Adaptive frequency-based power management for off-grid hybrid photovoltaic converters
Gonschorowsk, Ezequiel; Cardoso, Rafael; **Carvalho da Silva, Edivan Laercio**; **Stein, Carlos Marcelo De Oliveira**; Carati, Emerson Giovani; Denardin, Gustavo Weber; da Costa, Jean Patric Eletronica de potencia 2024 / art. e202440 https://doi.org/10.18618/REP.e202440

Ageing of kesterite solar cells 1 : Degradation processes and their influence on solar cell parameters
Neubauer, Christian; **Samieipour, Ali**; **Oueslati, Souhaib**; **Danilson, Mati**; **Meissner, Dieter** Thin solid films 2019 / p. 595-599 : ill https://doi.org/10.1016/j.tsf.2018.11.043 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Ageing of kesterite solar cells 2 : Impact on photocurrent generation
Samieipour, Ali; **Neubauer, Christian**; **Oueslati, Souhaib**; **Mikli, Valdek**; **Meissner, Dieter** Thin solid films 2019 / p. 509-513 : ill https://doi.org/10.1016/j.tsf.2018.11.044 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Ainult enda päikesepaneelidest jääb energiakindluse tagamiseks väheks
Raig, Tanel TööstusEST 2020 / lk. 50-53 : fot http://www.ester.ee/record=b4481084*est https://toostusest.ee/uudis/2020/09/23/ainult-enda-paikesepaneelidest-jaab-energiakindluse-tagamiseks-vaheks/

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

An alternative chlorine-assisted optimization of CdS/Sb2Se3 solar cells : towards understanding of chlorine incorporation mechanism
Gopi, Sajeesh Vadakkedath; **Spalatu, Nicolae**; **Katerski, Atanas**; Kulicek, Jaroslav; Razek, Bohuslav; Ukraintsev, Egor; Barinkova, Marketa Šlapal; Zoppi, Guillaume; **Krunks, Malle**; **Oja Acik, Ilona** Journal of alloys and compounds 2024 / art. 176175 https://doi.org/10.1016/j.jallcom.2024.176175

Amorphous Zn(O,Se) buffer layer for Cu(In,Ga)Se2 thin film solar cells
Abdalla, Akram; **Danilson, Mati**; **Oueslati, Souhaib**; **Pilvet, Maris**; **Bereznev, Sergei** Materials science in semiconductor processing 2021 / art. 105862 https://doi.org/10.1016/j.mssp.2021.105862 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Analysis of cost function composition based on the horizon time prediction of an indirect MPC current control in single-phase grid-connected PV inverters
Pimentel, Sergio Pires; **Husev, Oleksandr**; **Vinnikov, Dmitri**; **Stepenko, Serhii** 2019 IEEE 60th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON), 7-9 October 2019 : conference proceedings 2019 / 6 p. : ill https://doi.org/10.1109/RTUCON48111.2019.8982377

Analysis of grain orientation and defects in Sb2Se3 solar cells fabricated by close-spaced sublimation
Krautmann, Robert; **Spalatu, Nicolae**; Gunder, Rene; Abou-Ras, Daniel; Unold, Thomas; Schorr, Susan; **Oja Acik, Ilona**; **Krunks, Malle** GSFMT Scientific Conference 2021 : Tartu, June 14-15, 2021 : abstracts 2021 / P 17 https://fmtdk.ut.ee/wp-content/uploads/2021/06/GSFMT_abstractbook_2021.pdf

Analysis of grain orientation and defects in Sb2Se3 solar cells fabricated by close-spaced sublimation : [journal article]
Krautmann, Robert; **Spalatu, Nicolae**; Gunder, Rene; Abou-Ras, Daniel; Unold, Thomas; Schorr, Susan; **Krunks, Malle**; **Oja Acik, Ilona** Solar energy 2021 / p. 494-500 https://doi.org/10.1016/j.solener.2021.07.022 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Application of modulation spectroscopy methods in photovoltaic materials research = Modulatsioonspektroskoopia meetodite rakendamine päikeseenergeetika materjalide uurimiseks
Raadik, Taavi 2015 https://digi.lib.ttu.ee/i/?2521 https://www.ester.ee/record=b4482452*est

Asjade interneti levikule tõotavad anda hoogu erilised päikesepaneelid
Sibinski, Maciej novaator.err.ee 2024 Asjade interneti levikule tõotavad anda hoogu erilised päikesepaneelid

Asymmetric NDI electron transporting SAM materials for application in photovoltaic devices
Svirskaite, Lauryna Monika; **Mandati, Sreekanth**; **Spalatu, Nicolae**; Malinauskiene, Vida; Karazhanov, Smagul; Getautis, Vytautas; Malinauskas, Tadas Synthetic metals 2022 / art. 117214 https://doi.org/10.1016/j.synthmet.2022.117214 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

The band structure of CuInTe2 studied by optical reflectivity
Yakushev, Michael V.; Mudrov, Andrej; **Kärber, Erki** Applied physics letters 2019 / art. 062103, 4 p. : ill https://doi.org/10.1063/1.5079971 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Battery size optimization with customer PV installations and domestic load profile
Shabbir, Noman; **Kütt, Lauri**; **Astapov, Victor**; Jawad, Muhammad; Allik, Alo; **Husev, Oleksandr** IEEE Access 2022 / p. 13012-13025 : ill https://doi.org/10.1109/ACCESS.2022.3147977 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at

WOS

Broad-band photoluminescence of donor-acceptor pairs in tetrahedrite Cu10Cd2Sb4S13 microcrystals
Krustok, Jüri; **Raadik, Taavi**; **Kaupmees, Reelika**; **Ghisani, Fairouz**; **Timmo, Kristi**; **Altosaar, Mare**; **Mikli, Valdek**; **Grossberg, Maarja** Journal of physics D: applied physics 2021 / art. 105102, 7 p. : ill https://doi.org/10.1088/1361-6463/abce29 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Bulk and interface recombination in TiO2/Sb2Se3 solar cells
Krautmann, Robert; **Josepson, Raavo**; **Spalatu, Nicolae**; **Oja Acik, Ilona** Graduate School of Functional Materials and Technology (GSFMT) Scientific Conference : abstracts 2022 / p. 28 Graduate School of Functional Materials and Technology (GSFMT) Scientific Conference 2022

Carrier collection losses in interface passivated amorphous silicon thin-film solar cells
Neumüller, A.; **Bereznev, Sergei**; Ewert, M.; **Volobujeva, Olga** Applied physics letters 2016 / p. 043903-1 - 043903-4 : ill https://doi.org/10.1063/1.4959995 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Characterisation of ultrasonically sprayed InxSy buffer-layers for Cu(In,Ga)Se2 solar cells
Ernits, Kaia; Bremaud, D.; **Mellikov, Enn** Thin solid films 2007 / 15, p. 6051-6054 https://www.sciencedirect.com/science/article/abs/pii/S0040609006016178

Characterization of Cu2ZnSnSe4 monograin layer solar cells
Altosaar, Mare; **Timmo, Kristi**; **Danilson, Mati**; **Raudoja, Jaan**; **Mellikov, Enn** Proceedings of the International Conference on Solar Cells : IC-SOLACE 2008 : January 21-23, 2008, Cochin, India 2008 / p. 103-105 : ill

Characterization of FeS2 pyrite microcrystals synthesized in different flux media
Kristmann, Katriin; **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 sprayed large grain CuInS2 as absorbers for solar cells
Krunks, Malle; **Mere, Arvo**; **Kijatkina, Olga**; **Rebane, Helen**; **Mikli, Valdek** 20-th NSM : Tampere, 2003 2003

Characterization of ZnO-nanorod/In2S3/CuInS2 solar cell, and properites of the constituent layers
Kärber, Erki TÜ ja TTÜ doktorikool "Funktsionaalsed materjalid ja tehnoloogiad" : 04.-05. märts 2014, Tartu 2014 / [1] p

Charge selective contact on ultra-thin In(OH)xSy/Pb(OH)xSy heterostructure prepared by SILAR
Gavrilov, S.; **Oja Acik, Ilona**; Lim, B. Physica status solidi (a) 2006 / 5, p. 1024-1029 : ill https://onlinelibrary.wiley.com/doi/pdf/10.1002/pssa.200521468

Chemical bath deposition of SnS thin films on ZnS and CdS substrates
Safonova, Maria; Nair, Padmanabhan Pankajakshy Karunakaran; **Mellikov, Enn**; Garcia, A. R.; **Kerm, Karin**; **Revathi, Naidu**; Romann, Tavo; **Mikli, Valdek**; **Volobujeva, Olga** Journal of materials science : materials in electronics 2014 / p. 3160-3165 : ill https://doi.org/10.1007/s10854-014-1998-8 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Chemical composition of sprayed copper indium disulfide films for nanostructured solar cells = Pihustatud vaskindiumdisulfiid-kilede keemiline koostis ja rakendus nanostruktuursetes päikesepatareides
Katerski, Atanas 2011 https://digi.lib.ttu.ee/i/?524

Chemical etching of tetrahedrite Cu10Cd2Sb4S13 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 incorporation of copper into indium selenide thin-films for processing of CuInSe2 solar cells
Hibberd, C.J.; **Ernits, Kaia**; Kaelin, M.; Mueller, U.; Tiwari, A.N. Progress in photovoltaics : research and applications 2008 / 7, p. 585-593 : ill

Chemical treatment of tetrahedrite Cu10Cd2Sb4S13 monograin powder
Ghisani, Fairouz; **Timmo, Kristi**; **Altosaar, Mare** GSFMT Scientific Conference 2020 : Tallinn, February 4-5, 2020 : abstracts 2020 / p. 24 http://fmtdk.ut.ee/wp-content/uploads/2020/01/GSFMT2020.pdf

Chemistry of CdCl2:O2 flux for CdTe solar cell technology
Hiie, Jaan; **Valdna, Vello**; **Kois, Julia**; Danilson, Mati; **Mikli, Valdek** Proceedings of the 19th EPVSECE conference 2004 / p. 927

Comparative study of siox layers deposition using thermal and uv-assisted curing of perhydropolysilazane
Shmagina, Elizaveta; **Bereznev, Sergei** GSFMT Scientific Conference 2021 : Tartu, June 14-15, 2021 : abstracts 2021 / P 50

https://fmtdk.ut.ee/wp-content/uploads/2021/06/GSFMT_abstractbook_2021.pdf

Comparative study of SnS recrystallization in molten CdI2, SnCl2 and KI
Timmo, Kristi; **Kauk-Kuusik, Marit**; **Pilvet, Maris**; **Mikli, Valdek**; **Kärber, Erki**; **Raadik, Taavi**; **Leinemann, Inga**; **Altosaar, Mare**; **Raudoja, Jaan** Physica status solidi (c) 2016 / p. 8-12 : ill https://doi.org/10.1002/pssc.201510082 Journal metrics at Scopus Article at Scopus Article at WOS

Comparative study of thin films prepared by different curing methods of perhydropolysilazane
Shmagina, Elizaveta; **Danilson, Mati**; **Mikli, Valdek**; **Bereznev, Sergei** Graduate School of Functional Materials and Technology (GSFMT) Scientific Conference : abstracts 2022 / art. 54 Graduate School of Functional Materials and Technology (GSFMT) Scientific Conference 2022

Comparison of performance of phase-shift and asymmetrical pulse width modulation techniques for the novel galvanically isolated buck-boost dc-dc converter for photovoltaic applications
Vinnikov, Dmitri; **Chub, Andrii**; **Kosenko, Roman**; Zakis, Janis; **Liivik, Elizaveta** IEEE journal of emerging and selected topics in power electronics 2017 / p. 624-637 : ill https://doi.org/10.1109/JESTPE.2016.2631628 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Compositionally tunable structure and optical properties of Cu1.85(CdxZn1 − x)1.1SnS4.1 (0 ≤ x ≤ 1) monograin powders
Pilvet, Maris; **Kauk-Kuusik, Marit**; **Altosaar, Mare**; **Grossberg, Maarja**; **Danilson, Mati**; **Timmo, Kristi**; **Mere, Arvo**; **Mikli, Valdek** Thin solid films 2015 / p. 180-183 : ill https://doi.org/10.1016/j.tsf.2014.10.091 Conference Proceedings at Scopus Article at Scopus Conference Proceedings at WOS Article at WOS

Comprehensive study of photoluminescence and device properties in Cu2Zn(Sn1−xGex)S4 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

Conductive polymer back contact in CdTe based solar cell
Bereznev, Sergei; **Kois, Julia**; **Volobujeva, Olga**; **Öpik, Andres** EMRS-2009 Spring Meeting, Strasbourg, France, 8-12 of June 2009, Symposium A 2009 / p. 25

Control of multiport partial power converters for PV-battery systems integration in DC microgrids
Yadav, Neelesh; **Mitra, Tuhin**; Makkieh, Ahmad; **Chub, Andrii** 2025 IEEE Seventh International Conference on DC Microgrids (ICDCM) 2025 / 6 p http://doi.org/10.1109/ICDCM63994.2025.11144705

Control over MoSe2 formation with vacuum-assisted selenization of one-step electrodeposited Cu-In-Ga-Se precursor layers
Mandati, Sreekanth; Misra, Prashant; Boosagulla, Divya; Tata, Narasinga Rao; Bulusu, Sarada V. Environmental science and pollution research 2021 / p. 15123-15129 : ill https://doi.org/10.1007/s11356-020-11783-z

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

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

Cost-effective fluorene and thiophene containing hole conductors towards semi-transparent Sb2S3 absorber-based solar cells
Mandati, Sreekanth; **Juneja, Nimish**; **Katerski, Atanas**; Jegorove, Aiste; Daskeviciute-Geguziene, Sarune; Grzibovskis, Raitis; Vembris, Aivars; **Spalatu, Nicolae**; Magomedov, Artiom; Karazhanov, Smagul; Getautis, Vytautas; **Krunks, Malle**; **Oja Acik, Ilona** WCPEC-8 : 8th World Conference on Photovoltaic Energy Conversion 2022 / p. 470-473 https://doi.org/10.4229/WCPEC-82022-2BV.2.70

Cost-effective sprayed CuInS2 films for solar cells
Krunks, Malle; **Kijatkina, Olga**; Blums, J.; **Oja, Ilona**; **Mere, Arvo**; **Mellikov, Enn** Seventeenth European Photovoltaic Solar Energy Conference : proceedings of the International Conference held in Munich, Germany, 22-26 October, 2001. Volume II 2002 / p. 1211-1214 : ill

CZTS (Cu2ZnSnSe4) crystal growth for use in monograin membrane solar cells
Klavina, Inga; **Raudoja, Jaan**; **Altosaar, Mare**; **Mellikov, Enn**; **Meissner, Dieter**; **Kaljuvee, Tiit** Conference proceedings of the Conference of Young Scientists on Energy Issues : Kaunas, Lithuania, 27-28 May, 2010 2010 / p. VII 345 - VII 353

CZTS (Kesterite) monograin membranes for photoelectrochemical water splitting (preparation and characterization)
Kouhiisfahani, Elham; **Samieipour, Ali**; **Meissner, Dieter** TÜ ja TTÜ doktorikool "Funktsionaalsed materjalid ja tehnoloogiad" : 04.-05. märts 2014, Tartu 2014 / [1] p. : ill

Cu2ZnSnS4 monograin layer solar cells for flexible photovoltaic applications
Kauk-Kuusik, Marit; **Timmo, Kristi**; **Pilvet, Maris**; **Muska, Katri**; **Danilson, Mati**; **Krustok, Jüri**; **Josepson, Raavo**; **Mikli, Valdek**; **Grossberg-Kuusk, Maarja** Journal of materials chemistry A 2023 / p. 23640-23652 https://doi.org/10.1039/D3TA04541B Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Cu2ZnSnSe4 monograin powders for solar cell application [Electronic resource]
Altosaar, Mare; **Raudoja, Jaan**; **Timmo, Kristi**; **Danilson, Mati**; **Grossberg, Maarja**; **Krunks, Malle**; **Varema, Tiit**; **Mellikov, Enn** 2006 IEEE 4th World Conference on Photovoltaic Energy Conversion - WCPEC 2006 / [CD-ROM]

Cu(In,Ga)Se2 monograin powders with different Ga content for solar cells
Timmo, Kristi; **Kauk-Kuusik, Marit**; **Pilvet, Maris**; **Altosaar, Mare**; **Grossberg, Maarja**; **Danilson, Mati**; **Kaupmees, Reelika**; **Mikli, Valdek**; **Raudoja, Jaan**; **Varema, Tiit** Solar energy 2018 / p. 648–655 : ill https://doi.org/10.1016/j.solener.2018.10.078 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

CuInS2 solar cell absorber plasmonically modified by gold nanoparticles
Repän, Taavi; Dolgov, Leonid; **Katerski, Atanas**; **Oja Acik, Ilona**; **Kärber, Erki**; **Mere, Arvo**; **Mikli, Valdek**; **Krunks, Malle**; Sildos, Ilmo Applied physics. A, Materials science & processing 2014 / p. 455-458 : ill https://doi.org/10.1007/s00339-014-8681-z Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

CuInS2–Poly(3-(ethyl-4-butanoate)thiophene) nanocomposite solar cells : preparation by an in situ formation route, performance and stability issues
Maiera, Eugen; Ratha, Thomas; Haas, Wernfried; Werzer, Oliver; Saf, Robert; Hofer, Ferdinand; Meissner, Dieter; **Volobujeva, Olga**; **Bereznev, Sergei**; **Mellikov, Enn**; Amenitsch, Heinz; Resel, Roland; Trimmel, Gregor Solar energy materials and solar cells 2011 / p. 1354–1361 : ill

CuInSe2 koostise uurimine polarograafilisel meetodil
Kauk, Marit; **Altosaar, Mare**; **Raudoja, Jaan** XXVII Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid = 27th Estonian Chemistry Days : abstracts of scientific conference 2001 / lk. 49-50

