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Andres Krumme: plastimurest vabaks puidust toodetava bioplasti abil

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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

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

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

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

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

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Photopolymerized molecularly imprinted polymer tailored for electrochemical detection of brain-derived neurotrophic factor on screen-printed electrodes

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

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Post deposition annealing effect on properties of CdS films and its impact on CdS/Sb₂Se₃ solar cells performance

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A post-deposition annealing approach for organic residues control in TiO₂ and its impact on Sb₂Se₃/TiO₂ device performance

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Post-deposition thermal treatment of sprayed SnS films

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Post-deposition thermal treatment of sprayed SnS films [Online resource]

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

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Preparation of a surface-grafted protein-selective polymer film by combined use of controlled/living radical photopolymerization and microcontact imprinting

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Processing of lignocellulose in ionic liquids : a cleaner and sustainable approach

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Professor Jaan Kers selgitab, kuidas TalTechi laboris muutub puit rõivaks

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Progress and perspectives of nanomaterials for nioenergy production

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Properties of chitin extracted from Estonian mushrooms

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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 CuSbSe₂ 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

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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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Propolis nanofibers : development and effect against SARS-CoV-2 virus and S. aureus, S. enterica bacteria

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Protein-responsive polymer film prepared via combined use of controlled/living radical photopolymerization and microcontact imprinting [Online resource]

Kidakova, Anna; Sõritski, Vitali; Reut, Jekaterina; Öpik, Andres Tartu Ülikooli ASTRA projekt PER ASPERA : Funktsionaalsed materjalid ja tehnoloogiad : [7-8 märtsil 2018, Tallinn : teesid] GSFMT Scientific Conference 2018 : Tallinn, March 7-8, 2018 : abstracts 2018 / 1 p <http://fntdk.ut.ee/teesid-2018/>

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Puidu ja puittoodete vastupidavus : kaitsevahendiga immutatud täispuit. Osa 1, Kaitsevahendi läbitavuse ja sissejäävuse liigitus = Durability of wood and wood-based products : preservative-treated solid wood. Part 1, Classification of preservative penetration and retention

2023 https://www.ester.ee/record=b5562368*est

Puidu ja puittoodete vastupidavus : kaitsevahendiga immutatud täispuit. Osa 2, Juhised proovivõtu kohta kaitsevahendiga immutatud puidu analüüsiks = Durability of wood and wood-based products : preservative-treated solid wood. Part 2, Guidance on sampling for the analysis of preservative-treated wood

2023 https://www.ester.ee/record=b5562418*est

Puidu ja puittoodete vastupidavus : toimivuse määramise juhend = Durability of wood and wood-based products : guidance on performance

2023 https://www.ester.ee/record=b5547997*est

Puidu ja puittoodete vastupidavus [Võrguteavik] : kaitsevahendiga immutatud täispuit. Osa 1, Kaitsevahendi läbitavuse ja sissejäävuse liigitus = Durability of wood and wood-based products : preservative-treated solid wood. Part 1, Classification of preservative penetration and retention

2017 http://www.ester.ee/record=b4758737*est

Puidu liimimine, inseneripuidust toodete ja puitplaatide valmistamine

Puidutöötlemise õpik 2025 / lk. 268-374 : ill <https://digikogu.taltech.ee/et/Item/32f67368-0b3f-4f3d-9c57-26b8d9d7bc93>
https://www.ester.ee/record=b5714083*est

Puidu lõiketöötus

Kallakas, Heikko; Luga, Üllar; Riistop, Märt Puidutöötlemise õpik 2025 / lk. 12-96 : ill., fot https://www.ester.ee/record=b5714083*est
<https://digikogu.taltech.ee/et/Item/32f67368-0b3f-4f3d-9c57-26b8d9d7bc93>

Puidu pinnatöötus, viimistlusmaterjalid ja -tehnoloogiad

Kers, Jaan Puidutöötlemise õpik 2025 / lk. 449-545 : ill https://www.ester.ee/record=b5714083*est
<https://digikogu.taltech.ee/et/Item/32f67368-0b3f-4f3d-9c57-26b8d9d7bc93>

Puidu tulevikukasutus on korrusmajades ja kõrghoonetes

Kers, Jaan Maaleht 2018 / lk. 18 <https://maaleht.delfi.ee/artikkel/82058059/puidu-tulevikukasutus-on-korrusmajades-ja-korgphoonetes>

