

A PL study of CIGS thin films implanted with He and D ions

Yakushev, M. V.; Martin, R. W.; **Krustok, Jüri**; Schock, H. W.; Pilkington, R. D.; Hill, A. E.; Tomlinson, R. D. Thin solid films 2000 / p. 488-493

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

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

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

Esterlich, Joan Ramish; Affannoukoue, Kevin; **Kaupmees, Reelika**; Miakota, Denys; Engberg, Sara; **Grossberg-Kuusk, Maarja**; Schou, Jorgen; Canulescu, Stela Applied physics. A, Materials science & processing 2023 / art. 59 <https://doi.org/10.1007/s00339-022-06319-w>

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

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

Anion effect of zinc source to chemically deposited ZnS(O,OH) films

Ernits, Kaia; **Muska, Katri**; **Danilson, Mati**; **Raudoja, Jaan**; **Varema, Tiit**; **Volobujeva, Olga**; **Altosaar, Mare** Advances in material science and engineering 2009 / [5] p. : ill

Annealing effect for SnS thin films prepared by high-vacuum evaporation

Revathi, Naidu; **Bereznev, Sergei**; **Loorits, Mihkel**; **Raudoja, Jaan**; **Lehner, Julia**; **Gurevitš, Jelena**; **Traksmaa, Rainer**; **Mikli, Valdek**; **Mellikov, Enn**; **Volobujeva, Olga** Journal of vacuum science & technology A 2014 / p. 061506-1 - 061506-6 : ill

Annealing effect on CdS films : transition from glass to ITO

Maticiu, Natalia; **Hiie, Jaan** IOP conference series : materials science and engineering 2013 / p. 1-4 : ill

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

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

ArF laser ablation deposited NdFeB films on silicon

Kruusing, Arvi; **Podgurski, Vitali** International DAAAM : [DAAAM National Estonia] : proceedings of the 1st International Conference, 25-27th September 1997, Tallinn, Estonia 1997 / p. 156-159: ill

Bandgap fluctuations, hot carriers, and band-to-acceptor recombination in Cu₂ZnSn(S,Se)₄ microcrystals

Krustok, Jüri; **Kaupmees, Reelika**; **Abbasi, Nafiseh**; **Muska, Katri**; **Mengü, Idil**; **Timmo, Kristi** Physica status solidi - rapid research letters 2023 / art. 2300077, 5 p. : ill <https://doi.org/10.1002/pssr.202300077>

Boosting phosphorescence efficiency by crystal anisotropy in SrAl₂O₄:Eu,Dy textured ceramic layers

Rojas Hernandez, Rocio Estefania; Rubio-Marcos, Fernando; Serrano, Aida; **Hussainova, Irina**; Fernandez, Jose Francisco Journal of the European Ceramic Society 2020 / p. 1677–1683 : ill <https://doi.org/10.1016/j.jeurceramsoc.2019.11.019> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Calcium phosphate/hydroxyapatite thin films prepared by an aqueous sol-gel method using dip-coating technique

Bogdanoviciene, Irma; Scit, Olga; **Tõnsuaadu, Kaia**; Raudonis, Rimantas; Beganskiene, Aldona; Ramanauskas, Rimantas; Kareiva, Aivaras 12th Conference of the European Ceramic Society (ECerS 2011), Stockholm, Sweden, 19-23 June 2011 2011 / [1 p.]

Carbon aerogel-cellulose films and fibres with electrical conductivity and antibacterial properties against cyanobacteria

Elhi, Fred; Kisand, Veljo; Peikola, Anna-Liisa; **Koel, Mihkel**; Aabloo, Alvo 3rd Seminar on Aerogels : Synthesis-Properties-Applications : 22-23 September 2016, Mines ParisTech - PSL Research University, Sophia Antipolis (France) : proceedings 2016 / p. 180

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 <http://dx.doi.org/10.1063/1.4959995>

Changes in surface morphology, deflection and wear of microcrystalline diamond film observed during sliding tests against Si₃N₄ balls

Bogatov, Andrei; **Traksmaa, Rainer**; **Podgurski, Vitali** Engineering materials and tribology : selected, peer reviewed papers from the 24th International Baltic Conference on Engineering Materials & Tribology (BALTMATRIB & IFHTSE 2015), November 5-6,

2015, Tallinn, Estonia 2016 / p. 145-151 : ill <http://dx.doi.org/10.4028/www.scientific.net/KEM.674.145>

Characterisation of samarium and nitrogen co-doped TiO₂ films prepared by chemical spray pyrolysis

Oja Acik, Ilona; Kiisk, Valter; **Krunks, Malle;** Sildos, Ilmo; **Junolainen, Agne;** **Danilson, Mati;** **Mere, Arvo;** **Mikli, Valdek** Applied surface science 2012 / p. 735-741 : ill

Characterisation of zirconium doped titanium dioxide thin films deposited by chemical spray pyrolysis

Oluwabi, Abayomi Titilope; **Oja Acik, Ilona;** **Krunks, Malle;** **Mikli, Valdek;** **Juma, Albert Owino** Proceedings of 13th International Conference of Young Scientists on Energy Issues : CYSENI 2016 : May 26-27 2016, Kaunas, Lithuania 2016 / p. VII-210 - VII-218

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 nanoporous TiO₂ films prepared by sol-gel method

Sabataityte, Julija; **Oja, Ilona;** Lenzmann, Frank; **Volobujeva, Olga;** **Krunks, Malle** Comptes rendus chimie 2006 / p. 708-712 : ill

Characterization of nanoporous TiO₂ films prepared by sol-gel method

Sabataityte, Julija; **Oja, Ilona;** Lenzmann, F.; **Volobujeva, Olga;** **Krunks, Malle** IPS 15 : 2004 : proceedings 2004 / ? p

Characterization of samarium and nitrogen doped TiO₂ films prepared by spray pyrolysis

Oja Acik, Ilona; Junolainen, Agne; Kiisk, Valter; Sildos, Ilmo; **Danilson, Mati;** **Krunks, Malle** EMRS-2010 Spring Meeting : Strasbourg, France, June 7-11 : program and book of abstracts. Symposion K 2010 / p. 4

Characterization of self-assembled monolayers by means of nanoindentation

Lind, Liina; Costelle, L.; Jalkanen, P.; Räisänen, M.; Nowak, R.; Räisänen, J. International Indentation Workshop 4 : Seoul, Korea, 3-8 July 2011 : abstract book 2011 / p. 106 <https://pubs.acs.org/doi/10.1021/acs.langmuir.7b01068>

Characterization of sprayed CuInS₂ films annealed in hydrogen sulfide atmosphere

Krunks, Malle; **Mere, Arvo;** **Katerski, Atanas;** **Mikli, Valdek;** **Krustok, Jüri** Thin solid films 2006 / p. 434-438 : ill

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

Characterization of the chemical bath deposited In(OH)xSy films : effect of the growth conditions

Dedova, Tatjana; Wienke, J.; Goris, M.; **Krunks, Malle** Thin solid films 2007 / p. 6064-6067 : ill
<https://www.sciencedirect.com/science/article/pii/S0040609006016348>

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 from the solutions with different concentrations of tin and sulphur

Safonova, Maria; **Mellikov, Enn;** **Mikli, Valdek;** **Kerm, Karin;** **Naidu, Revathi;** **Volobujeva, Olga** Inter Academia 2014 - Global Research and Education 2015 / p. 183-186 : ill <http://dx.doi.org/10.4028/www.scientific.net/AMR.1117.183>

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

Chemical bath deposition of ZnS films using different Zn-salts

Ernits, Kaia; **Muska, Katri;** **Kauk, Marit;** **Danilson, Mati;** **Raudoja, Jaan;** **Varema, Tiit;** **Volobujeva, Olga;** **Altosaar, Mare** Physics procedia : EMRS-2009 Spring Meeting, Strasbourg, France, 8-12 of June 2009 2009 / p. BP4-10

Chemical incorporation of copper into indium selenide thin films

Hibberd, C.J.; **Ernits, Kaia;** Kaelin, M.; Tiwari, A.N. 4th Photovoltaic Science, Applications and Technology Conference C89 : University of Bath, United Kingdom, 2-4 April, 2008 2008 / p. 052

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 solution deposition of thin TiO₂-anatase films for dielectric applications

Es-Souni, M.; **Oja, Ilona;** **Krunks, Malle** Journal of materials science : materials in electronics 2004 / p. 341-344 : ill

Chemical spray pyrolysis deposition of zinc sulfide thin films and zinc oxide nanostructured layers = Tsinksulfiidi õhukesed kiled ning tsinkoksiidi nanostruktuursed kihid keemilise pihustuspürolüüsi meetodil
Dedova, Tatjana 2007 <https://digi.lib.ttu.ee/i/?155> https://www.ester.ee/record=b2324660*est

Chlorine doping of cadmium sulfide on the example of CBD CdS

Hiie, Jaan; **Quinci, Federico; Lugh, Vanni; Sergo, Valter**; Valdna, Vello; Mikli, Valdek; Kärber, Erki; Raadik, Taavi Thin-film compound semiconductor photovoltaics - 2009 2009 / p. M08-17 <https://www.cambridge.org/core/journals/mrs-online-proceedings-library-archive/article/abs/chlorine-doping-of-cadmium-sulfide-on-the-example-of-cbd-cds/070F0DAEB40CD83B771895FED27CBEA1>

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

Oluwabi, Abayomi Titilope; Spalatu, Nicolae; Maticiuc, Natalia; **Katerski, Atanas; Mere, Arvo; Krunks, Malle; Oja Acik, Ilona** Frontiers in materials 2023 / 12 p. : ill <https://doi.org/10.3389/fmats.2023.1060420>

Combined SEM microscopic and spectroscopic study of selenization of thin metallic films

Volobujeva, Olga; Mellikov, Enn First Joint Meeting of Dreiländertagung and Multinational Congress on Microscopy. 3, Materials science 2009 / p. 449-450 : ill

Comparative analysis of two methods for evaluating wear rate of nanocrystalline diamond films

Bogatov, Andrei; Yashin, Maxim; Viljus, Mart; Menezes, Pradeep; **Podgurski, Vitali** Engineering materials and tribology XXV 2017 / p. 345-350 : ill <http://dx.doi.org/10.4028/www.scientific.net/KEM.721.345>

Comparative study of CdS films annealed in neutral, oxidizing and reducing atmospheres

Maticiuc, Natalia; Kuk, Mart; Spalatu, Nicolae; Potlog, Tamara; Krunks, Malle; Valdna, Vello; Hiie, Jaan Energy procedia 2014 / p. 77-84 : ill

Comparative study of nanostructured CdS thin films prepared by CBD and spray pyrolysis : annealing effect

Hiie, Jaan; Dedova, Tatjana; Valdna, Vello; Muska, Katri Thin solid films 2006 / p. 443-447 : ill

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

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

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

Eensalu, Jako Siim; Krunks, Malle; Gromõko, Inga; Katerski, Atanas; Mere, Arvo Energetika 2017 / p. 46-55 : ill <https://doi.org/10.6001/energetika.v63i2.3519>

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

Eensalu, Jako Siim; Krunks, Malle; Gromõko, Inga; Katerski, Atanas; Mere, Arvo The 14th International Conference of Young Scientists on Energy Issues : Kaunas, Lithuania, May 25-26, 2017 2017 / p. X-332 http://cyseni.com/archives/proceedings/Proceedings_of_CYSENI_2017.pdf

Comparison of CdS films deposited from chemical baths containing different doping impurities

Altosaar, Mare; Ernits, Kaia; Krustok, Jüri; Varema, Tiit; Raudoja, Jaan; Mellikov, Enn Thin solid films 2005 / p. 147-150 : ill

Comparison of curvature and X-Ray methods for measuring of residual stresses in hard PVD coatings