Current harmonic aggregation cases for contemporary loads
Daniel, Kamran; **Kütt, Lauri**; **Iqbal, Muhammad Naveed**; **Shabbir, Noman** Energies 2022 / art. 437 https://doi.org/10.3390/en15020437 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Deposition and characterization of zinc–tin oxide thin films with varying material compositions
Spasova, Stanka; Dulev, Vladimir; Benkovsky, Alexander; Palankovski, Vassil; Radeva, Ekaterina; Stoykov, Rumen; Nenova, Zoya; Dikov, Hristosko; **Katerski, Atanas**; **Volobujeva, Olga** Coatings 2025 / art. 225 https://doi.org/10.3390/coatings15020225

Design and implementation of flyback MPPT converter for PV-applications
Suskis, Pavels; **Zakis, Janis**; **Galkin, Ilja** PQ2014 : the 9th International 2014 Electric Power Quality and Supply Reliability Conference (PQ) : June 11-13, 2014, Rakvere, Estonia : proceedings 2014 / p. 291-296 : ill

Detailed insight into the CZTS/CdS interface modification by air annealing in monograin layer solar cells
Kauk-Kuusik, Marit; **Timmo, Kristi**; **Muska, Katri**; **Pilvet, Maris**; **Krustok, Jüri**; **Josepson, Raavo**; Brammertz, Guy; Vermang, Bart; **Danilson, Mati**; **Grossberg, Maarja** ACS Applied Energy Materials 2021 / p. 12374−12382 https://doi.org/10.1021/acsaem.1c02186 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Detailed photoluminescence study of Cu2Ge(SSe)3 microcrystals
Kuusik, Jüri; **Kaupmees, Reelika**; **Li, Xiaofeng**; **Kauk-Kuusik, Marit**; **Grossberg, Maarja** AIP advances 2021 / art. 085105 https://doi.org/10.1063/5.0053928 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Development and application of energy producing solar pavement in Estonia
Jalakas, Tanel; **Chub, Andrii**; **Vinnikov, Dmitri**; **Spalatu, Nicolae**; **Gudkova, Viktoria**; **Krunks, Malle**; **Mere, Arvo**; Lahi, Allan 2022 IEEE 63th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON): conference proceedings 2022 / 5 p. : ill https://doi.org/10.1109/RTUCON56726.2022.9978908

Development of antimony sulfide thin-film solar cells for semitransparent applications
Beglaryan, Robert; **Katerski, Atanas**; **Oja Acik, Ilona**; **Krunks, Malle** Graduate School of Functional Materials and Technology (GSFMT) Scientific Conference : abstracts 2022 / 9 l. Graduate School of Functional Materials and Technology (GSFMT) Scientific Conference 2022

Development of band gap tuned CU2ZN(SN1–XGEX)S4 monograin powders

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

Development of Bi2S3 thin film solar cells by close-spaced sublimation and analysis of absorber bulk defects via in-depth photoluminescence analysis
Koltsov, Mykhailo; **Gopi, Sajeesh Vadakkedath**; **Raadik, Taavi**; **Krustok, Jüri**; **Josepson, Raavo**; Gržibovskis, Raitis; Vembris, Aivars; **Spalatu, Nicolae** Solar energy materials and solar cells 2023 / art. 112292 https://doi.org/10.1016/j.solmat.2023.112292 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Development of BI2S3 thin-film solar cells by close-spaced sublimation
Koltsov, Mykhailo; **Krautmann, Robert**; **Gopi, Sajeesh Vadakkedath**; **Hiie, Jaan**; **Krunks, Malle**; **Oja Acik, Ilona**; **Spalatu, Nicolae** Graduate School of Functional Materials and Technology (GSFMT) Scientific Conference : abstracts 2022 / 25 l. Graduate School of Functional Materials and Technology (GSFMT) Scientific Conference 2022

Development of porous TiO2 thin films by sol-gel process
Oja, Ilona; **Sabataityte, Julija**; **Volobujeva, Olga**; **Krunks, Malle** The Fourth International Conference on Advanced Optical Materials and Devices : (AOMD-4) : Tartu, Estonia, July 6-9, 2004 : abstracts 2004 / p. 46

Development of Sb2Se3 and Sb2S3 thin film solar cells by close-spaced sublimation = Sb2Se3 ja Sb2S3 õhukesekileliste päikesepatareide arendamine lähidistants-sublimatsiooni meetodil
Krautmann, Robert 2023 https://doi.org/10.23658/taltech.41/2023 https://digikogu.taltech.ee/et/Item/e7e64926-5d49-40ad-8b3a-e225ea034f7d https://www.ester.ee/record=b5573313*est

Development organic back contact for thin-film CdS/CdTe solar cell
Khrypunov, G.; **Bereznev, Sergei**; Meriuts, A.; Kopach, G.; Kovtun, N.; Deyneko, N. Physics and chemistry of solid state 2010 / 1, p. 248-251 : ill

Device characteristics of CuInSe2 based solar cells
Krustok, Jüri; **Danilson, Mati**; **Jagomägi, Andri**; **Grossberg, Maarja**; **Raudoja, Jaan** Proceedings of SPIE 2005 / Optical materials and applications, p. 236-242

Device characteristics of CuInSe2 based solar cells
Krustok, Jüri; **Danilson, Mati**; **Jagomägi, Andri**; **Grossberg, Maarja**; **Raudoja, Jaan** The Fourth International Conference on Advanced Optical Materials and Devices : (AOMD-4) : Tartu, Estonia, July 6-9, 2004 : abstracts 2004 / p. 45

Dopant-free fluorene based dimers linked with thiophene units as prospective hole transport materials for Sb2S3 solar cells
Juneja, Nimish; Jegorove, Aiste; Grzibovskis, Raitis; **Katerski, Atanas**; Malinauskas, Tadas; Vembris, Aivars; Karazhanov, Smagul; **Spalatu, Nicolae**; Getautis, Vytautas; **Krunks, Malle**; **Oja Acik, Ilona** Sustainable Energy & Fuels 2024 / p. 4324-4334 https://doi.org/10.1039/D4SE00472H Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Economic pulse electrodeposition for flexible CuInSe(2)solar cells
Mandati, Sreekanth; Misra, Prashant; Boosagulla, Divya; Rao, Tata Naransinga; Sarada, Bulusu V. Materials for renewable and sustainable energy 2020 / art. 19, 6 p. : ill https://doi.org/10.1007/s40243-020-00177-3

Eesti teadlased sillutavad teed Kuul päikeseenergia tootmiseks
postimees.ee 2025 https://teadus.postimees.ee/8196384/eesti-teadlased-sillutavad-teed-kuul-paikeseenergia-tootmiseks

Eesti teadlaste nutikad minimuundurid hoogustavad energiapööoret
Vinnikov, Dmitri; **Chub, Andrii** novaator.err.ee 2024 Eesti teadlaste nutikad minimuundurid hoogustavad energiapööoret

Eesti teadlaste osalusel arendatud päikesepaneele saab teha odavatest ja maakoores laialt levinud materjalidest
Kauk-Kuusik, Marit toostusuudised.ee 2025 Eesti teadlaste osalusel arendatud päikesepaneele saab teha odavatest ja maakoores laialt levinud materjalidest

Eestlaste pöördeline teekate salvestab päikeseenergiat
Director. Inseneeria 2017 / lk. 118-121 : fot https://artiklid.elnet.ee/record=b2828537*est

Effect of absorber surface modification on the optoelectronic properties of Cu2CdGeSe4 solar cells
Li, Xiaofeng; **Pilvet, Maris**; **Timmo, Kristi**; **Grossberg, Maarja**; **Danilson, Mati**; **Mikli, Valdek**; **Kauk-Kuusik, Marit** Thin solid films 2020 / art. 137822, 7 p. : ill https://doi.org/10.1016/j.tsf.2020.137822 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Effect of Annealing in Air on the Structural and Optical Properties and Efficiency Improvement of TiO2/CuxO Solar Cells Obtained via Direct-Current Reactive Magnetron Sputtering

Wisz, Grzegorz; **Sibinski, Maciej**; Labuz, Miroslaw; Potera, Piotr; Ploch, Dariusz; Bester, Mariusz; Yavorskyi, Rostyslav Materials 2025 / art. 888 https://doi.org/10.3390/ma18040888

Effect of CdCl2 annealing treatment on structural and optoelectronic properties of close spaced sublimation CdTe/CdS thin film solar cells vs deposition conditions
Spalatu, Nicolae; **Hiie, Jaan**; **Mikli, Valdek**; **Krunks, Malle**; **Valdna, Vello**; **Maticiuc, Natalia**; **Raadik, Taavi**; Caraman, Mihail Thin solid films 2015 / p. 128-133 : ill http://dx.doi.org/10.1016/j.tsf.2014.11.066 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Effect of CdCl2 vapor phase pretreatment annealing on the properties of CSS CdS and CdTe/CdS thin film solar cells
Spalatu, Nicolae; **Hiie, Jaan**; **Valdna, Vello**; **Krunks, Malle**; Caraman, Mihail; **Mikli, Valdek**; **Maticiuc, Natalia** 2014 Spring Meeting Lille, France : May 26-30. Symposium A, Thin film chalcogenide photovoltaic materials 2014 / p. 17

Effect of distributed photovoltaic generation on the voltage magnitude in a self-contained power supply system
Lukutin, Boris V.; Shandarova, Elena B.; Makarova, A.F.; **Švartsman, Inna** International Scientific and Practical Conference on Urgent Problems of Modern Mechanical Engineering 17–18 December 2015, Yurga, Russia 2016 / art. 012005 https://doi.org/10.1088/1757-899X/127/1/012005 Conference Proceedings at Scopus Article at Scopus Article at WOS

Effect of the thickness on the electrical and optical properties of ZN(O,Se) layers prepared by PLD
Abdalla, Akram; **Bereznev, Sergei** GSFMT Scientific Conference 2020 : Tallinn, February 4-5, 2020 : abstracts 2020 / p. 10 http://fmtdk.ut.ee/wp-content/uploads/2020/01/GSFMT2020.pdf

Effect of the titanium isopropoxide : acetylacetone molar ratio on the photocatalytic activity of TiO2 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

Effects of Ar+ etching of Cu2ZnSnSe4 thin films : An x-ray photoelectron spectroscopy and photoluminescence study
Yakushev, Michael V.; Sulimov, Mikhail A.; Skidchenko, Ekaterina; **Krustok, Jüri** Journal of Vacuum Science & Technology B 2018 / art. 061208, 8 p. : ill https://doi.org/10.1116/1.5050243 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Effects of irradiation of ZnO/CdS/Cu2ZnSnSe4/Mo/glass solar cells by 10 MeV electrons on photoluminescence spectra
Sulimov, M. A.; Sarychev, M.N.; Yakushev, Michael V.; **Krustok, Jüri** Materials science in semiconductor processing 2021 / art. 105301, 5 p. : ill https://doi.org/10.1016/j.mssp.2020.105301 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Effects of selenisation temperature on photoluminescence andphotoluminescence excitation spectra of ZnO/CdS/Cu2ZnSnSe4/Mo/glass
Sulimov, Mikhail A.; Yakushev, M. V.; Marquez-Prieto, J.; **Krustok, Jüri** Thin solid films 2019 / p. 146-151 : ill https://doi.org/10.1016/j.tsf.2019.01.002 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Effects of sulphur and tin disulphide vapour treatments of Cu2ZnSnS(Se)4 absorber materials for monograin solar cells
Kauk, Marit; **Muska, Katri**; **Altosaar, Mare**; **Raudoja, Jaan**; **Pilvet, Maris**; **Varema, Tiit**; **Timmo, Kristi**; **Volobujeva, Olga** Energy procedia 2011 / p. 197-202 https://www.sciencedirect.com/science/article/pii/S1876610211020030

Efficiency enhancement of Cu2ZnSnS4 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

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

E-katend kaitseb liikluses kõige nõrgemaid
Mente et Manu 2021 / lk. 31 Mente et Manu 2/2021

Electrical characterization of all-layers-sprayed solar cell based on ZnO nanorods and extremely thin CIS absorber
Kärber, Erki; **Katerski, Atanas**; **Krunks, Malle** Solar energy 2013 / p. 48-58 : ill https://doi.org/10.1016/j.solener.2013.01.020 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Electrical characterization of annealed chemical-bath-deposited CdS films and their application in superstrate configuration CdTe/CdS solar cells
Graf, Aleksandr; **Maticiuc, Natalia**; **Spalatu, Nicolae**; **Mikli, Valdek**; **Mere, Arvo**; **Gavrilov, Aleksei**; **Hiie, Jaan** Thin solid films 2015 / p. 351-355 : ill https://doi.org/10.1016/j.tsf.2014.11.003 Conference Proceedings at Scopus Article at Scopus Conference Proceedings at WOS Article at WOS

Electrical characterization of cadmium sulfide films, annealed in reducing, neutral and oxidizing ambients of H2, N2, and air
Graf, Aleksandr; **Gavrilov, Aleksei**; **Hiie, Jaan** TÜ ja TTÜ doktorikool "Funktsionaalsed materjalid ja tehnoloogiad" : 04.-05. märts 2014, Tartu 2014 / [1] p

Electrical characterization of nanostructured CIS solar cell prepared by chemical spray pyrolysis
Kärber, Erki; Abass, Aimi; Khelifi, Samira; Burgelman, Marc; **Mere, Arvo**; **Katerski, Atanas**; **Krunks, Malle** NEXTGEN NANO PV : book of abstracts 2013 / p. 80-81

Electrochemical deposition of CuInSe2 thin films for photovoltaic applications = CuInSe2 õhukesed kiled elektrokeemilise sadestamise meetodil
Kois, Julia 2006

Electrochemically synthesised CdSe nanofibers and pearl-chain nanostructures for photovoltaic applications
Kois, Julia; **Bereznev, Sergei**; **Gurevitš, Jelena**; **Volobujeva, Olga** Materials letters 2013 / p. 110-113 : ill https://doi.org/10.1016/j.matlet.2012.11.122 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Electrodeposited CDSE nanomatrix for hybrid polymer solar cells
Gurevitš, Jelena; **Bereznev, Sergei**; **Mikli, Valdek**; **Naidu, Revathi**; **Öpik, Andres**; **Mellikov, Enn**; **Kois, Julia** Baltic Polymer Symposium 2015 : Sigulda, Latvia, September 16-18 : programme and proceedings 2015 / p. 96 : ill

Electrodeposited molybdenum oxide coatings for thin film chalcopyrite solar cells
Ganchev, Maxim; Dimitrov, Dimiter; Stankova, Stanka; **Katerski, Atanas**; Gadjov, Iliya; **Volobujeva, Olga**; **Mere, Arvo**; **Bereznev, Sergei**; **Krunks, Malle** 10th Jubilee Conference of the Balkan Physical Union 2019 / art. 140002 https://doi.org/10.1063/1.5091317 Conference proceedings at Scopus Article at Scopus Article at WOS

Electrodeposition and characterization of CuInSe2 for applications in thin film solar cells
Kois, Julia; **Bereznev, Sergei**; **Volobujeva, Olga**; **Mellikov, Enn** Conference on Knowledge-based Materials and Technologies for Sustainable Chemistry : 1-5 June 2005, Tallinn, Estonia : abstract book 2005 / p. 93

Electrodeposition of CdSe nanofibers as photo-active matrix for polymer solar cells
Kois, Julia; **Bereznev, Sergei**; **Gurevitš, Jelena**; **Mellikov, Enn**; **Öpik, Andres** Baltic Polymer Symposium 2013 : Trakai, Lithuania, September 18-21, 2013 : programme [and abstracts] 2013 / p. 122

Electrodeposition of CdSe nanomatrix for hybrid solar cells
Bereznev, Sergei; **Gurevitš, Jelena**; **Kois, Julia**; **Mellikov, Enn** 12th International Conference on Nanosciences & Nanotechnologies : 7-10 July 2015, Porto Palace Conference Centre & Hotel, Thessaloniki, Greece : book of abstracts 2015 / p. 166

Electrodeposition of Cu-In-Ga thin metal films for Cu(In, Ga)Se2 based solar cells
Kois, Julia; Ganchev, M.; Kaelin, M.; **Bereznev, Sergei**; Tzvetkova, E.; **Volobujeva, Olga**; Stratieva, N.; Tiwari, A.N. Thin solid films 2008 / 18, p. 5948-5952 : ill https://www.sciencedirect.com/science/article/pii/S0040609007017415

Electronic and structural characterisation of Cu3BiS3 thin films for the absorber layer of sustainable photovoltaics
Yakushev, M.V.; Maiello, P.; **Raadik, Taavi**; **Krustok, Jüri** Thin solid films 2014 / p. 195-199 : ill https://doi.org/10.1016/j.tsf.2014.04.057 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Electronic structure and defect states in bismuth and antimony sulphides identified by energy-resolved electrochemical impedance spectroscopy
Miliaieva, D.; Nadaždy, V.; **Koltsov, M. A.**; Lopez, C.; Saeeyekta, H.; Kuliček, J.; Cazorla, C.; Saucedo, E.; Grzibovskis, Raitis; Vembris, Aivars; **Krunks, Malle**; **Spalatu, Nicolae** Journal of Physics Energy 2025 / art. 035012 https://doi.org/10.1088/2515-7655/add59f

EMI-transparent SB2S3 solar cells with fluorene-based enamine as hole transport material
Juneja, Nimish; **Mandati, Sreekanth**; Daskeviciute-Geguziene, Sarune; Vembris, Aivars; Getautis, Vytautas; **Krunks, Malle**; **Oja Acik, Ilona** Graduate School of Functional Materials and Technology (GSFMT) Scientific Conference : abstracts 2022 / 21 l. Graduate School of Functional Materials and Technology (GSFMT) Scientific Conference 2022