Puidu uus tulemine

Kers, Jaan Horisont 2022 / lk. 14-19 : fot https://www.ester.ee/record=b1072243*est

Puidust põrandakate [Võrguteavik] : täispuidust üksikud ja eelkoostatud lehtpuulauad = Wood flooring : solid individual and pre-assembled hardwood boards

2020 https://www.ester.ee/record=b5366547*est

Puidust saab nii toitu kui kütust, nafta jääb maa alla

Kartau, Mari Maaleht 2023 / Lk. 46-47 <https://dea.digar.ee/article/maaleht/2023/04/27/41.4>

Puidutöötlemise õpik

2025 <https://digikogu.taltech.ee/et/Item/32f67368-0b3f-4f3d-9c57-26b8d9d7bc93> https://www.ester.ee/record=b5714083*est

Puitkonstruktsioonid : nelinurkse ristlõikega tugevussorditud ehituspuit. Osa 2, Masinsortimine. Täiendavad nõuded esmasteks tüübi katsetusteks = Timber structures : strength graded structural timber with rectangular cross section. Part 2, Machine grading; additional requirements for initial type testing

2022 https://www.ester.ee/record=b5509628*est

Puitkonstruktsioonid : nelinurkse ristlõikega tugevussorditud ehituspuit. Osa 3, Masinsortimine. Täiendavad nõuded tootmisohjele ettevõttes = Timber structures : strength graded structural timber with rectangular cross section. Part 3, Machine grading; additional requirements for factory production control

2022 https://www.ester.ee/record=b5509636*est

Puitplaatide töötus

Kiiman, Karmo; Riistop, Märt Puidutöötlemise õpik 2025 / lk. 375-405 : ill <https://digikogu.taltech.ee/et/Item/32f67368-0b3f-4f3d-9c57-26b8d9d7bc93> https://www.ester.ee/record=b5714083*est

Pulse electrodeposited zinc sulfide as an eco-friendly buffer layer for the cadmium-free thin-film solar cells

Boosagulla, Divya; **Mandati, Sreekanth;** Misra, Prashant; Allikayala, Ramachandraiah; Sarada, Bulusu V. Superlattices and microstructures 2021 / art. 107060 <https://doi.org/10.1016/j.spmi.2021.107060>

Pulsed corona discharge for improving treatability of coking wastewater

Liu, Ming; **Preis, Sergei;** Kornev, Iakov; Hu, Yun; Wei, Chao-Hai Journal of environmental sciences 2018 / p. 306-316 : ill <https://doi.org/10.1016/j.jes.2017.07.003>

Pulsed laser deposition of chalcogenide sulfides from multi- and single-component targets: the non-stoichiometric material transfer

Schou, Jorgen; Gansukh, Mungunshagai; Ettlinger, Rebecca B.; Cazzaniga, Andrea; **Grossberg, Maarja; Kauk-Kuusik, Marit;** Canulescu, Stela Applied physics. A, Materials science & processing 2018 / Art. nr. 78 <https://doi.org/10.1007/s00339-017-1475-3>
[Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Pulsed laser deposition of Zn(O,Se) layers for optoelectronic application

Polivtseva, Svetlana; Spalatu, Nicolae; Abdalla, Akram; Volobujeva, Olga; Hiie, Jaan; Bereznev, Sergei ACS Applied Energy Materials 2018 / p. 6505-6512 : ill <http://dx.doi.org/10.1021/acsam.8b01431>

Pulsed laser deposition of Zn(O,Se) layers for optoelectronic applications

Ibrahim, Akram Abdalla Mohammed; Bereznev, Sergei GSFMT Scientific Conference 2021 : Tartu, June 14-15, 2021 : abstracts 2021 / O 13 https://fntdk.ut.ee/wp-content/uploads/2021/06/GSFMT_abstractbook_2021.pdf

Pulsed laser deposition of Zn(O,Se) layers for optoelectronic applications = Impulsslaser-sadestatud Zn(O,Se) kiled optoelektronseteks rakendusteks

Ibrahim, Akram Abdalla Mohammed 2021 <https://digikogu.taltech.ee/et/Item/0d07be7f-3737-4350-9de4-80f32df036de>
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Kauk-Kuusik, Marit; Grossberg, Maarja; Oja Acik, Ilona; Krunks, Malle Teadusmõtte Eestis (X). Tehnikateadused. 3 : [artiklikogumik] 2019 / lk. 59-65 : ill., fot https://www.ester.ee/record=b5208765*est