Lille, Harri; Kõo, Jakub; **Gregor, Andre; Ryabchikov, Alexander; Sergejev, Fjodor; Traksmaa, Rainer; Kulu, Priit** Materials science forum 2011 / p. 455-460

Composition and structure of CuInS₂ films prepared by spray pyrolysis

Krunks, Malle; Mikli, Valdek; Bijakina, Olga; Rebane, Helen; Mere, Arvo; Varema, Tiit; Mellikov, Enn Thin solid films 2000 / p. 61-64 : ill

Composition of CuInS₂ thin films prepared by spray pyrolysis

Krunks, Malle; Kijatkina, Olga; Rebane, Helen; Oja, Ilona; Mikli, Valdek; Mere, Arvo Thin solid films 2002 / p. 71-75 : ill

Composition of CuInS₂ thin films prepared by spray pyrolysis

Krunks, Malle; Kijatkina, Olga; Rebane, Helen; Oja, Ilona; Mikli, Valdek; Mere, Arvo E-MRS 2001 Spring Meeting : book of abstracts 2001 / p. P-4

Compositional dependence of Raman scattering and photoluminescence emission in Cu-Ga-Se films grown by MOCVD
Grossberg, Maarja; Krustok, Jüri; Siebentritt, Susanne; Albert, Jürgen Physica B : condensed matter 2009 / 14/15, p. 1984-1988 : ill

Conformational switching of ethano-bridged Cu₂H₂-bis-porphyrin induced by aromatic amines

Bettini, Simona; Maglie, Emanuela; Pagano, Rosanna; **Borovkov, Victor** Beilstein journal of nanotechnology 2015 / p. 2154-2160 : ill
<http://dx.doi.org/10.3762/bjnano.6.221>

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; Krunk, 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 Narasinga Transactions of the Indian Institute of Metals 2019 / p. 271–288 : ill <https://doi.org/10.1007/s12666-018-1455-0>

Copper indium disulfide films by chemical spray pyrolysis for photovoltaics

Krunk, Malle; Mere, Arvo; Katerski, Atanas Proceedings of the International Conference on Solar Cells : IC-SOLACE 2008 : January 21-23, 2008, Cochin, India 2008 / p. 16-19

Correlated percolating networks in the thin film of polymeric PEDT/PSS complex as revealed by the mesoscale simulation

Kaevand, Toomas; Kalda, Jaan; Öpik, Andres; Lille, Ülo Macromolecules 2009 / 4, p. 1407-1409 : ill
<https://pubs.acs.org/doi/abs/10.1021/ma802160x>

Correlation of the morphology and electrical conductivity in thin films of PEDT/PSS complex: an integrated meso-scale simulation study

Kaevand, Toomas; Kalda, Jaan; Kuk, Vello; Öpik, Andres; Lille, Ülo Molecular simulation 2011 / p. 495-502 : ill
<https://www.tandfonline.com/doi/abs/10.1080/08927022.2011.554549>

Corrigendum to “Screening and optimization of processing temperature for Sb₂Se₃ thin film growth protocol: Interrelation between grain structure, interface intermixing and solar cell performance” [Solar Energy Mater. Solar Cell. 225 (2021) 1–13 111045](S092702482100088X)(10.1016/j.solmat.2021.111045)

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

Cost-effective fluorene and thiophene containing hole conductors towards semi-transparent 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; **Krunk, 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

Blums, J.; **Krunk, Malle; Mere, Arvo** 17th European PVSEC1 : book of abstracts 2001 / p. B1.50

Crystal quality studies of CuInS₂ films prepared by spray pyrolysis

Oja, Ilona; Nanu, M.; **Katerski, Atanas; Krunk, Malle; Mere, Arvo; Raudoja, Jaan**; Goossens, A. Thin solid films 2005 / p. 82-86 : ill

CZTS monograin powders and thin films

Mellikov, Enn; Meissner, Dieter; Altosaar, Mare; Kauk, Marit; Krustok, Jüri; Öpik, Andres; Volobujeva, Olga; Iljina, Julia; Timmo, Kristi; Klavina, J.; Raudoja, Jaan; Grossberg, Maarja; Varema, Tiit; Muska, Katri; Ganchev, Maxim; Bereznev, Sergei; Danilson, Mati Advanced materials research 2011 / p. 8-13

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>

Cu₂ZnSnSe₄ thin films produced by selenization of Cu-Zn-Sn composition precursor films

Volobujeva, Olga; Mellikov, Enn; Bereznev, Sergei; Raudoja, Jaan; Öpik, Andres; Raadik, Taavi Materials Challenges in Alternative and Renewable Energy: a collection of papers presented at the Materials Challenges in Alternative and Renewable Energy

Cu-In and Cu-Zn-Sn films as precursors for production of CuInSe₂ and Cu₂ZnSnSe₄ thin films

Volobujeva, Olga; Mellikov, Enn; Raudoja, Jaan; Bereznev, Sergei; Pilvet, Maris Thin-film compound semiconductor photovoltaics - 2009 2009 / p. M05-40

CuInS₂ sprayed films on different metal oxide underlayers

Kijatkina, Olga; Krunks, Malle; Mere, Arvo; Mahrov, B.; Dloczik, L. Thin solid films 2003 / p. 105-109 : ill

CuInS₂ thin films: formation by spray pyrolysis and properties

Krunks, Malle; Bijakina, Olga; Mikli, Valdek; Mellikov, Enn The Fourth Baltic Symposium on Atomic Layer Epitaxy, Tartu, Estonia, October 10-11, 1997 : abstracts 1997 / p. 30

CuInS₂ õhukesed kiled fotoelementidele pihustus-pürolüüsi meetodil

Krunks, Malle; Bijakina, Olga; Varema, Tiit; Mere, Arvo; Mikli, Valdek XXV Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid = 25th Estonian Chemistry Days : abstracts of scientific conference 1999 / lk. 60-61

CuInSe₂ thin films deposited by UV laser ablation

Tverjanovich, Andrey; Borisov, Evgeny N.; Vasilieva, E.S.; Tolochko, O.V.; Vahhi, I.E.; Bereznev, Sergei; Tveryanovich, Yuri S. Solar energy materials & solar cells 2006 / p. 3624-3632 : ill

Defects in chlorine doped CdTe thin films

Valdna, Vello; Hiie, Jaan; Gavrilov, Aleksei Abstracts POLYSE 2000 / p. 36

Defects in chlorine-doped CdTe thin films

Valdna, Vello; Hiie, Jaan; Gavrilov, Aleksei Solid state phenomena 2001 / p. 155-160 : ill

Deposition of copper indium disulphide films by chemical spray pyrolysis

Kijatkina, Olga 2004 https://www.ester.ee/record=b1926863*est

Deposition of p-type NiO films by chemical spray pyrolysis

Krunks, Malle; Soon, Jaanika; Unt, Tarmo; Mere, Arvo; Mikli, Valdek Vacuum 2014 / p. 242-246 : ill

Deposition of Sb₂Se₃ thin films by ultrasonic spray pyrolysis for photovoltaic applications = Päikesepatareides rakendatavate Sb₂Se₃ õhukeste kiled e sadestamine ultrahelipihustuspürolüüsi meetodil

Eensalu, Jako Siim 2022 <https://doi.org/10.23658/taltech.1/2022> <https://digikogu.taltech.ee/et/Item/6c2df448-6e67-496b-9e31-87205057d560> https://www.ester.ee/record=b5492121*est

Development of a strategy for preparation of protein surface imprinted electrosynthesized conducting polymer thin films

Kaev, Jevgeni; Tretjakov, Aleksei; Reut, Jekaterina; Sõritski, Vitali; Gyurcsanyi, Robert E.; Öpik, Andres Baltic Polymer Symposium 2010 : Palanga, September 8-11, 2010 : programme and abstracts 2010 / p. 138

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

Beglyan, 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](https://www.gsfmt.ee/et/Item/6c2df448-6e67-496b-9e31-87205057d560)

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

Spalatu, Nicolae 2017 <https://digi.lib.ttu.ee/i/?7230>

Development of porous TiO₂ thin films by sol-gel process

Oja, Ilona; Sabatayte, 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 solar cells by close-spaced sublimation

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

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

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

Development of sprayed CuInS₂ thin film absorber for nanostructured solar cell

Katerski, Atanas; Kärber, Erki; Krunks, Malle; Mikli, Valdek; Mere, Arvo Materials Research Society symposium proceedings 2012 https://www.researchgate.net/publication/271903084_Development_of_sprayed_CuInS2_thin_film_absorber_for_nanostructured_solar_cell

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

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

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

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

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

Dielectric relaxation and conduction mechanisms in sprayed TiO₂ thin films as a function of the annealing temperature

Juma, Albert Owino; Oja Acik, Ilona; Mere, Arvo; Krunks, Malle Applied physics. A, Materials science & processing 2016 / art. 359, p. 1-6 : ill <http://dx.doi.org/10.1007/s00339-016-9874-4>

Doping and alloying of kesterites

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

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 materjaliuurijate tegevus õhukesekileliste päikesepatareide arendamisel

Krunks, Malle Keskkonnatehnika 2006 / 5, lk. 6-11 : ill

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; Maticiu, Natalia; Raadik, Taavi; Caraman, Mihail Thin solid films 2015 / p. 128-133 : ill <http://dx.doi.org/10.1016/j.tsf.2014.11.066>

Effect of H₂S treatment on properties of CuInS₂ thin films deposited by chemical spray pyrolysis at low temperature

Kärber, Erki; Katerski, Atanas; Oja Acik, Ilona; Mikli, Valdek; Mere, Arvo; Krunks, Malle Thin solid films 2011 / p. 7180-7183 : ill

Effect of nanocrystalline diamond films deflection on wear observed in reciprocating sliding tests

Podgurski, Vitali; Bogatov, Andrei; Sobolev, S.; Viljus, Mart; Sedov, V.; Ashkinazi, E.; Ralchenko, V. Journal of coating science and technology 2016 / p. 109-115 : ill <http://dx.doi.org/10.6000/2369-3355.2016.03.03.2>

Effect of Zn:S molar ratio in solution on the properties of ZnS thin films and the formation of ZnS nanorods by spray pyrolysis

Dedova, Tatjana; Krunks, Malle; Gromōko, Inga; Mikli, Valdek; Sildos, Ilmo; Utt, Kathrin; Unt, Tarmo Physica status solidi (a) : applications and materials science 2014 / p. 514-521 : ill

Effect of Zr doping on the structural and electrical properties of spray deposited TiO₂ thin films

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

Effect of the growth temperature on chemical composition of spray-deposited CuInS₂ thin films

Katerski, Atanas; Danilson, Mati; Mere, Arvo; Krunks, Malle Energy procedia 2010 / p. 103-107 : ill

Effect of the substrate surface on properties of RF sputtered magnetronantimony selenide (Sb₂Se₃) for thin-films

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

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

Abdalla, Akram; Bereznev, Sergei GSFMT Scientific Conference 2020 : Tallinn, February 4-5, 2020 : abstracts 2020 / p. 10 <http://fntdk.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*

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

[conference paper]

Spiridonova, Jekaterina; Katerski, Atanas; Danilson, Mati; Kritševskaja, Marina; Krunks, Malle; Oja Acik, Ilona *GSFMT*

Scientific Conference 2020 : Tallinn, February 4-5, 2020 : abstracts 2020 / p. 78 <http://fmt.dk.ut.ee/wp-content/uploads/2020/01/GSFMT2020.pdf>

Effect of titanium(IV)isopropoxide and acetylacetone molar ratio in the solution on spray deposited TiO₂ films

Oja Acik, Ilona; Krunks, Malle; Mere, Arvo; Otto, Kairi; Mikli, Valdek TÜ ja TTÜ doktorikool "Funktsionaalsed materjalid ja tehnoloogiad" 2013 / [1] p

