäljendatud polümeeriga modifitseeritud elektroodid esilekerkivate veesaasteainete elektrokeemiliseks tuvastamiseks

**Nguyen, Vu Bao Chau** 2025 [https://www.ester.ee/record=b5758187\\*est](https://www.ester.ee/record=b5758187*est) <https://digikogu.taltech.ee/et/Item/0bef1a7a-5369-4053-9eab-af6bd9bcb11b> <https://doi.org/10.23658/taltech.64/2025>

#### Molecularly imprinted polymers as advanced sensing materials for detection of neurotrophic factor proteins

**Reut, Jekaterina; Kidakova, Anna; Boroznjak, Roman; Öpik, Andres; Sõritski, Vitali** 6th International Conference on Bio-Sensing Technology, 16-19 June 2019, Kuala Lumpur, Malaysia : program 2019 / P2.64  
<https://www.elsevier.com/events/conferences/international-conference-on-bio-sensing-technology>

#### Molecularly imprinted polymers as synthetic antibodies for neurotrophic factor proteins detection.

**Kidakova, Anna; Boroznjak, Roman; Reut, Jekaterina; Öpik, Andres; Sõritski, Vitali** Baltic Polymer Symposium 2019 : Vilnius, Lithuania, 18-20 September 2019 : programme and proceedings 2019 / p. 44 [Molecularly imprinted polymers ...](#)

#### Molecularly imprinted polymers designed to detect antibiotic pollutants in water = Molekulaarselt jäljendatud polümeerid antibiootikumide määramiseks vesikeskkonnas

**Ayankojo, Akinrinade George** 2018 <https://digi.lib.ttu.ee/i/?9952> [https://www.ester.ee/record=b5056541\\*est](https://www.ester.ee/record=b5056541*est)

#### Molecularly imprinted polymers interfaced with label-free transducers : towards development of chemosensors for medical diagnostics and environmental monitoring

**Sõritski, Vitali** SMCBS'2019 : the 9th International Workshop on Surface Modification for Chemical and Biochemical Sensing, Żelechów (near Warsaw), Poland, 8-12 November, 2019 : programme & book of abstracts 2019 / p. 122 : ill  
[https://www.smcbs2019.pl/\\_ftp/SMCBS2019\\_Book\\_of\\_abstracts.pdf](https://www.smcbs2019.pl/_ftp/SMCBS2019_Book_of_abstracts.pdf)

#### Molecularly imprinted polymers: towards development of chemosensors for medical diagnostics and environmental monitoring

**Sõritski, Vitali** XV Loodusteaduskonna Teaduskonverents 2023 / 34 p. <https://taltech.ee/loodusteaduskond/teaduskonna-teaduskonverents> <https://doi.org/10.48726/1y9d6-46543>

#### Molecularly imprinted poly(meta-phenylenediamine) based QCM sensor for detecting Amoxicillin

**Ayankojo, Akinrinade George; Reut, Jekaterina; Boroznjak, Roman; Öpik, Andres; Sõritski, Vitali** Sensors and actuators B : chemical 2018 / p. 766-774 : ill <https://doi.org/10.1016/j.snb.2017.11.194> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### Molekulaarselt jäljendatud polümeerid: kaasaegsed biomimeetilised sensormaterjalid meditsiiniliseks diagnostikaks ja keskkonnaseireks

**Sõritski, Vitali** Eesti Vabariigi preemiad 2023 : teadus. F. J. Wiedemanni keeleauhind. Sport. Kultuur. Haridus 2023 / lk. 92-107  
<https://doi.org/10.3176/evp.2023.05> [https://www.ester.ee/record=b1226072\\*est](https://www.ester.ee/record=b1226072*est)

#### Monograin layer solar cell for future lunar outpost

**Kristmann, Katriin; Altosaar, Mare; Raudoja, Jaan; Grossberg, Maarja; Krustok, Jüri; Raadik, Taavi** IAC 2020 congress proceedings Proceedings of the International Astronautical Congress, IAC 2020 / 7 p. : ill [Monograin layer solar cell for future lunar outpost](#) <https://dl.iafastro.directory/event/IAC-2020/paper/56905/> [Conference proceeding at Scopus](#) [Article at Scopus](#)

#### Monograin membranes as artificial thylakoid membranes [Online resource]

**Samiepour, Ali; Kouhiisfahani, Elham;** Morawietz, Tobias; Hiesgen, Renate; **Meissner, Dieter** Tartu Ülikooli ASTRA projekt PER ASPERA : Funktsionaalsed materjalid ja tehnoloogiad : [7-8 märts 2017, Tartu : teesid] 2017 / [1] p. : ill <http://fntdk.ut.ee/teesid/>

#### Mo(Si1-x,Alx)2-based composite by reactive laser powder-bed fusion

**Minasyan, Tatevik; Aydinyan, Sofiya; Liu, Le; Volobujeva, Olga;** Toyserkani, Ehsan; **Hussainova, Irina** Materials letters 2020 / art. 128776, 5 p. : ill <https://doi.org/10.1016/j.matlet.2020.128776> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### Multifractal analysis of high-temperature plasma irradiated tungsten surfaces

**Martsepp, Merike; Laas, Tõnu; Laas, Katrin; Priimets, Jaanis; Mikli, Valdek; Antonov, Maksim** Surface topography : metrology and properties 2021 / 13 p. : ill <https://doi.org/10.1088/2051-672X/ac1dc3> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### Multifractal defects versus non-defects in surface analysis

**Martsepp, Merike; Laas, Tõnu; Tõkke, Siim; Mikli, Valdek** Graduate School of Functional Materials and Technology (GSFMT) Scientific Conference : abstracts 2022 / 37 l. [Graduate School of Functional Materials and Technology \(GSFMT\) Scientific Conference 2022](#)

### **A multi-layer Cu:Ga/In sputtered precursor to improve structural properties of CIGS absorber layer**

Misra, Prashant; **Mandati, Sreekanth**; Rao, Tata Naransinga; Sarada, Bulusu V. Materials today: proceedings 2021 / p. 2037-2041 : ill <https://doi.org/10.1016/j.matpr.2020.09.545>

### **Multiphysic Analysis of High Power Microwave Filter Using High Performance Aluminium Alloy**

Martin-Iglesias, P.; Laso, M.A.G.; **Raadik, Taavi**; Teberio, F.; Percas, J.M.; Martin-Iglesias, S.; Pambaguian, L.; Lopetegui, T. 2019 IEEE MTT-S International Microwave Workshop Series on Advanced Materials and Processes for RF and THz Applications, July 16-18, 2019 Bochum, Germany : proceedings 2019 / p 58-60 <https://doi.org/10.1109/IMWS-AMP.2019.8880080>

### **Multi-purpose heterogeneous catalyst material from an amorphous cobalt metal-organic framework**

**Ping, Kefeng**; **Alam, Mahboob**; **Kahnert, Sean Ray**; **Bhadoria, Rohit**; **Mere, Arvo**; **Mikli, Valdek**; Käär, Maike; Aruväli, Jaan; Paiste, Päärn; Kikas, Arvo; Kisand, Vambola; **Järving, Ivar**; Leis, Jaan; Kongi, Nadežda; **Starkov, Pavel** Materials advances 2021 / p. 4009-4015 <https://doi.org/10.1039/D1MA00414J> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Multiscale study of carbon dioxide chemisorption in the plug flow adsorber of the anesthesia machine**

**Derevshchikov, Vladimir**; Kazakova, Evgenia; Yatsenko, Dmitry; Veselovskaya, Janna Separation science and technology 2021 / p. 485-497 <https://doi.org/10.1080/01496395.2020.1723029> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Multi-sensor fault diagnosis of induction motors using random forests and support vector machine**

Saberi, Alireza Nemat; Sandirasegaram, Sarvavignoban; **Belahcen, Anouar**; **Vaimann, Toomas**; Sobra, Jan 2020 International Conference on Electrical Machines (ICEM), 23-26 august 2020, Gothenburg, Sweden : online : proceedings 2020 / p. 1404-1410 <https://doi.org/10.1109/ICEM49940.2020.9270689>

### **Mõttetu tuhk või väärtuslik teemant?**

Alvela, Ain Tehnikamaailm 2018 / lk. 80-84 : fot [http://www.ester.ee/record=b1073050\\*est](http://www.ester.ee/record=b1073050*est) [http://artiklid.elnet.ee/record=b2834540\\*est](http://artiklid.elnet.ee/record=b2834540*est)

### **Mägesid liigutav innovatsioon**

Uibu, Mai Trialoog 2025 <https://trialoog.taltech.ee/magesid-liigutav-innovatsioon/>

### **Mööbel : haridusasutuste toolid ja laudad. Osa 2, Ohutusnõuded ja katsemeetodid = Furniture : chairs and tables for educational institutions. Part 2, Safety requirements and test methods**

2023 [https://www.ester.ee/record=b5568355\\*est](https://www.ester.ee/record=b5568355*est)

### **Mööbel : istmed : püstivuse määramine = Furniture : seating : determination of stability**

2024 [https://www.ester.ee/record=b5675283\\*est](https://www.ester.ee/record=b5675283*est)

### **Mööbel : narivoodid ja kõrged voodid. Osa 1, Ohutuse, tugevuse ja vastupidavuse nõuded = Furniture : bunk beds and high beds. Part 1, Safety, strength and durability requirements**

2024 [https://www.ester.ee/record=b5675297\\*est](https://www.ester.ee/record=b5675297*est)

### **Mööbel : narivoodid ja kõrged voodid. Osa 2, Katsemeetodid = Furniture : bunk beds and high beds. Part 2, Test methods**

2024 [https://www.ester.ee/record=b5675305\\*est](https://www.ester.ee/record=b5675305*est)

### **Mööbel : ohutus, tugevus ja vastupidavus : nõuded koduistmetele = Furniture : safety, strength and durability : requirements for domestic seating**

2024 [https://www.ester.ee/record=b5713872\\*est](https://www.ester.ee/record=b5713872*est)

### **Mööbel : ohutus, tugevus ja vastupidavus : nõuded kodulaudadele = Furniture : safety, strength and durability : requirements for domestic tables**

2023 [https://www.ester.ee/record=b5651639\\*est](https://www.ester.ee/record=b5651639*est)

### **Mööbli kavandamine, konstrueerimine, seotised ja furnituur**

**Kers, Jaan**; **Kiiman, Karmo** Puidutöötlemise õpik 2025 / lk. 546-602 : ill [https://www.ester.ee/record=b5714083\\*est](https://www.ester.ee/record=b5714083*est) <https://digikogu.taltech.ee/et/Item/32f67368-0b3f-4f3d-9c57-26b8d9d7bc93>

### **Nafion protective membrane enables using ruthenium oxide electrodes for pH measurement in milk**

**Lazouskaya, Maryna**; **Scheler, Ott**; **Mikli, Valdek**; Uppuluri, Kiranmai; Zaraska, Krzysztof; Tamm, Martti Journal of The Electrochemical Society 2021 / art. 107511, 12 p. : ill <https://doi.org/10.1149/1945-7111/ac2d3c> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Naisteadlasi kütkestab vaheldusrikkus ja võimalus maailma muuta**

**Grossberg-Kuusk, Maarja**; **Volkova, Anna**; **Miller, Annette**; **Roos, Kristine**; **Tammik, Mari-Liis**; **Kuhi-Thalfeldt, Reeli**; **Avarmaa, Mari**; **Stein, Mari-Klara** novaator.err.ee 2023 [Naisteadlasi kütkestab vaheldusrikkus ja võimalus maailma muuta](#)

### **Nanoindentation and surface characterization of clinically retrieved multi-force niti orthodontic archwires**

Cherneva, Sabina; Stoyanova-Ivanova, Angelina K.; Georgieva, Mirela; Andreeva, Laura A.; Petkov, Alexander; Petrov, Valeri G.; Petrova, Violeta P.; **Mikli, Valdek** Russian Journal of Biomechanics 2020 / p. 240-256 <https://doi.org/10.15593/RJBiomech/2020.3.02> <https://ered.pstu.ru/index.php/rjb/article/view/2303> [Journal metrics at Scopus](#) [Article at Scopus](#)

### **Nanokiulised materjalid**

**Krumme, Andres; Viikna, Anti; Plamus, Tiia; Viirsalu, Mihkel** Teadusmõtte Eestis (X). Tehnikateadused. 3 : [artiklikogumik] 2019 / lk. 75-84 : ill., fot [https://www.ester.ee/record=b5208765\\*est](https://www.ester.ee/record=b5208765*est)

### **Nano-scale sulfurization of the Cu<sub>2</sub>ZnSnSe<sub>4</sub> crystal surface for photovoltaic applications**

**Kauk-Kuusik, Marit; Li, Xiaofeng; Pilvet, Maris; Timmo, Kristi; Mikli, Valdek; Kaupmees, Reelika; Danilson, Mati; Grossberg, Maarja** Journal of materials chemistry A 2019 / p. 24884-24890 : ill <https://doi.org/10.1039/C9TA08020A> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Nationwide review of heavy metals in municipal sludge wastewater treatment plants in China: Sources, composition, accumulation and risk assessment**

Cheng, Xiaoqian; Wei, Cong; Ke, Xiong; Pan, Jiamin; Wei, Gengrui; Chen, Yao; Wei, Chaohai; Li, Fusheng; **Preis, Sergei** Journal of hazardous materials 2022 / art. 129267 <https://doi.org/10.1016/j.jhazmat.2022.129267> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Natural weathering of bio-based façade materials**

**Alao, Percy Festus; Visnapuu, Kevin; Kallakas, Heikko; Poltimäe, Triinu; Kers, Jaan** Forests 2020 / art. 642, 12 p. : ill <https://doi.org/10.3390/f11060642> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **New antimicrobial CU(II)-polytungstate/polylactic acid films**

**Duvanov, Ella; Krasnou, Illia; Knyzhnyk, Ivan; Radio, Serhii V.; Karpichev, Yevgen** Graduate School of Functional Materials and Technology (GSFMT) Scientific Conference : abstracts 2022 / 15 l. [Graduate School of Functional Materials and Technology \(GSFMT\) Scientific Conference 2022](#)

### **New carbon-based catalyst synthesis from spent li-ion batteries for electrochemical oxygen reduction**

Kazemi, Maryam; Liivand, Kerli; Kruusenberg, Ivar; **Walke, Peter; Mikli, Valdek; Uibu, Mai**; Macdonald, Digby D. GSFMT Scientific Conference 2021 : Tartu, June 14-15, 2021 : abstracts 2021 / P 42 [https://fmdtk.ut.ee/wp-content/uploads/2021/06/GSFMT\\_abstractbook\\_2021.pdf](https://fmdtk.ut.ee/wp-content/uploads/2021/06/GSFMT_abstractbook_2021.pdf)

### **A new perspective on fluorapatite dissolution in hydrochloric acid : thermodynamic calculations and experimental study**

**Tõnsuaadu, Kaia; Kallas, Juha; Kuusik, Rein; keemik; Hacıalioglu-Erlenheim, Gizem; Triikkel, Andres** Inorganics 2021 / art. 65, 11 p. : ill <https://doi.org/10.3390/inorganics9080065> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Nickel and nitrogen-doped bifunctional ORR and HER electrocatalysts derived from CO<sub>2</sub>**

Rommel, Anna-Liis; Ratso, Sander; Divitini, Giorgio; **Danilson, Mati; Mikli, Valdek; Uibu, Mai**; Aruväli, Jaan; Kruusenberg, Ivar ACS Sustainable Chemistry and Engineering 2022 / p. 134-145 <https://doi.org/10.1021/acssuschemeng.1c05250> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Nickel oxide films by chemical spray : effect of deposition temperature and solvent type on structural, optical, and surface properties**

**Chen, Zengjun; Dedova, Tatjana; Oja Acik, Ilona; Danilson, Mati; Krunk, Malle** Applied surface science 2021 / art. 149118 <https://doi.org/10.1016/j.apsusc.2021.149118> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Nii kutsehariduskeskus kui ka kolledž on valmis õpetama puidukeemiat**

Sommer-Kalda, Sirle Põhjarannik 2023 / Lk. 6 <https://dea.digar.ee/article/pohjarannik/2023/02/09/10.3>

### **Niobium doped TiO<sub>2</sub> films by chemical spray pyrolysis [Online resource]**

**Dündar, Ibrahim; Oja Acik, Ilona; Mere, Arvo; Katerski, Atanas; Krunk, Malle; Mikli, Valdek** Tartu Ülikooli ASTRA projekt PER ASPERA : Funktsionaalsed materjalid ja tehnoloogiad : [7-8 märts 2017, Tartu : teesid] 2017 / [1] p <http://fmdtk.ut.ee/teesid/>

### **Non-aldehyde resins based on resorcinol and natural alkylresorcinols modified with styrene**

**Jurkeviciute, Ana; Grigorieva, Larisa; Tõnsuaadu, Kaia; Yashicheva, Tamara; Bondarev, Dmitrij** Materials research express 2023 / art. 105301 <https://doi.org/10.1088/2053-1591/acfd12> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **A non-vacuum dip coated SiO<sub>2</sub> interface layer for fabricating CIGS solar cells on stainless steel foil substrates**

Misra, Prashant; Atchuta, S. R.; **Mandati, Sreekanth**; Sarada, Bulusu V.; Rao, Tata Naransinga; Sakthivel, S. Solar energy 2021 / p. 471-477 : ill <https://doi.org/10.1016/j.solener.2020.12.007>

### **Non-wovens as sound reducers**

Belakova, Dana; Seile, Arta; Kukle, Silvija; **Plamus, Tiia** Latvian journal of physics and technical sciences 2018 / p. 64-76 : ill <https://doi.org/10.2478/lpts-2018-0014> [Journal metrics at Scopus](#) [Article at Scopus](#)

#### **Noorteadlaste ühendatud jõud - Eesti Noorte Teaduste Akadeemia**

**Grossberg, Maarja** Mente et Manu 2018 / lk. 42-43 : fot <http://dea.digar.ee/publication/AKmentetmanu>  
[http://www.ester.ee/record=b1242496\\*est](http://www.ester.ee/record=b1242496*est) [https://artiklid.elnet.ee/record=b2862660\\*est](https://artiklid.elnet.ee/record=b2862660*est)

#### **Novel chalcogenides, pnictides and defect-tolerant semiconductors : general discussion**

Andreasen, Jens Wenzel; Arca, Elisabetta; Bowers, Jake W.; Bär, Marcus; Breternitz, Joachim; Dale, Phillip J.; Dimitrievska, Mirjana; Fermin, David J.; Ganose, Alex; **Mandati, Sreekanth** Faraday Discussions 2022 / p. 287-316 <https://doi.org/10.1039/D2FD90057B>

#### **Novel materials for future PV technologies [Online resource]**

**Krunk, Malle** International Conference "Functional Materials and Nanotechnologies 2017" : Tartu, Estonia in April, 24-27, 2017 : book of abstracts 2017 / p. 36 [http://www.ester.ee/record=b4668793\\*est](http://www.ester.ee/record=b4668793*est)

#### **Novel method for producing electrospun composite nanofibre yarns**

**Viirsalu, Mihkel; Savest, Natalja; Plamus, Tiia; Vassiljeva, Viktoria; Krumme, Andres** Proceedings of the Estonian Academy of Sciences 2018 / p. 169-174 : ill <https://doi.org/10.3176/proc.2018.2.09> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Novel SiOxNy composite thin films with aligned carbon nanotubes network**

**Shmagina, Elizaveta; Mikli, Valdek; Bereznev, Sergei** GSFMT Scientific Conference 2023 : Tartu, 23-24 May, 2023 : abstracts 2023 <https://fmdtk.ut.ee/programm-2023/>

#### **Novel SiOxNy protective coatings with aligned carbon nanotubes network**

**Shmagina, Elizaveta; Volobujeva, Olga; Mikli, Valdek; Bereznev, Sergei** Symposium E : Carbon- and/or nitrogen-containing thin films and nanomaterials : 40th Anniversary 2023 / art. 00680 <https://srv3.key4events.com/key4register/AbstractList.aspx?e=31&preview=1&aig=-1&ai=1968>

#### **Novel softwood lignin esters as advanced filler to PLA for 3D printing**

ACS omega 2024 / p. 44559-44567 <https://doi.org/10.1021/acsomega.4c06680> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **A novel thermochemical metal halide treatment to high-performance Sb2Se3 photocathode**

**Polivtseva, Svetlana;** Adegite Olanrewaju, Joseph; Kois, Julia; Mamedov, Damir; Zh. Karazhanov, Smagul; **Maricheva, Jelena; Volobujeva, Olga** Nanomaterials 2021 / art. 52, 14 p <https://doi.org/10.3390/nano11010052> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Novel treatment method for black liquor and biomass hydrolysate with partial wet oxidation**

**Muddassar, Hassan Raja;** Melin, Kristian; Kuppa, Sarada; Koskinen, Jukka; Hurme, Markku; De Kokkonen, Daniela; **Kallas, Juha** Cellulose chemistry and technology 2015 / p. 347-360 : ill [https://www.cellulosechemtechnol.ro/pdf/CCT3-4\(2015\)/p.347-360.pdf](https://www.cellulosechemtechnol.ro/pdf/CCT3-4(2015)/p.347-360.pdf) [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Nüüdisaegsed võimalused fosforiidi töötlemiseks**

