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

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**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**

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**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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### **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](#)

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### **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; Trikket, 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; Trikket, Andres** GSFMT Scientific Conference 2020 : Tallinn, February 4-5, 2020 : abstracts 2020 / p. 87 <http://fmdtk.ut.ee/wp-content/uploads/2020/01/GSFMT2020.pdf>

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### **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**

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### **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**

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### **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**

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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**

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

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

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### **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**

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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 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)

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

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**Comprehensive study of photoluminescence and device properties in Cu<sub>2</sub>Zn(Sn<sub>1-x</sub>G<sub>x</sub>)S<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-Kuusik, Maarja** Solar energy materials and solar cells 2024 / art. 113124 <https://doi.org/10.1016/j.solmat.2024.113124>  
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**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>

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

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

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**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**

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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**

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

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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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### 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>

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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

<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

<https://doi.org/10.1016/j.wear.2016.11.032> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**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://fmdtk.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 teksakanga 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

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**Effect of germanium incorporation on the properties of kesterite Cu<sub>2</sub>ZnSn(S,Se)<sub>4</sub> monograins**

Oueslati, Souhaib; Grossberg, Maarja; Kauk-Kuusik, Marit; Mikli, Valdek; Ernits, Kaia; Meissner, Dieter; Krustok, Jüri Thin solid

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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;

Kaljuvee, Tiit; Mikli, Valdek; Sedrik, Rauno; Krumme, Andres Cellulose 2024 / p. 4911-4927 [https://doi.org/10.1007/s10570-024-](https://doi.org/10.1007/s10570-024-05920-x)

[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; Mühl, Fred; Mühl,

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**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. :

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**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,

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**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;

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**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> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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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](#)

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

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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](#)

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

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

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

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#### **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**

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**High temperature tribological properties of Al2O3/NCD films investigated under ambient air conditions**

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

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**Hospital wastewater treatment with pilot-scale pulsed corona discharge for removal of pharmaceutical residues**

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**Identification of excitons and biexcitons in Sb<sub>2</sub>Se<sub>3</sub> under high photoluminescence excitation density**

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**Influence of A-Site Deficiency and Ca Concentration on the Electrical and Crystallographic Properties of (Nd<sub>0.2</sub>Sr<sub>0.7-x</sub>Cax)YTi<sub>0.95</sub>Fe<sub>0.05</sub>O<sub>3-δ</sub>-Based Fuel Electrode for Solid Oxide Cells**

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#### **Radiative recombination model for BiSeI microcrystals : unveiling deep defects through photoluminescence**

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**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**

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**Reactive extrusion of cellulose esters in ionic liquid: Exploring properties and performance across different cellulose types and degree of polymerizations**

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**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  
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### **Structural, mechanical, and optical properties of laminate-type thin film SWCNT/SiOxNy 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> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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**Omranpour Shahreza, Babak** 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. 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; Płoch, Dariusz; Bester, Mariusz; Cholewa, Marian; Chernikova, Olena M. Applied Sciences 2023 / 13 p. : ill  
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### **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)

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### **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  
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**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://fntdk.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 kasutamine 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)

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Pilvet, Maris 2017 <https://digi.lib.ttu.ee/78446> [https://www.ester.ee/record=b4689398\\*est](https://www.ester.ee/record=b4689398*est)

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**Study of point defects in wide- bandgap Cu<sub>2</sub>CdGeS<sub>4</sub> microcrystals by temperature and laser power dependent photoluminescence spectroscopy**

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**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/77676> [https://www.ester.ee/record=b4676437\\*est](https://www.ester.ee/record=b4676437*est)

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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>  
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**Study of the properties of TiO<sub>2</sub> thin films deposited by ultrasonic spray pyrolysis [Online resource]**

Chen, Z.; Oja Acik, Ilona; Dünder, Ibrahim; Mere, Arvo 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/>

**Study of the structure and optoelectronic properties of Cu<sub>2</sub>Ge(S<sub>1-x</sub>Se<sub>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  
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**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](https://www.gsfmt.ee/abstracts/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; Trikkel, 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  
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[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  
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**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**

**Gromöko, 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]**

**Gromöko, 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 co2-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://fntdk.ut.ee/programm-2023/>

**Sustainable co2-derived nanoscale carbon support to a platinum catalyst for oxygen reduction reaction**

**Najafli, 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?**

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 mikrosasteaineni 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)

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**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, Juntong; Lin, Yuexia; Sheng, Binbin; Qiu, Guanglei; **Preis, Sergei**; Wei, Chaohai Water research 2024 / art. 121741 <https://doi.org/10.1016/j.watres.2024.121741> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**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  
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### 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; Härmas, Meelis; Adamson, Anu; **Volobujeva, Olga**; Härk, Eneli; Kochovski, Zdravko; Romann, Tavo; Härmas, 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 I. [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 I. [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-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]

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