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*

Efficiency limits of CdTe thin film solar cells

Valdna, Vello; Hiie, Jaan Seventeenth European Photovoltaic Solar Energy Conference : proceedings of the International Conference held in Munich, Germany, 22-26 October, 2001. Volume II 2002 / p. 1233-1235 : ill

Efficient photoelectrocatalytic degradation of amoxicillin using nano-TiO₂ photoanode thin films : a comparative study with photocatalytic and electrocatalytic methods

Alaydaroos, Alia Husain; Sydorenko, Jekaterina; Palanisamy, Selvakumar; Chiesa, Matteo; Al Hajri, Ebrahim *Chemosphere* 2023 / art. 139629 <https://doi.org/10.1016/j.chemosphere.2023.139629>

Elaboration of hard and optical oxide materials from the Ti, Zr and Hf alkoxides

Reedo, Valter; Järvekülg, Martin; Keevend, Kelli; Lange, Sven; Kollo, Lauri 15th International Baltic Conference "Engineering Materials & Tribology. Baltattrib - 2006" : October 5-6, 2006, Tallinn, Estonia : abstracts 2006 / p. 15-16 : ill

Elastic models of defects in two-dimensional crystals

Kolesnikova, Anna; Orlova, T.; Hussainova, Irina; Romanov, Alexey *Physics of the solid state* 2014 / p. 2573-2579 : ill

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 CdS films, annealed in reducing, neutral and oxidizing ambients of H₂, N₂, and air

Graf, Aleksandr; Maticiu, Natalia; Gavrilov, Aleksei; Hiie, Jaan EMRS 2014 Spring Meeting : Lille, France, May 26-30. Symposium A, Thin film chalcogenide photovoltaic materials 2014 / p. 22

Electrical, optical and structural properties of sprayed CuInS₂ films for solar cells

Mere, Arvo; Kijatkina, Olga; Rebane, Helen; Krunks, Malle ICTMC13 : 13th International Conference on Ternary and Multinary Compounds, Paris, 2002, October 14th-18th : book of abstracts 2002 / p. 212

Electrochemical and photoelectrochemical characterization of SnS photoabsorber films

Kois, Julia; Bereznev, Sergei; Maricheva, Jelena; Naidu, Revathi *Materials science in semiconductor processing* 2017 / p. 76-81 : ill <http://dx.doi.org/10.1016/j.mssp.2016.10.036>

Electrochemical deposition of Cu, In and Se for production of CuInSe₂ thin films

Altosaar, Mare; Kois, Julia 23rd Estonian Chemistry Days : abstracts of scientific conference 1997 / p. 16

Electrochemical deposition of CuInSe₂ thin films for photovoltaic applications = CuInSe₂ õhukesed kiled elektrokeemilise sadestamise meetodil

Kois, Julia 2006

Electrochemical deposition of thin polypyrrole films on silicon substrates

Intelmann, Carl Matthias; Sõritski, Vitali; Tsankov, Dimiter; Hinrichs, Karsten; Rappich, Jörg 5th ISE Spring Meeting : Dublin (Ireland), 01.-04.05.07 2007 / ? p

Electrochemical synthesis of polypyrrole films containing nucleotides

Kovtun, Aleksandr; Malikova, O.; Sõritski, Vitali; Reut, Jekaterina; Öpik, Andres *Book of abstracts of Baltic Polymer Symposium*

Electrochemically deposited ultrathin polypyrrole films on silicon

Intelmann, Carl Matthias; **Sõritski, Vitali**; Tsankov, Dimiter; Hinrichs, Karsten; Rappich, Jörg GDCh (German Chemical Society) - YoungChemists : Spring Symposium 2007 : Chemnitz (Germany), 22.-24.03.07 2007 / ? p

Electrocrystallization of CdSe from aqueous electrolytes : structural arrangement from thin films to self-assembled nanowires

Kois, Julia; Bereznev, Sergei; Volobujeva, Olga; Gurevič, Jelena; **Mellikov, Enn** Journal of crystal growth 2011 / p. 9-12 : 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](#)

Electro-deposited nano-Ni/reduced graphene oxide composite film of corrugated surface for high voltammetric sensitivity

Alinejadian, Navid; Kazemi, Sayed Habib; Nasirpour, Farzad; Odneval, Inger Charlotta Materials chemistry and physics 2023 / art. 127288, 8 p. : ill <https://doi.org/10.1016/j.matchemphys.2022.127288>

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 cadmium chalcogenide films for hybrid solar cells = Kaadmiumkalkogeniidkilede elektrokeemiline sadestamine kasutamiseks hübriid-päikesepatareides

Maricheva, Jelena 2017 http://www.estee.ee/record=b4747305*est <https://digi.lib.ttu.ee/ii/?9117>

Electrodeposition of CdSe nanomatrix for hybrid solar cells

Bereznev, Sergei; Gurevič, 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 CuInSe₂ thin films onto Mo-glass substrates

Kois, Julia; Bereznev, Sergei; Mellikov, Enn; Öpik, Andres Thin solid films 2006 / p. 420-424 : ill

Electron microscopy and image analysis study of powdered hardmetal materials and optoelectronic thin films

Mikli, Valdek 2003 https://www.estee.ee/record=b1782316*est

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

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 sensing properties of cobalt bis-porphyrin derivative thin films by a magneto-plasmonic-opto-chemical sensor

Colombelli, A.; Manera, Maria Grazia; **Borovkov, Victor**; Giancane, Gabriele Sensors and actuators B : chemical 2017 / p. 1039-1048 : ill <https://doi.org/10.1016/j.snb.2017.01.192>

Enhanced visible and ultraviolet light-induced gas-phase photocatalytic activity of TiO₂ thin films modified by increased amount of acetylacetone in precursor solution for spray pyrolysis

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

Evaluation of wear rate of nanocrystalline diamond films using Abbott curve

Bogatov, Andrei; Podgurski, Vitali Materials Engineering 2017 : selected, peer reviewed papers from the 26th International Baltic Conference on Materials Engineering 2017, October 26-27, Kaunas, Lithuania 2017 / p. 185-189 : ill
<http://dx.doi.org/10.4028/www.scientific.net/SSP.267.185>

Extremely thin absorber layer nanostructured solar cell by chemical spray pyrolysis

Mere, Arvo; Katerski, Atanas; Dedova, Tatjana; Oja Acik, Ilona; Krunks, Malle Proceedings 23rd European Photovoltaic Solar Energy Conference : 1-5 September, 2008, Valencia, Spain 2008 / p. 2147-2150

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>

Formation and growth of CuI₂ZnSnS₄ monograin powder on molten CdI₂ = CuI₂ZnSnS₄ moodustumine ja monoterapulbri kasv CdI₂ sulafaasi keskkonnas

Nkwusi, Godswill 2017 <https://digi.lib.ttu.ee/ii/?7690>

Formation of Al₂B₂VI films by spray pyrolysis

Krunks, Malle; Mellikov, Enn; Sork, Eeve; Iljina, Natalja Journal of materials and product. technology 1991

Formation of Ca-Zn-Na phosphate bioceramic material in thermal processing of EDTA sol-gel precursor

Bogdanoviciene, Irma; Cepenko, Marina; Traksmaa, Rainer; Kareiva, Aivaras; Tõnsuaadu, Kaia Journal of Thermal Analysis and Calorimetry 2015 / p. 107-114 : ill <http://dx.doi.org/10.1007/s10973-015-4507-2>

Formation of Ca-Zn-Na phosphate bioceramic material in thermal processing of EDTA sol-gel precursor

Bogdanoviciene, Irma; Cepenko, Marina; Traksmaa, Rainer; Kareiva, Aivaras; Tõnsuaadu, Kaia ESTAC-11 : the 11th European Symposium on Thermal Analysis and Calorimetry : Dipoli Congress Center, Espoo, Finland, August 17-21, 2014 : abstracts 2014 / p. 190

Formation of CdS and CdZnS films by spray pyrolysis

Krunks, Malle; Mellikov, Enn; Sork, Eeve 11th International Symposium on Photon-Detectors, Weimar, September, 11-13, 1984 1984 / S. 24

Formation of CdS films by spray pyrolysis

Krunks, Malle; Mellikov, Enn; Sork, Eeve Thin solid films 1986 / p. 105-109

<https://www.sciencedirect.com/science/article/abs/pii/0040609086902579> https://www.ester.ee/record=b1202480*est

Formation of CdS thin films by spray pyrolysis

Krunks, Malle; Mellikov, Enn; Iljina, Natalja; Sork, Eeve Международная конференция Химия твердого тела. Т. 2 1990 / с. 152

Formation of CuInS₂ thin films by chemical spray pyrolysis

Krunks, Malle; Bijakina, Olga; Mellikov, Enn; Varema, Tiit Ternary and Multinary Compounds : proceedings of the 11th International Conference on Ternary and Multinary Compounds, ICTMC-11, University of Salford, 8-12 September 1997 1998 / p. 325-328: ill

Formation of CuInS₂ thin films by chemical spray pyrolysis

Krunks, Malle; Bijakina, Olga; Mellikov, Enn; Varema, Tiit Book of Abstracts of the 11th International Conference on Ternary & Multinary Compounds, 8-12 September 1997, Salford, England 1997 / p. 2.28

Formation of metal sulfide thin films in chemical spray pyrolysis process

Krunks, Malle Pyrolysis 2002 : 15th International Symposium on Analytical and Applied Pyrolysis, Leoben, Austria, September 17th to 20th 2002 : abstracts volume 2002 / p. 59

Functionalization of gamma-alumina nanofibers by alpha-alumina via solution combustion synthesis

Aghayan, Marina; Voltšihhin, Nikolai; Rodriguez, Miguel Angel; Rubio-Marcos, Fernando; Dong, Minjie; Hussainova, Irina Ceramics international 2014 / p. 12603-12607 : ill

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

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

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

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

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

Gas-phase photocatalytic oxidation of VOCs on the TiO₂ thin films

Sydorenko, Jekaterina; Danilson, Mati; Mere, Arvo; Krunks, Malle; Kritševskaja, Marina; Oja Acik, Ilona GSFMT Scientific Conference 2021 : Tartu, June 14-15, 2021 : abstracts 2021 / O 10 https://fntdk.ut.ee/wp-content/uploads/2021/06/GSFMT_abstractbook_2021.pdf

Gas-phase photocatalytic reactor for the study of TiO₂ thin films activity [Online resource]

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

GeTe₂ phase change material for terahertz devices with reconfigurable functionalities using optical activation

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

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

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

Growth and characterization of Cu₂Zn_{1-x}Fe_xSnS₄ thin films for photovoltaic applications

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

Growth and properties of ZnO films on polymeric substrate by spray pyrolysis method

Kriisa, Merike; **Kärber, Erki**; **Krunks, Malle**; **Mikli, Valdek**; **Unt, Tarmo**; **Kukk, Mart**; **Mere, Arvo** Thin solid films 2014 / p. 87-92 : ill

Growth and recrystallization of CuInS₂ films in spray pyrolytic process

Krunks, Malle; **Mikli, Valdek**; **Bijakina, Olga**; **Mellikov, Enn** Applied surface science 1999 / p. 356-361: ill

Growth dynamics of nanocrystalline diamond films produced by microwave plasma enhanced chemical vapor deposition in methane/hydrogen/air mixture : scaling analysis of surface morphology

Podgurski, Vitali; **Bogatov, Andrei**; Sedov, V.; Sildos, Ilmo; **Mere, Arvo**; **Viljus, Mart**; Buijsters, J. G.; Ralchenko, V. Diamond and related materials 2015 / p. 172-179 : ill <http://dx.doi.org/10.1016/j.diamond.2015.07.002>