**Tamm, Kadriann** Virumaa maapäuepäev 2019 : [ettekanded] 2019 / 20 l. : ill [Tamm](#)

#### **Observation of band gap fluctuations and carrier localization in Cu2CdGeSe4**

**Krustok, Jüri; Raadik, Taavi; Kaupmees, Reelika; Grossberg, Maarja; Kauk-Kuusik, Marit; Timmo, Kristi; Mere, Arvo** Journal of physics D : applied physics 2019 / art. 285102, 7 p. : ill <https://doi.org/10.1088/1361-6463/ab1afd> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Observation of photoluminescence edge emission in CuSbSe2 absorber material for photovoltaic applications**

**Penežko, Aleksei; Kauk-Kuusik, Marit; Volobujeva, Olga; Traksmäa, Rainer; Grossberg, Maarja** Applied physics letters 2019 / art. 092101, 4 p. : ill <https://doi.org/10.1063/1.5114893> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Oleviku- ja tulevikumaavarade uuringud Eestis : RITA MAARE**

Ainsaar, Leho; Menert, Anne; Lust, Enn; **Tõnsuaadu, Kaia;** Kirsimäe, Kalle Riigikogu Toimetised 2021 / lk. 69–78 : ill [https://www.ester.ee/record=b1361123\\*est](https://www.ester.ee/record=b1361123*est) <https://rito.riigikogu.ee/wordpress/wp-content/uploads/2021/12/RiTo-44.pdf>

#### **Oma Maitse otsib parimat panni**

Oma Maitse 2023 / lk. 32-36 : ill [https://www.ester.ee/record=b2069719\\*est](https://www.ester.ee/record=b2069719*est) [Oma Maitse...](#)

#### **Omar Parve : minu küsimused sõjamuuseumile seoses Rakvere Nõukogude sõjahaua ümbermatmisega**

**Parve, Omar** 2022 [Omar Parve : minu küsimused sõjamuuseumile seoses Rakvere Nõukogude sõjahaua ümbermatmisega](#)

**Omar Parve: erakondade demokraatlikkuse peaks seadusse kirjutama**

Parve, Omar err.ee 2025 <https://www.err.ee/1609719366/omar-parve-erakondade-demokraatlikkuse-peak-seadusse-kirjutama>

**One-stage pulsed laser deposition of conductive zinc oxysulfide layers**

Bereznev, Sergei; Kocharyan, Hrachya; Maticiuc, Natalia; Naidu, Revathi; Volobujeva, Olga; Tverjanovich, Andrey; Kois, Julia Applied surface science 2017 / p. 722-727 : ill <https://doi.org/10.1016/j.apsusc.2017.07.078> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**One-step carbon nanotubes grafting with styrene-co-acrylonitrile by reactive melt blending for electrospinning of conductive reinforced composite membranes**

Vassiljeva, Viktoria; Kirikal, Kristi; Hietala, S.; Kaljuvee, Tiit; Mikli, Valdek; Rähn, Mihkel; Tarasova, Elvira; Krasnou, Illia; Viirsalu, Mihkel; Savest, Natalja; Plamus, Tiia; Javed, Kashif; Krumme, Andres Fullerenes, nanotubes and carbon nanostructures 2017 / p. 667-677 : ill <https://doi.org/10.1080/1536383X.2017.1394847> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Optical and photoelectric properties of nanolamellar structures obtained by thermal annealing of InSe plates in Zn vapours**

Untila, Dumitru; Evtodiev, Igor; Caraman, Iuliana; Spalatu, Nicolae; Dmitroglou, Liliana; Caraman, Mihail Physica status solidi (a) : applications and materials science 2018 / art. 1700434, p. 1-7 : ill <https://doi.org/10.1002/pssa.201700434> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Optical and photoelectric properties of nanolamellar structures obtained by thermal annealing of InSe plates in Zn vapours (Phys. Status Solidi A 42018) : graphical abstract**

Untila, Dumitru; Evtodiev, Igor; Caraman, Iuliana; Spalatu, Nicolae; Dmitroglou, Liliana; Caraman, Mihail Physica status solidi (a) : applications and materials science 2018 / art. 1870007 <https://doi.org/10.1002/pssa.201870007>

**Optical and structural properties of orthorhombic and tetragonal polymorphs of Cu<sub>2</sub>CdGeSe<sub>4</sub>**

Grossberg, Maarja; Raadik, Taavi; Krustok, Jüri; Kauk-Kuusik, Marit; Timmo, Kristi; Kaupmees, Reelika; Mikli, Valdek; Mere, Arvo Thin solid films 2018 / p. 44-47 <https://doi.org/10.1016/j.tsf.2018.09.031> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Optical study of valence band splitting and resonant acceptor states in Cu<sub>2</sub>GeS<sub>3</sub> microcrystals**

Krustok, Jüri; Kaupmees, Reelika; Kokla, Joel; Kauk-Kuusik, Marit Applied physics letters 2024 / art. 242111 <https://doi.org/10.1063/5.0245139>

**Optimisation of the ethylene glycol reduction method for the synthesis of platinum-ceria-carbon materials as catalysts for the methanol oxidation reaction**

Nguyen, Huy; Nerut, Jaak; Kasuk, Heili; Härmä, Meelis; Valk, Peeter; Romann, Tavo; Koppel, Miriam; Teppor, Patrick; Aruväli, Jaan; Korjus, Ove; Volobujeva, Olga; Lust, Enn Journal of solid state electrochemistry 2023 / p. 313-326 : ill <https://doi.org/10.1007/s10008-022-05326-4> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Optimization and degradation studies of cellulose transesterification to palmitate esters in superbase ionic liquid**

Savale, Nutan Bharat; Tarasova, Elvira; Krasnou, Illia; Kudrjašova, Marina; Rjabovs, Vitālijs; Reile, Indrek; Heinmaa, I. A.; Krumme, Andres Carbohydrate Research 2024 / art. 109047 <https://doi.org/10.1016/j.carres.2024.109047> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Optimization and scale-up of the pre-treatment of nickel mesh for improved electrochemical properties for alkaline water electrolysis**

Tammemägi, Mona; Prits, Alise-Valentine; Niidu, Allan; Küngas, Rainer BEChem 2024 : 8th Baltic Electrochemistry Conference : Finding New Inspiration 2 (BEChem 2024), Tartu, Estonia, April 14-17, 2024 2024 [https://sisu.ut.ee/wp-content/uploads/sites/638/tammemagi\\_mona.pdf](https://sisu.ut.ee/wp-content/uploads/sites/638/tammemagi_mona.pdf)

**Optimization of aqueous media treatment with pulsed corona discharge : hydrodynamics and kinetics conformed with the discharge parameters and energy efficiency = Impulss koroona elektrilahenduse optimeerimine vesikeskkonna töötlemiseks : hüdrodünaamika ja kineetika lähtuvalt elektrilahenduse parameetritest ning energia efektiivsusest**

Tikker, Priit 2022 <https://doi.org/10.23658/taltech.42/2022> <https://digikogu.taltech.ee/et/Item/00388653-484b-41dd-bcb7-a67df7b65d6e> [https://www.eester.ee/record=b5508894\\*est](https://www.eester.ee/record=b5508894*est)

**Optimization of La<sub>0.2</sub>Sr<sub>0.7</sub>-xCa xTi<sub>0.95</sub>Fe<sub>0.05</sub>O<sub>3</sub>-δ fuel electrode stoichiometry for solid oxide fuel-cell application**

Paydar, Sara; Kooser, Kuno; Möller, Priit; Volobujeva, Olga; Granroth, Sari; Lust, Enn; Nurk, Gunnar ACS Applied Energy Materials 2022 / p. 10119 - 10129 <https://doi.org/10.1021/acsaem.2c01808> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Optimization of the Sb<sub>2</sub>S<sub>3</sub> shell thickness in ZnO nanowire-based extremely thin absorber solar cells**

Hector, Guislain; Eensalu, Jako Siim; Katerski, Atanas; Oja Acik, Ilona; Kärber, Erki Nanomaterials 2022 / art. 198 <https://doi.org/10.3390/nano12020198> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Optimization of wheat-straw-extracted cellulose via response surface methodology and mechanical properties of its poly(lactide)-based biocomposites**

**Qasim, Umair**; Ali, Muzaffar; Usman, Muhammad Polymer composites 2020 / p. 5355–5364 <https://doi.org/10.1002/pc.25799>

**Optimized spray density in water treatment with gas-phase pulsed corona discharge**

**Tikker, Priit**; Kornev, Iakov; **Preis, Sergei** 6th European Conference on Environmental Applications of Advanced Oxidation Processes, Portorož - Portorose, Slovenia, 26-30 June 2019 : book of abstracts 2019 / p. 678–679

**Optimizing Pt catalyst performance for oxygen reduction reaction via surface functionalization of Vulcan XC-72R carbon black support**

**Najafli, Erkin**; **Grossberg, Maarja**; **Mikli, Valdek**; Walke, Peter R.; Ratso, Sander; Kruusenberg, Ivar Journal of Applied Electrochemistry 2025 / p. 1187–1200 <https://doi.org/10.1007/s10800-024-02238-1>

**The optoelectronic properties of Sb<sub>2</sub>(Se<sub>1-x</sub>S<sub>x</sub>)<sub>3</sub> (x = 0 - 1) solid solutions**

**Ender, Mehmet**; **Volobujeva, Olga**; **Timmo, Kristi**; **Grossberg, Maarja** GSFMT Scientific Conference 2021 : Tartu, June 14-15, 2021 : abstracts 2021 / P 4 [https://fmdk.ut.ee/wp-content/uploads/2021/06/GSFMT\\_abstractbook\\_2021.pdf](https://fmdk.ut.ee/wp-content/uploads/2021/06/GSFMT_abstractbook_2021.pdf)

**Origin of photoluminescence from antimony selenide**

**Grossberg, Maarja**; **Volobujeva, Olga**; **Penežko, Aleksei**; **Kaupmees, Reelika**; **Raadi, Taavi**; **Krustok, Jüri** Journal of alloys and compounds 2020 / art. 152716, 5 p. : ill <https://doi.org/10.1016/j.jallcom.2019.152716> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Osooni mõju atsetooniauru fotokatalüütilisele oksüdeerimisele**

**Kask, Maarja**; **Bolobajev, Juri**; **Kritševskaja, Marina** XXXIV Eesti keemiapäevad : 100. aastapäeva teaduskonverentsi teesid 2019 / lk. 17

**Ozonation of aqueous phenol catalyzed by biochar produced from sludge obtained in the treatment of coking wastewater**

Zhang, Fengzhen; Wu, Kaiyi; Zhou, Hongtao; Hu, Yun; **Preis, Sergei**; Wu, Haizhen; Wei, Chaohai Journal of environmental management 2018 / p. 376-386 : ill <https://doi.org/10.1016/j.jenvman.2018.07.038> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Ozone-assisted degradation of 2-methoxyethanol in a prototype plug flow photocatalytic reactor**

**Altof, Kristen**; **Krichevskaya, Marina**; **Preis, Sergei**; **Tähemaa, Toivo**; **Bolobajev, Juri** Chemical engineering journal 2024 / art. 148488 <https://doi.org/10.1016/j.cej.2023.148488> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Oxidation energy efficiency in water treatment with gas-phase pulsed corona discharge as a function of spray density**

**Tikker, Priit**; Kornev, Iakov; **Preis, Sergei** Journal of electrostatics 2020 / art. 103466, 5 p. : ill <https://doi.org/10.1016/j.elstat.2020.103466> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Oxidation energy efficiency in water treatment with gas-phase pulsed corona discharge as a function of spray density : [conference paper]**

**Tikker, Priit**; Kornev, Iakov; **Preis, Sergei** GSFMT Scientific Conference 2020 : Tallinn, February 4-5, 2020 : abstracts 2020 / p. 83 <http://fmdk.ut.ee/wp-content/uploads/2020/01/GSFMT2020.pdf>

**Oxidation of airborne m-Xylene in pulsed corona discharge: Impact of water sprinkling**

**Altof, Kristen**; **Krichevskaya, Marina**; **Preis, Sergei**; **Bolobajev, Juri** ChemEngineering 2024 / art. 99 <https://doi.org/10.3390/chemengineering8050099>

**Oxidation of aqueous bisphenols A and S by pulsed corona discharge : impacts of process control parameters and oxidation products identification**

**Tikker, Priit**; **Nikitin, Dmitri**; **Preis, Sergei** The chemical engineering journal 2022 / art. 135602 <https://doi.org/10.1016/j.cej.2022.135602> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Oxidation of aqueous bisphenols A and S by pulsed corona discharge : impacts of process control parameters and oxidation products identification : [conference paper]**

**Tikker, Priit**; **Nikitin, Dmitri**; **Preis, Sergei** MonGOS International Conference Water and Sewage in the Circular Economy Model : abstract book 2022 / p. 69 <https://www.researchgate.net/publication/362102748>

**Oxidation of aqueous corticosteroid dexamethasone with pulsed corona discharge**

**Onga, Liina**; **Kattel-Salusoo, Eneliis**; **Trapido, Marina**; **Preis, Sergei** GSFMT Scientific Conference 2021 : Tartu, June 14-15, 2021 : abstracts 2021 / P 20 [https://fmdk.ut.ee/wp-content/uploads/2021/06/GSFMT\\_abstractbook\\_2021.pdf](https://fmdk.ut.ee/wp-content/uploads/2021/06/GSFMT_abstractbook_2021.pdf)

**Oxidation of aqueous dexamethasone solution by gas-phase pulsed corona discharge**

**Onga, Liina**; **Kattel-Salusoo, Eneliis**; **Trapido, Marina**; **Preis, Sergei** Water 2022 / art. 467 <https://doi.org/10.3390/w14030467> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Oxidation of aqueous dexamethasone solution by gas-phased pulsed coronadischARGE**

Onga, Liina; Kattel-Salusoo, Eneliis; Trapido, Marina; Preis, Sergei MonGOS International Conference Water and Sewage in the Circular Economy Model : abstract book 2022 / p. 70 <https://www.mongos-conference.eu/>

**Oxidation of aqueous naproxen using gas-phase pulsed corona discharge : impact of operation parameters**

Kopecka, Romana; Onga, Liina; Preis, Sergei Water 2022 / art. 3327 <https://doi.org/10.3390/w14203327> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Oxidation of aqueous N-nitrosodiethylamine: experimental comparison of pulsed corona discharge with H<sub>2</sub>O<sub>2</sub>-assisted ozonation**

Kask, Maarja; Kritševskaja, Marina; Preis, Sergei; Bolobajev, Juri Journal of environmental chemical engineering 2021 / art. 105102 <https://doi.org/10.1016/j.jece.2021.105102> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Oxidation of aqueous organic molecules in gas-phase pulsed corona discharge : impact of operation parameters =**

Orgaaniliste molekulide oksüdeerimine gaasifaasilise koroona-impulss elektrilahendusega : töörežiimi parameetrite mõju

Onga, Liina 2022 <https://doi.org/10.23658/taltech.26/2022> <https://digikogu.taltech.ee/et/Item/3cbfe919-6281-4331-8fcb-d4dbb0de1b4c> [https://www.ester.ee/record=b5499812\\*est](https://www.ester.ee/record=b5499812*est)

**Oxidation of aqueous organic molecules in gas-phase pulsed corona discharge affected by sodium dodecyl sulphate: Explanation of variability**

Onga, Liina; Boroznjak, Roman; Kornev, Iakov; Preis, Sergei Journal of electrostatics 2021 / art. 103581, 6 p <https://doi.org/10.1016/j.elstat.2021.103581> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Oxidation of aqueous pharmaceuticals with persulfate activated by non-thermal plasma**

Nikitin, Dmitri; Kattel-Salusoo, Eneliis; Preis, Sergei; Dulova, Niina Journal of international scientific publications : ecology & safety 2023 / p. 58–66 <https://www.scientific-publications.net/en/article/1002624/>

**Oxidation of aqueous p-Nitroaniline by pulsed corona discharge**

Jayachandrabal, Balachandramohan; Tikker, Priit; Preis, Sergei Separation and Purification Technology 2022 / Art. nr. 121473 <https://doi.org/10.1016/j.seppur.2022.121473> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Oxidation of aqueous toluene by gas-phase pulsed corona discharge in air-water mixtures followed by photocatalytic exhaust air cleaning**

Kask, Maarja; Kritševskaja, Marina; Preis, Sergei; Bolobajev, Juri Catalysts 2021 / art. 549, 11 p. : ill <https://doi.org/10.3390/catal11050549> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Oxidation of bisphenol a by pulsed corona discharge : impacts of plasma-liquid contact surface and a surfactant radical scavenger**

Nikitin, Dmitri; Tikker, Priit; Preis, Sergei GSFMT Scientific Conference 2021 : Tartu, June 14-15, 2021 : abstracts 2021 / P 37 [https://fmtdk.ut.ee/wp-content/uploads/2021/06/GSFMT\\_abstractbook\\_2021.pdf](https://fmtdk.ut.ee/wp-content/uploads/2021/06/GSFMT_abstractbook_2021.pdf)

**Oxidation of dexamethasone by photochemical processes in aqueous matrices : a comparative study**

Onga, Liina; Kattel-Salusoo, Eneliis; Dulova, Niina GEET International Conference : Green Energy and Environmental Technology : Abstract Book 2022 <https://scik.eu/Rome2022/GrAbBo.php>

**Oxidation of reactive azo-dyes with pulsed corona discharge : surface reaction enhancement**

Onga, Liina; Kornev, Iakov; Preis, Sergei Journal of electrostatics 2020 / art. 103420, 5 p. : ill <https://doi.org/10.1016/j.elstat.2020.103420> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Oxidation of reactive azo-dyes with pulsed corona discharge : surface reaction enhancement : [conference paper]**

Onga, Liina; Kornev, Iakov; Preis, Sergei GSFMT Scientific Conference 2020 : Tallinn, February 4-5, 2020 : abstracts 2020 / p. 68 <http://fmtdk.ut.ee/wp-content/uploads/2020/01/GSFMT2020.pdf>

**Oxidation of ubiquitous aqueous pharmaceuticals with pulsed corona discharge**

Derevshchikov, Vladimir; Dulova, Niina; Preis, Sergei Journal of electrostatics 2021 / art. 103567, 9 p.: ill <https://doi.org/10.1016/j.elstat.2021.103567> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Oxidative degradation of emerging micropollutant acesulfame in aqueous matrices by UVA-induced H<sub>2</sub>O<sub>2</sub>/Fe<sup>2+</sup> and S<sub>2</sub>O<sub>8</sub><sup>2-</sup>/Fe<sup>2+</sup> processes**

Kattel, Eneliis; Trapido, Marina; Dulova, Niina Chemosphere 2017 / p. 528-536 : ill <https://doi.org/10.1016/j.chemosphere.2016.12.104> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Oxidative degradation of vancomycin by UV and pulsed corona discharge in combination with oxidants: hydrogen peroxide, peroxymonosulfate and peroxydisulfate**

Nikitin, Dmitri; Kaur, Balpreet; Preis, Sergei; Dulova, Niina GEET International Conference : Green Energy and Environmental

**Oxygen reduction on catalysts prepared by pyrolysis of electrospun styrene- acrylonitrile copolymer and multi-walled carbon nanotube composite fibres**

Mooste, Marek; KibenaIPöldsepp, Elo; Matisen, Leonard; **Vassiljeva, Viktoria**; **Krumme, Andres** Catalysis letters 2018 / p. 1815–1826 : ill <https://doi.org/10.1007/s10562-018-2392-6> [Journal metrics at scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Oxygen reduction on silver nanoparticles supported on carbide-derived carbons**

Linge, Jonas Mart; Erikson, Heiki; Merisalu, Maido; **Kaljuvee, Tiit** Journal of the electrochemical society 2018 / p. F1199–F1205 <https://doi.org/10.1149/2.0711814jes> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Paneb imestama: kas koroonaviiruse vaktsiini sees on tõepoolest magnet?! : selgitav video**

forte.delfi.ee 2021 / video [Video](#)

**A Pathway to Circular Economy-Converting Li-Ion Battery Recycling Waste into Graphite/rGO Composite Electrocatalysts for Zinc–Air Batteries**

**Praats, Reio**; **Sainio, Jani**; **Vikberg, Milla**; **Klemettinen, Lassi**; **Wilson, Benjamin P.**; **Lundström, Mari**; **Kruusenberg, Ivar**; **Liivand, Kerli** Batteries 2025 / art. 165, 18 p. : ill <https://doi.org/10.3390/batteries11040165>

**Pealtnäha samasuguste maskide omadused erinevad tohutult**

Jõesaar, Tuuli LP : Eesti Päevaleht 2020 / Lk. 4-6 : ill [https://www.ester.ee/record=b1072079\\*est](https://www.ester.ee/record=b1072079*est)