Employment of dopant-free fluorene-based enamines as innovative hole transport materials to boost the transparency and performance of Sb2S3 based solar cells
Juneja, Nimish; Daskeviciute-Geguziene, Sarune; **Spalatu, Nicolae**; **Mandati, Sreekanth**; **Katerski, Atanas**; Grzibovskis, Raitis; Vembris, Aivars; Karazhanov, Smagul; Getautis, Vytautas; **Krunks, Malle**; **Oja Acik, Ilona** Materials science in semiconductor processing 2024 / art. 107934 https://doi.org/10.1016/j.mssp.2023.107934

Energiat säästvatest liginullenergiamajadest tulevikus pääsu pole. Ehitamine läheb kallimaks.
Rand, Jana Maaleht 2018 / lk. 2-3

Energiat tootev teekatend nüüd ka Eestis
Jalakas, Tanel; **Chub, Andrii**; **Vinnikov, Dmitri**; **Spalatu, Nicolae**; Gudkova, Viktoria; **Krunks, Malle**; **Mere, Arvo**; **Lahi, Allan**; Lindvest, Andre Elektriala 2023 / lk. 14-16 : portr., fot https://www.ester.ee/record=b1240496*est

Energy efficient behavior modeling for demand side recommender system in solar microgrid applications using multi-agent reinforcement learning model
Onile, Abiodun Emmanuel; **Belikov, Juri**; Levron, Yoash; **Petlenkov, Eduard** Sustainable cities and society 2023 / art. 104392, 20 p. : ill https://doi.org/10.1016/j.scs.2023.104392 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Energy harvesting technologies - potential application to wearable health-monitoring
Ahmed, Faisal; **Le Moullec, Yannick**; **Annus, Paul** The 10th International Conference on Bioelectromagnetism : proceedings 2015 / [4] p. : ill

Energy yield assessment methodology for photovoltaic microinverters
Chub, Andrii; **Kosenko, Roman**; **Korkh, Oleksandr**; **Vinnikov, Dmitri**; Kouro, Samir 2019 IEEE 15th Brazilian Power Electronics Conference and 5th IEEE Southern Power Electronics Conference (COBEP/SPEC 2019) Santos, Brazil, 1-4 December 2019 2019 / p. 1178-1183 : ill http://toc.proceedings.com/52923webtoc.pdf

Enhanced efficiency of hybrid amorphous silicon solar cells based on single-walled carbon nanotubes and polymer composite thin film
Rajanna, Pramod M.; Gilshteyn, Evgenia P.; Yagafarov, Timur; Alekseeva, Alena A.; Anisimov, Anton S.; Neumüller, Alex; Sergeev, Oleg; **Bereznev, Sergei**; **Maricheva, Jelena**; Nasibulin, Albert Nanotechnology 2018 / 10 p. : ill https://doi.org/10.1088/1361-6528/aaa647 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Enhanced grain orientation in Sb2Se3 thin films deposited on Mo/BSG substrates via RF-sputtering and selenization
Uslu, Mehmet Ender; **Muska, Katri**; **Pilvet, Maris**; **Bereznev, Sergei**; **Mikli, Valdek**; **Kauk-Kuusik, Marit**; **Grossberg-Kuusk, Maarja** Materials science in semiconductor processing 2024 / art. 108835 https://doi.org/10.1016/j.mssp.2024.108835

Enhanced photocatalytic activity of ZnO nanorods by surface treatment with HAuCl4 : synergic effects through an electron scavenging, plasmon resonance and surface hydroxylation
Dedova, Tatjana; **Oja Acik, Ilona**; **Chen, Zengjun**; **Katerski, Atanas**; **Balmassov, Kirill**; **Gromõko, Inga**; Nagyne-Kovacs, T.; Szilagyi, I.M.; **Krunks, Malle** Materials chemistry and physics 2020 / art. 122767 https://doi.org/10.1016/j.matchemphys.2020.122767 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Enhancement of residential PV energy storage system by supercapacitor battery – high spatial resolution data analysis
Rogowski, Szymon; **Hasan, Sayeed**; **Chub, Andrii**; **Sibinski, Maciej** Proceedings of the Estonian Academy of Sciences 2025 / p. 269-280 https://doi.org/10.3176/proc.2025.2S.01

Estonian student satellite Hämarik source of valuable lessons
news.err.ee 2024 Estonian student satellite Hämarik source of valuable lessons

Experimental evaluation and numerical modelling of the quality of photovoltaic modules
Tšukrejev, Pavel; **Karjust, Kristo**; **Majak, Jüri** Proceedings of the Estonian Academy of Sciences 2021 / p. 477-483 : ill https://doi.org/10.3176/proc.2021.4.15 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Experimental Investigation of high frequency 3L-NPC qZS inverter for photovoltaic application
Husev, Oleksandr; **Stepenko, Serhii**; Roncero-Clemente, Carlos; Romero-Cadaval, Enrique; Strzelecki, Ryszard Proceedings : IECON 2013 - 39th Annual Conference of the IEEE Industrial Electronics Society : Austria Center Vienna, Vienna, Austria, 10-14 November, 2013 2013 / p. 5969-5974 : ill https://doi.org/10.1109/IECON.2013.6700114 Conference Proceedings at Scopus Article at Scopus

Extremly thin absorber layer solar cells on zinc oxide nanorods by chemical spray
Krunks, Malle; **Kärber, Erki**; **Katerski, Atanas**; **Otto, Kairi**; **Oja Acik, Ilona**; **Dedova, Tatjana**; **Mere, Arvo** Solar energy materials & solar cells 2010 / p. 1191-1195

Fabrication of polydimethylsiloxane stamps
Dhoska, Klodian; Sinani, Uljan; Komina, Bledar 16th International Symposium "Topical Problems in the Field of Electrical and Power Engineering. Doctoral School of Energy and Geotechnology III" : Pärnu, Estonia, January 16-21, 2017 2017 / p. 11-14 : ill http://www.ester.ee/record=b4650094*est

Fault analysis and field experiences of central inverter based 2 MW PV plant
Dumnic, Boris; **Liivik, Elizaveta**; Milicevic, Dragan 2018 20th European Conference on Power Electronics and Applications (EPE'18 ECCE Europe) : Riga, Latvia, 17-21 September 2018 2018 / p. 2281-2290 : ill https://ieeexplore.ieee.org/document/8515423

Fault-tolerant approach for photovoltaic module-level power electronic applications

Vinnikov, Dmitri; **Chub, Andrii**; **Korkh, Oleksandr**; Malinowski, Mariusz 2020 IEEE 14th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) : proceedings 2020 / p. 438-444 : ill https://doi.org/10.1109/CPE-POWERENG48600.2020.9161599

Feasibility investigation for residential battery sizing considering EV charging demand
Shabbir, Noman; **Kütt, Lauri**; **Daniel, Kamran**; **Astapov, Victor**; **Raja, Hadi Ashraf**; **Iqbal, Muhammad Naveed**; **Husev, Oleksandr** Sustainability 2022 / art. 1079 https://doi.org/10.3390/su14031079 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Feasibility Study of Snow Removal from PV Module Using Universal Power Electronic Interface
Chauhan, Sachin; **Chub, Andrii**; **Hasan, Sayeed**; **Lavrov, Artur**; **Kurnitski, Jarek**; **Vinnikov, Dmitri** 2025 IEEE Seventh International Conference on DC Microgrids (ICDCM) 2025 / 5 p

Feasibility study of three-phase modular converter for dual-purpose application in DC and AC microgrids
Roncero-Clemente, Carlos; **Husev, Oleksandr**; **Matiushkin, Oleksandr**; Gutierrez-Escalona, Javier; Barrero-Gonzalez, Fermin; **Vinnikov, Dmitri**; Strzelecki, Ryszard IEEE journal of emerging and selected topics in power electronics 2024 / p. 1348-1358 https://doi.org/10.1109/JESTPE.2023.3247960

Flexible Cu(In,Ga)Se2 on Al foils and the effects of Al during chemical bath deposition
Bremaud, D.; Rudmann, D.; Kaelin, M.; **Ernits, Kaia**; Bilger, G.; Döbeli, M.; Zogg, H.; Tiwari, A.N. Thin solid films 2007 / 15, p. 5857-5861 https://www.sciencedirect.com/science/article/pii/S0040609006016087

Flexible solar cells based on copper tape : hybrid organic-inorganic structures
Bereznev, Sergei; **Kois, Julia**; **Mellikov, Enn**; **Öpik, Andres** Proceedings of the IASTED International Conference Energy and Power Systems : March 29-31, 2006, Chiang Mai, Thailand 2006 / p. 161-164 : ill https://www.researchgate.net/publication/288789183_Flexible_solar_cells_based_on_copper_tape_Hybrid_organic-inorganic_structures

Formation and characterization of stable TiO2/CuxO-based solar cells
Wisz, Grzegorz; Sawicka-Chudy, Paulina; **Sibinski, Maciej**; Yavorskyi, Rostyslav; Łabuz, Mirosław; Płoch, 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 CuIZnSnSI monograin powder on molten CdII = CuIZnSnSI moodustumine ja monoterapulbri kasv CdII sulafaasi keskkonnas
Nkwusi, Godswill 2017 https://digi.lib.ttu.ee/i/?7690 https://www.ester.ee/record=b4678707*est

Formation of CUIZnSnSI and CUIZnSnSeI by chalcogenisation of electrochemically deposited precursor layers = CUIZnSnSeI ja CUIZnSnSI moodustumine elektrokeemiliselt sadestatud kihtide kalkogeniseerimisel
Lehner, Julia 2014 https://www.ester.ee/record=b3080859*est

Formation of properties of CuInSe2 and Cu2ZnSn(S,Se)4 monograin powders synthesized in molten KI = Kaaliumjodiidsulandaja keskkonnas kasvatatud monoterapulbrite CuInSeI ja CuIZnSn(S,Se)I omaduste kujundamine
Timmo, Kristi 2011

4.9 % efficient Sb2S3 solar cells from semi-transparent absorbers with fluorene-based thiophene terminated hole conductors
Mandati, Sreekanth; **Juneja, Nimish**; **Katerski, Atanas**; Jegorove, Aiste; Grzibovskis, Raitis; Vembris, Aivars; **Dedova, Tatjana**; **Spalatu, Nicolae**; Magomedov, Artiom; Karazhanov, Smagul; Getautis, Vytautas; **Krunks, Malle**; **Oja Acik, Ilona** ACS Applied Energy Materials 2023 / p. 3822–3833 https://doi.org/10.1021/acsaem.2c04097 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Further developments in CIS monograin layer solar cells technology
Altosaar, Mare; **Danilson, Mati**; **Kauk, Marit**; **Krustok, Jüri**; **Mellikov, Enn**; **Raudoja, Jaan**; **Timmo, Kristi**; **Varema, Tiit** Solar energy materials and solar cells 2005 / p. 25-32 : ill

Glass/ITO/In(O,S)/CuIn(S,Se)2 solar cell with conductive polymer window layer
Kois, Julia; **Bereznev, Sergei**; **Raudoja, Jaan**; **Mellikov, Enn**; **Öpik, Andres** Solar energy materials and solar cells 2005 / p. 657-665 : ill https://www.sciencedirect.com/science/article/abs/pii/S0927024804003836

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

Global MPPT for interleaved buck-boost DC-DC converter
Matiushkin, Oleksandr; **Husev, Oleksandr**; Fesenko, Artem; **Vinnikov, Dmitri** 2020 IEEE 61st International Scientific Conference

on Power and Electrical Engineering of Riga Technical University (RTUCON), Riga, Latvia, Nov. 5-7, 2020 : conference proceedings 2020 / 7 p. : ill https://doi.org/10.1109/RTUCON51174.2020.9316589

Grid-connected photovoltaic systems : an overview of recent research and emerging PV converter technology
Kouro, Samir; Leon, Jose I.; **Vinnikov, Dmitri**; Franquelo, Leopoldo G. IEEE industrial electronics magazine 2015 / p. 47-61 : ill https://doi.org/10.1109/MIE.2014.2376976 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Growth and characterization of Cu2Zn1−xFexSnS4 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 of CZTS-based monograins and their application to membrane solar cells
Mellikov, Enn; **Altosaar, Mare**; **Kauk-Kuusik, Marit**; **Timmo, Kristi**; **Meissner, Dieter**; **Grossberg, Maarja**; **Krustok, Jüri**; **Volobujeva, Olga** Copper zinc tin sulfide-based thin film solar cells 2015 / p. 289-309 : ill

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

Hävinud tudengisatelliit Hämarik andis tegijatele väärtuslikke õppetunde
Vare, Kai err.ee 2024 Hävinud tudengisatelliit Hämarik andis tegijatele väärtuslikke õppetunde

Hybrid solar cells based on CuInS2 and organic buffer-sensitizer layers
Bereznev, Sergei; Koeppe, R.; Konovalov, Igor; **Kois, Julia**; **Günes, S.**; **Öpik, Andres**; **Mellikov, Enn**; Sariciftci, N.S. Thin solid films 2006 / 15, p. 5759-5762 : ill

Hybrid solar cells based on inorganic thin film structures and conjugated polymers
Kois, Julia; **Bereznev, Sergei**; **Raudoja, Jaan**; **Mellikov, Enn**; **Öpik, Andres** Proceedings of SPIE 2005 / Optical materials and applications, p. 59460V-1 - 59460V-6 : ill

Hydrogen states in mixed-cation CuIn(1−x)GaxSe2 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

Impact of blocking layers based on TiO2 and ZnO prepared via direct current reactive magnetron sputtering on DSSC solar cells
Sibinski, Maciej; Sawicka-Chudy, Paulina; Wisz, Grzegorz; Gnida, Pawel; Schab-Balcerzak, Ewa; Wal, Andrzej; Yavorskyi, Rostyslav; Cholewa, Marian Scientific reports 2024 / art. 10676 https://doi.org/10.1038/s41598-024-61512-6

Impact of CdS annealing atmosphere on the performance of CdS-CdTe solar cell
Maticiuc, Natalia; **Spalatu, Nicolae**; **Mikli, Valdek**; **Hiie, Jaan** Applied surface science 2015 / p. 14-18 : ill https://doi.org/10.1016/j.apsusc.2015.01.172 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Impact of Cu2ZnSn(SexS1-x)4 (x=0.3) compositional ratios on the monograin powder properties and solar cells
Muska, Katri; **Kauk-Kuusik, Marit**; **Grossberg, Maarja**; **Altosaar, Mare**; **Pilvet, Maris**; **Varema, Tiit**; **Timmo, Kristi**; **Volobujeva, Olga**; **Mere, Arvo** Thin solid films 2013 / p. 35-38 : ill https://doi.org/10.1016/j.tsf.2012.10.031 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Impact of Li and K co-doping on the optoelectronic properties of CZTS monograin powder
Muska, Katri; **Timmo, Kristi**; **Pilvet, Maris**; **Kaupmees, Reelika**; **Raadik, Taavi**; **Mikli, Valdek**; **Grossberg-Kuusk, Maarja**; **Krustok, Jüri**; **Josepson, Raavo**; Lange, Sven; **Kauk-Kuusik, Marit** Solar energy materials and solar cells 2023 / art. 112182 : ill https://doi.org/10.1016/j.solmat.2023.112182 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Impact of post-deposition treatments on properties of SnS films and solar cells grown by close-spaced sublimation technique [Online resource]
Spalatu, Nicolae; **Hiie, Jaan**; **Krunks, Malle** [2018 E-MRS Spring Meeting and Exhibit : Materials for energy and environment : Thin film chalcogenide photovoltaic materials : program] 2018 / A.PIV.27 https://www.european-mrs.com/thin-film-chalcogenide-photovoltaic-materials-emrs

Impact of transformer turns ratio on the power losses and efficiency of the wide range isolated buck–boost converter for photovoltaic applications
Mashinchi Maheri, Hamed; **Vinnikov, Dmitri**; **Chub, Andrii**; **Sidorov, Vadim**; **Liivik, Elizaveta** Energies 2020 / art. 5645, 21 p https://doi.org/10.3390/en13215645 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Implications of the negative capacitance observed at forward bias in nanocomposite and polycrystalline solar cells
Mora-Sero, Ivan; Bisquert, Juan; **Oja Acik, Ilona** Nano letters 2006 / 4, p. 640-650 https://pubs.acs.org/doi/10.1021/nl052295q

Improved amorphous silicon passivation layer for heterojunction solar cells with post-deposition plasma treatment
Neumüller, Alex; Sergeev, Oleg; Heise, Stephan J.; **Bereznev, Sergei**; **Volobujeva, Olga** Nano energy 2018 / p. 228-235 : ill https://doi.org/10.1016/j.nanoen.2017.11.053 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Increased efficiency inside the CdTe solar cell absorber caused by plasmonic metal nanoparticles
Repän, Taavi; Pikker, Siim; Dolgov, Leonid; Loot, Ardi; **Hiie, Jaan**; **Krunks, Malle**; Sildos, Ilmo Energy procedia 2014 / p. 229-233 : ill https://doi.org/10.1016/j.egypro.2013.12.032 Conference proceeding at Scopus Article at Scopus Article at WOS

Increasing PV hosting capacity in LV distribution networks using congestion control techniques
Shabbir, Noman 21st International Symposium "Topical problems in the field of electrical and power engineering. Doctoral school of energy and geotechnology. III" : Pärnu, Estonia, June 15-18, 2022 2022 / p. 87-88 https://www.ester.ee/record=b5504019*est

An indirect model predictive current control (CCS-MPC) for grid-connected single-phase three-level NPC quasi-z-source PV inverter
Pires Pimentel, Sergio; **Husev, Oleksandr**; **Vinnikov, Dmitri**; Roncero-Clemente, Carlos; **Stepenko, Serhii** 59th Annual International Scientific Conference on Power and Electrical Engineering : November 12, 13, 2018, Riga Technical University (RTUCON) : conference proceedings 2018 / 6 p. : ill https://doi.org/10.1109/RTUCON.2018.8659840