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

Boosagulla, Divya; **Mandati, Sreekanth**; Allikayala, Ramachandraiah; Sarada, Bulusu V. Thin Solid Films 2021 / art. #139011 <https://doi.org/10.1016/j.tsf.2021.139011>

Growth of Co nanoparticles on a nanostructured [θ-θ]-Al₂O₃ film on CoAl(100)

Rose, V.; **Podgurski, Vitali**; David, Rudolf; Francy, R. Surface science 2007 / 3, p. 786-791 : ill

Growth of Cu-rich/poor CuInS₂ thin films by the sequential modulated flux deposition technique

Bollero, Alberto; **Grossberg, Maarja**; **Raadik, Taavi**; Trigo, Juan Francisco; Herrero, Jose; Gutierrez, Ma Teresa Thin-film compound semiconductor photovoltaics - 2009 2009 / p. M02-06

Growth of ultra-thin TiO₂ films by spray pyrolysis on different substrates

Oja Acik, Ilona; Junolainen, Agne; **Mikli, Valdek**; **Danilson, Mati**; **Krunks, Malle** Applied surface science 2009 / 5, p. 1391-1394 : ill

Growth, thermal stability, and magnetic properties of Co films on Ni₃Al(001)

Van Eek, Stella M.; Costina, Ioan; **Podgurski, Vitali**; David, Rudolf; Franchy, Rene Journal of applied physics 2006 / p. 114310-1 - 114310-10 <https://pubs.aip.org/aip/jap/article/99/11/114310/144105/Growth-thermal-stability-and-magnetic-properties>

High vacuum evaporation of n-CuIn₃Se₅ photoabsorber films for hybrid PV structures with conductive polymers

Adhikari, Nirmal; **Bereznev, Sergei**; **Laes, Kristjan**; **Kois, Julia**; **Volobujeva, Olga**; **Raadik, Taavi**; **Õpik, Andres**; **Traksmäa, Rainer**; Tverjanovich, Andrey Baltic Polymer Symposium 2010 : Palanga, September 8-11, 2010 : programme and abstracts 2010 / p. 124

High vacuum evaporation of n-CuIn₃Se₅ photoabsorber films for hybrid structures

Adhikari, Nirmal; **Bereznev, Sergei**; **Laes, Kristjan**; **Volobujeva, Olga**; **Õpik, Andres** EMRS-2010 Spring Meeting : Strasbourg, France, June 7-11 : program and book of abstracts. Symposium M 2010 / p. 8

High-K ZrO₂ thin films by chemical spray pyrolysis method [Online resource]

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

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

High-temperature tribological performance of Al₂O₃/a-C:H:Si coating in ambient air

Podgurski, Vitali; Alamgir, Asad; Yashin, Maxim; Jõgiaas, Taivo; Viljus, Mart; Raadik, Taavi; Danilson, Mati; Sergejev, Fjodor; Lümkmann, Andreas; Kluson, Jan; Sondor, Jozef; Bogatov, Andrei Coatings 2021 / art. 495, 15 p. : ill

<https://doi.org/10.3390/coatings11050495> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Humidity and SO₂ gas sensor based on QCM coated with polypyrrole films

Sõritski, Vitali; Öpik, Andres Finnish Chemical Congress and Exhibition, Helsinki, November 3-5, 1998 : abstracts 1998 / p. 10

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

Identification of excitons and biexcitons in Sb₂Se₃ under high photoluminescence excitation density

Krustok, Jüri; Kondrotas, Rokas; Nedzinskas, Ramunas; Timmo, Kristi; Kaupmees, Reelika; Mikli, Valdek; Grossberg, Maarja Advanced optical materials 2021 / 8 p. : ill <https://doi.org/10.1002/adom.202100107> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Impact of 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

<http://dx.doi.org/10.1016/j.apsusc.2015.01.172>

Impact of growth-synthesis conditions on Cu₂Zn_{1-x}Cd_xSnS₄ monograin material properties

Nkwusi, Godswill; Leinemann, Inga; Raudoja, Jaan; Mikli, Valdek; Karba, E.; Altosaar, Mare Superlattices and microstructures 2016 / p. 400-405 : ill <http://doi.org/10.1016/j.spmi.2016.09.006>

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 the selenisation temperature on the structural and optical properties of CZTSe absorbers

Marquez-Prieto, J.; Yakushev, M.V.; Forbes, I.; Krustok, Jüri Solar energy materials and solar cells 2016 / p. 42-50 : ill

<http://dx.doi.org/10.1016/j.solmat.2016.03.018>

Impact of vacuum and nitrogen annealing on HVE SnS photoabsorber films

Revathi, Naidu; Looirits, Mihkel; Kärber, Erki; Volobujeva, Olga; Raudoja, Jaan; Maticiuc, Natalia; Bereznev, Sergei; Mellikov, Enn Materials science in semiconductor processing 2017 / p. 252-257 : ill <https://doi.org/10.1016/j.mssp.2017.08.004>

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 electrodeposition of CdS layers in presence of activating H₂SeO₃ microadditive

Maricheva, Jelena; Bereznev, Sergei; Naidu, Revathi; Maticiuc, Natalia; Mikli, Valdek; Kois, Julia Materials science in semiconductor processing 2016 / p. 14-19 : ill <http://dx.doi.org/10.1016/j.mssp.2016.06.013>

In₂S₃ kilede moodustumine pihustuspürolüüsi protsessis : termoaanalüütiline uuring

Otto, Kairi; Oja Acik, Ilona; Tõnsuaadu, Kaia; Krunks, Malle XXXII Eesti Keemiapäevad : teaduskonverentsi teesid 2011 / lk. 70

In₂S₃ õhukeste kilede sadestamine pihustuspürolüüsi meetodil

Otto, Kairi; Katerski, Atanas; Mere, Arvo; Krunks, Malle XXXI Eesti keemiapäevad : [28. aprill 2010, Tallinn] : teaduskonverentsi teesid = 31st Estonian Chemistry Days : abstracts of scientific conference 2010 / lk. 60

Incorporation of plasmonic Au nanoparticles inside the CdTe thin film absorber

Maticiuc, Natalia; Spalatu, Nicolae; Katerski, Atanas; Repan, T.; Hiie, Jaan NANOSMAT Conference, 22-25 September 2013, Granada, Spain : abstracts book 2013 / p. 341-342

Indium sulfide thin films deposited by chemical spray of aqueous and alcoholic solutions

Otto, Kairi; Katerski, Atanas; Volobujeva, Olga; Mere, Arvo; Krunks, Malle Energy procedia 2011 / p. 63-69

Indium-free CIGS analogues : general discussion

Andreasen, Jens Wenzel; Bowers, Jake W.; Breternitz, Joachim; Dale, Phillip J.; Dimitrievska, Mirjana; Fermin, David J.; Ganose, Alex; Gurieva, Galina; Hages, Charles J.; Mandati, Sreekanth Faraday Discussions 2022 / p. 85-111

<https://doi.org/10.1039/D2FD90055F>

Influence of annealing in H₂ atmosphere on the electrical properties of thin film CdS

Maticiu, Natalia; Hiie, Jaan; Potlog, Tamara; Valdna, Vello; Gavrilov, Aleksei MRS proceedings 2011 / p. d14-05

Influence of copper and oxygen on the optoelectronic properties of chlorine doped CdTe thin films

Valdna, Vello Thin solid films 2001 / p. 192-194 : ill

Influence of copper and oxygen on the optoelectronic properties of chlorine doped CdTe thin films

Valdna, Vello Abstracts E-MRS-IUMRS 2000 / p. N-22

Influence of Cu₂S, SnS and Cu₂ZnSnSe₄ on optical properties of Cu₂ZnSnS₄

Mamedov, D.; Klopov, Mihail; Karazhanov, S. Zh. Materials letters 2017 / p. 70-72 : ill <https://doi.org/10.1016/j.matlet.2017.05.069>

Influence of PH on the hydroxide impurities in chemically deposited CDS thin film

Üürke, Marvin; Maticiu, Natalia; Volobujeva, Olga; Spalatu, Nicolae; Hiie, Jaan The 14th International Conference of Young Scientists on Energy Issues : Kaunas, Lithuania, May 25-26, 2017 2017 / p. X-316 - X-323 : ill
http://cyseni.com/archives/proceedings/Proceedings_of_CYSENI_2017.pdf

Influence of post-UV/ozone treatment of ultrasonic-sprayed zirconium oxide dielectric films for a low-temperature oxide thin film transistor

Oluwabi, Abayomi Titilope; Gaspar, Diana; Katerski, Atanas; Mere, Arvo; Krunks, Malle; Pereira, Luis; Oja Acik, Ilona Materials 2020 / art. 6, 14 p. : ill <https://doi.org/10.3390/ma13010006> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Influence of second-order lines on the quantitative wavelength dispersive spectrometry analysis at low accelerating voltages

Mikli, Valdek Microchimica acta 2006 / 1/2, p. 205-208 <https://link.springer.com/content/pdf/10.1007/s00604-006-0544-7.pdf>

Influence of solution composition on sprayed ZnO nanorods properties and formation process: Thermoanalytical study of the precursors

Dedova, Tatjana; Oja Acik, Ilona; Polivtseva, Svetlana; Krunks, Malle; Gromöko, Inga; Tõnsuaadu, Kaia; Mere, Arvo Ceramics international 2019 / p. 2887-2892 : ill <https://doi.org/10.1016/j.ceramint.2018.07.274> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Influence of the copper content on the optical properties of CZTSe thin films

Yakushev, M. V.; Sulimov, M. A.; Marquez-Prieto, J.; Forbes, I.; Krustok, Jüri Solar energy materials and solar cells 2017 / p. 69-77 : ill <https://doi.org/10.1016/j.solmat.2017.04.022>

Influence of the secondary thermal annealing on the properties of CdTe/CdS:CdCl₂:O₂ structure

Yang, Wangjun; Spalatu, Nicolae; Maticiu, 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 I. [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

Insights into TiO₂ thin film photodegradation from Kelvin Probe AFM maps

Olukan, Tuza; Sydorenko, Jekaterina; Katerski, Atanas; Al Mahri, Mariam; Lai, Chia-Yun; Al-Hagri, Abdulrahman; Santos, Sergio; Chiesa, Matteo Applied physics letters 2022 / art. 031901 <https://doi.org/10.1063/5.0098788> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

In-situ study of TiO₂ thin-films mechanical behavior under loading

Lõhmus, Rünno; Hussainova, Irina; Leinberg, Silver; Aarik, Jaan; Tarre, Aivar; Lõhmus, Ants Proceedings of Material Research Society Spring Meeting : April 9-13, 2007, San Francisco, CA, USA 2007 / ? p

Interaction of point defects with impurities in the Si-SiO₂ system and its influence on the interface properties

Kropman, Daniel; Kämer, Tiit; Dolgov, Sergei; Heinmaa, Ivo; Laas, Tõnu; Londos, C. A. The 9th International Conference on Global

Interaction of point defects with impurities in the Si-SiO₂ system and its influence on the properties of the interface

Kropman, Daniel; Mellikov, Enn; Öpik, Andres; Lott, Kalju; Kärner, T.; Heinmaa, I.; Laas, Tõnu; Medvid, A.; Skroupa, W.; Prucnal, S.; Rebohle, L.; Zvyagin, S.; Cizmar, E.; Ozerov, M.; Wosnitsa, J. Thin solid films 2010 / 9, p. 2374-2376
<https://www.sciencedirect.com/science/article/abs/pii/S0040609009014564>

Interaction of point defects with impurities in the Si-SiO₂ system and its influence on the properties of the interface

Kropman, Daniel; Mellikov, Enn; Lott, Kalju; Kärner, T.; Heinmaa, I.; Laas, Tõnu; Medvid, A.; Skroupa, W.; Prucnal, S.; Zvyagin, S.; Cizmar, E.; Ozerov, M.; Wosnitsa, J. Solid state phenomena 2010 / p. 145-148 : ill
<https://www.sciencedirect.com/science/article/abs/pii/S0040609009014564>