**Peat as a carbon source for non-platinum group metal oxygen electrocatalysts and AEMFC cathodes**

Teppor, Patrick; Jäger, Rutha; Paalo, Maarja; Adamson, Anu; Härmas, Meelis; **Volobujeva, Olga**; Aruväli, Jaan; Palm, Rasmus; Lust, Enn International Journal of Hydrogen Energy 2022 / p. 16908 - 16920 <https://doi.org/10.1016/j.ijhydene.2022.03.199> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Peat-derived carbon-based non-platinum group metal type catalyst for oxygen reduction and evolution reactions**

Teppor, Patrick; Jäger, Rutha; Paalo, Maarja; Palm, Rasmus; **Volobujeva, Olga**; Härk, Eneli; Kochovski, Zdravko; Romann, Tavo; Härmas, R.; Aruväli, Jaan; Kikas, Arvo; Lust, Enn Electrochemistry Communications 2020 / art. 106700 <https://doi.org/10.1016/j.elecom.2020.106700> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Peat-derived carbon-based non-platinum group metal type catalyst for oxygen reduction and evolution reactions**

Teppor, Patrick; Jäger, Rutha; Paalo, Madis; Palm, R.; **Volobujeva, Olga**; Härk, E.; Kochovski, Z.; Romann, Tavo; Härmas, R.; Aruväli, J.; Kikas, A.; Lust, Enn GSFMT Scientific Conference 2020 : Tallinn, February 4-5, 2020 : abstracts 2020 / p. 81 <http://fntdk.ut.ee/wp-content/uploads/2020/01/GSFMT2020.pdf>

**Performance evaluation of cement mortar and concrete with incorporated micro fillers obtained by collision milling in disintegrator**

Bumanis, Girts; Bajare, Diana; **Goljandin, Dmitri** Ceramics-silikáty 2017 / p. 231-243 : ill <https://doi.org/10.13168/cs.2017.0021> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Performance evaluation of flue gas cured calcium rich fly ash-based building blocks : [flash paper presentation]**

**Usta, Mustafa Cem**; **Adegbile, A. M.**; **Gregor, Andre**; Paaver, Peeter; **Hain, Tiina**; **Yörük, Can Rüstü**; **Uiibu, Mai**; **Triikkel, Andres** 17th International Conference on Environmental Science and Technology CEST2021, 1-4 September 2021, Athens, Greece 2021 / [flash paper presentation]

**Performance of a building integrated semitransparent photovoltaic facade on a residential house in Northern Europe**

**Jagomägi, Andri**; Wimmer, Andreas; **Thalfeldt, Martin** EU PVSEC 2017 : 33rd European Photovoltaic Solar Energy Conference and Exhibition : 25-29 September 2017, Amsterdam, The Netherlands 2017 / p. 2537-2547 <http://dx.doi.org/10.4229/EUPVSEC20172017-6BV.3.46>

**The performance of fibrous CDC electrodes in aqueous and non-aqueous electrolytes**

**Malmberg, Siret**; Arulepp, Mati; **Laanemets, Krista**; Käärik, Maike; Laheäär, Ann; **Tarasova, Elvira**; **Vassiljeva, Viktoria**; **Krasnou, Illia**; **Krumme, Andres** C : Journal of Carbon Research 2021 / art. 46 <https://doi.org/10.3390/c7020046>

**Performance of TiO<sub>2</sub>:Sm<sup>3+</sup> based optical sensor embedded in cavitated polymer films**

Tikk, Taavi; Lange, Sven; Paara, Tõnis; Eltermann, Marko; **Krumme, Andres** GSFMT Scientific Conference 2020 : Tallinn, February 4-5, 2020 : abstracts 2020 / p. 82 <http://fntdk.ut.ee/wp-content/uploads/2020/01/GSFMT2020.pdf>

**Performance of TiO<sub>2</sub>:SM<sup>3+</sup> based optical sensor embedded in cavitated polymer films**

Tikk, Taavi; Lange, Sven; Paara, Tõnis; Eltermann, Marko; **Krumme, Andres** Graduate School of Functional Materials and Technology (GSFMT) Scientific Conference : abstracts 2022 / 62 I. [Graduate School of Functional Materials and Technology \(GSFMT\) Scientific Conference 2022](#)

**Performance of UIO-66-NH<sub>2</sub> on oxidation of debenzothiophene from a model fuel : optimization using response surface**

## methodology

Barghi, Bijan; Niidu, Allan; Raag, Anastassia; Jürisoo, Martin; Volokhova, Maria; **Mikli, Valdek** Graduate School of Functional Materials and Technology (GSFMT) Scientific Conference : abstracts 2022 / 8 l. [Graduate School of Functional Materials and Technology \(GSFMT\) Scientific Conference 2022](#)

## Peroovskite QDs embedded in polymer as a wavelength-shifting layer for UV-sensitized silicon sensors

Sosna-Glebska, Aleksandra; Rezek, Bohuslav; Ukraintsev, Egor; **Sibinski, Maciej** Journal of luminescence 2024 / art. 120618 <https://doi.org/10.1016/j.jlumin.2024.120618> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

## Persulfate activated by non-thermal plasma for pharmaceuticals degradation

**Nikitin, Dmitri; Kattel-Salusoo, Eneliis; Preis, Sergei; Dulova, Niina** IOA 26th World Congress & Exhibition Milano 2023 : proceedings 2023 / p. 18.1-1–18.1-5 <https://www.ioa-ea3g.org/congress/technical-programme/information-for-authors/>

## Persulfate contribution to photolytic and pulsed corona discharge oxidation of metformin and tramadol in water

**Nikitin, Dmitri; Balpreet Kaur; Preis, Sergei; Dulova, Niina** Process Safety and Environmental Protection 2022 / p. 22-30 <https://doi.org/10.1016/j.psep.2022.07.002> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

## Persulfate contribution to photolytic and pulsed corona discharge oxidation of metformin and tramadol in water : [conference paper]

**Nikitin, Dmitri; Kaur, Balpreet; Preis, Sergei; Dulova, Niina** Graduate School of Functional Materials and Technology (GSFMT) Scientific Conference : abstracts 2022 / p. 44 [Graduate School of Functional Materials and Technology \(GSFMT\) Scientific Conference 2022](#)

## Persulfate-based photodegradation of a beta-lactam antibiotic amoxicillin in aqueous matrices

**Kattel, Eneliis; Balpreet Kaur; Trapido, Marina; Dulova, Niina** 5th European Conference on Environmental Applications of Advanced Oxidation Processes (EAAOP5) : book of abstracts 2017 / p. 407 [https://photo-catalysis.org/events/901/photo/book\\_of\\_proceedings\\_eaaop5\\_prague.pdf](https://photo-catalysis.org/events/901/photo/book_of_proceedings_eaaop5_prague.pdf)

## Persulfate-based photodegradation of a beta-lactam antibiotic amoxicillin in various water matrices

**Kattel, Eneliis; Balpreet Kaur; Trapido, Marina; Dulova, Niina** Environmental technology 2020 / p. 202-210 : ill <https://doi.org/10.1080/09593330.2018.1493149> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

## Persulfate-based photodegradation of beta-lactam antibiotic amoxicillin in aqueous matrices

**Kattel, Eneliis; Balpreet Kaur; Trapido, Marina; Dulova, Niina** 5th European Conference on Environmental Applications of Advanced Oxidation Processes (EAAOP5) : book of abstracts 2017 / p. 167 [http://www.eaaop5.com/files/%20Book\\_of\\_proceedings\\_EAAOP5\\_Prague2.pdf](http://www.eaaop5.com/files/%20Book_of_proceedings_EAAOP5_Prague2.pdf)

## Pharmacological significance of MitoQ in ameliorating mitochondria-related diseases

Sulaimon, Lateef Adegboyega; Afolabi, Lukman Olalekan; Adisa, Rahmat Adetutu; **Ayankojo, Akinrinade George**; Afolabi, Mariam Olanrewaju; Adewolu, Abiodun Mohammed; Wan, Xiaochun Advances in Redox Research 2022 / art. 100037 <https://doi.org/10.1016/j.arres.2022.100037>

## Phase and structural investigations of the content of natural radionuclides in rock and inorganic building materials

Serafimova, Ekaterina; Petkova, Vilma; **Kaljuvee, Tiit** IOP conference series : materials science and engineering 2023 / 8 p. : ill <https://doi.org/10.1088/1757-899x/1264/1/012003>

## Photo- and electropolymerization approaches for molecular imprinting of a neurotrophic factor protein

**Kidakova, Anna; Boroznjak, Roman; Reut, Jekaterina; Öpik, Andres; Sõritski, Vitali** GSFMT Scientific Conference 2020 : Tallinn, February 4-5, 2020 : abstracts 2020 / p. 43 <http://fmdtk.ut.ee/wp-content/uploads/2020/01/GSFMT2020.pdf>

## Photo- and Electropolymerization Approaches for Molecular Imprinting of a Neurotrophic Factor Protein = Foto- ja elektropolümeerisatsiooni meetodid neurotroofsete tegurite molekulaarseks jäljendamiseks

**Kidakova, Anna** 2020 <https://digikogu.taltech.ee/et/Item/2ca7105c-05df-4af9-91cc-0e85d3840dc2>

## Photocatalytic activity of quenched flame-synthesized titania nanoparticles

**Klauson, Deniss**; Hauser, G. I.; **Kritševskaja, Marina**; Moiseev, Anna; Weber, Alfred; Deubener, Joachim 5th European Conference on Environmental Applications of Advanced Oxidation Processes (EAAOP5) : book of abstracts 2017 / p. 199 [https://photo-catalysis.org/events/901/photo/book\\_of\\_proceedings\\_eaaop5\\_prague.pdf](https://photo-catalysis.org/events/901/photo/book_of_proceedings_eaaop5_prague.pdf)

## Photocatalytic degradation of different VOCs in the gas-phase over TiO<sub>2</sub> thin films prepared by ultrasonic spray pyrolysis

**Dundar, Ibrahim; Kritševskaja, Marina; Katerski, Atanas; Krunks, Malle; Oja Acik, Ilona** Catalysts 2019 / art. 915 ; 18 p. : ill <https://doi.org/10.3390/catal9110915> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

## Photocatalytic degradation of trimethoprim enhanced by organic aerogels

**Bolobajev, Juri; Kreek, Kristiina; Koel, Mihkel; Goi, Anna** 5th European Conference on Environmental Applications of Advanced Oxidation Processes (EAAOP5) : book of abstracts 2017 / p. 110 [https://photo-catalysis.org/events/901/photo/book\\_of\\_proceedings\\_eaaop5\\_prague.pdf](https://photo-catalysis.org/events/901/photo/book_of_proceedings_eaaop5_prague.pdf)

#### **Photocatalytic oxidation of VOCs AS individual air pollutants and in mixtures on the TiO<sub>2</sub> thin films**

**Sydorenko, Jekaterina; Mere, Arvo; Krunks, Malle; Kritševskaja, Marina; Oja Acik, Ilona** Graduate School of Functional Materials and Technology (GSFMT) Scientific Conference : abstracts 2022 / 58 l. [Graduate School of Functional Materials and Technology \(GSFMT\) Scientific Conference 2022](#)

#### **Photocatalytic TiO<sub>2</sub> thin films by ultrasonic spray pyrolysis for air purification**

**Dündar, Ibrahim; Kritševskaja, Marina; Katerski, Atanas; Krunks, Malle; Oja Acik, Ilona** GSFMT Scientific Conference 2020 : Tallinn, February 4-5, 2020 : abstracts 2020 / p. 21 <http://fmdtk.ut.ee/wp-content/uploads/2020/01/GSFMT2020.pdf>

#### **Photochemical degradation and mineralization of amoxicillin in different water matrices [Online resource]**

**Kattel, Eneliis; Balpreet Kaur; Trapido, Marina; Dulova, Niina** Tartu Ülikooli ASTRA projekt PER ASPERA : Funktsionaalsed materjalid ja tehnoloogiad : [7-8 märts 2017, Tartu : teesid] 2017 / [1] p <http://fmdtk.ut.ee/teesid/>

#### **Photochemical oxidation of ceftriaxone by magnetite-activated persulfate [Online resource]**

**Tikker, Priit; Kattel, Eneliis; Dulova, Niina** Tartu Ülikooli ASTRA projekt PER ASPERA : Funktsionaalsed materjalid ja tehnoloogiad : [4.-5. veebr. 2019, Tartu : teesid] 2019 / 1 p <http://fmdtk.ut.ee/teesid-2019/>

#### **Photoelectrochemical deposition of PPY onto hydrogenated A-Si for optoelectronic applications**

**Dosenovicova, Denisa; Maricheva, Jelena; Neumüller, Alex; Sergeev, Oleg; Volobujeva, Olga; Nasibulin, Albert; Kois, Julia; Öpik, Andres; Bereznev, Sergei** Open Readings 2017 : 60th International Conference for Students of Physics and Natural Sciences, March 14-17, 2017, Vilnius, Lithuania : programme and abstracts 2017 / p. 241 [http://www.openreadings.eu/wp-content/uploads/2017/03/OR2017\\_abstracts\\_book.pdf](http://www.openreadings.eu/wp-content/uploads/2017/03/OR2017_abstracts_book.pdf)

#### **Photoelectrochemical properties and band positions of Cd-substituted tetrahedrite Cu<sub>10</sub>Cd<sub>2</sub>Sb<sub>4</sub>S<sub>13</sub> monograin materials grown in molten CdI<sub>2</sub> and LiI**

**Ghisani, Fairouz; Timmo, Kristi; Altosaar, Mare; Oueslati, Souhaib; Pilvet, Maris; Kauk-Kuusik, Marit** Thin Solid Films 2022 / art. 139030 <https://doi.org/10.1016/j.tsf.2021.139030> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Photo-induced oxidation of ceftriaxone by persulfate in the presence of iron oxides**

**Balpreet Kaur; Kuntus, Liina; Tikker, Priit; Kattel, Eneliis; Trapido, Marina; Dulova, Niina** Science of the total environment 2019 / p. 165–175 : ill <https://doi.org/10.1016/j.scitotenv.2019.04.277> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Photo-induced persulfate oxidation of emerging micropollutants in water matrices [Online resource]**

**Balpreet Kaur; Kattel, Eneliis; Trapido, Marina; Dulova, Niina** Tartu Ülikooli ASTRA projekt PER ASPERA : Funktsionaalsed materjalid ja tehnoloogiad : [4.-5. veebr. 2019, Tartu : teesid] 2019 / 1 p <http://fmdtk.ut.ee/teesid-2019/>

#### **Photo-induced persulfate oxidation of emerging micropollutants in water matrices [Online resource]**

**Dulova, Niina; Kattel, Eneliis; Balpreet Kaur; Trapido, Marina** Ozone and Advanced Oxidation Solutions for Emerging Pollutants of Concern to the Water and the Environment : International Conference & Exhibition EA3G2018, 5 – 7 September 2018, Lausanne, Switzerland : programme, book of abstracts 2018 / p. 17 [http://www.ioa-ea3g.org/fileadmin/documents/EA3G2018\\_Programme\\_&\\_abstract\\_book.pdf](http://www.ioa-ea3g.org/fileadmin/documents/EA3G2018_Programme_&_abstract_book.pdf)

#### **Photoluminescence and AFM study of WS<sub>2</sub> monolayers**

**Kaupmees, Reelika; Madauß, Lukas; Pollmann, Erik; Grossberg, Maarja; Krustok, Jüri** GSFMT Scientific Conference 2020 : Tallinn, February 4-5, 2020 : abstracts 2020 / p. 41 <http://fmdtk.ut.ee/wp-content/uploads/2020/01/GSFMT2020.pdf>

#### **Photoluminescence study of B-trion in CVD grown MoS<sub>2</sub> monolayers [Online resource]**

**Kaupmees, Reelika; Krustok, Jüri** Tartu Ülikooli ASTRA projekt PER ASPERA : Funktsionaalsed materjalid ja tehnoloogiad : [7-8 märtsil 2018, Tallinn : teesid] GSFMT Scientific Conference 2018 : Tallinn, March 7-8, 2018 : abstracts 2018 / 1 p. : ill <http://fmdtk.ut.ee/teesid-2018/>

#### **Photoluminescence study of B-trions in MoS<sub>2</sub> monolayers with high density of defects**

**Kaupmees, Reelika; Komsa, Hannu-Pekka; Krustok, Jüri** Physica status solidi (b) 2019 / art. 1800384, 5 p. : ill <https://doi.org/10.1002/pssb.201800384> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **A photoluminescence study of CuInSe<sub>2</sub> single crystals ion implanted with 5 keV hydrogen**

**Yakushev, Michael Vasilievich; Krustok, Jüri; Grossberg-Kuusik, Maarja; Volkov, Vladimir A.; Mudryi, Alexander V.; Martin, Robert W.** Journal of Physics D: Applied Physics 2016 / art. 105108 <https://doi.org/10.1088/0022-3727/49/10/105108> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Photoluminescence study of deep donor- deep acceptor pairs in Cu<sub>2</sub>ZnSnS<sub>4</sub>**

**Krustok, Jüri; Raadik, Taavi; Grossberg, Maarja; Kauk-Kuusik, Marit; Trifiletti, V.; Binetti, S.** Materials science in semiconductor processing 2018 / p. 52-55 : ill <https://doi.org/10.1016/j.mssp.2018.02.025> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Photopolymerized molecularly imprinted polymer tailored for electrochemical detection of brain-derived neurotrophic factor on screen-printed electrodes**

**Kidakova, Anna; Boroznjak, Roman; Reut, Jekaterina; Öpik, Andres; Sõritski, Vitali** EUPOC 2018 : Biomimetic Polymers by Rational Design, Imprinting and Conjugation : 20 - 24 May 2018, Como, Social Como Theatre : abstract booklet & list of participants [p.o. participants] 2018 / P22, p. 76 : ill [EUPOC 2018](#)

### **Photoreflectance and photoluminescence study of antimony selenide crystals**

Kondrotas, Rokas; Nedzinskas, Ramunas; **Krustok, Jüri; Grossberg-Kuusk, Maarja**; Talaikis, Martynas; Tumėnas, Saulius; Suchodolskis, Arturas; Žaltauskas, Raimundas; Sereika, Raimundas ACS Applied Energy Materials 2022 / p. 14769-14778 <https://doi.org/10.1021/acsaem.2c02131> [Journal metrics at Scopus](#) [Article at scopus](#) [Journal metrics at WOS](#) [Article at Scopus](#)

### **Physical routes for the synthesis of kesterite**

Ratz, T.; Brammertz, Guy; Caballero, R.; **Timmo, Kristi** Journal of Physics Energy 2019 / art. 042003, 23 p. : ill <https://doi.org/10.1088/2515-7655/ab281c>

### **Physical-mechanical properties and morphology of filled low-density polypropylene: comparative study on calcium carbonate with oil shale and coal ashes**

**Krasnou, Illia; Nadeem, Faisal; Gregor, Andre; Yörük, Can Rüstü; Krumme, Andres** Journal of Vinyl and Additive Technology 2022 / p. 94-103 : ill <https://doi.org/10.1002/vnl.21869> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Physicochemical characterization on clinically retrieved TiTanium orthodontic archwires**

Stoyanova-Ivanova, Angelina; Ilievska, Ivana; Petrova, Violeta P.; Gueorgieva, M.; Petrov, Valeri G.; Andreeva, Laura A.; Zaleski, Andrzej Janusz; **Mikli, Valdek** Bulgarian Chemical Communications 2018 / p. 73 - 79 [http://www.bcc.bas.bg/bcc\\_volumes/Volume\\_50\\_Special\\_F\\_2018/P73-79\\_Pages%20from%20BCC\\_50\\_Spls\\_F\\_2018.pdf](http://www.bcc.bas.bg/bcc_volumes/Volume_50_Special_F_2018/P73-79_Pages%20from%20BCC_50_Spls_F_2018.pdf) [Journal metrics at Scopus](#) [Article at Scopus](#)

### **Physicochemical pre- and post-treatment of coking wastewater combined for energy recovery and reduced environmental risk**

Li, Zemin; Wei, Tuo; Pan, Jiamin; Liang, Yitong; Ban, Zixin; Ke, Xiong; Kong, Qiaoping; Qiu, Guanglei; Hu, Yun; **Preis, Sergei**; Wei, Chaohai Journal of hazardous materials 2023 / art. 130802, 10 p. : ill <https://doi.org/10.1016/j.jhazmat.2023.130802> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Physicochemical research of clinically retrieved CU-NI-TI orthodontic archwires**

Stoyanova-Ivanova, Angelina; Petrov, Valeri G.; Petrova, Violeta P.; Andreeva, Laura A.; Ilievska, Ivana; Zaleski, Andrzej Janusz; **Mikli, Valdek** Acta Medica Bulgarica 2021 / p. 68 - 74 <https://doi.org/10.2478/amb-2021-0011> [Journal metrics at Scopus](#) [Article at Scopus](#)

### **A pilot study of three-stage biological-chemical treatment of landfill leachate applying continuous ferric sludge reuse in Fenton-like process**

Klein, Kati; Kivi, Arthur; **Dulova, Niina**; Zekker, Ivar; Mölder, Erik; Tenno, Toomas; **Trapido, Marina**; Tenno, Taavo Clean technologies and environmental policy 2017 / p. 541-551 : ill <https://doi.org/10.1007/s10098-016-1245-5> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Plant mediated syntheses of silver nanoparticles using common weed (Plantago Major L.)**