Inexpensive fluorene-based hole transporting material with terminated thiophene unit for efficient semi-transparent Sb2S3 solar cells
Jegorove, Aiste; **Mandati, Sreekanth**; **Juneja, Nimish**; **Katerski, Atanas**; Vembris, Aivars; Grzibovskis, Raitis; Getautis, Vytautas; **Dedova, Tatjana**; Magomedov, Artiom; **Spalatu, Nicolae**; Karazhanov, Smagul; **Krunks, Malle**; **Oja Acik, Ilona** Proceedings of International Conference on Hybrid and Organic Photovoltaics (HOPV22), València, Spain, 2022 May 19th - 25th 2022 https://www.nanoge.org/proceedings/HOPV22/62596b7159d9502382511011

Influence of alkali iodide fluxes on Cu2ZnSnS4 monograin powder properties and performance of solar cells
Timmo, Kristi; **Pilvet, Maris**; **Muska, Katri**; **Altosaar, Mare**; **Mikli, Valdek**; **Kaupmees, Reelika**; **Josepson, Raavo**; **Krustok, Jüri**; **Grossberg-Kuusk, Maarja**; **Kauk-Kuusik, Marit** Materials advances 2023 / p. 4509-4519 : ill https://doi.org/10.1039/D3MA00444A Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Influence of conductive polymer deposition on photovoltaic properties of prospective inorganic photoabsorber CuInS2 in solar cell
Bereznev, Sergei; **Kois, Julia**; **Mellikov, Enn**; **Öpik, Andres**; Verbitsky, Anatoly; Vertsimakha, Yaroslav Proceedings of the Third IASTED Asian Conference Power and Energy Systems : April 2-4, 2007, Phuket, Thailand 2007 / p. 232-235 https://www.researchgate.net/publication/288795301_Influence_of_conductive_polymer_deposition_on_photovoltaic_properties_of_prospective_inorganic_photoabsorber_CuInS2_in_solar_cell

Influence of PH on the hydroxide impurities in chemically deposited CDS thin film
Üürike, Marvin; **Maticiuc, Natalia**; **Volobujeva, Olga**; **Spalatu, Nicolae**; **Hiie, Jaan** The 14th International Conference of Young Scientists on Energy Issues : Kaunas, Lithuania, May 25-26, 2017 2017 / p. X-316 - X-323 : ill http://cyseni.com/archives/proceedings/Proceedings_of_CYSENI_2017.pdf

Influence of the secondary thermal annealing on the properties of CdTe/CdS:CdCl2:O2 structure
Yang, Wangjun; **Spalatu, Nicolae**; **Maticiuc, Natalia**; **Krunks, Malle**; **Hiie, Jaan** Proceedings of 13th International Conference of Young Scientists on Energy Issues : CYSENI 2016 : May 26-27 2016, Kaunas, Lithuania 2016 / p. VII-220 - VII-225 : ill

Influence of vapour transport deposition conditions on properties of SB2SE3 thin film absorber and solar cells
Gopi, Sajeesh Vadakkedath; **Spalatu, Nicolae**; **Katerski, Atanas**; **Krunks, Malle**; **Oja Acik, Ilona** Graduate School of Functional Materials and Technology (GSFMT) Scientific Conference : abstracts 2022 / 18 l. Graduate School of Functional Materials and Technology (GSFMT) Scientific Conference 2022

In(OH)xSy thin films by chemical bath deposition
Dedova, Tatjana; **Krunks, Malle** Conference on Knowledge-based Materials and Technologies for Sustainable Chemistry : 1-5 June 2005, Tallinn, Estonia : abstract book 2005 / p. 82

In(OH)xSy õhukesed kiled keemilise vanni meetodil
Dedova, Tatjana; **Krunks, Malle** XXIX Eesti keemiapäevad : teaduskonverentsi ettekannete teesid = 29th Estonian Chemistry Days : abstracts of scientific conference 2005 / lk. 8

Investigation of the solar cell materials Cu(In,Ga)Se2 and Cu2ZnSnS4 with muon spin spectroscopy and density-functional calculations
Vilao, Rui C.; Marinopoulos, Apostolos G.; dos Santos, Diego Garcia; Alberto, Helena Vieira; Gil, Joao Campos; Mengyan, Patrick W.; **Kauk-Kuusik, Marit**; Lord, James; Weidinger, Alois Journal of applied physics 2024 / art. 055704

https://doi.org/10.1063/5.0205837 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Investigation of the structural, optical and electrical properties of Cu3BiS3 semiconducting thin films
Yakushev, M. V.; Maiello, P.; **Raadik, Taavi**; **Krustok, Jüri** Energy procedia 2014 / p. 166-172 : ill
https://doi.org/10.1016/j.egypro.2014.12.359 Conference proceedings at Scopus Article at Scopus Article at WOS

Isothermal and two-temperature zone selenization of Mo layers
Kaupmees, Liina; **Altosaar, Mare**; **Volobujeva, Olga**; **Raadik, Taavi**; **Grossberg, Maarja**; **Danilson, Mati**; **Mellikov, Enn**; Barvinschi, Paul Advances in materials science and engineering 2012 / Article ID 345762. [11] p. : ill
https://www.researchgate.net/publication/258383467_Isothermal_and_Two-Temperature_Zone_Selenization_of_Mo_Layers

Kahe fotoelektrilise päikeseenergia kasutamise süsteemi (PS) analüüs esimese töötamisaasta andemete alusel. Rakenduslikud soovitused PS-i kasutamiseks
Saikovski, Valeri TEUK XVII : taastuvate energiaallikate uurimine ja kasutamine : seitsmeteistkümnenda konverentsi kogumik = Investigation and usage of renewable energy sources : seventeeth conference proceedings : [2015 : Tartu] 2015 / lk. 70-79 : ill

Kas päiksepaneelid on Eestis mõistlikud? [Võrguväljaanne]
postimees.ee 2022 Kas päiksepaneelid on Eestis mõistlikud?

Kassikuld võib osutuda elektroonikatööstuses kullast kallimaks
Kristmann, Katriin novaator.err.ee 2024 Kassikuld võib osutuda elektroonikatööstuses kullast kallimaks

Kesterite monograins for solar cells and water splitting applications
Oueslati, Souhaib; **Pilvet, Maris**; **Grossberg, Maarja**; **Kauk-Kuusik, Marit**; **Krustok, Jüri**; **Meissner, Dieter** Thin solid films 2021 / art. 138981 https://doi.org/10.1016/j.tsf.2021.138981 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Kleenukesed päikeseelemendid aitaks vältida ränipaneele ootavat kriisi
Sibinski, Maciej novaator.err.ee 2024 Kleenukesed päikeseelemendid aitaks vältida ränipaneele ootavat kriisi

Kuidas valida oma kodule sobivad päikesepaneelid? [Võrguväljaanne]
Raadik, Taavi LõunaLeht 2022 / Lk. 15 https://dea.digar.ee/article/lounaleht/2022/08/04/54

Kuul saaks elektrit toota eestlaste päikesepatareitehnoloogiaga
Horisont 2020 / lk. 5 : fot http://www.ester.ee/record=b4708219*est

Kõnniteeplaadid toodavad pealinnas päikeseenergiat [Võrguväljaanne]
Mariste, Külli pealinn.ee 2021 "Kõnniteeplaadid toodavad pealinnas päikeseenergiat "

Kübeke hõbedat vase asemele päikesepüünisesse
Vill, Ants Director. Inseneeria 2021 / lk. 50-57 : fot https://director.ee/2021/02/03/kubeke-hobedat-vase-asemele-paikesepuunisesse/ http://www.ester.ee/record=b2336521*est

Large area bar coated TiO2 electron transport layers for perovskite solar cells with excellent performance homogeneity
Mandati, Sreekanth; Dileep, K. Reshma; Veerappan, Ganapathy; Ramasamy, Easwaramoorthi Solar Energy 2022 / p. 258-268
https://doi.org/10.1016/j.solener.2022.04.060

LBIC characterisation of $Cu_2ZnSn(S,Se)_4$ monograin photovoltaic cells
Neubauer, Christian; **Meissner, Dieter** Photovoltaic Technical Conference From Advanced Materials and Processes to Innovative Applications : 2015 May 27-29, Aix-en-Provence 2015 / [2] p : ill

Low-cost plasmonic solar cells prepared by chemical spray pyrolysis
Kärber, Erki; **Katerski, Atanas**; **Oja Acik, Ilona**; **Mikli, Valdek**; **Mere, Arvo**; Sildos, Ilmo; **Krunks, Malle** The Beilstein journal of nanotechnology 2014 / p. 2398-2402 : ill https://doi.org/10.3762/bjnano.5.249 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Low-power home PV systems with MPPT and PC control modes [Electronic resource]
Rosa, Carlos; **Vinnikov, Dmitri**; Romero-Cadaval, Enrique; Pires, Vitor; Martins, Joao CPE 2013 : 2013 International Conference on Compatibility and Power Electronics (CPE) : June 5-7, 2013, Ljubljana, Slovenia : conference proceedings 2013 / p. 58-62 : ill [CD-ROM]

A luminescence study of Cu2ZnSnSe4/Mo/glass films and solar cells with near stoichiometric copper content
Yakushev, M. V.; Sulimov, M. A.; Marquez-Prieto, J.; **Krustok, Jüri** Journal of physics D : applied physics 2019 / art. 055502, 10 p. : ill
https://doi.org/10.1088/1361-6463/aaefe3 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Manganese-substituted kesterite thin-films for earth-abundant photovoltaic applications

Trifiletti, Vanira; Frioni, Luigi; Tseberlidis, Giorgio; Vitiello, Elisa; **Danilson, Mati**; **Grossberg, Maarja**; Acciarri, Maurizio; Binetti, Simona; Marchionna, Stefano Solar energy materials and solar cells 2023 / art. 112247, 13 p. : ill https://doi.org/10.1016/j.solmat.2023.112247 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Materials and technologies for photovoltaic applications from Estonia
Mellikov, Enn; **Altosaar, Mare**; **Bereznev, Sergei**; **Kauk, Marit**; **Kois, Julia**; **Krustok, Jüri**; **Krunks, Malle**; **Varema, Tiit** Proceedings of SPIE 2005 / Optical materials and applications, p. 59460X-1 - 59460X-9 : ill https://www.researchgate.net/profile/Mare-Altosaar/publication/252219854_Materials_and_technologies_for_photovoltaic_applications_from_Estonia/links/54e5e6520cf2cd2e028b39ca/Materials-and-technologies-for-photovoltaic-applications-from-Estonia.pdf

Materials and technologies for photovoltaic applications from Estonia
Mellikov, Enn; **Altosaar, Mare**; **Kauk, Marit**; **Krustok, Jüri**; **Krunks, Malle**; **Varema, Tiit** The Fourth International Conference on Advanced Optical Materials and Devices : (AOMD-4) : Tartu, Estonia, July 6-9, 2004 : abstracts 2004 / p. 45 https://www.researchgate.net/publication/252219854_Materials_and_technologies_for_photovoltaic_applications_from_Estonia

Maximizing energy harvest of the impedance source PV Microconverter under partial shading conditions
Vinnikov, Dmitri; **Chub, Andrii**; **Liivik, Elizaveta**; Blaabjerg, Frede; Kouro, Samir CPE-POWERENG 2018 : Conference program : 12th IEEE International Conference on Compatibility, Power Electronics and Power Engineering, 10-12 April, 2018, Doha, Qatar 2018 / 7 p.: ill https://indd.adobe.com/view/bdbda104-4e24-4d7b-88b1-f84ccfd20748 https://doi.org/10.1109/CPE.2018.8372556

Measured hygrothermal performance of energy activated facade in cold climate
Talvik, Martin; **Kalamees, Targo**; **Ilomets, Simo** Journal of building physics 2025 / p. 1-27 https://doi.org/10.1177/174425912413124

Milleks meile uued päikesepaneelitehnoloogiad?
Grossberg, Maarja Sirp 2020 / lk. 33-34 : fot https://sirp.ee/s1-artiklid/c21-teadus/milleks-meile-uued-paikesepaneelitehnoloogiad/

Milline on päikeseenergia tulevik Eestis?
Puhm, Carl-Robert delfi.ee 2025 https://arileht.delfi.ee/artikkel/120366098/video-milline-on-paikeseenergia-tulevik-eestis

Millised kodumajale sobivad päikesepaneelid on kõige tootlikumad, kuidas neid paigaldada ja kust selleks raha leida?
rohe.geenius.ee 2022 Millised kodumajale sobivad päikesepaneelid on kõige tootlikumad, kuidas neid paigaldada ja kust selleks raha leida?

Millist päikesepaneeli valida? Vaatame, mida veebiturul pakutakse ja kui head need pakkumised on [Võrguväljaanne]
geenius.ee 2022 Millist päikesepaneeli valida? Vaatame, mida veebiturul pakutakse ja kui head need pakkumised on

Mission profile resolution impacts on the thermal stress and reliability of power devices in PV inverters
Sangwongwanich, Ariya; Zhou, D.; **Liivik, Elizaveta**; Blaabjerg, Frede Microelectronics reliability 2018 / p. 1003-1007 https://doi.org/10.1016/j.microrel.2018.06.094

Mission profile-based accelerated testing of DC-link capacitors in photovoltaic inverters
Sangwongwanich, Ariya; Shen, Yanfeng; **Chub, Andrii**; **Liivik, Elizaveta**; **Vinnikov, Dmitri**; Wang, Huai; Blaabjerg, Frede Thirty-Fourth Annual IEEE Applied Power Electronics Conference and Exposition, March 17 – 21, 2019, Anaheim, California 2019 / p. 2833-2840 : ill https://doi.org/10.1109/APEC.2019.8721794 Conference proceedings at Scopus Article at Scopus Article at WOS

Mo pinna eeltöötluste mõju MoSe2 omadustele
Kaupmees, Liina; **Pilvet, Maris**; **Altosaar, Mare** XXIX Eesti keemiapäevad : teaduskonverentsi ettekannete teesid = 29th Estonian Chemistry Days : abstracts of scientific conference 2005 / lk. 36-37

Model predictive control of photovoltaic bidirectional dc-dc converter with coupled inductors
Khomenko, Maksym; Veligorskyi, Oleksandr; **Husev, Oleksandr**; Tytelmaier, Kostiantyn; Yershov, Roman 2017 IEEE First Ukraine Conference on Electrical and Computer Engineering (UKRCON) : May 29 - June 2, 2017, Kyiv, Ukraine : conference proceedings 2017 / p. 578-583 : ill https://doi.org/10.1109/UKRCON.2017.8100308

Modelling of Cu2ZnSnSe4-CdS-ZnO thin film solar cell
Ben Messaoud, Khaled; Brammertz, Guy; Buffière, Marie; **Oueslati, Souhaib** Materials research express 2017 / art. 116403, 13 p. : ill http://dx.doi.org/10.1088/2053-1591/aa94f3

Monograin layer solar cells
Altosaar, Mare; **Jagomägi, Andri**; **Kauk, Marit**; **Krunks, Malle**; **Krustok, Jüri**; **Mellikov, Enn**; **Raudoja, Jaan**; **Varema, Tiit** Thin solid films 2003 / p. 466-469 : ill

A multi-layer Cu:Ga/In sputtered precursor to improve structural properties of CIGS absorber layer
Misra, Prashant; **Mandati, Sreekanth**; Rao, Tata Naransinga; Sarada, Bulusu V. Materials today: proceedings 2021 / p. 2037-2041 : ill https://doi.org/10.1016/j.matpr.2020.09.545

Mõne aasta pärast tuleb kõigile uutele majadele paigaldada päikesepaneelid

Pärli, Merilin err.ee 2024 Mõne aasta pärast tuleb kõigile uutele majadele paigaldada päikesepaneelid

Naatriumiga legeerimise mõju monoterapulbrilise CuInSe2 omadustele
Timmo, Kristi; **Altosaar, Mare**; **Raudoja, Jaan**; **Danilson, Mati**; **Grossberg, Maarja** XXIX Eesti keemiapäevad : teaduskonverentsi ettekannete teesid = 29th Estonian Chemistry Days : abstracts of scientific conference 2005 / lk. 111-112

Nano-scale sulfurization of the Cu2ZnSnSe4 crystal surface for photovoltaic applications
Kauk-Kuusik, Marit; **Li, Xiaofeng**; **Pilvet, Maris**; **Timmo, Kristi**; **Mikli, Valdek**; **Kaupmees, Reelika**; **Danilson, Mati**; **Grossberg, Maarja** Journal of materials chemistry A 2019 / p. 24884-24890 : ill https://doi.org/10.1039/C9TA08020A Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Nanostructured solar cell based on spray pyrolysis deposited ZnO nanorod array
Krunks, Malle; **Katerski, Atanas**; **Dedova, Tatjana**; **Oja Acik, Ilona**; **Mere, Arvo** Solar energy materials & solar cells 2008 / p. 1016-1019 : ill https://www.sciencedirect.com/science/article/pii/S0927024808000871

Nanostructured solar cells on ZnO nanorods by chemical spray
Krunks, Malle Book of Abstracts of 2nd Semiconductor Sensitized Solar Cells Conference : September 18th-20th, 2011, Mallorca, Spain 2011 / p. A2.4