Investigation of electrical properties of cadmium sulfide thin films

Graf, Aleksandr Proceedings of CYSENI 2013 : the 10th Annual Conference of Young Scientists on Energy Issues, May 29-31, 2013, Kaunas, Lithuania 2013 / p. 457-463

Investigation of morphology changes on nanocrystalline diamond film surfaces during reciprocating sliding against Si₃N₄ balls

Bogatov, Andrei; Podgurski, Vitali; Raadik, Taavi; Kamjula, A. R.; Hantschel, Thomas; Tsigkourakos, M.; **Kulu, Priit** Engineering materials & tribology XXII 2014 / p. 126-129

Investigation of sprayed thin films on glass substrates by X-ray microanalysis

Mikli, Valdek; Krunks, Malle Abstracts of International Conference on X-ray Optics and Microanalysis 2001 / p. 117

Investigation of surface morphology of Nd₂Fe₁₄B and Nd₂Fe₁₄B+DLC thin films

Podgurski, Vitali; Kruusing, Arvi Proceedings of the Third National DAAAM Conference in Estonia : SCIENCE '98 1998 / p. 107-109: ill

Investigation of the silicon/polypyrrole interface by pulsed photoluminescence and IR spectroscopic ellipsometry during electrochemical deposition

Zhang, Xin; **Sõritski, Vitali;** Sun, Guoguang; Hinrichs, Karsten; Rappich, Jörg Polymers for advanced technologies 2013 / p. 171

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

Issues with application of CBD CdS in CdS/i-ZnO/ZnO:Al window layer

Maticiu, Natalia; Potlog, Tamara; **Hiie, Jaan** 17th International Conference on II-VI Compounds and Related Materials : Paris, 13-18 September 2015 : conference book 2015 / p. 372 : ill http://ii-vi-2015.sciencesconf.org/conference/ii-vi-2015/pages/ConferenceBook_II-VI2015_web_1.pdf

Keemiliselt pihustatud CuInS₂ õhukeste kilede struktuursed ja optilised omadused

Krunks, Malle; Bijakina, Olga; Bender, Villem; Mikli, Valdek XXIII Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid 1997 / lk. 57

Keemilistel meetoditel sadestatud õhukesed kiled päikeseenergeetikale

Krunks, Malle; Oja, Ilona; Dedova, Tatjana; Mere, Arvo; Katerski, Atanas; Hiie, Jaan XXIX Eesti keemiapäevad : teaduskonverentsi ettekannete teesid = 29th Estonian Chemistry Days : abstracts of scientific conference 2005 / lk. 47

Kleenukesed päikeseelemendid aitaks vältida ränipaneele ootavat kriisi

Sibinski, Maciej novaator.err.ee 2024 [Kleenukesed päikeseelemendid aitaks vältida ränipaneele ootavat kriisi](#)

Konkursi «Teadus 3 minutiga» parimad on selgunud [Võrguväljaanne]

postimees.ee 2022 ["Konkursi «Teadus 3 minutiga» parimad on selgunud"](#)

Kuidas pikendada päikeseplatari töövõimet ja eluiga?

Eensalu, Jako Siim Ehitaja 2022 / lk. 24 : fot https://www.ester.ee/record=b1072123*est

Laser ablation and thermal evaporation of thin films and structures

Podgurski, Vitali 2001 https://www.ester.ee/record=b1507144*est

Laser ablation deposition

Podgurski, Vitali Proceedings of the First National DAAAM Conference in Estonia : Science '95 1996 / p. 76-79: ill

Laser ablation deposition of NbFeB and CuInSe

Podgurski, Vitali Junior EUROMAT '96 : European Conference : August 26-30, Lausanne, Switzerland : [abstracts] 1996

Low temperature air-annealing of Cu(InGa)Se₂ single crystals

Yakushev, M.V.; Jack, A.; Pettigrew, I.; Feofanov, Y.; Mudryi, A.V.; **Krustok, Jüri** Thin solid films 2006 / p. 135-139

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](#)

Magnetic and structural studies of LaMnO₃ thin films prepared by atomic layer deposition

Khanduri, Himani; Chandra Dimri, Mukesh; Vasala, S.; Leinberg, Silver; Löhmus, Rünno; Ashworth, T. V.; **Mere, Arvo; Krustok, Jüri;** Karppinen, Maarit; Stern, Raivo Journal of physics D : applied physics 2013 / p. 1-8 : ill

Magnetic properties of functional oxides = Funktsionaalsete oksiidide magnetilised omadused

Khanduri, Himani 2013 https://www.ester.ee/record=b2954989*est

Maleimide functionalized silicon surfaces for biosensing investigated by in-situ IRSE and EQCM

Kanyong, Prosper; Sun, Guoguang; Rösicke, Felix; **Sõritski, Vitali;** Panne, Ulrich; Hinrichs, Karsten; Rappich, Jörg Electrochemistry communications 2015 / p. 103-107 : ill <http://dx.doi.org/10.1016/j.elecom.2014.12.015>

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>

Mechanical and tribological properties of 100-nm thick alumina films prepared by atomic layer deposition on Si(100) substrates

Alamgir, Asad; Bogatov, Andrei; Yashin, Maxim; Podgurski, Vitali Proceedings of the Estonian Academy of Sciences 2019 / p. 126-130 : ill <https://doi.org/10.3176/proc.2019.2.01> http://www.kirj.ee/public/proceedings_pdf/2019/issue_2/proc-2019-2-126-130.pdf [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Mechanical and physical properties of hemp fiber-mat reinforced polyethylene film composites

Yang, Xuejian; Kallakas, Heikko; Kers, Jaan Biocomp 2016 : the 13th Pacific Rim Bio-Based Composite Symposium, Bio-Based Composites for the Sustainable Future : November 14th to 16th, 2016, Concepcion, Chile : abstracts 2016 / p. 91 : ill
<http://publicaciones.udt.cl/wp-content/uploads/2017/05/Abstracts-Biocomp-2016-2.pdf>

Mechanical properties of aluminum, zirconium, hafnium and tantalum oxides and their nanolaminates grown by atomic layer deposition

Jõgiaas, Taivo; Zabels, Roberts; Tamm, Aile; Merisalu, Maido; **Hussainova, Irina** Surface and coatings technology 2015 / p. 36-42 : ill <http://dx.doi.org/10.1016/j.surfcoat.2015.10.008>

Mechanism of a microwave-assisted polyol synthesis of nanosize CuInSe₂ particles and their optical and photoelectric properties

Grevtsev, A. S.; Goncharenko, I. Yu.; **Bereznev, Sergei** Russian journal of applied chemistry 2014 / p. 671-675 : ill

Mechanism of changes in the properties of chemically deposited CdS thin films induced by thermal annealing =

Keemilisel sadestatutud CdS õhukeste kilede omaduste muutumise mehhanism termilisel lõõmutamisel

Maticiu, Natalia 2015 https://www.ester.ee/record=b4518170*est

Mehaanikas perspektiivsete kilede omaduste uurimine : aruanne : G443 : teadussuuna klass 2.2, 2.10

Mikli, Valdek 1994 https://www.ester.ee/record=b2084804*est

Metal complexes as precursors for thin films deposited by chemical spray pyrolysis

Krunk, Malle ESTAC-11 : the 11th European Symposium on Thermal Analysis and Calorimetry : Dipoli Congress Center, Espoo, Finland, August 17-21, 2014 : abstracts 2014 / p. 256

Metal sulfide thin films by chemical spray pyrolysis

Krunk, Malle; Mellikov, Enn Proceedings of SPIE 2001 / p. 60-65

Metalliühendite laserstimuleeritud sadestamise uurimine : aruanne : nr. G-429 : teadussuuna klass 1.7, 2.2

Kruusing, Arvi 1994

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>

Modification of light absorption in thin CuInS₂ films by sprayed Au nanoparticles

Katerski, Atanas; Kärber, Erki; Oja Acik, Ilona; Dolgov, Leonid; Mere, Arvo; Sildos, Ilmo; Mikli, Valdek; Krunks, Malle Nanoscale research letters 2014 / p. 1-6 : ill

Modification of light absorption in thin CuInS₂ films by sprayed gold nanoparticles

Mere, Arvo; Katerski, Atanas; Oja Acik, Ilona; Dolgov, Leonid; Sildos, Ilmo; Krunks, Malle NANOSMAT Conference, 22-25 September 2013, Granada, Spain : abstracts book 2013

Molecularly imprinted polymer film interfaced with Surface Acoustic Wave technology as a sensing platform for label-free protein detection

Tretjakov, Aleksei; Söritski, Vitali; Reut, Jekaterina; Boroznjak, Roman; Öpik, Andres Analytica chimica acta 2016 / p. 182-188 : ill <http://dx.doi.org/10.1016/j.aca.2015.11.004>

Monograin layer solar cell for future lunar outpost

Kristmann, Katriin; Altosaar, Mare; Raudoja, Jaan; Grossberg, Maarja; Krustok, Jüri; Raadik, Taavi IAC 2020 congress proceedings Proceedings of the International Astronautical Congress, IAC 2020 / 7 p. : ill [Monograin layer solar cell for future lunar outpost https://dl.iafastro.directory/event/IAC-2020/paper/56905/](https://dl.iafastro.directory/event/IAC-2020/paper/56905/) [Conference proceeding at Scopus](#) [Article at Scopus](#)

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

Monograin layers as optoelectronic devices

Mellikov, Enn; Meissner, Dieter; Varema, Tiit; Hiie, Jaan; Altosaar, Mare Optical inorganic dielectric materials and devices 1997 / p. 214-219

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>

Multilayer structures based on polyparaphenylene thin films

Golovtsov, Igor; Bereznev, Sergei; Öpik, Andres Baltic Polymer Symposium 2009 : Ventspils, Latvia, September 22-25, 2009 : programme and proceedings 2009 / p. 14

Nanocrystalline diamond films deformation observed during sliding tests against Si₃N₄ balls as a possible cause for ripple formation on wear scars surface

Bogatov, Andrei; Viljus, Mart; Raadik, Taavi; Hantschel, Thomas; Podgurski, Vitali Medžiagotyra = Materials science 2015 / p. 349-352 : ill <http://dx.doi.org/10.5755/j01.ms.21.3.7232>

Nanocrystalline thin films by chemical methods

Krunks, Malle Nanopowders, Nanostructured Materials and Coatings : Network for Nanostructured Materials of ACC : March 17, 2005, Tallinn, Estonia : book of abstracts 2005 / p. 5-6

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 layers of ZnS obtained by spray pyrolysis

Dedova, Tatjana; Gromöko, Inga; Mikli, Valdek; Volobujeva, Olga; Utt, Katriin; Sildos, Ilmo; Mere, Arvo; Krunks, Malle E-MRS 2013 Spring Meeting. Symposium P, Functional nanowires : synthesis, characterization and applications : poster session II 2013 / p. 15

Nanostructured thin films by wet chemical methods

Krunks, Malle International Conference : Advances in Nanostructured Materials, Processing - Microstructure - Properties : NANOVED 2006 - NENAMAT : May 14-17, 2006, Štara Lesná, Slovak Republic : book of abstracts 2006 / p. 57

A new approach in preparation of molecularly imprinted polymer thin films for immunoglobulin G specific recognition

Boroznjak, Roman; Reut, Jekaterina; Söritski, Vitali; Öpik, Andres Baltic Polymer Symposium 2012 : Liepāja, Latvia, September 19-22 : programme and proceedings 2012 / p. 77

NiO thin films deposited by chemical spray pyrolysis

Soon, Jaanika; Krunks, Malle; Mikli, Valdek; Unt, Tarmo; Mere, Arvo NANOSMAT Conference, 22-25 September 2013, Granada, Spain : abstracts book 2013