**Küünal, Siim; Volobujeva, Olga; Rauwel, Protima; Rauwel, Erwan** 10th International Conference on Biosystems Engineering 2019 : book of abstracts : May 8-10 2019 Tartu, Estonia 2019 / p. 172 [http://dspace.emu.ee/xmlui/bitstream/handle/10492/4955/ABS\\_2019\\_Book\\_VV.pdf?sequence=1&isAllowed=y](http://dspace.emu.ee/xmlui/bitstream/handle/10492/4955/ABS_2019_Book_VV.pdf?sequence=1&isAllowed=y)

### **Plasma abil vett puhastama**

Alvela, Ain Tehnikamaailm : TM : sõidukid, elektroonika, teadus, tehnoloogia 2019 / lk. 84-88 : fot [https://www.ester.ee/record=b1073050\\*est](https://www.ester.ee/record=b1073050*est)

### **Plastic contamination in Estonia: novel plasticizers and microplastics in Estonian wastewater treatment plants**

**Heinlaan, Margit; Ayankunle, Ayankoya Yemi; Vija, Heiki; Buhhalko, Natalja; Lember, Erki; Pachel, Karin** The Gulf of Finland and Eastern Baltic Sea Science Days 2023 : "The future of our co-operation : A nucleus to transboundary nurture of the marine environment in transition", Estonian Academy of Sciences, Tallinn, 16–17 November 2023 : abstracts 2023 / p. 26-27 <https://www.akadeemia.ee/wp-content/uploads/2023/11/gof-science-days-2023-abstracts-for-web-2.pdf>

### **Plastid, probleem ja lahendus**

**Krumme, Andres** Sirp 2019 / lk. 34-36 : fot [https://www.ester.ee/record=b1072938\\*est](https://www.ester.ee/record=b1072938*est) <https://sirp.ee/s1-artiklid/c21-teadus/plastid-probleem-ja-lahendus/>

### **Plastijäätmete ringlussevõtt : probleemid tehnoloogiad, lahendused**

**Krumme, Andres** Mente et Manu 2021 / lk. 4-6 : fot [https://www.ester.ee/record=b1242496\\*est](https://www.ester.ee/record=b1242496*est)

**Plastimure**

**Krumme, Andres** Sirp 2020 / lk. 7-8 : fot <https://www.sirp.ee/s1-artiklid/c21-teadus/plastimure/> [https://www.ester.ee/record=b1072938\\*est](https://www.ester.ee/record=b1072938*est)

**Platinum-free oxygen electrocatalysts and alkaline fuel cell cathodes fabricated from peat**

Teppor, Patrick; Jäger, Rutha; Paalo, Maarja; Härmas, Meelis; Adamso, Anu; **Volobujeva, Olga**; Aruväli, Jaan; Palm, Rasmus; Lust, Enn Graduate School of Functional Materials and Technology (GSFMT) Scientific Conference : abstracts 2022 / 61 l. [Graduate School of Functional Materials and Technology \(GSFMT\) Scientific Conference 2022](#)

**Poly(alkanoyl isosorbide methacrylate)s : from amorphous to semicrystalline and liquid crystalline biobased materials**

Laanesoo, Siim; Bonjour, Olivier; **Parve, Jaan; Parve, Omar**; Matt, Livia; Vares, Lauri; Jannasch, Patric Biomacromolecules 2021 / p. 640-648 <https://doi.org/10.1021/acs.biomac.0c01474> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Polypeptide self-assembled nanoparticles as delivery systems for polymyxins B and E**

Iudin, D.; Zashikhina, N.; Demyanova, E.; Korzhikov-Vlakh, V.; Shcherbakova, E.; **Boroznjak, Roman**; Tarasenko, I.; Zakharova, N.; Lavrentieva, A.; Skorik, Y.; Korzhikova-Vlakh, E. Pharmaceutics 2020 / art. 868, 20 p. : ill <https://doi.org/10.3390/pharmaceutics12090868> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**A positively charged composite loose nanofiltration membrane for water purification from heavy metals**

Peydayesh, Mohammad; Mohammadi, Toraj; **Nikouzad, Sohail Kordmirza** Journal of Membrane Science 2020 / Art. n. 118205 <https://doi.org/10.1016/j.memsci.2020.118205> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Post deposition annealing effect on properties of CdS films and its impact on CdS/Sb2Se3 solar cells performance**

**Gopi, Sajeesh Vadakkedath; Spalatu, Nicolae; Basnayaka, Madhawa; Krautmann, Robert; Katerski, Atanas; Josepson, Raavo**; Grzibovskis, Raitis; Vembris, Aivars; **Krunks, Malle; Oja Acik, Ilona** Frontiers in Energy Research 2023 / art. 1162576, 12 p <https://doi.org/10.3389/fenrg.2023.1162576> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**A post-deposition annealing approach for organic residues control in TiO2 and its impact on Sb2Se3/TiO2 device performance**

**Koltsov, Mykhailo; Krautmann, Robert; Katerski, Atanas**; Maticiu, Natalia; **Krunks, Malle; Oja Acik, Ilona; Spalatu, Nicolae** Faraday Discussions 2022 / p. 273-286 <https://doi.org/10.1039/D2FD00064D> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Post-deposition processing for tuning the properties of Sb2Se3 thin films absorber layer grown by close-spaced sublimation**

**Krautmann, Robert; Spalatu, Nicolae; Hiie, Jaan; Katerski, Atanas; Oja Acik, Ilona; Krunks, Malle** GSFMT Scientific Conference 2020 : Tallinn, February 4-5, 2020 : abstracts 2020 / p. 47 <http://fmdtk.ut.ee/wp-content/uploads/2020/01/GSFMT2020.pdf>

**Postdeposition processing of SnS thin films and solar cells : prospective strategy to obtain large, sintered, and doped SnS grains by recrystallization in the presence of a metal halide flux**

**Spalatu, Nicolae; Hiie, Jaan; Kaupmees, Reelika; Volobujeva, Olga; Krustok, Jüri; Oja Acik, Ilona; Krunks, Malle** ACS applied materials & interfaces 2019 / p. 17539-17554 : ill <https://doi.org/10.1021/acsami.9b03213> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Post-deposition thermal treatment of sprayed SnS films**

**Polivtseva, Svetlana; Katerski, Atanas; Kärber, Erki; Oja Acik, Ilona; Mere, Arvo; Mikli, Valdek; Krunks, Malle** Thin solid films 2017 / p. 179-184 : ill <https://doi.org/10.1016/j.tsf.2017.01.014> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Post-deposition thermal treatment of sprayed SnS films [Online resource]**

**Polivtseva, Svetlana; Katerski, Atanas; Kärber, Erki; Oja Acik, Ilona; Mere, Arvo; Mikli, Valdek; Krunks, Malle** Tartu Ülikooli ASTRA projekt PER ASPERA : Funktsionaalsed materjalid ja tehnoloogiad : [7-8 märts 2017, Tartu : teesid] 2017 / [1] p <http://fmdtk.ut.ee/teesid/>

**Powder XRD microstructural analysis of thermally treated synthetic fluor-hydroxylapatite**

Kostov-Kytin, V.V.; Petkova, Vilma; **Kaljuvee, Tiit** Bulgarian chemical communications 2017 / p. 59-70 : ill <http://www.bcc.bas.bg/>

**Power optimized PV microinstallation in the field condition tests**

**Sibinski, Maciej**; Rogowski, Szymon 2024 IEEE 18th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2024 / 5 p <https://doi.org/10.1109/CPE-POWERENG60842.2024.10604366>

**Prefab light clay-timber elements for net zero whole-life carbon buildings**

Päätaalo, Juha; **Alao, Percy Festus; Rohumaa, Anti; Kers, Jaan; Liblik, Johanna; Lylykangas, Kimmo Sakari** Journal of sustainable architecture and civil engineering 2024 / p. 89-100 <https://doi.org/10.5755/j01.sace.34.1.35561>

**Prefab light clay-timber elements for net zero whole-life carbon buildings : [conference paper]**

Päätalo, Juha; **Kers, Jaan; Rohumaa, Anti; Alao, Percy Festus; Liblik, Johanna; Lylykangas, Kimmo Sakari** 5th International Conference Forum Wood Building Baltic : 26-28 February 2024, Tallinn, Estonia : proceedings 2024 / p. 124-125 : ill <https://digikogu.taltech.ee/et/Item/22318c67-e0ef-42f1-88c7-34c9d9677b17> [https://www.ester.ee/record=b5668645\\*est](https://www.ester.ee/record=b5668645*est)

#### **Preparation and characterization of SbSe thin films**

**Dolcet Sadurni, Marc; Timmo, Kristi; Mikli, Valdek; Volobujeva, Olga; Mengü, Idil; Krustok, Jüri; Grossberg-Kuusk, Maarja; Kauk-Kuusik, Marit** Journal of science: Advanced materials and devices 2024 / art. 100664 <https://doi.org/10.1016/j.jsamd.2023.100664>

#### **Preparation of a surface-grafted protein-selective polymer film by combined use of controlled/living radical photopolymerization and microcontact imprinting**

**Kidakova, Anna; Reut, Jekaterina; Rappich, Jörg; Öpik, Andres; Söritski, Vitali** Reactive and functional polymers 2018 / p. 47-56 <https://doi.org/10.1016/j.reactfunctpolym.2018.02.004> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Preparation of BaSnO<sub>3</sub> target material for pulsed laser deposition [Online resource]**

**Abdalla, Akram; Bereznev, Sergei; Volobujeva, Olga; Mikli, Valdek** Tartu Ülikooli ASTRA projekt PER ASPERA : Funktsionaalsed materjalid ja tehnoloogiad : [7-8 märtsil 2018, Tallinn : teesid] GSFMT Scientific Conference 2018 : Tallinn, March 7-8, 2018 : abstracts 2018 / 1 p <http://fntdk.ut.ee/teesid-2018/>

#### **Preparation of CuInSe<sub>2</sub> thin films by using various methods : (a short review)**

Soonmin, Ho; **Mandati, Sreekanth**; Chandran, Ramkumar; Mallik, Archana; Bhuiyan, M. A. S.; Deepa, K. G. Oriental journal of chemistry 2019 / p. 01-13 : ill [http://eprints.intimal.edu.my/1267/1/CuInSe2%20thin%20films%20by%20uisng%20various%20methods\\_Ho.pdf](http://eprints.intimal.edu.my/1267/1/CuInSe2%20thin%20films%20by%20uisng%20various%20methods_Ho.pdf)

#### **Preparation of fibrous electrospun membranes with activated carbon filler**

**Krasnou, Illia; Tarasova, Elvira; Malmberg, Siret; Vassiljeva, Viktoria; Krumme, Andres** IOP conference series : materials science and engineering 2019 / art. 012022, 5 p. : ill <https://doi.org/10.1088/1757-899X/500/1/012022> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

#### **Preparation of thermoplastic cellulose esters in [mTBNH][OAC] ionic liquid by transesterification reaction**

**Tarasova, Elvira; Savale, Nutan Bharat; Krasnou, Illia; Kudrjašova, Marina; Rjabovs, Vitalijs; Reile, Indrek; Vares, Lauri; Kallakas, Heikko**; Kers, Jaan; **Krumme, Andres** Polymers 2023 / art. 3979 <https://doi.org/10.3390/polym15193979> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Primary amines as heterogeneous catalysts in an enantioselective [2,3]-Wittig rearrangement reaction**

**Murre, Aleksandra; Mikli, Valdek; Erkman, Kristin; Kanger, Tõnis** iScience 2023 / art. 107822, 18 p. : ill <https://doi.org/10.1016/j.isci.2023.107822> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Process optimization for catalytic oxidation of dibenzothiophene over UiO-66-NH<sub>2</sub> by using a response surface methodology**

**Barghi, Bijan; Jürisoo, Martin; Volokhova, Maria; Seinberg, Liis; Reile, Indrek; Mikli, Valdek; Niidu, Allan** ACS omega 2022 / p. 16288-16297 : ill <https://doi.org/10.1021/acsomega.1c05965> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Processing of lignocellulose in ionic liquids : a cleaner and sustainable approach**

**Qasim, Umair; Rafiq, Sikander; Jamil, Farrukh; Ahmed, Ashfaq; Ali, Touqeer; Kers, Jaan**; Khurram, M. Shahzad; Hussain, Murid; Inayat, Abrar; Park, Young-Kwon Journal of cleaner production 2021 / art. 129189, 17 p. : ill <https://doi.org/10.1016/j.jclepro.2021.129189> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Professor Jaan Kers selgitab, kuidas TalTechi laboris muutub puit rõivaks**

**Kers, Jaan** digi.geenius.ee 2025 <https://digi.geenius.ee/blogi/teadus-ja-tulevik/professor-jaan-kers-selgitab-kuidas-taltech-laboris-muutub-puit-roivaks/>

#### **Professor Jaan Kers: uue põlvkonna tselluloositehased on haisuvabad**

**Kers, Jaan**; Olmaru, Jaan Tartu Postimees 2017 / lk. 5 [https://artiklid.elnet.ee/record=b2812959\\*est](https://artiklid.elnet.ee/record=b2812959*est)

#### **Progress and perspectives of nanomaterials for nioenergy production**

**Pareek, Alka**; Mohan, S. Venkata Status and Future Challenges for Non-conventional Energy Sources. Volume 2. 2022 / p. 271-285 [https://doi.org/10.1007/978-981-16-4509-9\\_12](https://doi.org/10.1007/978-981-16-4509-9_12)

#### **Properties of chitin extracted from Estonian mushrooms**

Baumgartner, Stephanie; **Viirsalu, Mihkel; Krumme, Andres**; Mendez, James Proceedings of the Estonian Academy of Sciences 2019 / p. 333-336 : ill [http://www.kirj.ee/32362/?tpl=1061&c\\_tpl=1064](http://www.kirj.ee/32362/?tpl=1061&c_tpl=1064) <https://doi.org/10.3176/proc.2019.3.09> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

#### **Properties of Cu-Sb-Se thin films deposited by magnetron co-sputtering for solar cell applications**

**Penežko, Aleksei; Kauk-Kuusik, Marit; Volobujeva, Olga; Grossberg, Maarja** Thin solid films 2021 / art. 139004

**Properties of CuSbSe<sub>2</sub> and Sb<sub>2</sub>Se<sub>3</sub> absorber materials for solar cell applications = Päikeseplatari absorbermaterjalide CuSbSe<sub>2</sub> ja Sb<sub>2</sub>Se<sub>3</sub> omaduste uurimine**

Penežko, Aleksei 2022 <https://doi.org/10.23658/taltech.74/2022> <https://digikogu.taltech.ee/et/Item/8767ee79-5fa2-4d9a-a63a-73835304d779>  
[https://www.ester.ee/record=b5528448\\*est](https://www.ester.ee/record=b5528448*est)

**Properties of CuSbSe<sub>2</sub> thin film solar cell absorbers deposited by magnetron co-sputtering**

Penežko, Aleksei; Grossberg, Maarja; Volobujeva, Olga; Kauk-Kuusik, Marit GSFMT Scientific Conference 2020 : Tallinn, February 4-5, 2020 : abstracts 2020 / p. 71 <http://fntdk.ut.ee/wp-content/uploads/2020/01/GSFMT2020.pdf>

**Properties of frost-retted hemp fibres for the reinforcement of composites**

Marrot, Laetitia; Alao, Percy Festus; Mikli, Valdek; Kers, Jaan Journal of natural fibers 2022 / p. 16017-16028  
<https://doi.org/10.1080/15440478.2021.1904474> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Properties of glass filled polypropylene for fused filament fabrication**

Spörk, Martin; Savandaiah, Chethan; Arbeiter, Florian; Schuschnigg, Stephan; Holzer, Clemens SPE ANTEC 2017, Anaheim, California, USA, 8-10 May 2017 / p. 105-111 : ill <https://www.proceedings.com/content/052/052413webtoc.pdf> Conference proceedings at Scopus Article at Scopus

**Properties of NiO thin film deposited spray pyrolysis**

Chen, Zengjun; Dedova, Tatjana; Oja Acik, Ilona; Krunks, Malle GSFMT Scientific Conference 2020 : Tallinn, February 4-5, 2020 : abstracts 2020 / p. 18 <http://fntdk.ut.ee/wp-content/uploads/2020/01/GSFMT2020.pdf>

**Properties of retted hemp fibres for reinforcement of composites**

Marrot, Laetitia; Alao, Percy Festus; Kallakas, Heikko; Poltimäe, Triinu; Kers, Jaan; Mikli, Valdek; Mere, Arvo GSFMT Scientific Conference 2020 : Tallinn, February 4-5, 2020 : abstracts 2020 / p. 13 : ill <http://fntdk.ut.ee/wp-content/uploads/2020/01/GSFMT2020.pdf>

**Propolis nanofibers : development and effect against SARS-CoV-2 virus and S. aureus, S. enterica bacteria**

Zelca, Zane; Krumme, Andres; Kukle, Silvja; Krasnou, Illia Materials today chemistry 2023 / art. 101749  
<https://doi.org/10.1016/j.mtchem.2023.101749> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Protein-responsive polymer film prepared via combined use of controlled/living radical photopolymerization and microcontact imprinting [Online resource]**

Kidakova, Anna; Sõritski, Vitali; Reut, Jekaterina; Öpik, Andres Tartu Ülikooli ASTRA projekt PER ASPERA : Funktsionaalsed materjalid ja tehnoloogiad : [7-8 märtsil 2018, Tallinn : teesid] GSFMT Scientific Conference 2018 : Tallinn, March 7-8, 2018 : abstracts 2018 / 1 p <http://fntdk.ut.ee/teesid-2018/>

**Puhdas puupinta**

Paajanen, Olli; Rohumaa, Anti; Harju, Anni; Takkunen, Juha; Seppä, Julia; Pasanen, Pertti; Vainio-Kaila, Tiina; Venäläinen, Martti Metsä, ympäristö ja energia : soveltavaa tutkimusta ja tuotekehitystä : vuosijulkaisu 2020 2020 / p. 190-199  
<https://www.theseus.fi/bitstream/handle/10024/355599/URNISBN9789523442955.pdf?sequence=2>

**Puidu ja puittoodete vastupidavus : kaitsevahendiga immutatud täispuit. Osa 1, Kaitsevahendi läbitavuse ja sissejäävuse liigitus = Durability of wood and wood-based products : preservative-treated solid wood. Part 1, Classification of preservative penetration and retention**

2023 [https://www.ester.ee/record=b5562368\\*est](https://www.ester.ee/record=b5562368*est)

**Puidu ja puittoodete vastupidavus : kaitsevahendiga immutatud täispuit. Osa 2, Juhised proovivõtu kohta kaitsevahendiga immutatud puidu analüüsiks = Durability of wood and wood-based products : preservative-treated solid wood. Part 2, Guidance on sampling for the analysis of preservative-treated wood**

2023 [https://www.ester.ee/record=b5562418\\*est](https://www.ester.ee/record=b5562418*est)

**Puidu ja puittoodete vastupidavus : toimivuse määramise juhend = Durability of wood and wood-based products : guidance on performance**

2023 [https://www.ester.ee/record=b5547997\\*est](https://www.ester.ee/record=b5547997*est)

**Puidu ja puittoodete vastupidavus [Võrguteavik] : kaitsevahendiga immutatud täispuit. Osa 1, Kaitsevahendi läbitavuse ja sissejäävuse liigitus = Durability of wood and wood-based products : preservative-treated solid wood. Part 1, Classification of preservative penetration and retention**

2017 [http://www.ester.ee/record=b4758737\\*est](http://www.ester.ee/record=b4758737*est)

**Puidu liimimine, inseneripuidust toodete ja puitplaatide valmistamine**

Puidutöötlemise õpik 2025 / lk. 268-374 : ill <https://digikogu.taltech.ee/et/Item/32f67368-0b3f-4f3d-9c57-26b8d9d7bc93>  
[https://www.ester.ee/record=b5714083\\*est](https://www.ester.ee/record=b5714083*est)

## **Puidu lõiketöötus**

**Kallakas, Heikko; Luga, Üllar;** Riistop, Märt Puidutöötlemise õpik 2025 / lk. 12-96 : ill., fot [https://www.ester.ee/record=b5714083\\*est](https://www.ester.ee/record=b5714083*est)  
<https://digikogu.taltech.ee/et/Item/32f67368-0b3f-4f3d-9c57-26b8d9d7bc93>

## **Puidu pinnatöötus, viimistlusmaterjalid ja -tehnoloogiad**

**Kers, Jaan** Puidutöötlemise õpik 2025 / lk. 449-545 : ill [https://www.ester.ee/record=b5714083\\*est](https://www.ester.ee/record=b5714083*est)  
<https://digikogu.taltech.ee/et/Item/32f67368-0b3f-4f3d-9c57-26b8d9d7bc93>

## **Puidu tulevikukasutus on korrusmajades ja kõrghoonetes**

**Kers, Jaan** Maaleht 2018 / lk. 18 <https://maaleht.delfi.ee/artikkel/82058059/puidu-tulevikukasutus-on-korrusmajades-ja-korgphoonetes>

## **Puidu uus tulemine**

**Kers, Jaan** Horisont 2022 / lk. 14-19 : fot [https://www.ester.ee/record=b1072243\\*est](https://www.ester.ee/record=b1072243*est)