Three-level neutral-point-clamped quasi-Z-source inverter with maximum power point tracking for photovoltaic systems
Roncero-Clemente, Carlos; Stepenko, Serhii; **Husev, Oleksandr**; Minambres-Marcos, Victor; Romero-Cadaval, Enrique; **Vinnikov, Dmitri** Technological innovation for the Internet of things : 4th IFIP WG 5.5/SOCOLNET Doctoral Conference on Computing, Electrical and Industrial Systems : DoCEIS 2013 : Costa de Caparica, Portugal, April 15-17, 2013 : proceedings 2013 / p. 334-342 https://doi.org/10.1007/978-3-642-37291-9_36 https://link.springer.com/chapter/10.1007/978-3-642-37291-9_36 Article collection metrics at Scopus Article at Scopus

A non-vacuum dip coated SiO2 interface layer for fabricating CIGS solar cells on stainless steel foil substrates
Misra, Prashant; Atchuta, S. R.; **Mandati, Sreekanth**; Sarada, Bulusu V.; Rao, Tata Naransinga; Sakthivel, S. Solar energy 2021 / p. 471−477 : ill https://doi.org/10.1016/j.solener.2020.12.007

Novel approach immune to partial shading for photovoltaic energy harvesting from building integrated PV (BIPV) solar roofs
Chub, Andrii; **Korkh, Oleksandr**; **Kosenko, Roman**; **Vinnikov, Dmitri** 2018 20th European Conference on Power Electronics and Applications (EPE'18 ECCE Europe) : Riga, Latvia, 17-21 September 2018 2018 / p. 2243-2252 : ill https://ieeexplore.ieee.org/document/8515623

Novel Cu2CdSnS4 and Cu2ZnGeSe4 absorber materials for monograin layer solar cell application
Timmo, Kristi; **Kauk-Kuusik, Marit**; **Altosaar, Mare**; **Raudoja, Jaan**; **Raadik, Taavi**; **Grossberg, Maarja**; **Varema, Tiit**; **Pilvet, Maris**; **Leinemann, Inga**; **Volobujeva, Olga**; **Mellikov, Enn** EU PVSEC proceedings 2013 / p. 2385-2388 : ill

A novel hysteresis power point optimizer for distributed solar power generation
Veligorskyi, Oleksandr; **Husev, Oleksandr**; **Kosenko, Roman**; **Vinnikov, Dmitri** Scientific Journal of Riga Technical University. Electrical, control and communication engineering 2018 / p. 12-22 : ill https://doi.org/10.2478/ecce-2018-0002

Novel materials for future PV technologies [Online resource]
Krunks, Malle International Conference "Functional Materials and Nanotechnologies 2017" : Tartu, Estonia in April, 24-27, 2017 : book of abstracts 2017 / p. 36 http://www.ester.ee/record=b4668793*est

Novel SiOxNy protective coatings with aligned carbon nanotubes network
Shmagina, Elizaveta; **Volobujeva, Olga**; **Mikli, Valdek**; **Bereznev, Sergei** Symposium E : Carbon- and/or nitrogen-containing thin films and nanomaterials : 40th Anniversary 2023 / art. 00680 https://srv3.key4events.com/key4register/AbstractList.aspx?e=31&preview=1&aig=-1&ai=1968

A novel thermochemical metal halide treatment to high-performance Sb2Se3 photocathode
Polivtseva, Svetlana; Adegite Olanrewaju, Joseph; Kois, Julia; Mamedov, Damir; Zh. Karazhanov, Smagul; **Maricheva, Jelena**; **Volobujeva, Olga** Nanomaterials 2021 / art. 52, 14 p https://doi.org/10.3390/nano11010052 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Novel universal power electronic interface for integration of pv modules and battery energy storages in residential DC microgrids
Sidorov, Vadim; **Chub, Andrii**; **Vinnikov, Dmitri**; Lindvest, Andre IEEE Access 2023 / p. 30845-30858 https://doi.org/10.1109/ACCESS.2023.3260640 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Numerical and experimental indication of thermally activated tunneling transport in CIS monograin layer solar cells
Cernivec, Gregor; **Jagomägi, Andri**; Smole, Franc; Topic, Marco Solid state electronics 2008 / 1, p. 78-85 https://www.sciencedirect.com/science/article/pii/S0038110107002225

Nutikas teekatend teeb liikluse jalakäijatele ohutumaks
Mente et Manu 2019 / lk. 28 : fot https://www.ttu.ee/public/m/mente-et-manu/MM_05_2019/mobile/index.html
https://www.ester.ee/record=b1242496*est

Nutikas teekatend võib jõuda peagi tänavale
Ehitaja 2021 / lk. 26

Nutikast teekattest lõikab enim kasu kergliikleja
Lahi, Allan; **Kendra, Ain** Teeleht 2021 / lk. 22-25 : fot https://www.mnt.ee/sites/default/files/road_paper_pdf/teeleht_kevad_2021_veeb.pdf
https://www.ester.ee/record=b1073043*est

Observation of photoluminescence edge emission in CuSbSe2 absorber material for photovoltaic applications
Penežko, Aleksei; **Kauk-Kuusik, Marit**; **Volobujeva, Olga**; **Traksmaa, Rainer**; **Grossberg, Maarja** Applied physics letters 2019 / art. 092101, 4 p. : ill https://doi.org/10.1063/1.5114893 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

One-source PVD of n-CuIn5Se8 photoabsorber films for hybrid solar cells
Bereznev, Sergei; **Adhikari, Nirmal**; **Kois, Julia**; **Raadik, Taavi**; **Traksmaa, Rainer**; **Volobujeva, Olga**; **Kouhiisfahani, Elham**; **Öpik, Andres** Solar energy 2013 / p. 202-208 : ill https://doi.org/10.1016/j.solener.2013.04.027 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Optical and structural properties of orthorhombic and tetragonal polymorphs of Cu2CdGeSe4
Grossberg, Maarja; **Raadik, Taavi**; **Krustok, Jüri**; **Kauk-Kuusik, Marit**; **Timmo, Kristi**; **Kaupmees, Reelika**; **Mikli, Valdek**; **Mere, Arvo** Thin solid films 2018 / p. 44-47 https://doi.org/10.1016/j.tsf.2018.09.031 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Optical spectroscopy studies of $Cu_2ZnSnSe_4$ thin films
Yakushev, M. V.; Forbes, I.; Mudryi, A. V.; **Grossberg, Maarja**; **Krustok, Jüri**; **Beattie, N. S.**; Moynihan, M.; Rockett, A.; Martin, R. W. Thin solid films 2015 / p. 154-157 : ill https://doi.org/10.1016/j.tsf.2014.09.010 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Optimization of the Sb2S3 shell thickness in ZnO nanowire-based extremely thin absorber solar cells
Hector, Guislain; **Eensalu, Jako Siim**; **Katerski, Atanas**; **Oja Acik, Ilona**; **Kärber, Erki** Nanomaterials 2022 / art. 198
https://doi.org/10.3390/nano12020198 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Optimization of VTD Sb2Se3 absorber growth rate in CdS/Sb2Se3 thin film solar cells : A defect perspective on chloride vs non-chloride based devices
Gopi, Sajeesh Vadakkedath; **Krautmann, Robert**; **Katerski, Atanas**; **Josepson, Raavo**; **Untila, Dumitru**; **Hiie, Jaan**; **Krunks, Malle**; **Oja Acik, Ilona**; **Spalatu, Nicolae** Solar energy materials and solar cells 2025 / art. 113856
https://doi.org/10.1016/j.solmat.2025.113856

Output voltage regulation of isolated PV-vonnected boost converters with variable loads using converted hysteresis sliding mode controller
Zolfaghari, Mahdi; Zolfaghari, A.; **Gharehpetian, Gevork B.**; **Ahmadiahangar, Roya**; **Rosin, Argo** 2023 IEEE 17th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2023 / 7 p https://doi.org/10.1109/CPE-POWERENG58103.2023.10227386

Partii päikesepaneele võib hukka minna ka paari liigse soojakraadiga
Harrik, Airika novaator.err.ee 2023 Partii päikesepaneele võib hukka minna ka paari liigse soojakraadiga

Paul hakkab inseneriks
Tomusk, Ilmar 2024 https://www.ester.ee/record=b5685615*est

Performance of a building integrated semitransparent photovoltaic facade on a residential house in Northern Europe
Jagomägi, Andri; Wimmer, Andreas; **Thalfeldt, Martin** EU PVSEC 2017 : 33rd European Photovoltaic Solar Energy Conference and Exhibition : 25-29 September 2017, Amsterdam, The Netherlands 2017 / p. 2537-2547
http://dx.doi.org/10.4229/EUPVSEC20172017-6BV.3.46

Photo-assisted electrodeposition of polypyrrole back contact to CdS/CdTe solar cell structures
Jarkov, Aleksandr; **Bereznev, Sergei**; **Volobujeva, Olga**; **Traksmaa, Rainer**; Tverjanovich, Andrey; **Öpik, Andres**; **Mellikov, Enn** Thin solid films 2013 / p. 198-201 : ill https://doi.org/10.1016/j.tsf.2013.01.064 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Photo-assisted electrodeposition of polypyrrole back contact to CdS/CdTe solar cell structures
Jarkov, Aleksandr; **Bereznev, Sergei**; **Kois, Julia**; **Volobujeva, Olga**; **Öpik, Andres** E-MRS Spring Meeting 2012 - Symposium B : Strasbourg, France, May 14-18, 2012 : program and abstract book 2012 / p. 8

Photoelectrical properties of In(OH)xSy/PbS(O) structures deposited by SILAR on TiO2
Oja Acik, Ilona; Belaidi, A.; Dolczik, L. Semiconductor science and technology 2006 / 4, p. 520-526 : ill
https://iopscience.iop.org/article/10.1088/0268-1242/21/4/018

Photoelectrochemical properties and band positions of Cd-substituted tetrahedrite Cu10Cd2Sb4S13 monograin materials grown in molten CdI2 and LiI
Ghisani, Fairouz; **Timmo, Kristi**; **Altosaar, Mare**; Oueslati, Souhaib; **Pilvet, Maris**; **Kauk-Kuusik, Marit** Thin Solid Films 2022 / art. 139030 https://doi.org/10.1016/j.tsf.2021.139030 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Photoluminescence and AFM study of WS2 monolayers
Kaupmees, Reelika; Madauß, Lukas; Pollmann, Erik; **Grossberg, Maarja**; **Krustok, Jüri** GSFMT Scientific Conference 2020 : Tallinn, February 4-5, 2020 : abstracts 2020 / p. 41 http://fmtdk.ut.ee/wp-content/uploads/2020/01/GSFMT2020.pdf

Photoluminescence study of disordering in the cation sublattice of Cu2ZnSnS4
Grossberg, Maarja; **Krustok, Jüri**; **Raadik, Taavi**; **Kauk-Kuusik, Marit**; **Raudoja, Jaan** Current applied physics 2014 / p. 1424-1427 : ill https://doi.org/10.1016/j.cap.2014.08.013 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Photoluminescence study of some solar cell materials
Hjelt, Kari; Collan, Heikki; **Krustok, Jüri**; **Mädasson, Jaan** XXIX Annual Conference of the Finnish Physical Society : proceedings 1995 / p. 7.33

Photoreflectance and photoluminescence study of antimony selenide crystals
Kondrotas, Rokas; Nedzinskas, Ramunas; **Krustok, Jüri**; **Grossberg-Kuusk, Maarja**; Talaikis, Martynas; Tumėnas, Saulius; Suchodolskis, Arturas; Žaltauskas, Raimundas; Sereika, Raimundas ACS Applied Energy Materials 2022 / p. 14769-14778 https://doi.org/10.1021/acsaem.2c02131 Journal metrics at Scopus Article at scopus Journal metrics at WOS Article at Scopus

Photovoltaic energy yield improvement in two-stage solar microinverters
Chub, Andrii; **Vinnikov, Dmitri**; **Stepenko, Serhii**; **Liivik, Elizaveta**; Blaabjerg, Frede Energies 2019 / art. 3774, 17 p. : ill https://doi.org/10.3390/en12193774 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Photovoltaic module characteristic influence on reliability of micro-inverters
Sangwongwanich, Ariya; **Liivik, Elizaveta**; **Blaabjerg, Frede** 2018 IEEE 12th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG 2018) : Doha, Qatar, 10-12 April 2018 2018 / p. 478-483 : ill https://doi.org/10.1109/CPE.2018.8372565

Photovoltaic structures formed by thermal annealing of electrodeposited CuInSe2 in H2S
Kois, Julia; **Bereznev, Sergei**; **Mellikov, Enn**; **Öpik, Andres** Proceedings of the Estonian Academy of Sciences. Chemistry 2003 / 2, p. 51-58 : ill

Photovoltaics based on semiconductor powders
Meissner, Dieter The Proceedings of the 1st International Porous and Powder Materials Symposium and Exhibition PPM 2013 : 3-6 September 2013 Çeşme Izmir-TURKEY 2013 / p. 405-416 : ill

Photovoltaics based on semiconductor powders
Meissner, Dieter Materials and processes for energy : communicating current research and technological developments [E-book] 2013 / p. 114-125 : ill http://www.formatex.info/energymaterialsbook/chapters.html

Physical routes for the synthesis of kesterite
Ratz, T.; Brammertz, Guy; Caballero, R.; **Timmo, Kristi** Journal of Physics Energy 2019 / art. 042003, 23 p. : ill https://doi.org/10.1088/2515-7655/ab281c

Pihustuspürolüüsi meetodil vaserikastest lahustest valmistatud CuInS2 kilede omadused
Rebane, Helen; **Kijatkina, Olga**; **Mikli, Valdek**; Leomar, Hedi; **Krunks, Malle** XXVIII Eesti keemiapäevad : teaduskonverentsi ettekannete teesid = 28th Estonian Chemistry Days : abstracts of scientific conference 2002 / lk. 111

A PL and PLE study of high Cu content Cu2ZnSnSe4 films on Mo/Glass and solar cells
Sulimov, Mikhail A.; Yakushev, Michael V.; Forbes, I.; Prieto, J.M.; **Krustok, Jüri**; Edwards, P. R.; Martin, R.W. Physics of the solid state 2019 / p. 908-917 https://doi.org/10.1134/S1063783419050214 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Plasmon-enhanced photocurrent by gold nanoparticles on extremely thin solar cells by chemical spray pyrolysis
Kärber, Erki; **Katerski, Atanas**; **Oja Acik, Ilona**; **Mere, Arvo**; **Krunks, Malle** Nanotechnology for Next Generation High Efficiency Photovoltaics : Spring International School & Workshop, Mao, Menorca, Balearic Islands (Spain), April 20-24, 2015 : book of abstracts 2015 / [1] p

Plasmonic control of light in thin film solar cell absorbers
Repän, Taavi; **Katerski, Atanas**; **Oja Acik, Ilona**; **Kärber, Erki**; **Mere, Arvo**; **Mikli, Valdek**; **Krunks, Malle**; Dolgov, Leonid; Sildos, Ilmo The International Summer School "Nanotechnology : from fundamental research to innovations" and International research and practice conference "Nanotechnology and nanomaterials" (NANO-2014), 23-30 August, 2014, Yaremche-Lviv, Ukraine : book of abstracts 2014 / p. 494

Plasmonic effect of Au NPs on CSS CdS/CdTe solar cell characteristics
Spalatu, Nicolae; **Maticiuc, Natalia**; **Katerski, Atanas**; **Krunks, Malle**; **Mikli, Valdek**; **Hiie, Jaan** Science and Applications of Thin Films, SATF 2014 : Cesme, Izmir, Turkey, September 15-19 : abstract book 2014 / p. 371

Plasmonic effect of spray-deposited Au nanoparticles on the performance of CSS CdS/CdTe solar cells
Spalatu, Nicolae; **Hiie, Jaan**; **Maticiuc, Natalia**; **Krunks, Malle**; **Katerski, Atanas**; **Mikli, Valdek**; Sildos, Ilmo Applied surface science 2015 / p. 69-73 : ill https://doi.org/10.1016/j.apsusc.2015.04.065 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Plasmonic enhancement of light absorption in CuInS2 layer doped by gold nanoparticles
Repän, Taavi; **Katerski, Atanas**; **Oja Acik, Ilona**; **Kärber, Erki**; **Mere, Arvo**; **Mikli, Valdek**; **Krunks, Malle**; Dolgov, Leonid; Sildos, Ilmo META'14 - Singapore : The 5th International Conference on Metamaterials, Photonic Crystals and Plasmonics : book of abstracts 2014

p–n junction improvements of Cu_2ZnSnS_4/CdS monograin layer solar cells
Kauk-Kuusik, Marit; **Timmo, Kristi**; **Danilson, Mati**; **Altosaar, Mare**; **Grossberg, Maarja**; Ernits, Kaia Applied surface science 2015 / p. 795-798 : ill https://doi.org/10.1016/j.apsusc.2015.09.094 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Polypyrrole back contact to CDS/CDTE solar cell structures by photo-assisted electrodeposition technique
Jarkov, Aleksandr; **Bereznev, Sergei**; **Kois, Julia**; **Volobujeva, Olga**; **Öpik, Andres** Baltic Polymer Symposium 2012 : Liepaja, Latvia, September 19-22 : programme and proceedings 2012 / p. 42

Polypyrrole back-contact to CdS/CdTe solar cell
Bereznev, Sergei; **Jarkov, Aleksandr**; **Kois, Julia**; **Volobujeva, Olga**; **Mellikov, Enn**; **Öpik, Andres** 11th International Symposium on Functional π-electron systems (Fπ-11) : June 2-7, 2013, Arcachon, France : book of abstracts 2013 / p. 164