Niobium doped TiO₂ films by chemical spray pyrolysis [Online resource]

Dündar, Ibrahim; Oja Acik, Ilona; Mere, Arvo; Katerski, Atanas; Krunks, Malle; Mikli, Valdek Tartu Ülikooli ASTRA projekt PER ASPERA : Funktsionaalsed materjalid ja tehnoloogiad : [7-8 märts 2017, Tartu : teesid] 2017 / [1] p <http://fmdk.ut.ee/teesid/>

Niobium doped TiO₂ layers by chemical spray pyrolysis

Dündar, Ibrahim; Oja Acik, Ilona; Mere, Arvo; Katerski, Atanas; Krunks, Malle; Mikli, Valdek Proceedings of 13th International Conference of Young Scientists on Energy Issues : CYSENI 2016 : May 26-27 2016, Kaunas, Lithuania 2016 / p. VII-241 - VII-250

Novel SiOxNy composite thin films with aligned carbon nanotubes network

Shmagina, Elizaveta; Mikli, Valdek; Bereznev, Sergei GSFMT Scientific Conference 2023 : Tartu, 23-24 May, 2023 : abstracts 2023 <https://fmdk.ut.ee/programm-2023/>

Novel SiOxNy protective coatings with aligned carbon nanotubes network

Shmagina, Elizaveta; Volobujeva, Olga; Mikli, Valdek; Bereznev, Sergei Symposium E : Carbon- and/or nitrogen-containing thin films and nanomaterials : 40th Anniversary 2023 / art. 00680 <https://srv3.key4events.com/key4register/AbstractList.aspx?e=31&preview=1&ig=-1&ai=1968>

Observation of photoluminescence edge emission in CuSbSe₂ absorber material for photovoltaic applications

Penežko, Aleksei; Kauk-Kuusik, Marit; Volobujeva, Olga; Traksmäa, Rainer; Grossberg, Maarja Applied physics letters 2019 / art. 092101, 4 p. : ill <https://doi.org/10.1063/1.5114893> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

One-source PVD of n-CuIn₅Se₈ photoabsorber films for hybrid solar cells

Bereznev, Sergei; Adhikari, Nirmal; Kois, Julia; Raadik, Taavi; Traksmäa, Rainer; Volobujeva, Olga; Kouhiisfahani, Elham; Öpik, Andres Solar energy 2013 / p. 202-208 : ill

One-step electrochemical deposition of CuInSe₂ absorber layers

Kois, Julia; Volobujeva, Olga; Bereznev, Sergei Physica status solidi (c) 2008 / 11, p. 3441-3444 : ill

Optical and structural properties of TiO₂ thin films by chemical spray

Oyekoya, G.; Oja Acik, Ilona; Krunks, Malle Proceedings of CYSENI 2013 : the 10th Annual Conference of Young Scientists on Energy Issues, May 29-31, 2013, Kaunas, Lithuania 2013 / p. 464-471

Optical properties of high quality Cu₂ZnSnSe₄ thin films

Luckert, F.; Hamilton, D. I.; Yakushev, M. V.; Beattie, N. S.; Zoppi, G.; Moynihan, M.; Forbes, I.; Karotki, A. V.; Mudryi, A. V.; Grossberg, Maarja; Krustok, Jüri; Martin, R. W. Applied physics letters 2011 / p. 062104 [3 p.] : ill

Optical properties of sprayed ZnO thin films

Unt, Tarmo; Kriisa, Merike; Mere, Arvo; Krunks, Malle Proceedings of CYSENI 2013 : the 10th Annual Conference of Young Scientists on Energy Issues, May 29-31, 2013, Kaunas, Lithuania 2013 / p. 482-489

Optical spectroscopy studies of Cu₂ZnSnSe₄ 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 <http://dx.doi.org/10.1016/j.tsf.2014.09.010>

Optical studies of Cu₃BiS₃ thin films

Raadik, Taavi TÜ ja TTÜ doktorikool "Funktsionaalsed materjalid ja tehnoloogiad" : 04.-05. märts 2014, Tartu 2014 / [1] p

Optical study of local strain related disordering in CVD-grown MoSe₂ monolayers

Krustok, Jüri; Raadik, Taavi; Jaaniso, Raivo; Kiisk, Valter Applied physics letters 2016 / p. 253106-1 - 253106-5 : ill <http://dx.doi.org/10.1063/1.4972782>

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](#)

Optoelectronic properties of chlorine and oxygen doped CdTe thin films

Valdna, Vello Solar energy materials and solar cells 2005 / p. 369-373 : ill

Oxygen barrier properties of Al₂O₃- and TiO₂-coated LDPE films

Lange, Sven; Arroval, Tõnis; Saar, Rando; Kink, Ilmar; Aarik, Jaan; Krumme, Andres Polymer-plastics technology and engineering 2015 / p. 301-304 : ill <http://dx.doi.org/10.1080/03602559.2014.977426>

Oxygen codopant in Cl doped CdTe thin films

Valdna, Vello E-MRS Spring Meeting 2002 : June 18-21, 2002. Symposium B, Thin Film Chalcogenide Photovoltaic Materials 2002

Phase composition of selenized Cu₂ZnSnSe₄ thin films determined by X-ray diffraction and Raman spectroscopy
Ganchev, Maxim; Iljina, Julia; Kaupmees, Liina; Raadik, Taavi; Volobujeva, Olga; Mere, Arvo; Altosaar, Mare; Raudoja, Jaan; Mellikov, Enn Thin solid films 2011 / p. 7394-7398 : ill

Photocatalytic antibacterial activity of nano-TiO₂ (anatase)-based thin films : effects on Escherichia coli cells and fatty acids

Joost, Urmas; **Juganson, Katre**; Visnapuu, Meeri; Mortimer, Monika; Kahru, Anne; Nõmmiste, Ergo; Joost, Urmeli; Kisand, Vambola; Ivask, Angela Journal of photochemistry and photobiology B : biology 2015 / p. 178-185 : ill
<http://dx.doi.org/10.1016/j.jphotobiol.2014.12.010>

Photocatalytic degradation of different VOCs in the gas-phase over TiO₂ thin films prepared by ultrasonic spray pyrolysis

Dundar, Ibrahim; **Kritševskaja, Marina**; **Katerski, Atanas**; **Krunks, Malle**; **Oja Acik, Ilona** Catalysts 2019 / art. 915 ; 18 p. : ill
<https://doi.org/10.3390/catal9110915> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Photocatalytic oxidation of VOCs AS individual air pollutants and in mixtures on the TiO₂ thin films

Sydorenko, Jekaterina; **Mere, Arvo**; **Krunks, Malle**; **Kritševskaja, Marina**; **Oja Acik, Ilona** Graduate School of Functional Materials and Technology (GSFMT) Scientific Conference : abstracts 2022 / 58 l. [Graduate School of Functional Materials and Technology \(GSFMT\) Scientific Conference 2022](#)

Photocatalytic TiO₂ thin films by ultrasonic spray pyrolysis for air purification

Dündar, Ibrahim; **Kritševskaja, Marina**; **Katerski, Atanas**; **Krunks, Malle**; **Oja Acik, Ilona** GSFMT Scientific Conference 2020 : Tallinn, February 4-5, 2020 : abstracts 2020 / p. 21 <http://fntdk.ut.ee/wp-content/uploads/2020/01/GSFMT2020.pdf>

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>

Photoluminescence and the tetragonal distortion in CuInS₂

Krustok, Jüri; **Raudoja, Jaan**; Collan, Heikki Thin solid films 2001 / p. 195-197

Photoluminescence study of B-trions in MoS₂ monolayers with high density of defects

Kaupmees, Reelika; Komsa, Hannu-Pekka; **Krustok, Jüri** Physica status solidi (b) 2019 / art. 1800384, 5 p. : ill
<https://doi.org/10.1002/pssb.201800384> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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

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>

Pihustatud CuInS₂ õhukeste kilede keemiline ja faasikoostis

Kijatkina, Olga; **Rebane, Helen**; **Oja, Ilona**; **Krunks, Malle**; **Mikli, Valdek**; **Mere, Arvo** XXVII Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid = 27th Estonian Chemistry Days : abstracts of scientific conference 2001 / lk. 52

Pihustatud vaskindiumdisulfiid kilede keemiline koostis

Katerski, Atanas; **Krunks, Malle** XXXII Eesti Keemiapäevad : teaduskonverentsi teesid 2011 / lk. 39

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](#)

Plasmonic modification of CdTe thin films by gold nanoparticles : methods, difficulties and solutions

Maticiuc, Natalia; **Spalatu, Nicolae**; **Katerski, Atanas**; **Hiie, Jaan**; **Mikli, Valdek**; **Krunks, Malle**; Dolgov, Leonid; Sildos, Ilmo Microelectronic engineering 2014 / p. 173-178 : ill

Poly(m-phenylenediamine) thin films molecularly imprinted with antibiotics as a recognition material for biosensor application

Sõritski, Vitali; **Reut, Jekaterina**; **Tretjakov, Aleksei**; **Öpik, Andres**; Hinrichs, Karsten; Rappich, Jörg Polymers for advanced technologies 2013 / p. 153

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>

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://fntdk.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](#)

Preparation and characterization of multilayer system consisting of the soluble and electrochemically synthesized polypyrrole films

Reut, Jekaterina; Reut, N.; Öpik, Andres *International Conference on Science and Technology of Synthetic Metals : 15th to 21st of July 2000, Gastein, Austria : book of abstracts 2000* / p. 5-SunA109
https://www.researchgate.net/publication/243345790_Preparation_and_characterization_of_multilayer_Systems_consisting_of_the_soluble_and_electrochemically_synthesized_polypyrrole_films

Preparation and characterization of multilayer systems consisting of the soluble and electrochemically synthesized polypyrrole films

Reut, Jekaterina; Reut, N.; Öpik, Andres *Synthetic metals* 2001 / 1/3, p. 81-82 : ill

Preparation and characterization of SbSeI thin films

Dolcet Sadurni, Marc; Timmo, Kristi; Mikli, Valdek; Volobujeva, Olga; Mengü, Idil; Krustok, Jüri; Grossberg-Kuusk, Maarja; Kauk-Kuusik, Marit *Journal of science: Advanced materials and devices* 2024 / art. 100664
<https://doi.org/10.1016/j.jsamd.2023.100664>

Preparation and properties of CdTe films on Mo/glass substrates

Valdna, Vello; Grossberg, Maarja; Hiie, Jaan; Kallavus, Urve; Mikli, Valdek; Traksmäa, Rainer; Viljus, Mart *Thin-film compound semiconductor photovoltaics - 2009* 2009 / p. M08-24
https://www.researchgate.net/publication/231763435_Preparation_and_Properties_of_CdTe_Films_on_MoGlass_Substrates

Preparation of BaSnO₃ target material for pulsed laser deposition [Online resource]

Abdalla, Akram; Bereznev, Sergei; Volobujeva, Olga; Mikli, Valdek *Tartu Ülikooli ASTRA projekt PER ASPERA : Funktsionaalsed materjalid ja tehnoloogiad : [7-8 märtsil 2018, Tallinn : teesid]* GSFMT Scientific Conference 2018 : Tallinn, March 7-8, 2018 : abstracts 2018 / 1 p <http://fntdk.ut.ee/teesid-2018/>

Preparation of Cu(In,Ga) Se₂ layers by selenization of electrodeposited Cu-In-Ga precursors

Ganchev, M.; Kois, Julia; Kaelin, M.; Bereznev, Sergei; Tzvetkova, E.; Volobujeva, Olga; Stratieva, N.; Tiwari, A. *Thin solid films* 2006 / p. 325-327 <https://www.sciencedirect.com/science/article/abs/pii/S0040609005022935>

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%20using%20various%20methods_Ho.pdf