## **Puidust põrandakate [Võrguteavik] : täispuidust üksikud ja eelkoostatud lehtpuulauad = Wood flooring : solid individual and pre-assembled hardwood boards**

2020 [https://www.ester.ee/record=b5366547\\*est](https://www.ester.ee/record=b5366547*est)

## **Puidust saab nii toitu kui kütust, nafta jääb maa alla**

Kartau, Mari Maaleht 2023 / Lk. 46-47 <https://dea.digar.ee/article/maaleht/2023/04/27/41.4>

## **Puidutöötlemise õpik**

2025 <https://digikogu.taltech.ee/et/Item/32f67368-0b3f-4f3d-9c57-26b8d9d7bc93> [https://www.ester.ee/record=b5714083\\*est](https://www.ester.ee/record=b5714083*est)

## **Puitkonstruktsioonid : nelinurkse ristlõikega tugevussorditud ehituspuit. Osa 2, Masinsortimine. Täiendavad nõuded esmasteks tüübi katsetusteks = Timber structures : strength graded structural timber with rectangular cross section. Part 2, Machine grading; additional requirements for initial type testing**

2022 [https://www.ester.ee/record=b5509628\\*est](https://www.ester.ee/record=b5509628*est)

## **Puitkonstruktsioonid : nelinurkse ristlõikega tugevussorditud ehituspuit. Osa 3, Masinsortimine. Täiendavad nõuded tootmisohjele ettevõttes = Timber structures : strength graded structural timber with rectangular cross section. Part 3, Machine grading; additional requirements for factory production control**

2022 [https://www.ester.ee/record=b5509636\\*est](https://www.ester.ee/record=b5509636*est)

## **Puitplaatide töötus**

**Kiiman, Karmo;** Riistop, Märt Puidutöötlemise õpik 2025 / lk. 375-405 : ill <https://digikogu.taltech.ee/et/Item/32f67368-0b3f-4f3d-9c57-26b8d9d7bc93> [https://www.ester.ee/record=b5714083\\*est](https://www.ester.ee/record=b5714083*est)

## **Pulse electrodeposited zinc sulfide as an eco-friendly buffer layer for the cadmium-free thin-film solar cells**

Boosagulla, Divya; **Mandati, Sreekanth;** Misra, Prashant; Allikayala, Ramachandraiah; Sarada, Bulusu V. Superlattices and microstructures 2021 / art. 107060 <https://doi.org/10.1016/j.spmi.2021.107060>

## **Pulsed corona discharge for improving treatability of coking wastewater**

Liu, Ming; **Preis, Sergei;** Kornev, Iakov; Hu, Yun; Wei, Chao-Hai Journal of environmental sciences 2018 / p. 306-316 : ill <https://doi.org/10.1016/j.jes.2017.07.003>

## **Pulsed laser deposition of chalcogenide sulfides from multi- and single-component targets: the non-stoichiometric material transfer**

Schou, Jorgen; Gansukh, Mungunshagai; Ettlinger, Rebecca B.; Cazzaniga, Andrea; **Grossberg, Maarja; Kauk-Kuusik, Marit;** Canulescu, Stela Applied physics. A, Materials science & processing 2018 / Art. nr. 78 <https://doi.org/10.1007/s00339-017-1475-3>  
[Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

## **Pulsed laser deposition of Zn(O,Se) layers for optoelectronic application**

**Polivtseva, Svetlana; Spalatu, Nicolae; Abdalla, Akram; Volobujeva, Olga; Hiie, Jaan; Bereznev, Sergei** ACS Applied Energy Materials 2018 / p. 6505-6512 : ill <http://dx.doi.org/10.1021/acsam.8b01431>

## **Pulsed laser deposition of Zn(O,Se) layers for optoelectronic applications**

**Ibrahim, Akram Abdalla Mohammed; Bereznev, Sergei** GSFMT Scientific Conference 2021 : Tartu, June 14-15, 2021 : abstracts 2021 / O 13 [https://fntdk.ut.ee/wp-content/uploads/2021/06/GSFMT\\_abstractbook\\_2021.pdf](https://fntdk.ut.ee/wp-content/uploads/2021/06/GSFMT_abstractbook_2021.pdf)

## **Pulsed laser deposition of Zn(O,Se) layers for optoelectronic applications = Impulsslaser-sadestatud Zn(O,Se) kiled optoelektronseteks rakendusteks**

**Ibrahim, Akram Abdalla Mohammed** 2021 <https://digikogu.taltech.ee/et/Item/0d07be7f-3737-4350-9de4-80f32df036de>  
[https://www.ester.ee/record=b5470705\\*est](https://www.ester.ee/record=b5470705*est) <https://doi.org/10.23658/taltech.57/2021>

## **Pulsed laser deposition of Zn(O,Se) layers in nitrogen background pressure**

**Abdalla, Akram; Bereznev, Sergei; Spalatu, Nicolae; Volobujeva, Olga; Sleptšuk, Natalja; Danilson, Mati** Scientific reports 2019 / art. 17443, 10 p. : ill <https://doi.org/10.1038/s41598-019-54008-1> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

## **Päikeseneergeetika materjalide uuringud Eestis**

**Kauk-Kuusik, Marit; Grossberg, Maarja; Oja Acik, Ilona; Krunks, Malle** Teadusmõtte Eestis (X). Tehnikateadused. 3 : [artiklikogumik] 2019 / lk. 59-65 : ill., fot [https://www.ester.ee/record=b5208765\\*est](https://www.ester.ee/record=b5208765*est)

## **Päikeseneergeetika tulevikku kujundavad kilepinnad ja tandempaneelid**

Piir, Rait novaator.err.ee 2023 [Päikeseneergeetika tulevikku kujundavad kilepinnad ja tandempaneelid](#)

## **Päikeseneergeetika väljakutse : mis saab päikesepaneelidest elukaare lõpus?**

**Grossberg-Kuusk, Maarja** postimees.ee 2024 [Päikeseneergeetika väljakutse: mis saab päikesepaneelidest elukaare lõpus?](#)

## **Päikesepaneelid ja korteriühistud: müüdid vs. tegelikkus [Võrguväljaanne]**

**Raadik, Taavi** kinnisvarauudised.ee 2022 [Päikesepaneelid ja korteriühistud: müüdid vs. tegelikkus](#)

## **Päikesepaneelid sobivad ka kortermajale**

**Raadik, Taavi** Võrumaa Teataja 2022 / Lk. 2 [Päikesepaneelid sobivad ka kortermajale](#)

## **Päikesepatareidest klaasid muudavad akna elektrienergia allikaks [Võrguväljaanne]**

**Eensalu, Jako Siim** novaator.err.ee 2021 ["Päikesepatareidest klaasid muudavad akna elektrienergia allikaks"](#)

## **Pärispea seltsimajas lõppes taaskasutuse töötubade pilootprojekt**

Tamm, Ülle Sõnumitooja 2023 / Lk. 5 <https://dea.digar.ee/article/sonumitooja/2023/11/08/18>

## **Pyrite as promising monograin layer solar cell absorber material for in-situ solar cell fabrication on the Moon**

**Kristmann, Katriin; Raadik, Taavi; Altosaar, Mare; Grossberg-Kuusk, Maarja; Krustok, Jüri; Pilvet, Maris; Mikli, Valdek; Kauk-Kuusik, Marit; Makaya, Advenit** Acta Astronautica 2022 / P. 420-424 <https://doi.org/10.1016/j.actaastro.2022.07.043> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

## **Pyrite as prospective absorber material for monograin layer solar cell**

**Kristmann, Katriin; Altosaar, Mare; Raudoja, Jaan; Krustok, Jüri; Pilvet, Maris; Mikli, Valdek; Grossberg, Maarja; Danilson, Mati; Raadik, Taavi** Thin Solid Films 2022 / art. 139068 : ill <https://doi.org/10.1016/j.tsf.2021.139068> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

## **Pyrite as prospective monograin layer solar cell absorber material for in-situ solar cell fabrication on the Moon**

**Kristmann, Katriin; Raadik, Taavi; Altosaar, Mare; Grossberg, Maarja; Krustok, Jüri; Pilvet, Maris; Mikli, Valdek; Kauk-Kuusik, Marit** IAC 2021 congress proceedings 2021 / p. 1-6 : ill <https://deepzone3.ttu.ee/~juri.krustok/PDF-s/IAC-21.C3.4.7.x64087.pdf> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

## **Pyrite based solar panel in-situ production on the Moon for space-based solar power**

**Raadik, Taavi; Kristmann, Katriin; Ciazela, J.; Jozefowicz, M.; Kowalinski, M.; Sniadkowski, A.; Bakala, J.; Steslicki, M.; Zalewska, N.; Pieterek, B.; Ciazela, M.; Marciniak, D.** IAC 2023 congress proceedings 2023 / 9 p. : ill <https://iafastro.directory/iac/paper/id/79277/abstract-pdf/IAC-23.D3.2B.6.x79277.brief.pdf?2023-03-30.12:16:44> [Conference proceedings at Scopus](#) [Article at Scopus](#)

## **Pyrite FeS<sub>2</sub> solar cells fabrication for lunar base energy production**

**Kristmann, Katriin; Raadik, Taavi; Altosaar, Mare; Grossberg-Kuusk, Maarja; Krustok, Jüri; Pilvet, Maris; Mikli, Valdek; Kauk-Kuusik, Marit; Makaya, Advenit** IAC 2022 congress proceedings 2022 / art. 190266 [Pyrite FeS<sub>2</sub> solar cells fabrication for lunar base energy production](#) [Conference proceedings at Scopus](#) [Article at Scopus](#)

## **Raalprojekteerimis- ja -tootmisüsteemid mööblitööstuses. Puidutööstuse digitaliseerimine**

**Erik, Tauno; Jüriorg, Urmas; Kallisaar, Sander; Kers, Jaan; Link, Lauri; Muru, Meelis; Nool, Priit; Otto, Tauno; Riistop, Märt; Tammeväli, Siim; Vahemäe, Siim** Puidutöötlemise õpik 2025 / lk. 603-669 : ill [https://www.ester.ee/record=b5714083\\*est](https://www.ester.ee/record=b5714083*est) <https://digikogu.taltech.ee/et/Item/32f67368-0b3f-4f3d-9c57-26b8d9d7bc93>

## **Radiative recombination model for BiSeI microcrystals : unveiling deep defects through photoluminescence**

**Dolcet Sadurni, Marc; Krustok, Jüri; Timmo, Kristi; Mikli, Valdek; Kondrotas, Rokas; Grossberg-Kuusk, Maarja; Kauk-Kuusik, Marit** Journal of Physics Energy 2024 / art. 045004 <https://doi.org/10.1088/2515-7655/ad8377>

## **Radiative recombination pathways in ordered and disordered CZTSe microcrystals**

**Mengü, Idil; Krustok, Jüri; Kaupmees, Reelika; Mikli, Valdek; Kauk-Kuusik, Marit; Grossberg-Kuusk, Maarja** Materials chemistry and physics 2023 / art. 127685 <https://doi.org/10.1016/j.matchemphys.2023.127685> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Raman spectroscopy for reliability assessment of multilayered AlCrN coating in tribo-corrosive conditions [Online resource]**

Baroninš, Janis; Antonov, Maksim; Bereznev, Sergei; Raadik, Taavi; Hussainova, Irina Coatings 2018 / art. 229, 12 p. : ill <https://doi.org/10.3390/coatings8070229> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Raman spectroscopy of multilayered AlCrN coating under high temperature sliding/oxidation**

Baroninš, Janis; Antonov, Maksim; Bereznev, Sergei; Raadik, Taavi; Hussainova, Irina Modern Materials and Manufacturing 2019 : 12th International DAAAM Baltic Conference and 27th International Baltic Conference BALTMATTRIB 2019. Selected, peer reviewed papers from the conference Modern Materials and Manufacturing 2019 (MMM 2019), April 24-26, 2019, Tallinn, Estonia 2019 / p. 9-14 <https://www.scientific.net/KEM.799.9> [https://www.ester.ee/record=b5235278\\*est](https://www.ester.ee/record=b5235278*est) <https://doi.org/10.4028/www.scientific.net/KEM.799.9> Conference proceeding at Scopus Article at Scopus

**Rapid assessment of photovoltaic activity of perovskite solar cells by photoluminescence spectroscopy**

Dileep, K. Reshma; Mandati, Sreekanth; Ramasamy, Easwaramoorthi; Mallick, S; Rao, Tata Naransinga; Veerappan, Ganapathy Materials letters 2021 / art. 130056, 4 p. : ill <https://doi.org/10.1016/j.matlet.2021.130056>

**Rapid thermal processing of Kesterite thin films**

Ganchev, Maxim; Spasova, Stanka; Raadik, Taavi; Mere, Arvo; Altosaar, Mare; Mellikov, Enn Coatings 2023 / art. 1449 <https://doi.org/10.3390/coatings13081449> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Rational design of highly efficient flexible and transparent p-type composite electrode based on single-walled carbon nanotubes**

Rajanna, Pramod M.; Meddeb, Hosni; Bereznev, Sergei; Volobujeva, Olga; Danilson, Mati Nano energy 2020 / art. 104183, 9 p. : ill <https://doi.org/10.1016/j.nanoen.2019.104183> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Reaalteadused vajavad rohkem naisi**

Fischer, Krista; Grossberg-Kuusk, Maarja postimees.ee 2024 [Reaalteadused vajavad rohkem naisi](#)

**Reaction pathway to CZTSe formation in CdI<sub>2</sub> : Part 2: Chemical reactions and enthalpies in mixtures of CdI<sub>2</sub>-CuSe-SnSe and CdI<sub>2</sub>-CuSe-SnSe-ZnSe**

Leinemann, Inga; Pilvet, Maris; Kaljuvee, Tiit; Traksmäa, Rainer; Altosaar, Mare Journal of thermal analysis and calorimetry 2018 / p. 433-441 <https://doi.org/10.1007/s10973-018-7415-4> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Reaction pathway to Cu<sub>2</sub>ZnSnSe<sub>4</sub> formation in CdI<sub>2</sub> : part 1. Chemical reactions and enthalpies in mixtures of CdI<sub>2</sub>-ZnSe, CdI<sub>2</sub>-SnSe, and CdI<sub>2</sub>-CuSe**

Leinemann, Inga; Nkwusi, Godswill; Timmo, Kristi; Volobujeva, Olga; Danilson, Mati; Raudoja, Jaan vt.ka Mädasson, Jaan; Kaljuvee, Tiit; Traksmäa, Rainer; Altosaar, Mare; Meissner, Dieter Journal of thermal analysis and calorimetry 2018 / p.409 - 421 : ill <https://doi.org/10.1007/s10973-018-7102-5> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Reactive extrusion of cellulose esters in ionic liquid: Exploring properties and performance across different cellulose types and degree of polymerizations**

Tarasova, Elvira; Krasnou, Illia; Enkhsaikhan, Giiguulen; Abousharabia, Ibrahim; Nunes, Caio César Zandonadi; Karthegees, Darshni; Savale, Nutan Bharat; Kontturi, Eero; Krumme, Andres Cellulose 2024 / 28 p <https://doi.org/10.21203/rs.3.rs-4580669/v1>

**Recent advances of carbon nanotubes synthesis by the electric arc technique using atomized platinum-group metal catalysts**

Truus, Kalle; Volobujeva, Olga; Kaupmees, Reelika; Tamm, Aile; Rähn, Mihkel; Raid, Raivo; Koppel, Kaida; Tuvikene, Rando Materials Science and Engineering: B 2024 / art. 117121 <https://doi.org/10.1016/j.mseb.2023.117121> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Reduced recombination through the CZTS/CdS interface engineering in monograin layer solar cells**

Kauk-Kuusik, Marit; Timmo, Kristi; Muska, Katri; Pilvet, Maris; Krustok, Jüri; Danilson, Mati; Mikli, Valdek; Josepson, Raavo; Grossberg, Maarja JPhys Energy 2022 / art. 024007 <https://doi.org/10.1088/2515-7655/ac618d> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Regeneration of filter materials contaminated by naturally occurring radioactive compounds in drinking water treatment plant**

Goi, Anna; Nilb, Nele; Suursoo, Siiri; Putk, Kaisa; Kiisk, Madis; Bolobajev, Juri Journal of water process engineering 2019 / 100464, p. 1-10 : ill <https://doi.org/10.1016/j.jwpe.2017.08.002> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Rein Kuusik : [elulooandmeid]**

Kuusik, Rein, keemik Jõgeva Keskkooli XI lenu lugu 1959-2019 2019 / lk. 52-53 : fot [https://www.ester.ee/record=b5232099\\*est](https://www.ester.ee/record=b5232099*est)

**Reis NASAsse on peaaegu nagu reis kosmosesse**

**Kristmann, Katriin** Mente et Manu 2024 / lk. 42-44 : fot [https://www.ester.ee/record=b1242496\\*est](https://www.ester.ee/record=b1242496*est)

**Relations between metal ion characteristics and adsorption performance of graphene oxide: A comprehensive experimental and theoretical study**

Kong, Qiaoping; **Preis, Sergei**; Li, Leli; Luo, Pei; Wei, Cong; Li, Zemin; Hu, Yun; Wei, Chao; Separation and purification technology 2020 / art. 115956 ; 8 p. : ill <https://doi.org/10.1016/j.seppur.2019.115956> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Removal of natural radioactivity from groundwater used as a drinking water source**

**Goi, Anna** Seventh International Conference on Radiation in Various Fields of Research, RAD 7, [RAD 2019], 10-14.06.2019, Herceg Novi, Montenegro : book of abstracts 2019 / p. 87 [http://www.radconference.org/helper/download.phpfile=../pdf/RAD\\_2019\\_Book\\_of\\_Abstracts.pdf](http://www.radconference.org/helper/download.phpfile=../pdf/RAD_2019_Book_of_Abstracts.pdf)

**Renewable cellulosic nanocomposites for food packaging to avoid fossil fuel plastic pollution: a review**

Qasim, Umair; Osman, Ahmed I.; Al-Muhtaseb, A.; Farrell, C.; Al-Abri, M.; Ali, M.; Vo, D.-V. N.; Jamil, F.; Rooney, D. W. Environmental chemistry letters 2021 / p. 613-641 <https://doi.org/10.1007/s10311-020-01090-x>

**Residual stresses on various PVD hard coatings on tube and plate substrates**

Lille, Harri; Ryabchikov, Alexander; **Peetsalu, Priidu**; Lind, Liina; **Sergejev, Fjodor**; **Mikli, Valdek**; **Kübarsepp, Jakob** Coatings 2020 / art. 1054, 11 p <https://doi.org/10.3390/coatings10111054> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Review of the extraction of key metallic values from black shales in relation to their geological and mineralogical properties**

Vind, Johannes; **Tamm, Kadriann** Minerals Engineering 2021 / art. 107271 <https://doi.org/10.1016/j.mineng.2021.107271> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**A Review on graphene-based electrospun conductive nanofibers, supercapacitors, Anodes, and cathodes for lithium-ion batteries**

**Javed, Kashif**; **Oolo, Marco**; **Savest, Natalja**; **Krumme, Andres** Critical Reviews in Solid State and Materials Sciences 2019 / p. 427-443 : ill <https://doi.org/10.1080/10408436.2018.1492367> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Rheology and dissolution capacity of cellulose in novel [mTBNH][OAc] ionic liquid mixed with green co-solvents**

**Tarasova, Elvira**; **Savale, Nutan Bharat**; **Ausmaa, Peeter**; **Mihkel, Krasnou, Illia**; **Krumme, Andres** Rheologica acta 2024 / p. 167-178 <https://doi.org/10.1007/s00397-024-01433-3> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Riiklike tehnikaprofessuuride ees seisab rida väljakutseid**

**Kers, Jaan** TõstusEST 2023 / lk. 32-34 : ill [https://www.ester.ee/record=b4481084\\*est](https://www.ester.ee/record=b4481084*est)

**Riiklike tehnikaprofessuuride väljakutsed roheleppe, ringmajanduse ja digiteerimise valguses**

**Kers, Jaan** Mente et Manu 2022 / lk. 26-27 [https://www.ester.ee/record=b1242496\\*est](https://www.ester.ee/record=b1242496*est)

**Ringmajanduse võimalustest päikeseenergeetikas**

**Grossberg-Kuusk, Maarja** Sirp 2024 / lk. 31-32 : ill <https://www.sirp.ee/ringmajanduse-voimalustest-paikeseenergeetikas/>

**Robert Krautmann, "Päikesepatareid annavad vunki värvkõrguseadmetele". Teadus 3 minutiga 2022.11.02**

**Krautmann, Robert** Eesti Teaduste Akadeemia : Youtube kanal 2022 / video [Robert Krautmann, "Päikesepatareid annavad vunki värvkõrguseadmetele". Teadus 3 minutiga 2022.11.02 „Teadus 3 minutiga“ finaalgala 2022. 11.02.2022](#)

**Roheleppega seotud väljakutsed - kas võtame need vastu?**

**Grossberg, Maarja** Mente et Manu 2020 / lk. 4-7 : fot <https://dea.digar.ee/cgi-bin/dea?a=is&oid=AKmenteetmanu202011&type=staticpdf>