Post deposition annealing effect on properties of CdS films and its impact on CdS/Sb2Se3 solar cells performance
Gopi, Sajeesh Vadakkedath; **Spalatu, Nicolae**; **Basnayaka, Madhawa**; **Krautmann, Robert**; **Katerski, Atanas**; **Josepson, Raavo**; Grzibovskis, Raitis; Vembris, Aivars; **Krunks, Malle**; **Oja Acik, Ilona** Frontiers in Energy Research 2023 / art. 1162576, 12 p https://doi.org/10.3389/fenrg.2023.1162576 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Post-deposition processing for tuning the properties of Sb2Se3 thin films absorber layer grown by close-spaced sublimation
Krautmann, Robert; **Spalatu, Nicolae**; **Hiie, Jaan**; **Katerski, Atanas**; **Oja Acik, Ilona**; **Krunks, Malle** GSFMT Scientific Conference 2020 : Tallinn, February 4-5, 2020 : abstracts 2020 / p. 47 http://fmtdk.ut.ee/wp-content/uploads/2020/01/GSFMT2020.pdf

Postdeposition processing of SnS thin films and solar cells : prospective strategy to obtain large, sintered, and doped SnS grains by recrystallization in the presence of a metal halide flux
Spalatu, Nicolae; **Hiie, Jaan**; **Kaupmees, Reelika**; **Volobujeva, Olga**; **Krustok, Jüri**; **Oja Acik, Ilona**; **Krunks, Malle** ACS applied materials & interfaces 2019 / p. 17539–17554 : ill https://doi.org/10.1021/acsami.9b03213 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Post-growth annealing effect on the performance of Cu2ZnSnSe4 monograin layer solar cells
Kauk-Kuusik, Marit; **Altosaar, Mare**; **Muska, Katri**; **Pilvet, Maris**; **Raudoja, Jaan**; **Timmo, Kristi**; **Varema, Tiit**; **Grossberg, Maarja**; **Mellikov, Enn**; **Volobujeva, Olga** Thin solid films 2013 / p. 18-21 : ill https://doi.org/10.1016/j.tsf.2012.11.075 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Potential fluctuations in Cu2ZnSnSe4 solar cells studied by temperature dependence of quantum efficiency curves
Krustok, Jüri; **Josepson, Raavo**; **Raadik, Taavi**; **Danilson, Mati** Physica B : condensed matter 2010 / 15, p. 3186-3189 : ill

Powder materials and technologies for solar cells
Mellikov, Enn; **Hiie, Jaan**; **Altosaar, Mare** International journal of materials & product technology 2007 / 3/4, p. 291-311 : ill

Power supply system based on photovoltaic panels and three-level NPC inverter
Shults, Tatiana Doctoral School of Energy and Geotechnology II : closing conference of the project : Pärnu, Estonia, January 12-17, 2015 2015 / p. 154-157 : ill

Preparation and impedance spectroscopy of hybrid structures based on CuInI$_{Se}$ photoabsorber = Hübriidsete CuInI$_{Se}$

fotoabsorberstruktuuride valmistamine ja impedantsispektroskoopia
Laes, Kristjan 2010 https://www.ester.ee/record=b2580322*est

Preparation of CuInSe2 thin films by using various methods : (a short review)
Soonmin, Ho; **Mandati, Sreekanth**; Chandran, Ramkumar; Mallik, Archana; Bhuiyan, M. A. S.; Deepa, K. G. Oriental journal of chemistry 2019 / p. 01-13 : ill http://eprints.intimal.edu.my/1267/1/CuInSe2%20thin%20films%20by%20uisng%20various%20methods_Ho.pdf

Producing pyrite based solar panels for the future lunar habitat
Kristmann, Katriin; **Raadik, Taavi**; **Heemskerk, Marc Vincent**; Woods, Arthur; Vogel, Andreas; Collins, Patrick; Gasperovics, Dimitrijis; Makaya, Advenit IAF Space Power Symposium : held at the 75th International Astronautical Congress (IAC 2024) : Milan, Italy, 14-18 October 2024 2024 / p. 312 - 317 https://doi.org/10.52202/078370-0035 Conference proceedings at Scopus Article at Scopus

Production monitoring system development for manufacturing processes of photovoltaic modules
Tšukrejev, Pavel; **Kruuser, Kaarel**; **Karjust, Kristo** Proceedings of the Estonian Academy of Sciences 2019 / p. 401-406 : ill https://doi.org/10.3176/proc.2019.4.09 http://www.kirj.ee/32721/?tpl=1061&c_tpl=1064 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Professor Maarja Grossberg-Kuusk : teaduses on salapära [Võrguväljaanne]
Kütt, Kadri director.ee 2022 Professor Maarja Grossberg-Kuusk: teaduses on salapära

The Promise of Operational Stability in Pnictogen-Based Perovskite-Inspired Solar Cells
Lamminen, Noora; Karlsson, Joshua; Kumar, Ramesh; Viswanath, N. S. M.; Lal, Snigdha; Fasulo, Francesca; Righetto, Marcello; Krishnaiah, Mokurala; **Katerski, Atanas**; **Oja Acik, Ilona** EES Solar 2025 https://doi.org/10.1039/D5EL00029G https://pubs.rsc.org/en/content/articlepdf/2025/el/d5el00029g

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 https://doi.org/10.1016/j.tsf.2021.139004 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Properties of NiO thin film deposited spray pyrolysis
Chen, Zengjun; **Dedova, Tatjana**; **Oja Acik, Ilona**; **Krunks, Malle** GSFMT Scientific Conference 2020 : Tallinn, February 4-5, 2020 : abstracts 2020 / p. 18 http://fmtdk.ut.ee/wp-content/uploads/2020/01/GSFMT2020.pdf

Properties of the CdCl2 air-annealed CSS CdTe thin films
Spalatu, Nicolae; **Hiie, Jaan**; **Valdna, Vello**; **Maticiuc, Natalia**; **Krunks, Malle**; **Mikli, Valdek** TÜ ja TTÜ doktorikool "Funktsionaalsed materjalid ja tehnoloogiad" : 04.-05. märts 2014, Tartu 2014 / [1] p

Properties of the CdCl2 air-annealed CSS CdTe thin films
Spalatu, Nicolae; **Hiie, Jaan**; **Valdna, Vello**; Caraman, Mihail; **Maticiuc, Natalia**; **Mikli, Valdek**; **Potlog, Tamara**; **Krunks, Malle**; Lughi, Vanni Energy procedia 2014 / p. 85-95 : ill https://doi.org/10.1016/j.egypro.2013.12.013 Conference proceedings at Scopus Article at Scopus Article at WOS

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 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/acsaem.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://fmtdk.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 optoelektroonseteks rakendusteks
Ibrahim, Akram Abdalla Mohammed 2021 https://digikogu.taltech.ee/et/Item/0d07be7f-3737-4350-9de4-80f32df036de https://www.ester.ee/record=b5470705*est https://doi.org/10.23658/taltech.57/2021

Pulsed laser deposition of Zn(O,Se) layers in nitrogen background pressure
Abdalla, Akram; **Bereznev, Sergei**; **Spalatu, Nicolae**; **Volobujeva, Olga**; **Sleptšuk, Natalja**; **Danilson, Mati** Scientific reports 2019 / art. 17443, 10 p. : ill https://doi.org/10.1038/s41598-019-54008-1 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

PVD of n-CuIn5Se8 photoabsorber films for hybrid solar cells

Adhikari, Nirmal; **Bereznev, Sergei**; **Kois, Julia**; **Volobujeva, Olga**; **Raadik, Taavi**; **Traksmaa, Rainer**; Dahal, R.K.; Tverjanovich, Andrey; **Öpik, Andres** Baltic Polymer Symposium 2012 : Liepaja, Latvia, September 19-22 : programme and proceedings 2012 / p. 29

Päikeseelemendid H2S atmosfääris kuumutamisega modifitseeritud elektrokeemiliselt sadestatud CuInSe2 kilede baasil
Kois, Julia; **Bereznev, Sergei**; **Mellikov, Enn**; **Öpik, Andres** XXVIII Eesti keemiapäevad : teaduskonverentsi ettekannete teesid = 28th Estonian Chemistry Days : abstracts of scientific conference 2002 / lk. 59

Päikeseelementide uued materjalid ja konstruktsioonid : kommentaar Eesti Vabariigi teaduse aastapreemia pälvinud tööde tsüklile
Mellikov, Enn; **Altosaar, Mare**; **Bereznev, Sergei**; **Öpik, Andres** Tallinna Tehnikaülikooli aastaraamat 2006 2007 / lk. 262-267 : ill

Päikeseenergeetika tulevikku kujundavad kilepinnad ja tandempaneelid
Piir, Rait novaator.err.ee 2023 Päikeseenergeetika tulevikku kujundavad kilepinnad ja tandempaneelid

Päikeseenergeetika väljakutse : mis saab päikesepaneelidest elukaare lõpus?
Grossberg-Kuusk, Maarja postimees.ee 2024 Päikeseenergeetika väljakutse: mis saab päikesepaneelidest elukaare lõpus?

Päikesega saab kütta tuba ja vett, ilma paneele võrku ühendamata
Raamets, Heli maakodu.delfi.ee 2023 Päikesega saab kütta tuba ja vett, ilma paneele võrku ühendamata

Päikesepaneelid ja korteriühistud: müüdid vs. tegelikkus [Võrguväljaanne]
Raadik, Taavi kinnisvarauudised.ee 2022 Päikesepaneelid ja korteriühistud: müüdid vs. tegelikkus

Päikesepaneelid muutuvad järjest populaarsemaks ja põhjusega
Maaleht 2023 / Lk. 28 : fot https://dea.digar.ee/article/maaleht/2023/01/12/57

Päikesepaneelid sobivad ka kortermajale
Raadik, Taavi Võrumaa Teataja 2022 / Lk. 2 Päikesepaneelid sobivad ka kortermajale

Päikesepaneelide hind langeb ja kasutamine kasvab
Olup, Nele-Mai; **Jagomägi, Andri** Postimees 2015 / lk. 5 https://www.postimees.ee/3435269/paikesepaneelide-hind-langeb-ja-kasutamine-eestis-kasvab

Päikesepaneelidest tee : [Maanteeameti, TTÜ ja Tallinna Tehnikakõrgkooli koostöös väljatöötatud päikesepaneelidega varustatud teekatendist]
Aastaraamat / Maanteeamet 2017 / lk. 26 : ill http://www.ester.ee/record=b1293342*est

Päikesepatareisid täiustav teadlane Atanas Katerski : teadustöö võtab 24/7, aga paneb ikkagi silma särama
Alvela, Ain teadus.postimees.ee 2023 Päikesepatareisid täiustav teadlane Atanas Katerski: teadustöö võtab 24/7, aga paneb ikkagi silma särama

Pyrite as promising monograin layer solar cell absorber material for in-situ solar cell fabrication on the Moon
Kristmann, Katriin; **Raadik, Taavi**; **Altosaar, Mare**; **Grossberg-Kuusk, Maarja**; **Krustok, Jüri**; **Pilvet, Maris**; **Mikli, Valdek**; **Kauk-Kuusik, Marit**; Makaya, Advenit Acta Astronautica 2022 / P. 420-424 https://doi.org/10.1016/j.actaastro.2022.07.043 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Pyrite as prospective monograin layer solar cell absorber material for in-situ solar cell fabrication on the Moon
Kristmann, Katriin; **Raadik, Taavi**; **Altosaar, Mare**; **Grossberg, Maarja**; **Krustok, Jüri**; **Pilvet, Maris**; **Mikli, Valdek**; **Kauk-Kuusik, Marit** IAC 2021 congress proceedings 2021 / p. 1-6 : ill https://deepzone3.ttu.ee/~juri.krustok/PDF-s/IAC-21,C3,4,7,x64087.pdf Conference Proceedings at Scopus Article at Scopus

Pyrite based solar panel in-situ production on the Moon for space-based solar power
Raadik, Taavi; **Kristmann, Katriin**; Ciazela, J.; Jozefowicz, M.; Kowalinski, M.; Sniadkowski, A.; Bakala, J.; Steslicki, M.; Zalewska, N.; Pieterek, B.; Ciazela, M.; Marciniak, D. IAC 2023 congress proceedings 2023 / 9 p. : ill https://iafastro.directory/iac/paper/id/79277/abstract-pdf/IAC-23,D3,2B,6,x79277.brief.pdf?2023-03-30.12:16:44 Conference proceedings at Scopus Article at Scopus

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

Radiative recombination in $Cu_2ZnSnSe_4$ thin films with Cu deficiency and Zn excess
Yakushev, M. V.; Marquez-Prieto, J.; Forbes, I.; Edwards, P. R.; Zhivulko, V. D.; Mudryi, A. V.; **Krustok, Jüri**; Martin, R. W. Journal of physics D : applied physics 2015 / p. 1-7 : ill https://doi.org/10.1088/0022-3727/48/47/475109 Journal metrics at Scopus Article at

Scopus Journal metrics at WOS Article at WOS

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

Rapid assessment of photovoltaic activity of perovskite solar cells by photoluminescence spectroscopy
Dileep, K. Reshma; **Mandati, Sreekanth**; **Ramasamy, Easwaramoorthi**; **Mallick, S**; Rao, Tata Naransinga; **Veerappan, Ganapathy** Materials letters 2021 / art. 130056, 4 p. : ill https://doi.org/10.1016/j.matlet.2021.130056

Rational design of highly efficient flexible and transparent p-type composite electrode based on single-walled carbon nanotubes
Rajanna, Pramod M.; Meddeb, Hosni; **Bereznev, Sergei**; **Volobujeva, Olga**; **Danilson, Mati** Nano energy 2020 / art. 104183, 9 p. : ill https://doi.org/10.1016/j.nanoen.2019.104183 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Real-time monitoring of solar modules manufacturing
Tšukrejev, Pavel; **Kruuser, Kaarel**; **Gorbachev, Georgy**; **Karjust, Kristo**; **Majak, Jüri** International journal of engineering research in Africa 2020 / p. 9-13 https://doi.org/10.4028/www.scientific.net/JERA.51.9 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Reduced recombination through the CZTS/CdS interface engineering in monograin layer solar cells
Kauk-Kuusik, Marit; **Timmo, Kristi**; **Muska, Katri**; **Pilvet, Maris**; **Krustok, Jüri**; **Danilson, Mati**; **Mikli, Valdek**; **Josepson, Raavo**; **Grossberg, Maarja** JPhys Energy 2022 / art. 024007 https://doi.org/10.1088/2515-7655/ac618d Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Reliability analysis of micro-inverters considering PV module variations and degradation rates
Liivik, Elizaveta; Sangwongwanich, Ariya; Blaabjerg, Frede 2018 20th European Conference on Power Electronics and Applications (EPE'18 ECCE Europe) : Riga, Latvia, 17-21 September 2018 2018 / p. 1475-1482 : ill https://ieeexplore.ieee.org/document/8515325

Reliability evaluation of an impedance-source PV microconverter
Shen, Yanfeng; **Liivik, Elizaveta**; Blaabjerg, Frede; **Vinnikov, Dmitri**; Wang, Huai; **Chub, Andrii** 17th International Symposium "Topical Problems in the Field of Electrical and Power Engineering". Doctoral school of energy and geotechnology. III : Kuressaare, Estonia, January 15-20, 2018 2018 / p. 108-110 : ill http://ise.elnet.ee/record=b2950026~S2*est

Reliability study of input side capacitors in impedance-source PV microconverters
Liivik, Elizaveta; **Vinnikov, Dmitri**; **Chub, Andrii**; Shen, Yanfeng IECON 2019 - 45th Annual Conference of the IEEE Industrial Electronics Society : proceedings 2019 / p. 5026–5032 : ill https://doi.org/10.1109/IECON.2019.8927173 Conference proceedings at Scopus Article at Scopus Article at WOS

Research on materials for solar cells at Tallinn Technical University
Krunks, Malle Materials, abstracts of Sustainable Community Development Baltic Meeting Point, Uppsala, 1998 1998 / p. 4

Revolutsioon päikesepaneelide tootmises : [päikesepatareide tehnoloogiliste lahenduste arendustöödest TTÜs]
Tehnoloogia : TTÜ noorteajakiri 2013 / lk. 28 : ill

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

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

Sb2S3 grown by ultrasonic spray pyrolysis and its application in a hybrid solar cell
Kärber, Erki; **Katerski, Atanas**; **Oja Acik, Ilona**; **Mere, Arvo**; **Mikli, Valdek**; **Krunks, Malle** Beilstein journal of nanotechnology 2016 / p. 1662-1673 : ill http://dx.doi.org/10.3762/bjnano.7.158

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 films by ultrasonic spray pyrolysis of antimony ethyl xanthate
Eensalu, Jako Siim; **Tõnsuaadu, Kaia**; **Oja Acik, Ilona**; **Krunks, Malle** Materials science in semiconductor processing 2022 / art. 106209 : ill https://doi.org/10.1016/j.mssp.2021.106209 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Sb2S3 thin-film solar cells fabricated from an antimony ethyl xanthate based precursor in air
Eensalu, Jako Siim; **Mandati, Sreekanth**; Don, Christopher H.; Finch, Harry; Dhanak, Vinod R.; Major, Jonathan D.; Grzibovskis, Raitis; Tamm, Aile; Ritslaid, Peeter; **Josepson, Raavo**; Käämbre, Tanel; Vembris, Aivars; **Spalatu, Nicolae**; **Krunks, Malle**; **Oja Acik, Ilona** ACS applied materials & interfaces 2023 / p. 42622-42636 https://doi.org/10.1021/acsami.3c08547 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Sb2S3 õhukesed absorberkihid pool-läbipaistvatele päikesepatareidele
Oja Acik, Ilona; **Eensalu, Jako Siim**; **Katerski, Atanas**; **Krunks, Malle** XXXIV Eesti keemiapäevad : 100. aastapäeva teaduskonverentsi teesid 2019 / lk. 32 https://www.ester.ee/record=b1580289*est

Seal, kus lõpeb asfalt, algab nutitee
Kendra, Ain Sirp 2017 / lk. 30-31 : fot http://www.sirp.ee/s1-artiklid/arhitektuur/seal-kus-lopeb-asfalt-algab-nutitee/