Production of CuInSe₂ thin films by thermal annealing of electrochemically deposited elemental copper, indium and selenium layers

Altosaar, Mare; Krustok, Jüri; Reinecke-Koch, R. *Tallinna Tehnikaülikooli Toimetised* 1994 / lk. 115-129: ill

Properties of CuSbSe₂ thin film solar cell absorbers deposited by magnetron co-sputtering

Penežko, Aleksei; Grossberg, Maarja; Volobujeva, Olga; Kauk-Kuusik, Marit GSFMT Scientific Conference 2020 : Tallinn, February 4-5, 2020 : abstracts 2020 / p. 71 <http://fntdk.ut.ee/wp-content/uploads/2020/01/GSFMT2020.pdf>

Properties of NiO thin film deposited spray pyrolysis

Chen, Zengjun; Dedova, Tatjana; Oja Acik, Ilona; Krunks, Malle GSFMT Scientific Conference 2020 : Tallinn, February 4-5, 2020 : abstracts 2020 / p. 18 <http://fntdk.ut.ee/wp-content/uploads/2020/01/GSFMT2020.pdf>

Properties of NiO thin films prepared by chemical spray pyrolysis

Soon, Jaanika; Krunks, Malle; Mikli, Valdek *Proceedings of CYSENI 2013 : the 10th Annual Conference of Young Scientists on Energy Issues, May 29-31, 2013, Kaunas, Lithuania* 2013 / p. 510-518

Properties of ZnO-nanorod/In₂Se₃/CuInSe₂ solar cell and the constituent layers deposited by chemical spray method =

Keemilise pihustuse meetodil sadestatud ZnO-nanovarras/InSI/CuInSI päikesepatarei ja selle koostisosade omadused
Kärber, Erki 2014 https://www.ester.ee/record=b3073760*est

Properties of the CdCl₂ air-annealed CSS CdTe thin films

Spalatu, Nicolae; Hiie, Jaan; Valdna, Vello; Maticiu, 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; Maticiu, Natalia; Mikli, Valdek; Potlog, Tamara; Krunks, Malle; Lugh, Vanni Energy procedia 2014 / p. 85-95 : ill

Properties of the CdCl₂:O₂ treated CSS CdTe thin films

Spalatu, Nicolae; Caraman, Mihail; Maticiu, Natalia; Hiie, Jaan; Valdna, Vello; Mikli, Valdek; Lugh, Vanni E-MRS 2013 Spring Meeting. Symposium D, Advanced inorganic materials and structures for photovoltaics : poster session II 2013 / p. 19

Properties of the CuInS₂ surface and the effect of organic layers

Verbitsky, Anatoly; Vertsimakha, Yaroslav; Lutsyk, P.N.; Studzinsky, Sergei; **Bereznev, Sergei; Kois, Julia** Semiconductor structures, interfaces, and surfaces 2006 / 2, p. 197-201 : ill

Properties of TiO₂ films prepared by spray pyrolysis method

Oja, Ilona; Mere, Arvo; Krunks, Malle; Solterbeck, Claus-Henning; Es-Souni, Mohammed E-MRS Fall Meeting. Symposim F 2003 / [1] p

Properties of TiO₂ films prepared by the spray pyrolysis method

Oja, Ilona; Mere, Arvo; Krunks, Malle; Solterbeck, C.-H.; Es-Souni, M. Solid state phenomena 2004 / p. 259-262 : ill

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 chalcogenide sulfides from multi- and single-component targets: the non-stoichiometric material transfer

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

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

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

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 grown SnS thin films onto different substrate surfaces

Revathi, Naidu; Bereznev, Sergei; Iljina, Julia; Safonova, Maria; Mellikov, Enn; Volobujeva, Olga Journal of materials science : materials in electronics 2013 / p. 4739-4744 : ill

PVD of highly photosensitive n-CuIn₅Se₈ films for hybrid PV structures

Adhikari, Nirmal; Bereznev, Sergei; Volobujeva, Olga; Raadik, Taavi; Traksmäa, Rainer; Öpik, Andres Progress in Applied Surface, Interface and Thin Film Science 2012 : Florence, Italy, June 14-19, 2012 : program and book of abstracts 2012 / p. 83

PVD of N-CuIn₃Se₅ photoabsorber films

Adhikari, Nirmal; Bereznev, Sergei; Kois, Julia; Volobujeva, Olga; Raadik, Taavi; Traksmäa, Rainer; Tverjanovich, Andrey; **Öpik, Andres** Materials and applications for sensors and transducers 2012 / p. 339-342
https://www.researchgate.net/publication/272070024_PVD_OF_n-CuIn3Se5_photoabsorber_films

PVD of n-CuIn₅Se₈ photoabsorber films for hybrid solar cells

Adhikari, Nirmal; Bereznev, Sergei; Kois, Julia; Volobujeva, Olga; Raadik, Taavi; Traksmäa, 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 kuumutamise ja 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

Päikeseenergeetika tulevikku kujundavad kilepinnad ja tandempaneelid

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

Päikeseplatadeisid täiustav teadlane Atanas Katerski : teadustöö võtab 24/7, aga paneb ikkagi silma särada

Alvela, Ain teadus.postimees.ee 2023 [Päikeseplatadeisid täiustav teadlane Atanas Katerski: teadustöö võtab 24/7, aga paneb ikkagi silma särada](#)

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 Cu₂ZnSnSe₄ 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 <http://dx.doi.org/10.1088/0022-3727/48/47/475109>

Raman spectroscopic study of In₂S₃ films prepared by spray pyrolysis

Kärber, Erki; Otto, Kairi; Katerski, Atanas; Mere, Arvo; Krunk, Malle Materials science in semiconductor processing 2014 / p. 137-142 : ill

Reaction pathway to CZTSe formation in CdI₂ : Part 2: Chemical reactions and enthalpies in mixtures of CdI₂-CuSe-SnSe and CdI₂-CuSe-SnSe-ZnSe

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

Recombination behaviour at the ultra-thin polypyrrole film

Intelmann, Carl Matthias; Hinrichs, Karsten; Söritski, Vitali; Yang, Florent; Rappich, Jörg EM-Nano 2007 International Symposium on Organic and Inorganic Electronic Materials and Related Nanotechnologies : Nagano (Japan), 19.-22.06.2007 2007

Reversibility of CdS film properties depending on the nature of annealing gas

Maticiu, Natalia; Hiie, Jaan; Spalatu, Nicolae; Valdna, Vello E-MRS 2013 Spring Meeting. Symposium D, Advanced inorganic materials and structures for photovoltaics : poster session II 2013 / p. 15-16

Revolutsioon päikesepaneelide tootmises : [päikeseplatadeisid tehnoloogiliste lahenduste arendustöödest TTÜs]

Tehnoloogia : TTÜ noorteajakiri 2013 / lk. 28 : ill

Rippling on wear scar surfaces of nanocrystalline diamond films after reciprocating sliding against ceramic balls

Podgurski, Vitali; Hantschel, Thomas; Bogatov, Andrei; Kimmari, Eduard; Antonov, Maksim; Viljus, Mart; Mikli, Valdek; Raadik, Taavi; Kulu, Priit Tribology letters 2014 / p. 493-501 : ill

Robert Krautmann on konkursi "Teadus 3 minutiga" võitjate hulgas

Mente et Manu 2022 / lk. 10 : fot https://www.ester.ee/record=b1242496*est

Robert Krautmann, "Päikeseplatadeisid annavad vunki värvivõrguseadmetele". Teadus 3 minutiga 2022.11.02

Krautmann, Robert Eesti Teaduste Akadeemia : Youtube kanal 2022 / video [Robert Krautmann, "Päikeseplatadeisid annavad vunki värvivõrguseadmetele". Teadus 3 minutiga 2022.11.02 „Teadus 3 minutiga“ finaali-gala 2022. 11.02.2022](#)

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](#)

Sb₂S₃ thin film solar cells by ultrasonic spray pyrolysis

Eensalu, Jako Siim; Katerski, Atanas; Kärber, Erki; Oja Acik, Ilona; Krunk, Malle GSFMT Scientific Conference 2020 : Tallinn, February 4-5, 2020 : abstracts 2020 / p. 22 <http://fntdk.ut.ee/wp-content/uploads/2020/01/GSFMT2020.pdf>

Sb₂S₃ thin films by ultrasonic spray pyrolysis of antimony ethyl xanthate

Eensalu, Jako Siim; Tõnsuaadu, Kaia; Oja Acik, Ilona; Krunk, 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.; Grzybowski,

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>

Screening and optimization of processing temperature for Sb₂Se₃ thin film growth protocol : interrelation between grain structure, interface intermixing and solar cell performance

Spalatu, Nicolae; Krautmann, Robert; Katerski, Atanas; Kärber, Erki; Josepson, Raavo; Hiie, Jaan; Oja Acik, Ilona; Krunks, Malle Solar energy materials and solar cells 2021 / art. 111045, 13 p. : ill <https://doi.org/10.1016/j.solmat.2021.111045> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

SEM analysis and selenization of Cu-In alloy films produced by co-sputtering of metals

Volobujeva, Olga; Altosaar, Mare; Raudoja, Jaan; Mellikov, Enn; Grossberg, Maarja; Kaupmees, Liina; Barvinski, Paul Solar energy materials and solar cells 2009 / 1, p. 11-14 : ill <https://www.sciencedirect.com/science/article/pii/S0927024808000238>

SEM analysis and selenization of Cu-Zn-Sn sequential films produced by evaporation of metals

Volobujeva, Olga; Mellikov, Enn; Raudoja, Jaan; Grossberg, Maarja; Bereznev, Sergei; Altosaar, Mare; Traksmäa, Rainer Conference on Optoelectronic and Microelectronic Materials and Devices (COMMAD 2008) : Sydney, 18.07-1.08.2008 : proceedings 2009 / p. 257-260 <https://ieeexplore.ieee.org/document/4802140/similar#similar>

SEM study of selenization of different thin metallic films = Õhukeste metallikilede seleniseerimise elektronmikroskoopiline uurimine

Volobujeva, Olga 2008 https://www.ester.ee/record=b2394529*est

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](#)

Shallow defect density determination in CuIn₃Se₅ thin film photoabsorber by impedance spectroscopy

Laes, Kristjan; Bereznev, Sergei; Tverjanovich, Andrey; Borisov, Evgeny N.; Varema, Tiit; Volobujeva, Olga; Õpik, Andres Thin solid films 2009 / p. 2286-2290 : ill

SnS thin films deposition by chemical solution method and characterization = SnS õhukeste kilede sadestamine keemilisest lahusest ja saadud kilede iseloomustamine

Safonova, Maria 2016

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

Sol-Gel approach to the calcium phosphate nanocomposites

Beganskiene, Aldona; Stankeviciute, Zivile; Malakauskaite, Milda; **Bogdanoviciene, Irma; Mikli, Valdek; Tõnsuaadu, Kaia; Kareiva, Aivaras** Nanostructured materials and nanotechnology VII : a collection of papers presented at the 37th International Conference on Advanced Ceramics and Composites, January 27-February 1, 2013, Daytona Beach, Florida 2014 / p. 3-14 : ill <https://doi.org/10.1002/9781118807828.ch1>

Sol-gel deposition of titanium dioxide films = Titaanoksiidi kiled sool-geeli meetodil

Oja Acik, Ilona 2007

Solution deposition of ZnO thin films

Stankova, Stanka; Volobujeva, Olga; Dikov, H.; Ganchev, M. Journal of physics : conference series 2021 / 6 p. : ill <https://doi.org/10.1088/1742-6596/1762/1/012030> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

Solution processed high-K oxides for application as gate dielectric layer in thin film transistor

