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

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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](#)

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#### **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](#)

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

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**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**

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**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](#)

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

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**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**

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

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**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 LiI**

**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](#)

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**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**

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**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 : Mätrafüred 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; Trikkel, 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>

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**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; Trikkel, 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; Trikkel, 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; Trikkel, 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](#)

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### **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; Trikkel, 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://artikid.elnet.ee/record=b2816468\\*est](https://artikid.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\\_Abstacts\\_EMEC20.pdf](https://emec20.p.lodz.pl/files/Book_of_Abstacts_EMEC20.pdf)

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

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#### **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](#)

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

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### **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\\_eaop5\\_prague.pdf](https://photo-catalysis.org/events/901/photo/book_of_proceedings_eaop5_prague.pdf)

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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>

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### **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>

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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](#)

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

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**Kauk-Kuusik, Marit; Timmo, Kristi; Pilvet, Maris; Muska, Katri; Danilson, Mati; Krustok, Jüri; Josepson, Raavo; Mikli, Valdek; Grossberg-Kuusik, 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](#)

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**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**

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

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

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**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.

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**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; Triikkel, Andres Journal of biological inorganic chemistry 2018 / p. 929–937 : ill

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**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-9e31-87205057d560> [https://www.ester.ee/record=b5492121\\*est](https://www.ester.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 =

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

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**Design optimization of permanent magnet clutch**

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

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

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**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**

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**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](#)

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**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

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[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**; **Trikkel, Andres**

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**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](#)  
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### **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**;

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**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](#)

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**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](#)

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**Surženkov, Andrei**; **Viljus, Mart**; **Antonov, Maksim**; **Kübasepp, 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](#)

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

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**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)

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

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**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>

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**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](#)

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

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

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**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](#)

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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**

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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](#)

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

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### 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

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

**Alinejadian, Navid; Kazemi, Sayed Habib; Kollo, Lauri; Grossberg-Kuusik, Maarja; Odnevall, 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 platinaga 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>

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**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\\_Abtracts\\_SMCBS\\_2023.pdf](https://www.smcbs.pl/_ftp/book_of_abstracts/Book_of_Abtracts_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](#)

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**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://fntdk.ut.ee/teesid-2019/>

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**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**  
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**Ferrocene introduced into 5-methylresorcinol-based organic aerogels**  
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**Ferrous ion-activated persulfate 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](#)

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**Fire and mechanical properties of hemp and clay boards for timber structures**  
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**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; Aizstrauts, 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](#)

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**Formation and characterization of stable TiO<sub>2</sub>/Cu<sub>x</sub>O-based solar cells**  
Wis, Grzegorz; Sawicka-Chudy, Paulina; **Sibinski, Maciej**; Yavorskiy, 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>1</sub>ZnSnS<sub>4</sub> monograin powder on molten Cd<sub>11</sub> = Cu<sub>1</sub>ZnSnS<sub>4</sub> moodustumine ja monoterapulbri kasv Cd<sub>11</sub> 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**

Iljina, 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](#)

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**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; Krunkis, 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](#)

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

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**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, Päärm; Vlassov, Sergei; Kook, Mati; Rahn, Mihkel; Sammelselg, Väino; Tammeveski, Kaido; 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](#)

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

Eensalu, Jako Siim; Katerski, Atanas; Mere, Arvo; Krunkis, 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; Krunkis, 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://fmdtk.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

**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

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**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/>

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**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/acsmi.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>FexSn<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://digikoogu.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>

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**Li, Xiaofeng; Kauk-Kuusik, Marit** Tartu Ülikooli ASTRA projekt PER ASPERA : Funktsionaalsed materjalid ja tehnoloogiad : [4.-5.

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**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; Lümkeemann, 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; Lümkeemann, Andreas; Kluson, Jan; Sondor, Jozef; 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

### **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 Cu<sub>1-x</sub>GaxSe<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**

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### **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**

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### **Photo-induced oxidation of ceftriaxone by persulfate in the presence of iron oxides**

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### **Photo-induced persulfate oxidation of emerging micropollutants in water matrices [Online resource]**

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#### **Platinum-free oxygen electrocatalysts and alkaline fuel cell cathodes fabricated from peat**

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#### **Poly(alkanoyl isosorbide methacrylate)s : from amorphous to semicrystalline and liquid crystalline biobased materials**

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#### **Post deposition annealing effect on properties of CdS films and its impact on CdS/Sb<sub>2</sub>Se<sub>3</sub> 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](#)

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**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://fntdk.ut.ee/wp-content/uploads/2020/01/GSFMT2020.pdf>

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**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](#)

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**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://fntdk.ut.ee/teesid/>

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### **Prefab light clay-timber elements for net zero whole-life carbon buildings**

Pääatalo, 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>

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### **Preparation and characterization of SbSeI thin films**

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### **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; **Õpik, Andres**; **Sõritski, 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](#)

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**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)**

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### **Preparation of fibrous electrospun membranes with activated carbon filler**

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### **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](#)

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### **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](#)

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**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  
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**Properties of CuSbSe<sub>2</sub> and Sb<sub>2</sub>Se<sub>3</sub> absorber materials for solar cell applications = Päikeseptareid absorbermaterjalide CuSbSe<sub>2</sub> ja Sb<sub>2</sub>Se<sub>3</sub> omaduste uurimine**

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**Properties of CuSbSe<sub>2</sub> thin film solar cell absorbers deposited by magnetron co-sputtering**

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**Properties of frost-retted hemp fibres for the reinforcement of composites**

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**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 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**

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**Properties of retted hemp fibres for reinforcement of composites**

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Wisz, Grzegorz; Sawicka-Chudy, Paulina; Wal, Andrzej; Sibinski, Maciej; Potera, Piotr; Yavorskyi, Rostyslav; Nykyruy, Lyubomyr; Płoch, 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://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)

**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://fntdk.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://fmdk.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 (Ag<sub>x</sub>Cu<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 l. [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/78446> [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>SI thin films deposited by aerosol methods = Aerosoolmeetoditel sadestatud ZnO:In, Zn(O,S) ja Sb<sub>2</sub>SI õhukeste kilede uurimine**

**Kriisa, Merike** 2017 <https://digi.lib.ttu.ee/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://fmdk.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; Triikkel, 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 Y<sub>123</sub>/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://fntdk.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://fntdk.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

**Najafii, 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://fntdk.ut.ee/programm-2023/>

### Sustainable CO<sub>2</sub>-derived nanoscale carbon support to a platinum catalyst for oxygen reduction reaction

**Najafii, Erkin;** Ratso, Sander; Ivanov, Yurii 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?**

Sooapan, 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 mikrosaaasteaineni 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, Junting; Lin, Yuexia; 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; Paalo, 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://fntdk.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-06a06cafd99> [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; Juškeenas, 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/openresearch.15168.2> <https://open-research-europe.ec.europa.eu/articles/2-138>  
<https://doi.org/10.5281/zenodo.7867349> [Journal metrics at Scopus](#) [Article at Scopus](#)

### 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)

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