**Rohepööre eraisiku vaates – kust oodata häid uudiseid, et muuta oma tarbimine rohelisemaks?**

rohe.geenius.ee 2023 [Rohepööre eraisiku vaates – kust oodata häid uudiseid, et muuta oma tarbimine rohelisemaks?](#)

**Routes to develop a [S]/([S]+[Se]) gradient in wide band-gap Cu<sub>2</sub>ZnGe(S,Se)<sub>4</sub> thin-film solar cells**

Ruiz-Perona, Andrea; Gurieva, Galina; Sun, Michael; Kodalle, Tim; Sanchez, Yudania; **Grossberg, Maarja**; Merino, Jose Manuel; Schorr, Susan; Leon, Maximo; Caballero, Raquel Journal of alloys and compounds 2021 / art. 159253, 9 p. : ill <https://doi.org/10.1016/j.jallcom.2021.159253> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Ruthenium oxide electrode integrated with molecularly imprinted polymer for direct electrochemical sensing of a neurotrophic factor protein**

**Ayankojo, Akinrinade George**; **Reut, Jekaterina**; **Boroznjak, Roman**; **Sõritski, Vitali** Sensors and Actuators B: Chemical 2025 /

art. 137301 <https://doi.org/10.1016/j.snb.2025.137301>

### **Rõivatööstus ja -tarbimine: uus suund - jätkusuutlikkus**

Prints, Kairi Kestlik Eesti 2024 / lk. 64-69 [https://www.ester.ee/record=b5678518\\*est](https://www.ester.ee/record=b5678518*est)

### **Saematerjali ja spooni kuivatus, puidu modifitseerimine**

**Kallakas, Heikko; Poltimäe, Triinu; Reiska, Rein; Riistop, Märt** Puidutöötlemise õpik 2025 / lk. 172-237 : ill

[https://www.ester.ee/record=b5714083\\*est](https://www.ester.ee/record=b5714083*est) <https://digikogu.taltech.ee/et/Item/32f67368-0b3f-4f3d-9c57-26b8d9d7bc93>

### **Saematerjali ja spooni tootmine**

**Kallakas, Heikko; Riistop, Märt** Puidutöötlemise õpik 2025 / lk. 94-171 : ill., fot [https://www.ester.ee/record=b5714083\\*est](https://www.ester.ee/record=b5714083*est)

<https://digikogu.taltech.ee/et/Item/32f67368-0b3f-4f3d-9c57-26b8d9d7bc93>

### **Sammhaaval üha paremate päikesepatareide poole**

Käärt, Ulvar postimees.ee 2024 [Sammhaaval üha paremate päikesepatareide poole](#)

### **Sammhaaval üha paremate päikesepatareide poole**

**Grossberg-Kuusk, Maarja** Horisont 2024 / lk. 16-22 : fot [https://www.ester.ee/record=b1072243\\*est](https://www.ester.ee/record=b1072243*est)

### **Sb2S3 solar cells with a cost-effective and dopant-free fluorene-based enamine as a hole transport material**

**Juneja, Nimish; Mandati, Sreekanth; Katerski, Atanas; Spalatu, Nicolae;** Daskeviciute-Geguziene, Sarune; Vembris, Aivars; Karazhanov, Smagul; Getautis, Vytautas; **Krunks, Malle; Oja Acik, Ilona** Sustainable Energy & Fuels 2022 / p. 3220-3229

<https://doi.org/10.1039/D2SE00356B> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Sb2S3 solar cells with TiO2 electron transporting layers synthesized by ALD and USP methods**

**Dedova, Tatjana; Krautmann, Robert;** Rusu, Marin; **Katerski, Atanas; Krunks, Malle;** Unold, Thomas; **Spalatu, Nicolae; Mere, Arvo; Sydorenko, Jekaterina; Sibinski, Maciej; Oja Acik, Ilona** Solar energy materials and solar cells 2025 / art. 113279

<https://doi.org/10.1016/j.solmat.2024.113279>

### **SB2S3 thin film solar cells by ultrasonic spray pyrolysis**

**Eensalu, Jako Siim; Katerski, Atanas; Kärber, Erki; Oja Acik, Ilona; Krunks, Malle** GSFMT Scientific Conference 2020 : Tallinn, February 4-5, 2020 : abstracts 2020 / p. 22 <http://fntdk.ut.ee/wp-content/uploads/2020/01/GSFMT2020.pdf>

### **Sb2S3 thin films by ultrasonic spray pyrolysis of antimony ethyl xanthate**

**Eensalu, Jako Siim; Tõnsuaadu, Kaia; Oja Acik, Ilona; Krunks, Malle** Materials science in semiconductor processing 2022 / art. 106209 : ill <https://doi.org/10.1016/j.mssp.2021.106209> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Sb2S3 thin-film solar cells fabricated from an antimony ethyl xanthate based precursor in air**

**Eensalu, Jako Siim; Mandati, Sreekanth;** Don, Christopher H.; Finch, Harry; Dhanak, Vinod R.; Major, Jonathan D.; Grzibovskis, Raitis; Tamm, Aile; Ritslaid, Peeter; **Josepson, Raavo;** Käämbre, Tanel; Vembris, Aivars; **Spalatu, Nicolae; Krunks, Malle; Oja Acik, Ilona** ACS applied materials & interfaces 2023 / p. 42622-42636 <https://doi.org/10.1021/acsami.3c08547> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Sb2S3 õhukesed absorberkihid pool-läbipaistvatele päikesepatareidele**

**Oja Acik, Ilona; Eensalu, Jako Siim; Katerski, Atanas; Krunks, Malle** XXXIV Eesti keemiapäevad : 100. aastapäeva teaduskonverentsi teesid 2019 / lk. 32 [https://www.ester.ee/record=b1580289\\*est](https://www.ester.ee/record=b1580289*est)

### **Scalable lipase-catalyzed synthesis of (R)-4-(Acyloxy)pentanoic acids from racemic γ-valerolactone**

**Parve, Jaan; Kudrjašova, Marina; Shalima, Tatsiana; Villo, Ly;** Liblikas, Ilme; Reile, Indrek; Pehk, Tõnis; **Gathergood, Nicholas; Aav, Riina; Vares, Lauri; Parve, Omar** ACS sustainable chemistry & engineering 2021 / p. 1494-1499

<https://doi.org/10.1021/acssuschemeng.0c07918> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Screening and optimization of processing temperature for Sb2Se3 thin film growth protocol : interrelation between grain structure, interface intermixing and solar cell performance**

**Spalatu, Nicolae; Krautmann, Robert; Katerski, Atanas; Kärber, Erki; Josepson, Raavo; Hiie, Jaan; Oja Acik, Ilona; Krunks, Malle** Solar energy materials and solar cells 2021 / art. 111045, 13 p. : ill <https://doi.org/10.1016/j.solmat.2021.111045> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Seasonal dynamics of bacterial composition and functions in biological treatment of coking wastewater**

Tan, Zhijie; Chen, Wenli; Guo, Ziyu; Xu, Xingyuan; Xie, Junting; Dai, Jiangpeng; Lin, Yuexia; Sheng, Binbin; **Preis, Sergei;** Wei, Chaohai; Zhu, Shuang Applied microbiology and biotechnology 2024 / art. 490 <https://doi.org/10.1007/s00253-024-13274-4> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Selection of optimum biological treatment for coking wastewater using analytic hierarchy process**

Wei, Cong; Wei, Jingyue; Kong, Qiaoping; Fan, Dan; Qiu, Guanglei; Feng, Chunhua; Li, Fusheng; **Preis, Sergei** The science of the

total environment 2020 / art. 140400 ; 12 p. : ill <https://doi.org/10.1016/j.scitotenv.2020.140400> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Selective photoelectrochemical deposition of polypyrrole onto hydrogenated a-Si for optoelectronic applications**  
**Dosenovicova, Denisa; Maricheva, Jelena; Neumüller, Alex; Sergeev, Oleg; Volobujeva, Olga; Nasibulin, Albert; Kois, Julia; Öpik, Andres; Bereznev, Sergei** Materials science in semiconductor processing 2017 / p. 1-5 : ill  
<https://doi.org/10.1016/j.mssp.2017.05.028> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Selgusehetk teaduses saabub siis, kui teadusmõistatus saab lahenduse – heureka!**  
**Grossberg-Kuusk, Maarja** postimees.ee 2024 [Selgusehetk teaduses saabub siis, kui teadusmõistatus saab lahenduse – heureka!](#)

**Semitransparent Sb2S3 thin film solar cells by ultrasonic spray pyrolysis for use in solar windows**  
**Eensalu, Jako Siim; Katerski, Atanas; Kärber, Erki; Weinhardt, Lothar; Blum, Monika; Heske, Clemens; Oja Acik, Ilona; Krunks, Malle** Beilstein journal of nanotechnology 2019 / p. 2396–2409 <https://doi.org/10.3762/bjnano.10.230> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Sensormaterjalid molekulaarselt jäljendatud polümeeridest meditsiiniliseks diagnostikaks ja keskkonnaseireks**  
**Öpik, Andres; Sõritski, Vitali; Reut, Jekaterina** Teadusmõtte Eestis (X). Tehnikateadused. 3 : [artiklikogumik] 2019 / lk. 227-237 : ill., fot [https://www.ester.ee/record=b5208765\\*est](https://www.ester.ee/record=b5208765*est)

**Sergei Preis: Seine'i jõe reostuse kohta on üks hea ja üks halb uudis**  
**Preis, Sergei** forte.delfi.ee 2024 [Sergei Preis: Seine'i jõe reostuse kohta on üks hea ja üks halb uudis](#)

**Shungite-derived graphene as a carbon support for bifunctional oxygen electrocatalysts**  
**Kazimova, Nargiz; Ping, Kefeng; Alam, Mahboob; Danilson, Mati; Merisalu, Maido; Aruväli, Jaan; Paiste, Päärn; Käärnik, Maike; Mikli, Valdek; Leis, Jaan; Tammeveski, Kaido; Starkov, Pavel; Kongi, Nadežda** Journal of catalysis 2021 / p. 178–187  
<https://doi.org/10.1016/j.jcat.2021.01.004> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Simultaneous nitrite and ammonium production in an autotrophic partial denitrification and ammonification of wastewaters containing thiocyanate**  
**Pan, Jianxin; Wei, Chaohai; Fu, Bingbing; Ma, Jingde; Preis, Sergei; Wu, Haizhen; Zhu, Shuang** Bioresource technology 2018 / p. 20-27 : ill <https://doi.org/10.1016/j.biortech.2017.12.059>

**Solar cells from TalTech to upsurge Internet of Things expansion**  
**Sibinski, Maciej** news.err.ee 2024 [Solar cells from TalTech to upsurge Internet of Things expansion](#)

**Solar energy harvesting through photovoltaic and photoelectrochemical means from appositely prepared CuInGaSe2 absorbers on flexible substrates by a low-cost and industrially benign pulse electrodeposition technique**  
**Mandati, Sreekanth; Misra, Prashant; Boosagulla, Divya; Tata, Narasinga Rao; Bulusu, Sarada V.** Industrial and engineering chemistry research 2021 / p. 2197–2205 <https://doi.org/10.1021/acs.iecr.0c05934>

**Sol-gel derived carbon microspheres by continuous ultrasonic spray pyrolysis**  
**Peikolainen, Anna-Liisa; Uibu, Mai; Aabloo, Alvo** 31st Annual Conference of the European Society for Biomaterials (ESB 2021) 2021 [https://eventclass.org/contxt\\_esb2021/scientific/online-program/session?s=AERO+PS01](https://eventclass.org/contxt_esb2021/scientific/online-program/session?s=AERO+PS01)

**Soliidses eas Wankelmootor - atraktiivne ka tänapäeval**  
**Gregor, Andre** Director. Inseneeria 2018 / lk. 111-113 : fot [http://www.ester.ee/record=b2336521\\*est](http://www.ester.ee/record=b2336521*est)  
[https://artiklid.elnet.ee/record=b2861400\\*est](https://artiklid.elnet.ee/record=b2861400*est)

**Solubilization of polycyclic aromatic hydrocarbons (PAHs) with phenol in coking wastewater treatment system: Interaction and engineering significance**  
**Kong, Qiaoping; Wu, Haizhen; Liu, Lei; Preis, Sergei** Science of the total environment 2018 / p. 467-473 : ill  
<https://doi.org/10.1016/j.scitotenv.2018.02.077> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Solution combustion synthesis of MnFeCoNiCu and (MnFeCoNiCu)3O4 high entropy materials and sintering thereof**  
**Aydinyan, Sofiya; Kirakosyan, Hasmik; Sargsyan, Armen; Volobujeva, Olga; Kharatyan, Suren** Ceramics International 2022 / p. 20294-20305 : ill <https://doi.org/10.1016/j.ceramint.2022.03.310> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Solution deposition of ZnO thin films**  
**Stankova, Stanka; Volobujeva, Olga; Dikov, H.; Ganchev, M.** Journal of physics : conference series 2021 / 6 p. : ill  
<https://doi.org/10.1088/1742-6596/1762/1/012030> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

**Solution processed high-K oxides for application as gate dielectric layer in thin film transistor**  
**Oluwabi, Abayomi Titilope; Katerski, Atanas; Mere, Arvo; Krunks, Malle; Oja Acik, Ilona** GSFMT Scientific Conference 2020 : Tallinn, February 4-5, 2020 : abstracts 2020 / p. 67 : ill <http://fntdk.ut.ee/wp-content/uploads/2020/01/GSFMT2020.p>

### **Solution-mediated inversion of SnSe to Sb<sub>2</sub>Se<sub>3</sub> thin-films**

**Polivtseva, Svetlana**; Kojs, Julia; **Kruzhilina, Tatiana**; **Kaupmees, Reelika**; **Klopov, Mihhail**; Molaiyan, Palanivel; van Gog, Heleen; van Huis, Marijn A.; **Volobujeva, Olga** Nanomaterials 2022 / art. 2898 <https://doi.org/10.3390/nano12172898> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Sonolytic degradation of chlorophene enhanced by Fenton-mediated oxidation and H<sup>•</sup>-scavenging effect**

**Bolobajev, Juri**; **Goi, Anna** Chemical engineering journal 2017 / p. 904-914 : ill <https://doi.org/10.1016/j.cej.2017.07.043> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Sonolytic degradation of pesticide metazachlor in water : The role of dissolved oxygen and ferric sludge in the process intensification**

**Kask, Maarja**; **Kritševskaja, Marina**; **Bolobajev, Juri** Journal of environmental chemical engineering 2019 / art. 103095, 7 p. : ill <https://doi.org/10.1016/j.jece.2019.103095> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Soolhappelse tehnoloogia rakendused Eesti fosforiidi töötlemiseks : aruanne**

**Tamm, Kadriann** 2021 [Soolhappelse tehnoloogia rakendused Eesti fosforiidi töötlemiseks](#)

### **Spark erosion in a metal spheres bed : experimental study of the discharge stability and energy efficiency**

Kornev, Iakov; Saprykin, Filipp; Lobanova, Galina; Ushakov, Vasily; **Preis, Sergei** Journal of electrostatics 2018 / p. 111-118 : ill <https://doi.org/10.1016/j.elstat.2018.10.008> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Spatially resolved opto-electrical performance investigations of Cu<sub>2</sub>ZnSnS<sub>3</sub>2Se<sub>0.8</sub> photovoltaic devices**

**Neubauer, Christian**; **Samiepour, Ali**; **Oueslati, Souhaib**; Ernits, Kaia; Meissner, Dieter Energy Science & Engineering 2018 / p. 563-569 : ill <https://doi.org/10.1002/ese3.232> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Spatially resolved opto-electronical investigations of monograin layer solar cells = Monoterlaste päikesepatareide ruumilise lahutusega optoelektronsed uuringud**

**Neubauer, Christian** 2019 <https://digi.lib.ttu.ee/ii/?11900>

### **Spent Li-Ion battery graphite turned into valuable and active catalyst for electrochemical oxygen reduction**

Liivand, Kerli; Kazemi, Maryam; **Walke, Peter**; **Mikli, Valdek**; Macdonald, Digby D.; Kruusenberg, Ivar ChemSusChem 2021 / p. 1103-1111 <https://doi.org/10.1002/cssc.202002742> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Spetsialist vastab: millisest materjalist pann koju osta? Kas teflonpann on ohutu?**

Arndt-Kalju, Margit omamaitse.delfi.ee 2023 [Spetsialist vastab: millisest materjalist pann koju osta? Kas teflonpann on ohutu?](#)

### **Spin - coating of SnO<sub>2</sub> thin films**

**Ganchev, Maxim**; **Katerski, Atanas**; Stankova, Stanka; **Eensalu, Jako Siim**; Terziyska, Penka Journal of physics : conference series 2019 / art. 012027, 7 p. : ill <https://doi.org/10.1088/1742-6596/1186/1/012027> [Conference proceeding at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **Spray-pyrolysis synthesised TiO<sub>2</sub> thin films for photocatalytic air treatment from volatile organic compounds**

**Sydorenko, Jekaterina**; **Krunks, Malle**; **Mere, Arvo**; **Krichevskaya, Marina**; **Oja Acik, Ilona** Proceedings 2023 / art. 37 <https://doi.org/10.3390/proceedings2023092037>

### **Stability, reliability, upscaling and possible technological applications of kesterite solar cells**

Larramona, G.; Chone, C.; **Meissner, Dieter**; Ernits, Kaia Journal of Physics Energy 2020 / art. 024009, 14 p <https://doi.org/10.1088/2515-7655/ab7cee> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **State-of-the-art technology for natural radioactivity removal in groundwater [Online resource]**

**Goi, Anna** Open access government 2018 / phot <https://www.openaccessgovernment.org/radioactivity-removal-groundwater/51906/>

### **Stress relaxation mechanism by strain in the Si-SiO<sub>2</sub> system and its influence on the interface properties**

**Kropman, Daniel**; Seeman, Viktor; Dolgov, Sergei; Heinmaa, Ivo; Medvid, Artur Physica Status Solidi (C) Current Topics in Solid State Physics 2016 / p. 790 - 792 <https://doi.org/10.1002/pssc.201600051> [Journal metrics at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **Structural and electrical characterisation of high-k ZrO<sub>2</sub> thin films deposited by chemical spray pyrolysis method**

**Oluwabi, Abayomi Titilope**; **Oja Acik, Ilona**; **Katerski, Atanas**; **Mere, Arvo**; **Krunks, Malle** Thin Solid Films 2018 / p. 129 - 136 <https://doi.org/10.1016/j.tsf.2018.07.035> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Structural and mechanical properties of laminate-type thin film SWCNT/SiOXNY composites**

**Shmagina, Elizaveta**; **Volobujeva, Olga**; **Antonov, Maksim**; **Bereznev, Sergei** SICT 2024, PLASMA TECH 2024 and TRIBOLOGY 2024 : JOINT international conferences : book of abstracts 2024 / p. 142 <https://www.setcor.org/conferences/tribology-2024/conference-program>

### **Structural and morphological characterization of heat-activated nickel-titanium archwires**

Ilievska, Ivana; Petrov, Valery; Andreeva, Laura; **Mikli, Valdek** Bulgarian chemical communications 2017 / p. 33-39 : ill <http://www.bcc.bas.bg/>

### **Structural and optical properties of laminate-type thin film SWCNT composites in a silicon oxynitride matrix obtained by low-temperature curing methods**

**Shmagina, Elizaveta**; Kasikov, Aarne; **Volobujeva, Olga**; **Bereznev, Sergei** Symposium I: Nano-engineered coatings and thin films: from fundamentals to applications 2024 <https://secure.key4events.com/key4register/AbstractList.aspx?e=1689&preview=1&aig=-1&ai=57371>

### **Structural and optoelectronic properties of CdCl<sub>2</sub> activated CdTe thin films modified by multiple thermal annealing**

**Spalatu, Nicolae**; **Krunks, Malle**; **Hiie, Jaan** Thin solid films 2017 / p. 106-111 : ill <https://doi.org/10.1016/j.tsf.2016.09.042> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Structural investigation of tellurium based thin films**

Ivanova, Vladislava; Trifonova, Yordanka; Lilova, Vanya; **Mikli, Valdek**; Stoyanova-Ivanova, Angelina Journal of chemical technology and metallurgy 2018 / p. 749-754 : ill [https://journal.uctm.edu/node/j2018-4/17\\_18-122\\_p\\_749-754.pdf](https://journal.uctm.edu/node/j2018-4/17_18-122_p_749-754.pdf) [Journal metrics at Scopus](#) [Article at Scopus](#)

### **Structural properties of ZnO nanopowders synthesized by thermal decomposition**

Kedruk, Y. Y.; Paltusheva, Z. U.; Gritsenko, L. V.; **Sõritski, Vitali** Physical sciences and technology 2023 / p. 80-86 <https://doi.org/10.26577/phst.2023.v10.i2.010> [Journal metrics at Scopus](#) [Article at Scopus](#)

### **Structural, mechanical, and optical properties of laminate-type thin film SWCNT/SiO<sub>x</sub>Ny composites**

**Shmagina, Elizaveta**; **Antonov, Maksim**; Kasikov, Aarne; **Volobujeva, Olga**; Khabushev, Eldar M.; Kallio, Tanja; **Bereznev, Sergei** Nanomaterials 2024 / art. 1806 <https://doi.org/10.3390/nano14221806>