Selenisation of sequentially electrodeposited Cu-Zn and Sn precursor layers
Iljina, Julia; **Volobujeva, Olga**; **Raadik, Taavi**; **Revathi, Naidu**; **Raudoja, Jaan**; **Loorits, Mihkel**; **Traksmaa, Rainer**; **Mellikov, Enn** Thin solid films 2013 / p. 14-17 : ill

A self-rechargeable and flexible polymer solar battery
Dennler, G.; **Bereznev, Sergei**; **Meissner, Dieter**; **Mellikov, Enn**; **Öpik, Andres** Solar energy 2007 / 8, p. 947-957 https://www.sciencedirect.com/science/article/pii/S0038092X07000424

Semitransparent Sb2S3 thin film solar cells by ultrasonic spray pyrolysis for use in solar windows
Eensalu, Jako Siim; **Katerski, Atanas**; **Kärber, Erki**; Weinhardt, Lothar; Blum, Monika; Heske, Clemens; **Oja Acik, Ilona**; **Krunks, Malle** Beilstein journal of nanotechnology 2019 / p. 2396−2409 https://doi.org/10.3762/bjnano.10.230 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Single-phase qZS-based PV inverter with integrated battery storage for distributed energy generation
Husev, Oleksandr; **Makovenko, Elena**; **Vinnikov, Dmitri**; **Jalakas, Tanel** 2018 IEEE 12th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG 2018) : Doha, Qatar, 10-12 April 2018 2018 / p. 508-513 : ill https://doi.org/10.1109/CPE.2018.8372570

Single-switch impedance-source galvanically isolated DC-DC converter with combined energy transfer
Chub, Andrii; **Vinnikov, Dmitri**; Babaei, Ebrahim; **Liivik, Elizaveta**; **Korkh, Oleksandr**; Kouro, Samir 59th Annual International Scientific Conference on Power and Electrical Engineering : November 12, 13, 2018, Riga Technical University (RTUCON) : conference proceedings 2018 / 6 p. : ill https://doi.org/10.1109/RTUCON.2018.8659851

Small signal modeling of interleaved quasi-z-source inverter with active power decoupling circuit
Stepenko, Serhii; **Husev, Oleksandr**; **Pires Pimentel, Sergio**; **Makovenko, Elena**; **Vinnikov, Dmitri** 59th Annual International Scientific Conference on Power and Electrical Engineering : November 12, 13, 2018, Riga Technical University (RTUCON) : conference proceedings 2018 / 6 p. : ill https://doi.org/10.1109/RTUCON.2018.8659903

SnS thin films deposition by chemical solution method and characterization = SnS õhukeste kilede sadestamine keemilisest lahusest ja saadud kilede iseloomustamine
Safonova, Maria 2016 https://www.ester.ee/record=b4535442*est

Solar cell on nanostructured ZnO by spray pyrolysis deposition
Katerski, Atanas; **Dedova, Tatjana**; **Oja Acik, Ilona**; **Mere, Arvo**; **Krunks, Malle** 2-nd International Conference on surfaces, Coatings and Nanostructured Materials (NANOSMAT 2007) : 9-11 July 2007, Alvor, Algarve, Portugal : abstracts book 2007 / p. 256

Solar cell structures based on sprayed CuInS2 absorber layer
Mere, Arvo; **Krunks, Malle**; **Kijatkina, Olga** Proceedings of the 20th Nordic Semiconductor Meeting : Optoelectronics Research Center, Tampere University of Technology, Tampere, Finland, August 25-27, 2003 2004

Solar cell structures by non-vacuum techniques based on sprayed CuInS2 absorber layers
Mere, Arvo; Katerski, M.; **Kijatkina, Olga**; **Krunks, Malle** 19th European Photovoltaic Solar Energy Conference : 7-11 June 2004, Paris, France 2004 / p. 1973-1976 : ill

Solar cells from TalTech to upsurge Internet of Things expansion
Sibinski, Maciej news.err.ee 2024 Solar cells from TalTech to upsurge Internet of Things expansion

Solar energy harvesting through photovoltaic and photoelectrochemical means from appositely prepared CuInGaSe2 absorbers on flexible substrates by a low-cost and industrially benign pulse electrodeposition technique
Mandati, Sreekanth; Misra, Prashant; Boosagulla, Divya; Tata, Narasinga Rao; Bulusu, Sarada V. Industrial and engineering chemistry research 2021 / p. 2197–2205 https://doi.org/10.1021/acs.iecr.0c05934

Solar optiverter - a novel hybrid approach to the photovoltaic module level power electronics
Vinnikov, Dmitri; **Chub, Andrii**; Kosenko, Roman; **Korkh, Oleksandr** IEEE transactions on industrial electronics 2019 / p. 3869-3880 https://doi.org/10.1109/TIE.2018.2850036 Tehnikaülikooli seade muudab päikesepaneelid märgatavalt tootlikumaks Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Solar PV Generation and Consumption Dataset of an Estonian Residential Dwelling
Hasan, Sayeed; **Blinov, Andrei**; **Chub, Andrii**; **Vinnikov, Dmitri** Scientific Data 2025 / art. 481 https://doi.org/10.1038/s41597-025-04747-w

Sol-gel derived phosphors for optical applications : chapter 11
Rojas Hernandez, Rocio Estefania; Santos, Luis F.; Almeida, Rui M. Sol-gel derived optical and photonic materials 2020 / p. 253-270 : ill https://doi.org/10.1016/B978-0-12-818019-8.00011-9

Solubility of CuInSe2 in potassium iodide
Kauk, Marit; **Timmo, Kristi**; **Altosaar, Mare**; **Raudoja, Jaan** Conference on Knowledge-based Materials and Technologies for Sustainable Chemistry : 1-5 June 2005, Tallinn, Estonia : abstract book 2005 / p. 90

Spin - coating of SnO2 thin films
Ganchev, Maxim; **Katerski, Atanas**; Stankova, Stanka; **Eensalu, Jako Siim**; Terziyska, Penka Journal of physics : conference series 2019 / art. 012027, 7 p. : ill https://doi.org/10.1088/1742-6596/1186/1/012027 Conference proceeding at Scopus Article at Scopus Article at WOS

Sprayed CuInS2 films grown under Cu-rich conditions as absorbers for solar cells
Krunks, Malle; **Kijatkina, Olga**; **Mere, Arvo**; **Varema, Tiit**; **Oja, Ilona**; **Mikli, Valdek** Solar energy materials & solar cells 2005 / p. 207-214 : ill

State coordinated voltage control in an active distribution network with on-load tap changers and photovoltaic systems
Singh, Praveen Prakash; **Palu, Ivo** Global Energy Interconnection 2021 / 9 p. : ill https://doi.org/10.1016/j.gloei.2021.05.005 Journal metrics at Scopus Article at Scopus Article at WOS

State-of-the-Art Review of Emerging Trends in Renewable Energy Generation Technologies
Tiismus, Hans; **Maask, Vahur**; **Astapov, Victor**; **Korõtko, Tarmo**; **Rosin, Argo** IEEE Access 2025 / p. 10820 - 10843 https://doi.org/10.1109/ACCESS.2025.3528640

Step-up current-source partial power converter for PV systems
Abdelrahim Abdelghafour, Omar Mohamed; **Chub, Andrii**; **Blinov, Andrei**; **Vinnikov, Dmitri**; **Hassanpour, Naser** IEEE 13th International Symposium on Power Electronics for Distributed Generation Systems (PEDG) 2022 / 6 l. https://doi.org/10.1109/PEDG54999.2022.9923250

Structural and compositional properties of CZTS thin films formed by rapid thermal annealing of electrodeposited layers
Lehner, Julia; **Loorits, Mihkel**; **Revathi, Naidu**; **Raadik, Taavi**; **Raudoja, Jaan**; **Grossberg, Maarja**; **Mellikov, Enn**; **Volobujeva, Olga**; **Ganchev, Maxim** Journal of crystal growth 2013 / p. 236-240 : ill https://doi.org/10.1016/j.jcrysgro.2013.06.012 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Structural and mechanical properties of laminate-type thin film SWCNT/SiOXNY composites
Shmagina, Elizaveta; **Volobujeva, Olga**; **Antonov, Maksim**; **Bereznev, Sergei** SICT 2024, PLASMA TECH 2024 and TRIBOLOGY 2024 : JOINT international conferences : book of abstracts 2024 / p. 142 https://www.setcor.org/conferences/tribology-2024/conference-program

Structural and optoelectronic properties of CdCl2 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, 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

Study of composition and thermal treatments of quaternary compounds for monograin layer solar cells = Päikesepatareides kasutatavate monoterapulbriliste nelikühendite koostise ja termotöötluste uurimine
Muska, Katri 2012 https://www.ester.ee/record=b2882895*est

Study of CZTS nano-powder synthesis by hot injection method by variation of Cu and Zn concentrations
Kumar, Suresh; **Kumar, Vikash**; **Mikli, Valdek**; **Varema, Tiit**; **Altosaar, Mare**; **Grossberg, Maarja** Energy procedia 2016 / p. 136-143 : ill https://doi.org/10.1016/j.egypro.2016.11.328 Conference Proceedings at Scopus Article at Scopus Article at WOS

Study of Cu2CdGeSe4 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 simple MPPT converter topologies for grid integration of photovoltaic systems
Zakis, Janis; **Vinnikov, Dmitri** Scientific journal of Riga Technical University. Serija 4, Power and electrical engineering 2011 / p. 67-72 : ill
https://www.researchgate.net/publication/258547430_Study_of_Simple_MPPT_Converter_Topologies_for_Grid_Integration_of_Photovoltaic_Systems

Study of spray-CVD deposited Zn(O,S) films on Mo substrates and application in Cu(In, Ga)(S, Se)2 solar cells as buffer layers
Kriisa, Merike; Fischer, Christian-Herbert; **Krunks, Malle** TÜ ja TTÜ doktorikool "Funktsionaalsed materjalid ja tehnoloogiad" : 04.-05. märts 2014, Tartu 2014 / [1] p

Study of spray-deposited CuInS2 in ETA solar cells
Lenzmann, F.; Dlodczik, L.; Grasso, C.; **Kijatkina, Olga**; Mahrov, B.; Rühle, S. EMRS 2002, France. B/PIII 2002 / p. 35

Study of structural and optoelectronic properties of $Cu_2Zn(Sn_{1-x}Ge_x)Se_4$ (x = 0 to 1) alloy compounds
Grossberg, Maarja; **Timmo, Kristi**; **Raadik, Taavi**; **Kärber, Erki**; **Mikli, Valdek**; **Krustok, Jüri** Thin solid films 2015 / p. 176-179 : ill https://doi.org/10.1016/j.tsf.2014.10.055 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Study of Zn(O,S) films grown by aerosol assisted chemical vapour deposition and their application as buffer layers in $Cu(In,Ga)(S,Se)_2$ solar cells
Kriisa, Merike; Saez-Araoz, Rodrigo; **Kärber, Erki**; **Krunks, Malle** Solar energy 2015 / p. 562-568 : ill
https://doi.org/10.1016/j.solener.2015.02.046 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Study of the optical properties of Sb2(Se1-xSx)3 (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 TiO2 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://fmtdk.ut.ee/teesid-2019/

Study of the structure and optoelectronic properties of Cu2Ge(SexS1-x)3 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 on power losses of the full soft-switching current-fed DC/DC converter with Si and GaN devices
Chub, Andrii; **Rabkowski, Jacek**; **Blinov, Andrei**; **Vinnikov, Dmitri** IECON 2015 - Yokohama : 41st Annual Conference of the IEEE Industrial Electronics Society : November 9-12, 2015, Pacifico Yokohama, Yokohama, Japan 2015 / p. 13-18

Study on the properties of TiO2 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

SuInSe2 pinna keemiline söövitamine
Kauk, Marit; Tsarjova, Tatjana; **Altosaar, Mare**; **Raudoja, Jaan** XXVIII Eesti keemiapäevad : teaduskonverentsi ettekannete teesid = 28th Estonian Chemistry Days : abstracts of scientific conference 2002 / lk. 52-53

Sulfur-containing Cu2ZnSnSe4 monograin powders for solar cells
Timmo, Kristi; **Altosaar, Mare**; **Raudoja, Jaan**; **Muska, Katri**; **Pilvet, Maris**; **Kauk, Marit**; **Varema, Tiit**; **Danilson, Mati**; **Volobujeva, Olga**; **Mellikov, Enn** Solar energy materials & solar cells 2010 / 11, p. 1889-1892 : ill

Surface plasmon resonance in ZnO nanorod arrays caused by gold nanoparticles for solar cell application
Gromõko, Inga; **Oja Acik, Ilona**; **Krunks, Malle**; **Dedova, Tatjana**; **Katerski, Atanas**; **Mere, Arvo**; **Mikli, Valdek**; **Vessart, Risto** Physica status solidi (c) 2015 / p. 1338-1343 : ill https://doi.org/10.1002/pssc.201510103 Journal metrics at Scopus Article at Scopus

Article at WOS

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?

Synthesis and characterisation of Cu2ZnSnSe4 thin films prepared via a vacuum evaporation-based route
Volobujeva, Olga; **Bereznev, Sergei**; **Raudoja, Jaan**; **Otto, Kairi**; **Pilvet, Maris**; **Mellikov, Enn** Thin solid films 2013 / p. 48-51 : ill https://doi.org/10.1016/j.tsf.2012.12.080 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Synthesis and characterization of pyrite FeS2 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 Cu10Cd2Sb4S13 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 Cu10Cd2Sb4S13 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://fmtdk.ut.ee/teesid-2019/

Synthesis and optical properties of Ga2O3 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 of Cu2ZnSnS4 solar cell absorber material by sol-gel method
Kumar, Suresh; **Kasubosula, Bharath**; **Loorits, Mihkel**; **Raudoja, Jaan**; **Mikli, Valdek**; **Altosaar, Mare**; **Grossberg, Maarja** Energy procedia 2016 / p. 102-109 : ill https://doi.org/10.1016/j.egypro.2016.11.324 Conference Proceedings at Scopus Article at Scopus Article at WOS

System-level condition monitoring approach for fault detection in photovoltaic systems
Zahraoui, Younes; **Alhamrouni, Ibrahim**; Hayes, Barry P.; Mekhilef, Saad; Korõtko, Tarmo Fault analysis and its impact on grid-connected photovoltaic systems performance 2022 https://doi.org/10.1002/9781119873785.ch7

Zinc oxide rods on different TCO substrates and seed layers by electrochemical deposition
Gromõko, Inga; **Dedova, Tatjana**; **Krunks, Malle**; **Mikli, Valdek**; **Unt, Tarmo**; **Oja Acik, Ilona**; **Mere, Arvo** Proceedings of the 11th International Conference of Young Scientists on Energy Issues : CYSENI 2014 : May 29-30, 2014, Kaunas, Lithuania 2014 / p. VII-298-VII-305

Zinc oxide thin films by spray pyrolysis method for solar cells
Krunks, Malle; **Varema, Tiit**; Meissner, Dieter Tallinna Tehnikaülikooli Toimetised 1994 / lk. 101-113: ill

Zinc oxide thin films by the spray pyrolysis method
Krunks, Malle; **Mellikov, Enn** Thin solid films 1995 / p. 33-36: ill

ZnO nanostructures by chemical spray for next generation solar cells
Krunks, Malle; **Dedova, Tatjana**; **Oja Acik, Ilona**; **Kriisa, Merike**; **Mikli, Valdek**; **Katerski, Atanas**; **Kärber, Erki**; **Mere, Arvo** NEXTGEN NANO PV : book of abstracts 2013 / p. 31-32

ZnO nanowires for solar cells : a comprehensive review
Consonni, Vincent; Briscoe, Joe; **Kärber, Erki** Nanotechnology 2019 / art. 362001, 41 p : ill https://doi.org/10.1088/1361-6528/ab1f2e Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Zn(O,Se) as a novel buffer layer for thin film solar cells
Abdalla, Akram; **Polivtseva, Svetlana**; **Spalatu, Nicolae**; **Volobujeva, Olga**; **Hiie, Jaan**; **Bereznev, Sergei** Tartu Ülikooli ASTRA projekt PER ASPERA : Funktsionaalsed materjalid ja tehnoloogiad : [4.-5. veebr. 2019, Tartu : teesid] 2019 http://fmtdk.ut.ee/teesid-2019/

ZnS buffer layer for $Cu_2ZnSn(SSe)_4$ monograin layer solar cell
Nguyen, Mai; Ernits, Kaia; **Meissner, Dieter** Solar energy 2015 / p. 344-349 : ill http://dx.doi.org/10.1016/j.solener.2014.11.006

Tailoring composition and properties of CuInSe2 materials for solar cell application
Kauk, Marit; Timmo, Kristi; **Kaupmees, Liina**; **Altosaar, Mare**; **Raudoja, Jaan** The Fourth International Conference on Advanced Optical Materials and Devices : (AOMD-4) : Tartu, Estonia, July 6-9, 2004 : abstracts 2004 / p. 44

Tailoring the composition and properties of CuInSe2 materials for solar cell application
Kauk, Marit; **Altosaar, Mare**; **Raudoja, Jaan**; **Timmo, Kristi**; **Grossberg, Maarja**; **Varema, Tiit**; **Ernits, Kaia** Proceedings of SPIE 2005 / Optical materials and applications, p. 224

Tallinna Tehnikaülikool tunnustab : iseliikuv robotsõiduk Boxbot ja päikeseelektrit tootev teekatend
Elektriala 2021 / lk. 8 : fot https://www.ester.ee/record=b1240496*est

Tallinnas alustatakse energiakriisi lahendamist: päikesepaneelid põldudel ja ehitistel saavad kergemaks ning tõhusamaks
postimees.ee 2023 Tallinnas alustatakse energiakriisi lahendamist: päikesepaneelid põldudel ja ehitistel saavad kergemaks ning tõhusamaks