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Piir, Rait novaator.err.ee 2023 [Päikeseneergeetika tulevikku kujundavad kilepinnad ja tandempaneelid](#)

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Grossberg-Kuusk, Maarja postimees.ee 2024 [Päikeseneergeetika väljakutse: mis saab päikesepaneelidest elukaare lõpus?](#)

Päikesepaneelid ja korteriühistud: müüdid vs. tegelikkus [Võrguväljaanne]

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Eensalu, Jako Siim novaator.err.ee 2021 ["Päikesepatareidest klaasid muudavad akna elektrienergia allikaks"](#)

Pärispea seltsimajas lõppes taaskasutuse töötubade pilootprojekt

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Pyrite as promising monograin layer solar cell absorber material for in-situ solar cell fabrication on the Moon

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Pyrite as prospective absorber material for monograin layer solar cell

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Pyrite based solar panel in-situ production on the Moon for space-based solar power

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Kristmann, Katriin; Raadik, Taavi; Altosaar, Mare; Grossberg-Kuusk, Maarja; Krustok, Jüri; Pilvet, Maris; Mikli, Valdek; Kauk-Kuusik, Marit; Makaya, Advenit IAC 2022 congress proceedings 2022 / art. 190266 [Pyrite FeS₂ solar cells fabrication for lunar base energy production](#) [Conference proceedings at Scopus](#) [Article at Scopus](#)

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

Dolcet Sadurni, Marc; Krustok, Jüri; Timmo, Kristi; Mikli, Valdek; Kondrotas, Rokas; Grossberg-Kuusk, Maarja; Kauk-Kuusik, Marit Journal of Physics Energy 2024 / art. 045004 <https://doi.org/10.1088/2515-7655/ad8377>

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Rapid thermal processing of Kesterite thin films

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Rational design of highly efficient flexible and transparent p-type composite electrode based on single-walled carbon nanotubes

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Leinemann, Inga; Pilvet, Maris; Kaljuvee, Tiit; Traksmäa, Rainer; Altosaar, Mare Journal of thermal analysis and calorimetry 2018 / p. 433-441 <https://doi.org/10.1007/s10973-018-7415-4> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Reaction pathway to Cu₂ZnSnSe₄ formation in CdI₂ : part 1. Chemical reactions and enthalpies in mixtures of CdI₂-ZnSe, CdI₂-SnSe, and CdI₂-CuSe

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Reduced recombination through the CZTS/CdS interface engineering in monograin layer solar cells

Kauk-Kuusik, Marit; Timmo, Kristi; Muska, Katri; Pilvet, Maris; Krustok, Jüri; Danilson, Mati; Mikli, Valdek; Josepson, Raavo; Grossberg, Maarja JPhys Energy 2022 / art. 024007 <https://doi.org/10.1088/2515-7655/ac618d> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

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Kuusik, Rein, keemik Jõgeva Keskkooli XI lenu lugu 1959-2019 2019 / lk. 52-53 : fot https://www.ester.ee/record=b5232099*est

Reis NASAsse on peaaegu nagu reis kosmosesse

Kristmann, Katriin Mente et Manu 2024 / lk. 42-44 : fot https://www.ester.ee/record=b1242496*est

Relations between metal ion characteristics and adsorption performance of graphene oxide: A comprehensive experimental and theoretical study

Kong, Qiaoping; **Preis, Sergei**; Li, Leli; Luo, Pei; Wei, Cong; Li, Zemin; Hu, Yun; Wei, Chao; Separation and purification technology 2020 / art. 115956 ; 8 p. : ill <https://doi.org/10.1016/j.seppur.2019.115956> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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Renewable cellulosic nanocomposites for food packaging to avoid fossil fuel plastic pollution: a review

Qasim, Umair; Osman, Ahmed I.; Al-Muhtaseb, A.; Farrell, C.; Al-Abri, M.; Ali, M.; Vo, D.-V. N.; Jamil, F.; Rooney, D. W. Environmental chemistry letters 2021 / p. 613-641 <https://doi.org/10.1007/s10311-020-01090-x>

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A Review on graphene-based electrospun conductive nanofibers, supercapacitors, Anodes, and cathodes for lithium-ion batteries

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Riiklike tehnikaprofessuuride ees seisab rida väljakutseid