### **Structuration of refractory metals tantalum and niobium using modified equal channel angular pressing technique**

**Omranpour Shahreza, Babak** Modern Materials and Manufacturing 2019 : 12th International DAAAM Baltic Conference and 27th International Baltic Conference BALTMATRIB 2019. Selected, peer reviewed papers from the conference Modern Materials and Manufacturing 2019 (MMM 2019), April 24-26, 2019, Tallinn, Estonia 2019 / p. 103-108 : ill <https://www.scientific.net/KEM.799.103> [https://www.ester.ee/record=b5235278\\*est](https://www.ester.ee/record=b5235278*est) <https://doi.org/10.4028/www.scientific.net/KEM.799.103> [Conference proceeding at Scopus](#) [Article at Scopus](#)

### **Structure and function of microbial community associated with phenol co-substrate in degradation of benzo[a]pyrene in coking wastewater**

Wu, Haizhen; Wang, Ming; Zhu, Shuang; **Preis, Sergei** Chemosphere 2019 / p. 128-138 : ill <https://doi.org/10.1016/j.chemosphere.2019.04.117> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Structure defects and photovoltaic properties of TiO<sub>2</sub>:ZnO/CuO solar cells prepared by reactive DC magnetron sputtering**

Wisz, Grzegorz; Sawicka-Chudy, Paulina; Wal, Andrzej; **Sibinski, Maciej**; Potera, Piotr; Yavorskyi, Rostyslav; Nykyruy, Lyubomyr; Ploch, Dariusz; Bester, Mariusz; Cholewa, Marian; Chernikova, Olena M. Applied Sciences 2023 / 13 p. : ill <https://doi.org/10.3390/app13063613>

### **Structure, characteristics and impact of treatment on durability of denim fabric containing elastomeric fibre**

**Mandre, Nele**; **Plamus, Tiia**; **Krumme, Andres** GSFMT Scientific Conference 2021 : Tartu, June 14-15, 2021 : abstracts 2021 / O 12 [https://fmttk.ut.ee/wp-content/uploads/2021/06/GSFMT\\_abstractbook\\_2021.pdf](https://fmttk.ut.ee/wp-content/uploads/2021/06/GSFMT_abstractbook_2021.pdf)

### **Structure, characteristics and impact of treatment on durability of denim fabric containing elastomeric fibre**

**Mandre, Nele**; **Plamus, Tiia**; **Krumme, Andres** GSFMT Scientific Conference 2020 : Tallinn, February 4-5, 2020 : abstracts 2020 / p. 59 <http://fmttk.ut.ee/wp-content/uploads/2020/01/GSFMT2020.pdf>

### **Studies of doped LaMnO<sub>3</sub> samples prepared by citrate combustion process**

Chandra Dimri, Mukesh; Khanduri, Himani; **Mere, Arvo**; Stern, Raivo AIP conference proceedings 2018 / art. 130015, 4 p. : ill <https://doi.org/10.1063/1.5029085> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **Studies of novel lowcost absorbers CUSBS2 and CUSBSE2 for solar cells [Online resource]**

**Penežko, Aleksei**; **Grossberg, Maarja**; **Kauk-Kuusik, Marit** Tartu Ülikooli ASTRA projekt PER ASPERA : Funktsionaalsed materjalid ja tehnoloogiad : [4.-5. veebr. 2019, Tartu : teesid] 2019 / 1 p. : ill <http://fmttk.ut.ee/teesid-2019/>

### **Studies of structural and morphological properties of cuprate conductive ceramics after electrochemical treatment in alkaline electrolyte**

Stoyanova-Ivanova, Angelina; Lilov, Peter; Vasev, Alexander; Stoyanova, Antonina; Ivanova, Galia; Karashanova, Daniela; **Mikli, Valdek** Materials chemistry and physics 2020 / art. 121934 <https://doi.org/10.1016/j.matchemphys.2019.121934> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Study of (AgxCu<sub>1-x</sub>)<sub>2</sub>ZnSn(S,Se)<sub>4</sub> monograins synthesized by molten salt method for solar cell applications**

Oueslati, Souhaib; Kauk-Kuusik, Marit; Neubauer, Christian; Mikli, Valdek; Meissner, Dieter; Brammertz, Guy; Vermang, B.; Krustok, Jüri; Grossberg, Maarja Solar energy 2020 / p. 586-595 <https://doi.org/10.1016/j.solener.2020.02.002> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Study of Cu<sub>2</sub>CdGeSe<sub>4</sub> monograin powders synthesized by molten salt method for photovoltaic applications**

Kauk-Kuusik, Marit; Li, Xiaofeng; Pilvet, Maris; Timmo, Kristi; Grossberg, Maarja; Raadik, Taavi; Danilson, Mati; Mikli, Valdek; Altosaar, Mare; Krustok, Jüri; Raudoja, Jaan Thin solid films 2018 / p. 15-19 <https://doi.org/10.1016/j.tsf.2018.09.025> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Study of Cu<sub>2</sub>Ge(S,Se)<sub>3</sub> and Cu<sub>2</sub>CDGe(S,Se)<sub>4</sub> monograin powders for photovoltaic applications**

Li, Xiaofeng; Timmo, Kristi; Kauk-Kuusik, Marit Graduate School of Functional Materials and Technology (GSFMT) Scientific Conference : abstracts 2022 / 32 I. [Graduate School of Functional Materials and Technology \(GSFMT\) Scientific Conference 2022](#)

**Study of Cu<sub>2</sub>Ge(S,Se)<sub>3</sub> and Cu<sub>2</sub>CdGe(S,Se)<sub>4</sub> monograin powders for photovoltaic applications = Cu<sub>2</sub>Ge(S,Se)<sub>3</sub> ja Cu<sub>2</sub>CdGe(S,Se)<sub>4</sub> monoterapulbrite uurimine ning kasutamise päikesepatareides**

Li, Xiaofeng 2022 <https://doi.org/10.23658/taltech.17/2022> <https://digikogu.taltech.ee/et/Item/54ffb72b-bac3-433f-b3bc-30a94df83592> [https://www.ester.ee/record=b5499086\\*est](https://www.ester.ee/record=b5499086*est)

**Study of Cu<sub>2</sub>(Zn,Cd)SnS<sub>4</sub> absorber materials for monograin layer solar cells = Päikesepatareides kasutatavate Cu<sub>2</sub>(Zn,Cd)SnS<sub>4</sub> absorbermaterjalide uurimine**

Pilvet, Maris 2017 <https://digi.lib.ttu.ee/i/?8446> [https://www.ester.ee/record=b4689398\\*est](https://www.ester.ee/record=b4689398*est)

**Study of gas-phase photocatalytic activity of titania thin films in multi-section plug-flow reactor**

Kritševskaja, Marina; Hensch, G.; Pronina, Natalja; Moiseev, Anna; Weber, Alfred; Deubener, Joachim 5th European Conference on Environmental Applications of Advanced Oxidation Processes (EAAOP5) : book of abstracts 2017 / p. 197 [https://photo-catalysis.org/events/901/photo/book\\_of\\_proceedings\\_eaaop5\\_prague.pdf](https://photo-catalysis.org/events/901/photo/book_of_proceedings_eaaop5_prague.pdf)

**Study of point defects in wide- bandgap Cu<sub>2</sub>CdGeS<sub>4</sub> microcrystals by temperature and laser power dependent photoluminescence spectroscopy**

Krustok, Jüri; Raadik, Taavi; Li, Xiaofeng; Kauk-Kuusik, Marit; Timmo, Kristi; Oueslati, Souhaib; Grossberg, Maarja Journal of physics D : applied physics 2020 / 10 p. : ill <https://doi.org/10.1088/1361-6463/ab83c1> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Study of ZnO:In, Zn(O,S) and Sb<sub>2</sub>Se<sub>3</sub> thin films deposited by aerosol methods = Aerosoolmeetoditel sadestatud ZnO:In, Zn(O,S) ja Sb<sub>2</sub>Se<sub>3</sub> õhukeste kilede uurimine**

Kriisa, Merike 2017 <https://digi.lib.ttu.ee/i/?7676> [https://www.ester.ee/record=b4676437\\*est](https://www.ester.ee/record=b4676437*est)

**Study of the optical properties of Sb<sub>2</sub>(Se<sub>1-x</sub>S<sub>x</sub>)<sub>3</sub> (x = 0-1) solid solutions**

Uslu, Mehmet Ender; Kondrotas, Rokas; Nedzinskas, Ramunas; Volobujeva, Olga; Timmo, Kristi; Kauk-Kuusik, Marit; Krustok, Jüri; Grossberg, Maarja Materials science in semiconductor processing 2022 / art. 106571 <https://doi.org/10.1016/j.mssp.2022.106571> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Study of the properties of TiO<sub>2</sub> thin films deposited by ultrasonic spray pyrolysis [Online resource]**

Chen, Z.; Oja Acik, Ilona; DüNDAR, Ibrahim; Mere, Arvo Tartu Ülikooli ASTRA projekt PER ASPERA : Funktsionaalsed materjalid ja tehnoloogiad : [4.-5. veebr. 2019, Tartu : teesid] 2019 / 1 p <http://fntdk.ut.ee/teesid-2019/>

**Study of the structure and optoelectronic properties of Cu<sub>2</sub>Ge(SexS<sub>1-x</sub>)<sub>3</sub> microcrystalline powders**

Li, Xiaofeng; Timmo, Kristi; Grossberg, Maarja; Pilvet, Maris; Kaupmees, Reelika; Krustok, Jüri; Muska, Katri; Mikli, Valdek; Kauk-Kuusik, Marit Thin solid films 2022 / art. 139053, 6 p. : ill <https://doi.org/10.1016/j.tsf.2021.139053> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Study of thermal properties of synthetic resins based on oil shale alkylresorcinols**

Jurkeviciute, Ana; Grigorieva, Larisa; Tõnsuaadu, Kaia Graduate School of Functional Materials and Technology (GSFMT) Scientific Conference : abstracts 2022 / p. 22 [Graduate School of Functional Materials and Technology \(GSFMT\) Scientific Conference 2022](#)

**Study of thermooxidation of oil shale samples and basics of processes for utilization of oil shale ashes**

Kaljuvee, Tiit; Uibu, Mai; Yörük, Can Rüstü; Einard, Marve; Trikkell, Andres; Kuusik, Rein; Keemik, Trass, Olev; Štubna, Igor; Hulan, Tomaš; Loide, Valli; Jefimova, Jekaterina Minerals 2021 / at. 193 <https://doi.org/10.3390/min11020193> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Study on the properties of TiO<sub>2</sub> thin films deposited by ultrasonic spray pyrolysis**

Chen, Zengjun; Oja Acik, Ilona; DüNDAR, Ibrahim; Mere, Arvo The 15th International Conference of Young Scientists on Energy Issues (CYSENI 2018) : 23-25 May 2018, Kaunas, Lithuania 2018 / p. X-416 - X-423 : ill [http://cyseni.com/archives/proceedings/Proceedings\\_of\\_CYSENI\\_2018.pdf](http://cyseni.com/archives/proceedings/Proceedings_of_CYSENI_2018.pdf)

**Sulfamethizole-imprinted polymer on screen-printed electrodes: Towards the design of a portable environmental sensor**  
**Ayankojo, Akinrinade George; Reut, Jekaterina; Öpik, Andres; Sõritski, Vitali** Sensors and actuators B. Chemical 2020 / art. 128600, 9 p. : ill <https://doi.org/10.1016/j.snb.2020.128600> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Sunlight-driven photocatalytic degradation of methylene blue with facile one-step synthesized Cu-Cu<sub>2</sub>O-Cu<sub>3</sub>N nanoparticle mixtures**

Paredes, Patricio; Rauwel, Erwan; Wragg, David S.; Rapenne, Laetitia; Estephan, Elias; **Volobujeva, Olga**; Rauwel, Protima Nanomaterials 2023 / art. 1311 <https://doi.org/10.3390/nano13081311> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Superconductivity and magnetic studies of bulk Y123/ BaCuO<sub>2</sub> composite**

Stoyanova-Ivanova, Angelina; Terzieva, Stanimira; Georgieva, S.; **Mikli, Valdek** Romanian journal of physics 2018 / art. 602, 15 p. : ill [http://www.nipne.ro/rjp/2018\\_63\\_1-2/RomJPhys.63.602.pdf](http://www.nipne.ro/rjp/2018_63_1-2/RomJPhys.63.602.pdf) [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Supporting critical raw material circularity – upcycling graphite from waste LIBs to Zn–air batteries**

**Praats, Reio; Chernyaev, Alexander; Sainio, Jani; Lundström, Mari; Kruusenberg, Ivar; Liivand, Kerli** Green chemistry 2024 / p. 2874–2883 : ill <https://doi.org/10.1039/d3gc04315k>

**Surface properties of birch false heartwood [Online resource]**

**Saar, Kaarel** Tartu Ülikooli ASTRA projekt PER ASPERA : Funktsionaalsed materjalid ja tehnoloogiad : [7-8 märts 2017, Tartu : teesid] 2017 / [1] p <http://fmdk.ut.ee/teesid/>

**Surface properties of sprayed and electrodeposited ZnO rod layers**

**Gromõko, Inga; Krunks, Malle; Dedova, Tatjana; Katerski, Atanas; Klauson, Deniss; Oja Acik, Ilona** Applied surface science 2017 / p. 521-528 : ill <https://doi.org/10.1016/j.apsusc.2017.02.065> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Surface wetting properties of electrodeposited and sprayed ZnO nanorod layers [Online resource]**

**Gromõko, Inga; Krunks, Malle; Dedova, Tatjana; Katerski, Atanas; Klauson, Deniss; Oja Acik, Ilona** Tartu Ülikooli ASTRA projekt PER ASPERA : Funktsionaalsed materjalid ja tehnoloogiad : [7-8 märts 2017, Tartu : teesid] 2017 / [1] p <http://fmdk.ut.ee/teesid/>

**Surfactant and non-surfactant radical scavengers in aqueous reactions induced by pulsed corona discharge treatment**

Wang, Yi-Xian; Kornev, Iakov; Wei, Chao-Hai; **Preis, Sergei** Journal of electrostatics 2019 / p. 82-86 : ill <https://doi.org/10.1016/j.elstat.2019.03.001> [Tehnikaülikooli teadlaste uudne lahendus puhastab vett elektriga](#) [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Sustainable co<sub>2</sub>-derived nanoscale carbon support to a platinum catalyst for oxygen reduction reaction**

**Najafli, Erkin; Ratso, Sander; Ivanov, Y.P.; Gatalo, M.; Pavko, L.; Yörük, Can Rüstü; Walke, Peter; Divitini, G.; Hodnik, N.; Kruusenberg, Ivar** GSFMT Scientific Conference 2023 : Tartu, 23-24 May, 2023 : abstracts 2023 <https://fmdk.ut.ee/programm-2023/>

**Sustainable co<sub>2</sub>-derived nanoscale carbon support to a platinum catalyst for oxygen reduction reaction**

**Najafli, Erkin; Ratso, Sander; Ivanov, Yuri P.; Gatalo, Matija; Pavko, Luka; Yörük, Can Rüstü; Walke, Peter; Divitini, Giorgio; Hodnik, Nejc; Kruusenberg, Ivar** ACS Applied Nano Materials 2023 / p. 5772-5780 : ill <https://doi.org/10.1021/acsanm.3c00208> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Sustainable fabrication of polypropylene-postconsumer cotton composite materials : circularity, characterization, mechanical testing, and tribology**

**Hussain, Abrar; Podgurski, Vitali; Goljandin, Dmitri; Antonov, Maksim; Viljus, Mart; Krasnou, Illia** Materials today sustainability 2023 / art. 100344, 16 p. : ill <https://doi.org/10.1016/j.mtsust.2023.100344> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Sustainable routes for synthesis of fatty acid cellulose esters**

**Krumme, Andres** Baltic Polymer Symposium 2024 : 22nd International Scientific Conference, September 17-19, 2024, Birštonas, Lithuania : Book of abstracts 2024 / p. 21 <https://doi.org/10.5755/e01.3030-1378.2024>

**Suur lugu: Kuum ja pilvitu ilm vähendab märgatavalt päikesepaneelide tootlikkust. Mida paneele ostes tähele panna?**

Soopan, Ivar rohe.geenius.ee 2023 [Suur lugu: Kuum ja pilvitu ilm vähendab märgatavalt päikesepaneelide tootlikkust. Mida paneele ostes tähele panna?](#)

**Süvaoksüdatsiooni tehnoloogiate arendamine kaasaegsete keskkonnaprobleemide lahendamiseks : tugevalt saastatud tööstusreovetest mikrosaaestaineni õhus ja vees**

**Trapido, Marina; Dulova, Niina; Kritševskaja, Marina; Preis, Sergei** Eesti Vabariigi preemiad 2020 : teadus. F. J. Wiedemanni keeleauhind. Sport. Kultuur. Haridus 2020 / lk. 92-107 : fot [https://www.ester.ee/record=b1226072\\*est](https://www.ester.ee/record=b1226072*est) [https://www.akadeemia.ee/wp-content/uploads/2020/08/ev\\_preemaid\\_2020\\_veebi1.pdf](https://www.akadeemia.ee/wp-content/uploads/2020/08/ev_preemaid_2020_veebi1.pdf)

### **Süvenev energiakriis annab kosmose-päikeseelektrijaamadele uue hingamise**

Raadik, Taavi novaator.err.ee 2024 [Süvenev energiakriis annab kosmose-päikeseelektrijaamadele uue hingamise](#)

### **Symbiotic virus-bacteria interactions in biological treatment of coking wastewater manipulating bacterial physiological activities**

Zhu, Shuang; Tan, Zhijie; Guo, Ziyu; Zheng, Huijian; Zhang, Baoshan; Qin, Zhi; Xie, Juntao; Lin, Yuxia; Sheng, Binbin; Qiu, Guanglei; Preis, Sergei; Wei, Chaohai Water research 2024 / art. 121741 <https://doi.org/10.1016/j.watres.2024.121741>

### **Synergistic effect of single-walled carbon nanotubes and PEDOT:PSS in Thin film amorphous silicon hybrid solar cell**

Alekseeva, Alena A.; Rajanna, Pramod M.; Anisimov, Anton S.; Sergeev, Oleg; Bereznev, Sergei; Nasibulin, Albert Physica status solidi (b) 2018 / 4 p. : ill <https://doi.org/10.1002/pssb.201700557> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Synergy in the hydrothermal pyrolysis of oil shale/sawdust blends**

Tiikma, Laine; Johannes, Ille; Luik, Hans; Gregor, Andre Journal of Analytical and Applied Pyrolysis 2016 / p. 247 - 256 <https://doi.org/10.1016/j.jaap.2015.11.008> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Synthesis and characterization of cobalt and nitrogen co-doped peat-derived carbon catalysts for oxygen reduction in acidic media**

Jäger, Rutha; Teppor, Patrick; Paolo, Maarja; Härmä, Meelis; Adamson, Anu; Volobujeva, Olga; Härk, Eneli; Kochovski, Zdravko; Romann, Tavo; Härmä, Riinu; Aruväli, Jaan; Kikas, Arvo; Lust, Enn Catalysts 2021 / art. 715 <https://doi.org/10.3390/catal11060715> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Synthesis and characterization of pyrite FeS<sub>2</sub> solar cell absorber crystals and modifying their surface**

Kristmann, Katriin; Raadik, Taavi; Altosaar, Mare; Mikli, Valdek; Danilson, Mati Graduate School of Functional Materials and Technology (GSFMT) Scientific Conference : abstracts 2022 / 29 l. [Graduate School of Functional Materials and Technology \(GSFMT\) Scientific Conference 2022](#)

### **Synthesis and characterization of tetrahedrite absorber materials for photovoltaic application**

Ghisani, Fairouz; Timmo, Kristi; Altosaar, Mare Graduate School of Functional Materials and Technology (GSFMT) Scientific Conference : abstracts 2022 / 17 l. [Graduate School of Functional Materials and Technology \(GSFMT\) Scientific Conference 2022](#)

### **Synthesis and characterization of tetrahedrite Cu<sub>10</sub>Cd<sub>2</sub>Sb<sub>4</sub>S<sub>13</sub> monograin material for photovoltaic application**

Ghisani, Fairouz; Timmo, Kristi; Altosaar, Mare; Raudoja, Jaan; Mikli, Valdek; Pilvet, Maris; Kauk-Kuusik, Marit; Grossberg, Maarja Materials science in semiconductor processing 2020 / art. 104973 <https://doi.org/10.1016/j.mssp.2020.104973> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Synthesis and characterization of tetrahedrite Cu<sub>10</sub>Cd<sub>2</sub>Sb<sub>4</sub>S<sub>13</sub> monograin material for photovoltaic application [Online resource]**

Ghisani, Fairouz; Timmo, Kristi; Altosaar, Mare; Raudoja, Jaan Tartu Ülikooli ASTRA projekt PER ASPERA : Funktsionaalsed materjalid ja tehnoloogiad : [4.-5. veebr. 2019, Tartu : teesid] 2019 / 1 p <http://fmdk.ut.ee/teesid-2019/>