TalTech panustab kosmosevaldkonda kiipide, päikesepaneelide ja satelliitidega
Normak, Liisu Kirke Trialoog 2025 https://trialoog.taltech.ee/taltech-panustab-kosmosevaldkonda-kiipide-paikesepaneelide-ja-satelliitidega/

TalTech teel Kuule Päikest võtma
Vaaks, Eveliis; Raadik, Taavi Trialoog 2025 https://trialoog.taltech.ee/tehnikaulikool-teel-kuule-paikest-votma/

TalTech toob päikeselise tuleviku
Ehitaja 2023 / lk. 34-35 : fot https://www.ester.ee/record=b1072123*est https://artiklid.elnet.ee/record=b2904074*est

TalTech toob päikeselise tuleviku
digi.geenius.ee 2023 TalTech toob päikeselise tuleviku

TalTech toob päikeselise tuleviku
digi.geenius.ee 2023 TalTech toob päikeselise tuleviku

TalTechi doktorant tahab uue põlvkonna päikesepaneelid Kuule viia
Kristmann, Katriin menu.err.ee 2024 TalTechi doktorant tahab uue põlvkonna päikesepaneelid Kuule viia

TalTechi teadlased otsivad parimat päikesepaneelimaterjali
Imeline Teadus 2021 / lk. 22-23 : fot https://www.ester.ee/record=b2747925*est

TalTechi teadlased: viie aastaga laieneb päikeseenergeetika lahenduste valik märgatavalt
Oja Acik, Ilona digi.geenius.ee 2023 TalTechi teadlased: viie aastaga laieneb päikeseenergeetika lahenduste valik märgatavalt

TalTechi teadlaste seade tõhustab päikesepaneele
Imeline Teadus 2019 / lk. 21 : fot https://www.ester.ee/record=b2747925*est

TalTechi teadur tahab viia elektrikulud nulli lähedale
arileht.delfi.ee 2023 TalTechi teadur tahab viia elektrikulud nulli lähedale

Teadlane dilemma ees - kas teha teadust või siseneda ärimaailma
Grossberg-Kuusk, Maarja TööstusEST 2024 / lk. 10-13 : portr., skeem https://www.ester.ee/record=b4481084*est

Teadlane: elekter läheb odavamaks, võrgutasud kallimaks
Rosin, Argo novaator.err.ee 2024 Teadlane: elekter läheb odavamaks, võrgutasud kallimaks

Teadlased nuputavad, kuidas ehitada kliimaneutraalset ja taskukohast maja
Leis, Tiiu Postimees 2021 / Lk. 6-7 https://dea.digar.ee/publication/postimees https://www.ester.ee/record=b1072778*est

Teadlased nuputavad, kuidas ehitada kliimaneutraalset ja taskukohast maja [Võrguväljaanne]
Leis, Tiiu postimees.ee 2021 "Teadlased nuputavad, kuidas ehitada kliimaneutraalset ja taskukohast maja"

Teadus ja igapäevaelu : teadussaavutuste rakendamine praktikas
Alvela, Ain Tehnikamaailm 2024 / lk. 68-73 : ill., fot., portr https://www.ester.ee/record=b1073050*est

Teadus nõuab detektiivi mõtteviisi

Eesti Naine 2023 / lk. 62-63 : fot https://www.ester.ee/record=b1072072*est

Tee toodabki elektrit
Teeleht 2017 / lk. 6 : fot http://www.ester.ee/record=b1073043*est

Temperature dependent current transport properties in Cu_2ZnSnS_4 solar cells
Danilson, Mati; **Kask, Erkki**; **Pokharel, Nikhil**; **Grossberg, Maarja**; **Kauk-Kuusik, Marit**; **Varema, Tiit**; **Krustok, Jüri** Thin solid films 2015 / p. 162-165 : ill https://doi.org/10.1016/j.tsf.2014.10.069 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Temperature dependent electroreflectance study of CdTe solar cells
Raadik, Taavi; **Krustok, Jüri**; **Josepson, Raavo**; **Hiie, Jaan**; Potlog, Tamara; **Spalatu, Nicolae** Thin solid films 2013 / p. 279-282 : ill https://doi.org/10.1016/j.tsf.2012.12.083 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Temperature dependent electroreflectance study of $Cu_2ZnSnSe_4$ solar cells
Krustok, Jüri; **Raadik, Taavi**; **Grossberg, Maarja**; Giraldo, Sergio; Neuschitzer, Markus; Lopez-Marino, Simon; Saucedo, Edgardo Materials science in semiconductor processing 2015 / p. 251-254 : ill https://doi.org/10.1016/j.mssp.2015.04.055 Journal metrics at Scopus Article at Scopus Article at WOS Article at WOS

Temperature-dependent photoreflectance of SnS crystals
Raadik, Taavi; **Grossberg, Maarja**; **Raudoja, Jaan**; **Traksmaa, Rainer**; **Krustok, Jüri** Journal of physics and chemistry of solids 2013 / p. 1683-1685 : ill https://doi.org/10.1016/j.jpcs.2013.06.002 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Textile-integrated conductive layers for flexible semiconductor-based photovoltaic structures
Czarnecki, Przemyslaw; Szudziel, Bartosz; Janczak, Daniel; Ruta, Lukasz; **Sibinski, Maciej**; Znajdek, Katarzyna Energies 2024 / art. 3839 https://doi.org/10.3390/en17153839

The cost-effective deposition of ultra-thin titanium(IV) oxide passivating layers for improving photoelectrochemical activity of SnS electrodes
Kois, Julia; **Polivtseva, Svetlana**; **Bereznev, Sergei** Thin solid films 2019 / p. 152-156 : ill https://doi.org/10.1016/j.tsf.2018.12.047 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

The effect of Ag alloying of Cu2(Zn,Cd)SnS4 on the monograin powder properties and solar cell performance
Timmo, Kristi; **Altosaar, Mare**; **Pilvet, Maris**; **Mikli, Valdek**; **Grossberg, Maarja**; **Danilson, Mati**; **Raadik, Taavi**; **Josepson, Raavo**; **Krustok, Jüri**; **Kauk-Kuusik, Marit** Journal of materials chemistry A 2019 / p. 24281-24291 : ill https://doi.org/10.1039/C9TA07768E TTÜ teadlased tõstsid uue põlvkonna päikesepaneelide tõhusust Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

The effect of laser fluences on the structural and optoelectronic properties of Zn(O,Se) films
Abdalla, Akram; **Kärber, Erki**; **Mikli, Valdek**; **Bereznev, Sergei** Materials science in semiconductor processing 2021 / art. 105429, 5 p. : ill https://doi.org/10.1016/j.mssp.2020.105429 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

The effect of S/SE ratio on the properties of Cu2CdGe(SxSe1-x)4 monograin powders for photovoltaic applications
Li, Xiaofeng; **Kauk-Kuusik, Marit**; **Timmo, Kristi**; **Pilvet, Maris**; **Grossberg, Maarja**; **Raadik, Taavi**; **Danilson, Mati**; **Mikli, Valdek** GSFMT Scientific Conference 2020 : Tallinn, February 4-5, 2020 : abstracts 2020 / p. 52 http://fmtdk.ut.ee/wp-content/uploads/2020/01/GSFMT2020.pdf

The electrical and optical properties of kesterites
Grossberg, Maarja; **Krustok, Jüri**; Hages, Charles J.; Bishop, Douglas M. Journal of Physics Energy 2019 / art. 044002, 16 p. : ill https://doi.org/10.1088/2515-7655/ab29a0

The processes and enthalpies in synthesis of Cu2ZnSnS4 in molten CdI2
Nkwusi, Godswill; **Leinemann, Inga**; **Altosaar, Mare** International advanced research journal in science, engineering and technology 2016 / p. 113-119 : ill http://dx.doi.org/10.17148/IARJSET.2016.3524

The role of spatial potential fluctuations in the shape of the PL bands of multinary semiconductor compounds
Krustok, Jüri; Collan, Heikki; Yakushev, M.; Hjelt, Kari Physica scripta 1999 / Proceedings of 18th Nordic Semiconductor Meeting, Linköping, Sweden, June 7-10, 1998, ISBN 91-87308-71-1, p. 179-182: ill https://deepzone4.ttu.ee/~juri.krustok/PDF-s/PHYSSCR.PDF

Thermal decomposition study of HAuCL4.3H2O and AgNO3 as precursors for plasmonic metal nanoparticles
Otto, Kairi; **Krunks, Malle**; **Oja Acik, Ilona**; **Tõnsuaadu, Kaia** Book of abstracts : 2nd Central and Eastern European Conference on Thermal Analysis and Calorimetry, 27-30 August 2013, Vilnius, Lithuania 2013 / p. 298

Thin tin monosulfide films deposited with the HVE method for photovoltaic applications = Tanka plast hve kositrovega monosulfida za uporabo v fotovoltaiki

Naidu, Revathi; **Bereznev, Sergei**; **Lehner, Julia**; **Traksmaa, Rainer**; **Safonova, Maria**; **Mellikov, Enn**; **Volobujeva, Olga** Materials and technology 2015 / p. 149-152 : ill http://mit.imt.si/Revija/izvodi/mit151/revathi.pdf

Three-mode reconfigurable rectifier for DC-DC converters with wide input voltage range
Chub, Andrii; **Vinnikov, Dmitri**; Kouro, Samir; Malinowski, Mariusz IECON 2019 - 45th Annual Conference of the IEEE Industrial Electronics Society : proceedings 2019 / p. 4429-4435 https://doi.org/10.1109/IECON.2019.8926994 Conference proceedings at Scopus Article at Scopus Article at WOS

Tin dioxide thin films deposited by sol - gel technique
Ganchev, Maxim; **Katerski, Atanas**; Stankova, Stanka; Eensalu, Jako Siim; Terziyska, Penka AIP conference proceedings 2019 / art. 140001, 8 p https://doi.org/10.1063/1.5091316 Conference proceedings at Scopus Article at Scopus Article at WOS

Towards all inorganic antimony sulphide semitransparent solar cells
Pareek, Alka; **Katerski, Atanas**; **Kriisa, Merike**; **Spalatu, Nicolae**; **Krunks, Malle**; **Oja Acik, Ilona** Scientific reports 2024 / art. 1468 https://doi.org/10.1038/s41598-025-85676-x

Tunneling-enhanced interface recombination and current loss curves in kesterite solar cells
Krustok, Jüri; **Timmo, Kristi**; **Kauk-Kuusik, Marit**; **Grossberg-Kuusk, Maarja** Applied physics letters 2023 / art. 242102 https://doi.org/10.1063/5.0175082 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Two-dimensional CuIn1-xGaxSe2 nano-flakes by pulse electrodeposition for photovoltaic applications
Mandati, Sreekanth; Dey, Suhash R.; Joshi, Shrikant V.; Sarada, Bulusu V. Solar energy 2019 / p. 396−404 https://doi.org/10.1016/j.solener.2019.02.022

Ultra thin TiO2 films with gold nanoparticles by the chemical spray pyrolysis method
Oja Acik, Ilona; **Oyekoya, G.**; **Dedova, Tatjana**; **Mikli, Valdek**; **Mere, Arvo**; **Krunks, Malle**; Dolgov, Leonid; Sildos, Ilmo Joint 12th Russia/CIS/Baltic/Japan Symposium on Ferroelectricity and 9th International Conference Functional Materials and Nanotechnologies : Institute of Solid State Physics, University of Latvia, September 29-October 2, Riga, Latvia : book of abstracts 2014 / p. 296

Ultrasonically sprayed In2S3 films for Cu(In,Ga)Se2 solar cells
Ernits, Kaia; Kaelin, M.; Bremaud, D. Proceedings of 21st European Photovoltaic Solar Energy Conference and Exhibition : Dresden, Germany, 4-8 September 2006 2006 / p. 1853-1856

Ultrawide voltage gain range microconverter for integration of silicon and thin-film photovoltaic modules in DC microgrids
Chub, Andrii; **Vinnikov, Dmitri**; **Korkh, Oleksandr**; Malinowski, Mariusz; Kouro, Samir IEEE transactions on power electronics 2021 / p. 13763-13778 https://doi.org/10.1109/TPEL.2021.3084918 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Uniform Sb2S3 optical coatings by chemical spray method
Eensalu, Jako Siim; **Katerski, Atanas**; **Kärber, Erki**; **Oja Acik, Ilona**; **Mere, Arvo**; **Krunks, Malle** Beilstein journal of nanotechnology 2019 / p. 198-210 : ill https://doi.org/10.3762/bjnano.10.18 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Uniform Sb2S3 optical coatings by chemical spray method : [conference paper]
Eensalu, Jako Siim; **Katerski, Atanas**; **Kärber, Erki**; **Oja Acik, Ilona**; **Mere, Arvo**; **Krunks, Malle** 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/

Uudne tehnoloogia päikeseenergiahoonetele
Chub, Andrii Ehitaja 2022 / lk. 22-23 : fot https://www.ester.ee/record=b1072123*est https://taltech.ee/uudised/jouelektroonika-teadustoo-viljad-edendavad-paikeseenergia-tehnoloogiat

Uudse päikesepaneeli leiutajad soovivad rajada miljarditehase : [teemat tutvustab Andres Öpik]
Öpik, Andres; Pinn, Mariliis Äripäev 2007 / 3. mai, lk. 11 https://www.aripaev.ee/uudised/2007/05/02/uudse-paikesepaneeli-leiutajad-soovivad-rajada-miljarditehase

Uue ajastu talupidaja tõestab päikeseenergia tasuvust
Alas, Taavi; **Loorits, Mihkel** Maaleht 2016 / Maa Elu, lk. 6-7 https://maaelu.postimees.ee/3734369/uue-ajastu-talupidaja-toestab-paikeseenergia-tasuvust

Uue põlvkonna päikesepaneelid muudavad kodu päikesepatareiks
Sibinski, Maciej novaator.err.ee 2024 Uue põlvkonna päikesepaneelid muudavad kodu päikesepatareiks

Uus materjal suurendab päikesepaneelide tõhusust
Imeline Teadus 2020 / lk. 20 : fot https://www.ester.ee/record=b2747925*est

Uute juhtidega jätkab Solarstone päikeseauto ehitamise toetamist
Koorep, Sigrid sakala.postimees.ee 2024 Uute juhtidega jätkab Solarstone päikeseauto ehitamise toetamist

Vastloodud TalTechi õppekava võimaldab paremasse tulevikku panustada [Võrguväljaanne]
forte.delfi.ee 2022 "Vastloodud TalTechi õppekava võimaldab paremasse tulevikku panustada"

Voltage control tuning of a single-phase grid-Connected 3L qZS-based inverter for PV application
Pires Pimentel, Sergio; **Husev, Oleksandr**; **Vinnikov, Dmitri**; Roncero-Clemente, Carlos; **Makovenko, Elena** 2018 IEEE 38th International Conference on Electronics and Nanotechnology (ELNANO 2018) : Kyiv, Ukraine, 24-26 April 2018 2018 / p. 692–698 : ill
https://doi.org/10.1109/ELNANO.2018.8477438

Üliõhuke päikesepaneel avab energia tootmisele uued uksed
Alvela, Ain; **Krautmann, Robert** novaator.err.ee 2023 Üliõhuke päikesepaneel avab energia tootmisele uued uksed
https://digikogu.taltech.ee/et/Item/e7e64926-5d49-40ad-8b3a-e225ea034f7d Ученый из Эстонии разрабатывает солнечные панели, которые изменят мир

В познавательном центре „Энергия“ открылась новая постоянная экспозиция, в фокусе которой солнечная энергия
rus.delfi.ee 2025 https://rus.delfi.ee/statja/120366289/foto-v-poznavatelnom-centre-energiya-otkrylas-novaya-postoyannaya-ekspoziciya-v-fokuse-kotoroy-solnechnaya-energiya

Выгодно ли устанавливать солнечные батареи дома?
Raadik, Taavi delfi.ee 2024 Выгодно ли устанавливать солнечные батареи дома?

Как правильно выбрать солнечные панели для своего дома? Рассказывает эксперт [Online resource]
delfi.ee 2022 Как правильно выбрать солнечные панели для своего дома? Рассказывает эксперт

Сравнительный анализ повышающих преобразователей для интеграции фотоэлектрических панелей в сеть
Husev, Oleksandr; **Vinnikov, Dmitri**; Veligorsky, O. Энергосбережение, энергетика, энергоаудит = Energy saving, power engineering, energy audit 2013 / с. 28-34 : ил

Сравнительный анализ повышающих преобразователей для интеграции фотоэлектрических панелей в сеть [Компьют. файл]
Husev, Oleksandr; **Vinnikov, Dmitri**; Veligorsky, O. Международная Научно-Техническая Конференция "Силовая Электроника и Энергоэффективность" : 23-27.IX 2013, Алушта, Крым 2013 / [2] с. : ил [CD-ROM]

Умная эстонка разрабатывает солнечные батареи, которые можно интегрировать в одежду
limon.ee 2023 Умная эстонка разрабатывает солнечные батареи, которые можно интегрировать в одежду

Ученые: солнечные панели можно делать и из дешевых материалов
Kauk-Kuusik, Marit dv.ee 2025 Ученые: солнечные панели можно делать и из дешевых материалов

Эксперт : как правильно выбрать солнечные панели для своего дома [Online resources]
rus.postimees.ee 2022 Эксперт : как правильно выбрать солнечные панели для своего дома

Электроосаждение полипиррола в качестве тыльного контакта для солнечного элемента CdS/CdTe
Bereznev, Sergei; **Kois, Julia**; **Jarkov, Aleksandr**; **Öpik, Andres**; **Mellikov, Enn** Шестая Всероссийская Каргинская конференция "Полимеры - 2014". Том I, Программа конференции и сборник тезисов пленарных, приглашённых, и устных докладов 2014 / с. 165