Kers, Jaan TõstusEST 2023 / lk. 32-34 : ill https://www.ester.ee/record=b4481084*est

Riiklike tehnikaprofessuuride väljakutsed roheleppe, ringmajanduse ja digiteerimise valguses

Kers, Jaan Mente et Manu 2022 / lk. 26-27 https://www.ester.ee/record=b1242496*est

Ringmajanduse võimalustest päikeseenergeetikas

Grossberg-Kuusk, Maarja Sirp 2024 / lk. 31-32 : ill <https://www.sirp.ee/ringmajanduse-voimalustest-paikeseenergeetikas/>

Robert Krautmann, "Päikesepatareid annavad vunki värvkõrguseadmetele". Teadus 3 minutiga 2022.11.02

Krautmann, Robert Eesti Teaduste Akadeemia : Youtube kanal 2022 / video [Robert Krautmann, "Päikesepatareid annavad vunki värvkõrguseadmetele". Teadus 3 minutiga 2022.11.02 „Teadus 3 minutiga“ finaalgala 2022. 11.02.2022](#)

Roheleppega seotud väljakutsed - kas võtame need vastu?

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Rohepööre eraisiku vaates – kust oodata häid uudiseid, et muuta oma tarbimine rohelisemaks?

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Routes to develop a [S]/([S]+[Se]) gradient in wide band-gap Cu₂ZnGe(S,Se)₄ thin-film solar cells

Ruiz-Perona, Andrea; Gurieva, Galina; Sun, Michael; Kodalle, Tim; Sanchez, Yudania; **Grossberg, Maarja**; Merino, Jose Manuel; Schorr, Susan; Leon, Maximo; Caballero, Raquel Journal of alloys and compounds 2021 / art. 159253, 9 p. : ill <https://doi.org/10.1016/j.jallcom.2021.159253> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Ruthenium oxide electrode integrated with molecularly imprinted polymer for direct electrochemical sensing of a neurotrophic factor protein

Ayankojo, Akinrinade George; **Reut, Jekaterina**; **Boroznjak, Roman**; **Sõritski, Vitali** Sensors and Actuators B: Chemical 2025 /

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Rõivatööstus ja -tarbimine: uus suund - jätkusuutlikkus

Prints, Kairi Kestlik Eesti 2024 / lk. 64-69 https://www.ester.ee/record=b5678518*est

Saematerjali ja spooni kuivatus, puidu modifitseerimine

Kallakas, Heikko; Poltimäe, Triinu; Reiska, Rein; Riistop, Märt Puidutöötlemise õpik 2025 / lk. 172-237 : ill

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Saematerjali ja spooni tootmine

Kallakas, Heikko; Riistop, Märt Puidutöötlemise õpik 2025 / lk. 94-171 : ill., fot https://www.ester.ee/record=b5714083*est

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Sammhaaval üha paremate päikesepatareide poole

Käärt, Ulvar postimees.ee 2024 [Sammhaaval üha paremate päikesepatareide poole](#)

Sammhaaval üha paremate päikesepatareide poole

Grossberg-Kuusk, Maarja Horisont 2024 / lk. 16-22 : fot https://www.ester.ee/record=b1072243*est

Sb2S3 solar cells with a cost-effective and dopant-free fluorene-based enamine as a hole transport material

Juneja, Nimish; Mandati, Sreekanth; Katerski, Atanas; Spalatu, Nicolae; Daskeviciute-Geguziene, Sarune; Vembris, Aivars; Karazhanov, Smagul; Getautis, Vytautas; **Krunks, Malle; Oja Acik, Ilona** Sustainable Energy & Fuels 2022 / p. 3220-3229

<https://doi.org/10.1039/D2SE00356B> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Sb2S3 solar cells with TiO2 electron transporting layers synthesized by ALD and USP methods

Dedova, Tatjana; Krautmann, Robert; Rusu, Marin; **Katerski, Atanas; Krunks, Malle;** Unold, Thomas; **Spalatu, Nicolae; Mere, Arvo; Sydorenko, Jekaterina; Sibinski, Maciej; Oja Acik, Ilona** Solar energy materials and solar cells 2025 / art. 113279

<https://doi.org/10.1016/j.solmat.2024.113279>

SB2S3 thin film solar cells by ultrasonic spray pyrolysis

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Sb2S3 thin films by ultrasonic spray pyrolysis of antimony ethyl xanthate

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