### **Synthesis and characterization of tetrahedrite Cu<sub>10</sub>Cd<sub>2</sub>Sb<sub>4</sub>S<sub>13</sub> monograin powders for photovoltaic applications = Tetraedriitsete Cu<sub>10</sub>Cd<sub>2</sub>Sb<sub>4</sub>S<sub>13</sub> monoterapulbrite süntees ja iseloomustamine kasutamiseks päikesepatareides**

Ghisani, Fairouz 2022 <https://doi.org/10.23658/taltech.45/2022> <https://digikogu.taltech.ee/et/Item/916bb43a-3742-40c3-b91a-06a06cafd299> [https://www.ester.ee/record=b5507330\\*est](https://www.ester.ee/record=b5507330*est)

### **Synthesis and hydrodynamic and conformation properties of star-shaped polystyrene with calix[8]arene core**

Simonova, Maria; Tarasova, Elvira; Dudkina, Marina International journal of polymer analysis and characterization 2019 / p. 87-95 : ill <https://doi.org/10.1080/1023666X.2018.1555894> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Synthesis and investigation of thermo-induced gelation of partially cross-linked poly-2-isopropyl-2-oxazoline in aqueous media**

Amirova, Alina; Rodchenko, Serafim; Kurlykin, Mikhail; Tenkovtsev, Andrey; Krasnou, Illia; Krumme, Andres; Filippov, Alexander Polymers 2020 / art. 698, 13 p. : ill <https://doi.org/10.3390/polym12030698> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Synthesis and optical properties of Ga<sub>2</sub>O<sub>3</sub> nanowires grown on GaS substrate**

Leontie, Liviu; Sprincean, Veaceslav; Untila, Dumitru; Spalatu, Nicolae Thin solid films 2019 / art. 137502, 6 p. : ill <https://doi.org/10.1016/j.tsf.2019.137502> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Synthesis and physical characteristics of narrow bandgap chalcogenide SnZrSe<sub>3</sub> : [version 2; peer review: 2 approved]**

Kondrotas, Rokas; Juškenas, Remigijus; Krotkus, Arunas; Pakštas, Vidas; Suchodolskis, Arturas; Mekys, Algirdas; Franckevičius, Marius; Talaikis, Martynas; Muska, Katri; Li, Xiaofeng; Kauk-Kuusik, Marit; Kravtsov, Victor Open Research Europe 2023 / art. 138 <https://doi.org/10.12688/openreseurope.15168.2> <https://open-research-europe.ec.europa.eu/articles/2-138>

**Synthesis control of charge separation at anatase TiO<sub>2</sub> thin films studied by transient surface photovoltage spectroscopy**

Dittrich, Thomas; **Sydorenko, Jekaterina; Spalatu, Nicolae**; Nickel, Norbert H.; **Mere, Arvo; Krunks, Malle; Oja Acik, Ilona** ACS applied materials & interfaces 2022 / p. 43163-43170 <https://doi.org/10.1021/acsami.2c09032> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Synthesis of Cu<sub>2</sub>ZnSnS<sub>4</sub> nano-powders and nano-structured thin films = Cu<sub>2</sub>ZnSnS<sub>4</sub> nano-pulbrite ja nano-struktuursete kilede süntees**

Kumar, Suresh 2018 <https://digi.lib.ttu.ee/i/?10626> [https://www.ester.ee/record=b5151482\\*est](https://www.ester.ee/record=b5151482*est)

**Synthesis of modified polycondensation resins based on oil shale individual alkylresorcinols and their mixtures**

Jurkeviciute, Ana; **Grigorieva, Larisa; Tõnsuaadu, Kaia**; Blum, Kristina; Yashicheva, T.; Moskvina, K. Baltic polymer symposium 2022 : programme and abstracts 2022 / p. 54

**Synthesis of modified resins based on resorcinol and oil shale alkylresorcinols : structure and properties = Modifitseeritud vaikude süntees resortsinooli ja põlevkivi alküülresortsinoolide alusel : struktuur ja omadused**

Jurkeviciute, Ana 2024 [https://www.ester.ee/record=b5667168\\*est](https://www.ester.ee/record=b5667168*est) <https://digikogu.taltech.ee/et/Item/bccf3a68-0f32-44d8-966a-d5e25ae1dc26> <https://doi.org/10.23658/taltech.10/2024>

**Synthesis of thermoplastic cellulose esters in novel ionic liquid**

Savale, Nutan Bharat; **Tarasova, Elvira; Krasnou, Illia; Kudrjašova, Marina**; Reile, Indrek; **Krumme, Andres** Baltic Polymer Symposium, BPS2023 : programme and abstracts 2023 / p. 14

**Synthesis techniques in molecular imprinting: From MIP monoliths to MIP films and nanoparticles**

**Ayankojo, Akinrinade George; Reut, Jekaterina; Sõritski, Vitali**; Sehit, Ekin; Md Sharifuzzaman; Altintas, Z. Molecularly imprinted polymers : Computational studies to advanced applications 2025 / p. 75-128 [https://doi.org/10.1007/978-3-031-67368-9\\_4](https://doi.org/10.1007/978-3-031-67368-9_4)

**Syntshesis of platinum modified nanocarbon catalysts for fuel cell application**

**Najafli, Erkin** GSFMT Scientific Conference 2021 : Tartu, June 14-15, 2021 : abstracts 2021 / P 39 [https://fntdk.ut.ee/wp-content/uploads/2021/06/GSFMT\\_abstractbook\\_2021.pdf](https://fntdk.ut.ee/wp-content/uploads/2021/06/GSFMT_abstractbook_2021.pdf)

**Zero valent boron activated ozonation for ultra-fast degradation of organic pollutants : atomic orbital matching, oxygen spillover and intra-electron transfer**

Zhang, Fengzhen; Kong, Qiaoping; **Preis, Sergei** The chemical engineering journal 2022 / art. 134674 <https://doi.org/10.1016/j.cej.2022.134674> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**ZnO nanostructured layers by wet chemical deposition methods : growth, surface properties, photocatalytic capability = ZnO nanostruktuursed kihid vedeliksadestuse meetoditel : kasvatamine, pinnaomadused, fotokatalüütiline võimekus**

**Gromõko, Inga** 2018 <https://digi.lib.ttu.ee/i/?9962> [https://www.ester.ee/record=b5141465\\*est](https://www.ester.ee/record=b5141465*est)

**ZnO nanostructures by wet chemical deposition methods [Online resource]**

**Gromõko, Inga; Dedova, Tatjana; Krunks, Malle; Oja Acik, Ilona; Katerski, Atanas; Klauson, Deniss** Tartu Ülikooli ASTRA projekt PER ASPERA : Funktsionaalsed materjalid ja tehnoloogiad : [7-8 märtsil 2018, Tallinn : teesid] GSFMT Scientific Conference 2018 : Tallinn, March 7-8, 2018 : abstracts 2018 / 1 p <http://fntdk.ut.ee/teesid-2018/>

**ZnO nanowires for solar cells : a comprehensive review**

Consonni, Vincent; Briscoe, Joe; **Kärber, Erki** Nanotechnology 2019 / art. 362001, 41 p : ill <https://doi.org/10.1088/1361-6528/ab1f2e> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**ZnO thin films co-doped with III-valence metals and halogens: theory and experiment**

Colibaba, G. V.; Rusnac, D.; Fedorov, V.; **Koltsov, Mykhailo; Volobujeva, Olga**; Grzibovskis, Raitis; Vembris, Aivars; **Spalatu, Nicolae** Physica scripta 2024 / art. 105967 <https://doi.org/10.1088/1402-4896/ad74ab> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Zn(O,Se) as a novel buffer layer for thin film solar cells**

**Abdalla, Akram; Polivtseva, Svetlana; Spalatu, Nicolae; Volobujeva, Olga; Hiie, Jaan; Bereznev, Sergei** Tartu Ülikooli ASTRA projekt PER ASPERA : Funktsionaalsed materjalid ja tehnoloogiad : [4.-5. veebr. 2019, Tartu : teesid] 2019 <http://fntdk.ut.ee/teesid-2019/>

**ZnO/NiO heterostructures with enhanced photocatalytic activity obtained by ultrasonic spraying of a NiO shell onto ZnO nanorods**

**Chen, Zengjun; Dedova, Tatjana; Spalatu, Nicolae**; Maticiuc, Natalia; Rusu, Marin; **Katerski, Atanas; Oja Acik, Ilona**; Unold, Thomas; **Krunks, Malle** Colloids and surfaces A : physicochemical and engineering aspects 2022 / art. 129366 <https://doi.org/10.1016/j.colsurfa.2022.129366> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

### **ZnO/TiO<sub>2</sub>/Sb<sub>2</sub>S<sub>3</sub> core-shell nanowire heterostructure for extremely thin absorber solar cells**

Parize, Romain; **Katerski, Atanas; Gromöko, Inga**; Rapenne, Laetitia; Roussel, Hervé; **Kärber, Erki**; Appert, Estelle; **Krunks, Malle**; Consonni, Vincent Journal of physical chemistry C 2017 / p. 9672-9680 : ill <https://doi.org/10.1021/acs.jpcc.7b00178> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Taastuenergiatehnoloogiate arendamisest Eestis Euroopa rohepöörde võtmes [Võrguväljaanne]**

**Grossberg, Maarja** novaator.err.ee 2020 / fot [Riigikogus toimus konverents "Teadus kui Eesti arengumootor"](#) [Taastuenergiatehnoloogiate arendamisest Eestis Euroopa rohepöörde võtmes \(pdf\)](#)

### **Tailoring of bound exciton photoluminescence emission in WS<sub>2</sub> monolayers**

**Kaupmees, Reelika; Grossberg, Maarja**; Ney, Marcel; **Krustok, Jüri** Physica status solidi - rapid research letters 2020 / art. 1900355, 6 p. : ill <https://doi.org/10.1002/pssr.201900355> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Tailoring of magnetic properties of MnAl thin films by protons irradiation**

Khanduri, Himani; Khan, S.A.; Srivastava, S.K.; **Link, Joosep**; Stern, Raivo; Avasthi, D.K. AIP conference proceedings 2018 <https://doi.org/10.1063/1.5029080>

### **Tallinna Tehnikaülikooli teadlased loovad õhku ja pindu puhastavaid pinnakatteid**

Elektriala 2021 / lk. 13 [https://www.ester.ee/record=b1240496\\*est](https://www.ester.ee/record=b1240496*est)

### **Tallinna Tehnikaülikooli teadlased löid uue põlvkonna päikesepatarei [Võrguväljaanne]**

**Kauk-Kuusik, Marit** novaator.err.ee 2020 / fot [Tallinna Tehnikaülikooli teadlased löid uue põlvkonna päikesepatarei](#)

### **TalTech on kaasaegselt juhitud ülikool**

Heinsoo, Anneli; Jaaksoo, Ülo; Kaldoja, Väino; Kamratov, Ardo; **Kattel, Rainer**; Kitt, Robert; **Õpik, Andres** Postimees 2020 / lk. 15 [https://www.ester.ee/record=b1072778\\*est](https://www.ester.ee/record=b1072778*est) <https://leht.postimees.ee/6975397/vastulause-taltech-on-kaasaegselt-juhitud-ulikool>

### **TalTech tabas uue rohetehnoloogia magistriõppega kümnesse – huvi on rekordiline**

Soopan, Ivar rohe.geenius.ee 2023 [Kuula: 14.06 Rohetund #20: TalTech tabas uue rohetehnoloogia magistriõppega kümnesse – huvi on rekordiline](#)

### **TalTech teel Kuule Päikest võtma**

Vaaks, Eveliis; Raadik, Taavi Trialoog 2025 <https://trialoog.taltech.ee/tehnikaulikool-teel-kuule-paikest-votma/>

### **TalTech toob päikeselise tuleviku**

Ehitaja 2023 / lk. 34-35 : fot [https://www.ester.ee/record=b1072123\\*est](https://www.ester.ee/record=b1072123*est) [https://artiklid.elnet.ee/record=b2904074\\*est](https://artiklid.elnet.ee/record=b2904074*est)

### **TalTechi doktorant arendab uut ja paremat teksakangast**

Imeline Teadus 2021 / lk. 20 : fot [https://www.ester.ee/record=b2747925\\*est](https://www.ester.ee/record=b2747925*est)

### **TalTechi doktorant loob vähekuluvat ning tillukese ökoloogilise jalajäljega teksakangast**

Mente et Manu 2021 / lk. 29 : fot [Mente et Manu 2/2021](#)

### **TalTechi doktorant tahab uue põlvkonna päikesepaneelid Kuule viia**

**Kristmann, Katriin** menu.err.ee 2024 [TalTechi doktorant tahab uue põlvkonna päikesepaneelid Kuule viia](#)

### **TalTechi kaasprofessor: Eestil on plastimure lahendamiseks oma suur võimalus [Võrguväljaanne]**

**Krumme, Andres** aripaev.ee 2022 [TalTechi kaasprofessor: Eestil on plastimure lahendamiseks oma suur võimalus](#)

### **TalTechi keemikud saadavad tsemenditolmu koos süsinikdioksiidiga ringkasutusse**

**Uibu, Mai** Ehitaja 2021 / lk. 36 : fot [https://www.ester.ee/record=b1072123\\*est](https://www.ester.ee/record=b1072123*est) <https://doi.org/10.1007/s10973-020-09349-9>

### **TalTechi keskkonnateadlaste uus osoonimismeetod puhastab vett antibiootikumijääkidest**

Mente et Manu 2020 / lk. 32 <https://dea.digar.ee/cgi-bin/dea?a=is&oid=AKmenteetmanu202011&type=staticpdf>

### **TalTechi professorid kinnitavad: plasttorudest eraldub joogivette kahjulikke kemikaale**

**Niidu, Allan; Preis, Sergei; Annus, Ivar** Ehitaja 2024 / lk. 21-23 : fot [https://www.ester.ee/record=b1072123\\*est](https://www.ester.ee/record=b1072123*est)

### **TalTechi teadlased loovad õhku ja pindasid puhastavaid pinnakatteid**

Mente et Manu 2021 / lk. 28-29 : ill [Mente et Manu 2/2021](#)

### **TalTechi teadlased: viie aastaga laieneb päikeseenergeetika lahenduste valik märgatavalt**

**Oja Acik, Ilona** digi.geenius.ee 2023 [TalTechi teadlased: viie aastaga laieneb päikeseenergeetika lahenduste valik märgatavalt](#)

## **TalTechis arendatakse puidust kestlikke alternatiive plastile**

digi.geenius.ee 2025 <https://digi.geenius.ee/blogi/teadus-ja-tulevik/taltech-teadlased-arendavad-kestlikke-lahendusi-puidu-vaarindamiseks/>

## **TalTechis leiutati viis õhupuhasteid parendada**

Imeline Teadus 2019 / lk. 21 [https://www.ester.ee/record=b2747925\\*est](https://www.ester.ee/record=b2747925*est)

## **Teadlane arutleb: Kuivõrd riidest poekott on keskkonnasõbralik?**

Külaots, Helen kaubandus.ee 2023 [Teadlane arutleb: Kuivõrd riidest poekott on keskkonnasõbralik?](#)

## **Teadlane dilemma ees - kas teha teadust või siseneda ärimaailma**

Grossberg-Kuusk, Maarja TööstusEST 2024 / lk. 10-13 : portr., skeem [https://www.ester.ee/record=b4481084\\*est](https://www.ester.ee/record=b4481084*est)

## **Teadlane dilemma ees – kas teha teadust või siseneda ärimaailma**

Alvela, Ain tootusest.ee 2024 [Teadlane dilemma ees – kas teha teadust või siseneda ärimaailma](#)

## **Teadlane ravimisaastega veest : inimeste hulluksminek võib olla normaalne, aga Läänemere kalade oma mitte**

Lepassalu, Virko Pealinn 2018 / lk. 6-7 : fot <http://www.pealinn.ee/tagid/koik/teadlane-ravimisaastega-veest-inimeste-hulluksminek-voib-olla-n233553>

## **Teadlane selgitab: miks ei tohi ravimeid mingil juhul visata kanalisatsiooni või olmeprügisse**

digi.geenius.ee 2023 [Teadlane selgitab: miks ei tohi ravimeid mingil juhul visata kanalisatsiooni või olmeprügisse](#)

## **Teadlane vastab : kumba siis eelistada – paber- või kilekotti?**

Külaots, Helen kaubandus.ee 2023 [Teadlane vastab: kumba siis eelistada – paber- või kilekotti?](#)

## **Teadlane vastab: mis saab prügikasti visatud kohvitopsist? [Võrguväljaanne]**

Krumme, Andres novaator.err.ee 2021 ["Teadlane vastab: mis saab prügikasti visatud kohvitopsist?"](#)

## **Teadus ja igapäevaelu : teadussaavutuste rakendamine praktikas**

Alvela, Ain Tehnikamaailm 2024 / lk. 68-73 : ill., fot., portr [https://www.ester.ee/record=b1073050\\*est](https://www.ester.ee/record=b1073050*est)

## **Teadus ja unelm : [TTÜs 3.10.2013 Leevi Mölder'i peetud viimase loengu tekst]**

Mölder, Leevi; Mölder, Maila 2018 [https://www.ester.ee/record=b5191724\\*est](https://www.ester.ee/record=b5191724*est)

## **Teadus teab 2021-06-08 [Võrguväljaanne]**

Grossberg, Maarja Kuku Taskuhääling 2021 / audio [Teadus teab 2021-06-08: Maarja Grossberg](#)

## **Teaduskommunikatsiooni konverentsil pälvisid auhinnad Maarja Grossberg-Kuusk ja Mare Kõiva**

akadeemia.ee 2024 [Teaduskommunikatsiooni konverentsil pälvisid auhinnad Maarja Grossberg-Kuusk ja Mare Kõiva](#)

## **Teaduste akadeemia sai juurde kolm uut akadeemikut**

Oidermaa, Jaan-Juhan novaator.err.ee 2023 [Teaduste akadeemia sai juurde kolm uut akadeemikut](#)

## **Techno-economic modelling of the Baltic CCUS onshore scenario**

Šogenova, Alla; Šogenov, Kazbulat; Uibu, Mai; Kuusik, Rein, keemik; Simmer, Karl Baltic Carbon Forum 2022 / p. 4 <https://doi.org/10.21595/bcf.2022.22841>

## **Techno-economic modelling of the Baltic CCUS onshore scenario : [PowerPoint presentation]**

Šogenova, Alla; Šogenov, Kazbulat; Simmer, Karl; Uibu, Mai; Kuusik, Rein, keemik 2022 [https://bcforum.net/forum\\_presentations2022/03\\_03\\_Dr.%20Alla%20Shogenova%20\(TalTech,%20Estonia\)%20.pdf](https://bcforum.net/forum_presentations2022/03_03_Dr.%20Alla%20Shogenova%20(TalTech,%20Estonia)%20.pdf)

## **Techno-economic modelling of the Baltic CCUS onshore scenario for the cement industry supported by CLEANER project**

Šogenova, Alla; Šogenov, Kazbulat; Uibu, Mai; Kuusik, Rein, keemik; Simmer, Karl; Canonico, Fulvio Proceedings of the 15th Greenhouse Gas Control Technologies Conference 15-18 March 2021 / 13 p. : ill <https://ssrn.com/abstract=3817710>  
<https://doi.org/10.2139/ssrn.3817710>

## **Tehnikateaduste valdkonna aastapreemia tööde tsükli "Uute 2D- ja 3D-mitmikpooljuhtide optiline spektroskoopia" eest. Uute 2D- ja 3D-mitmikpooljuhtide optiline spektroskoopia**

Grossberg, Maarja; Krustok, Jüri Eesti Vabariigi preemiad 2021 : teadus. F. J. Wiedemanni keeleauhind. Sport. Kultuur. Haridus 2021 / lk. 94-110 : fot., ill [https://www.ester.ee/record=b1226072\\*est](https://www.ester.ee/record=b1226072*est)

## **Tehnikaülikooli kaasprofessor Marina Kritševskaja räägib paberkottide müüdist ja “keskkonnasõbralikust” loosungist**

Kritševskaja, Marina digi.geenius.ee 2025 <https://digi.geenius.ee/blogi/teadus-ja-tulevik/intervjuu-tehnikaülikooli-kaasprofessor-marina-kritševskaja-raagib-paberkottide-muudist-ja-keskkonnasõbralikust-loosungist/>

**Tehnikaülikooli teadlased leiutasid uudse õhupuhastamise tehnoloogia**

**Bolobajev, Juri** digi.geenius.ee 2024 <https://digi.geenius.ee/blogi/teadus-ja-tulevik/tehnikaulikooli-teadlased-leiutasid-uudse-ohupuhastamise-tehnoloogia/>

**Tehnikaülikoolis toimub täna koolinoorte võistlus «Prügireseptid 2023»**

**Репортаж "АК" с конкурса школьников "Рецепты из мусора"**

postimees.ee 2023 [Tehnikaülikoolis toimub täna koolinoorte võistlus «Prügireseptid 2023»](#) Репортаж "АК" с конкурса школьников "Рецепты из мусора"