Oluwabi, Abayomi Titilope; Katerski, Atanas; Mere, Arvo; Krunks, Malle; Oja Acik, Ilona GSFMT Scientific Conference 2020 : Tallinn, February 4-5, 2020 : abstracts 2020 / p. 67 : ill <http://fmtdk.ut.ee/wp-content/uploads/2020/01/GSFMT2020.p>

Solution-mediated inversion of SnSe to Sb₂Se₃ thin-films

Polivtseva, Svetlana; Kois, Julia; Kruzhilina, Tatiana; Kaupmees, Reelika; Klopov, Mihhail; Molaiyan, Palanivel; van Gog, Heleen; van Huis, Marijn A.; Volobujeva, Olga Nanomaterials 2022 / art. 2898 <https://doi.org/10.3390/nano12172898> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Spatially resolved opto-electronical investigations of monograin layer solar cells = Monoterliste päikesepatareide

ruumilise lahutusega optoelektronsed uuringud
Neubauer, Christian 2019 <https://digi.lib.ttu.ee/i/?11900>

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](#)

Spinel to disorder rock-salt structural transition on (111) nickel ferrite thin films tailored by Ni content

Prieto, P.; Serrano, Aida; **Rojas Hernandez, Rocio Estefania;** Gorgojo, S.; Prieto, Jose Emilio; Soriano, L. Journal of alloys and compounds 2022 / art. 164905 <https://doi.org/10.1016/j.jallcom.2022.164905> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Spray pyrolysis deposition of indium sulphide thin films

Otto, Kairi; Katerski, Atanas; Mere, Arvo; Volobujeva, Olga; Krunks, Malle Thin solid films 2011 / p. 3055-3060 : ill

Spray pyrolysis deposition of tin sulfide thin films

Polivtseva, Svetlana; Oja Acik, Ilona; Mikli, Valdek; Krunks, Malle TÜ ja TTÜ doktorikool "Funktsionaalsed materjalid ja tehnoloogiad" : 04.-05. märts 2014, Tartu 2014 / [1] p

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

Sprayed CuInS₂ thin films for solar cells : the effect of solution composition and post-deposition treatments

Krunks, Malle; Bijakina, Olga; Mikli, Valdek; Rebane, Helen; Varema, Tiit; Altosaar, Mare; Mellikov, Enn Solar cells and solar cell materials 2001 / 1, p. 93-98

Spray-pyrolysis synthesised TiO₂ thin films for photocatalytic air treatment from volatile organic compounds

Sydorenko, Jekaterina; Krunks, Malle; Mere, Arvo; Krichevskaya, Marina; Oja Acik, Ilona Proceedings 2023 / art. 37 <https://doi.org/10.3390/proceedings2023092037>

SrAl₂O₄ : Eu,Dy-screen-printed layers to create phosphorescent 2D shapes

Rojas Hernandez, Rocio Estefania; Rubio-Marcos, Fernando; Serrano-lova, Radu-Antonio; Fernandes Lozano, J. F.; **Hussainova, Irina** XVI Conference and Exhibition Of The European Ceramic Society : abstract book 2019 / p. 525 : ill

Stabilization of higher symmetry HfO₂ polymorphs as thin films and nanoparticles

Rauwel, Protima; **Rauwel, Erwan** Hafnium : chemical characteristics, production and applications 2014 / p. 77-112 : ill

Stability, reliability, upscaling and possible technological applications of kesterite solar cells

Larramona, G.; Chone, C.; **Meissner, Dieter;** Ernits, Kaia Journal of Physics : Energy 2020 / art. 024009, 14 p <https://doi.org/10.1088/2515-7655/ab7cee> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Structural and electrical characterisation of high-k ZrO₂ thin films deposited by chemical spray pyrolysis method

Oluwabi, Abayomi Titilope; Acik, Ilona Oja; Katerski, Atanas; Mere, Arvo; Krunks, Malle Thin Solid Films 2018 / p. 129 - 136 <https://doi.org/10.1016/j.tsf.2018.07.035> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Structural and electrical properties of P-type NiO thin films deposited by spray pyrolysis

Vessart, R.; Unt, Tarmo; Mere, Arvo; Krunks, Malle Proceedings of the 11th International Conference of Young Scientists on Energy Issues : CYSENI 2014 : May 29-30, 2014, Kaunas, Lithuania 2014 / p. VII-290-VII-297

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 optical characterization of sprayed ZnS thin films

Dedova, Tatjana; Mere, Arvo; Krunks, Malle; Kijatkina, Olga; Oja, Ilona; Volobujeva, Olga Proceedings of SPIE 2005 / Optical materials and applications, p. 34-40

Structural and optical characterization of sprayed ZnS thin films

Dedova, Tatjana; Kijatkina, Olga; Mere, Arvo; 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. 38

Structural and optical properties of cadmium sulfide thin films modified by hydrogen annealing

Maticiuc, Natalia; Hiie, Jaan; Mikli, Valdek; Potlog, Tamara; **Valdna, Vello** Materials science in semiconductor processing 2014 / p. 169-174 : ill

Structural and optical properties of CuInS₂ thin films prepared by spray pyrolysis

Krunks, Malle; Bijakina, Olga; Bender, Villem; Mikli, Valdek 23rd Estonian Chemistry Days : abstracts of scientific conference 1997 / p. 63

Structural and optical properties of sprayed CuInS₂ films

Krunks, Malle; Bijakina, Olga; Varema, Tiit; Mikli, Valdek; Mellikov, Enn Thin solid films 1999 / p. 125-130: ill

Structural and optical properties of ZnTe thin films

Potlog, Tamara; **Maticiuc, Natalia;** Mirzac, A.; Dumitriu, P.; Scortescu, D. CAS 2012 proceedings. Volume 2 : 2012 International Semiconductor Conference : October 15-17, Sinaia, Romania 2012 / p. 321-324 : ill
<https://ieeexplore.ieee.org/abstract/document/6400772/keywords#keywords>

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 <http://dx.doi.org/10.1016/j.tsf.2016.09.042>

Structural investigation of tellurium based thin films

Ivanova, Vladislava; Trifonova, Yordanka; Lilova, Vanya; **Mikli, Valdek;** Stoyanova-Ivanova, Angelina Journal of chemical technology and metallurgy 2018 / p. 749-754 : ill https://journal.uctm.edu/node/j2018-4/17_18-122_p_749-754.pdf [Journal metrics at Scopus](#) [Article at Scopus](#)

Structural reproducibility of CdTe thin films deposited on different substrates by close space sublimation method

Potlog, Tamara; Spalatu, Nicolae; Maticiuc, Natalia; **Hiie, Jaan; Valdna, Vello; Mikli, Valdek; Mere, Arvo** Physica status solidi (a) : applications and materials science 2012 / p. 272-276 : ill https://ibn.idsi.md/ro/vizualizare_articol/188177

Structure and evolved gas analyses (TG/DTA-MS and TG-FTIR) of mer-trichlorotris(thiourea)-indium(III), a precursor for indium sulfide thin films

Otto, Kairi; Bombicz, Petra; Madarasz, Janos; **Oja Acik, Ilona; Krunks, Malle;** Pokol, György Journal of thermal analysis and calorimetry 2011 / p. 83-91 <https://link.springer.com/article/10.1007/s10973-011-1524-7>

Structure and thermal behaviour of dichlorobis(thiourea)cadmium(II), a single-source precursor for CdS thin films

Krunks, Malle; Madarasz, Janos; Hiltunen, L.; Mannonen, R.; Niinistö, L.; **Mellikov, Enn** Acta Chemica Scandinavica 1997 / p. 294-301: ill

Study of CdS thin films electrodeposited in presence of promotive selenious acid microadditive

Maricheva, Jelena; Bereznev, Sergei; Volobujeva, Olga; Mellikov, Enn; Kois, Julia BEC 16 : the 6th Baltic Electrochemistry Conference : Electrochemistry of Functional Interfaces and Materials : 15th-17th June 2016, Helsinki, Finland 2016 / p. 77 : ill

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 composition reproducibility of electrochemically co-deposited CuInSe₂ films onto ITO

Kaupmees, Liina; Altosaar, Mare; Volobujeva, Olga; Mellikov, Enn Thin solid films 2007 / 15, p. 5891-5894
<https://www.sciencedirect.com/science/article/pii/S0040609006016427>

Study of gas-phase photocatalytic activity of titania thin films in multi-section plug-flow reactor

Kritševskaja, Marina; Hensch, G.; **Pronina, Natalja;** Moiseev, Anna; Weber, Alfred; Deubener, Joachim 5th European Conference on Environmental Applications of Advanced Oxidation Processes (EAAOP5) : book of abstracts 2017 / p. 197 https://photo-catalysis.org/events/901/photo/book_of_proceedings_eaaop5_prague.pdf

Study of In₂SI and ZnS thin films deposited by ultrasonic spray pyrolysis and chemical deposition = Ultraheli pihustuspürolüüsi ja keemilise sadestamise meetodil kasvatatud In₂SI ja ZnS õhukeste kilede uurimine

Ernits, Kaia 2009 <https://digi.lib.ttu.ee/i/?452> https://www.ester.ee/record=b2524289*est

Study of ZnO:In, Zn(O,S) and Sb₂SI thin films deposited by aerosol methods = Aerosoolmeetoditel sadestatud ZnO:In, Zn(O,S) ja Sb₂SI õhukeste kilede uurimine

Kriisa, Merike 2017 <https://digi.lib.ttu.ee/i/?7676>

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

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

Substantial improvement of the photovoltaic characteristics of TiO₂/CuInS₂ interfaces by the use of recombination barrier coatings

Lenzmann, F.; Nanu, M.; Kijatkina, Olga; Belaidi, A. Thin solid films 2004 / p. 639-643 : ill

Surface plasmon resonance caused by gold nanoparticles formed on sprayed TiO₂ films

Oja Acik, Ilona; Dolgov, Leonid; **Krunks, Malle; Mere, Arvo; Mikli, Valdek;** Pikker, Siim; Loot, Ardi; Sildos, Ilmo Thin solid films 2014 / p. 144-147 : ill

Synergistic effect of single-walled carbon nanotubes and PEDOT:PSS in Thin film amorphous silicon hybrid solar cell

Alekseeva, Alena A.; Rajanna, Pramod M.; Anisimov, Anton S.; Sergeev, Oleg; **Bereznev, Sergei;** Nasibulin, Albert Physica status solidi (b) 2018 / 4 p. : ill <https://doi.org/10.1002/pssb.201700557> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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

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 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 nano-powders and nano-structured thin films = Cu₂ZnSnS₄ nano-pulbrite ja nano-struktuursete kilede süntees

Kumar, Suresh 2018 <https://digi.lib.ttu.ee/i/?10626>

Zinc oxide thin films by spray pyrolysis method

Krunks, Malle; Bijakina, Olga; Mikli, Valdek; Varema, Tiit; Mellikov, Enn Physica scripta 1999 / Proceedings of 18th Nordic Semiconductor Meeting, Linköping, Sweden, June 7-10, 1998, ISBN 91-87308-71-1, p. 209-212: ill

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

Zirconium doped TiO₂ thin films deposited by chemical spray pyrolysis

Juma, Albert Owino; Oja Acik, Ilona; Oluwabi, Abayomi Titilope; Mere, Arvo; Mikli, Valdek; Danilson, Mati; Krunks, Malle Applied surface science 2016 / p. 539-545 : ill <http://dx.doi.org/10.1016/j.apsusc.2016.06.093>

ZnO thin films as transparent conductive oxides by chemical spray pyrolysis

Vent, Merike; Annert, Katre; **Kärber, Erki; Krunks, Malle** Proceedings of CYSENI 2010 : the 7th Annual Conference of Young Scientists on Energy Issues : May 27-28, 2010, Kaunas, Lithuania 2010 / p. 399-407

Zn(O,Se) as a novel buffer layer for thin film solar cells

Abdalla, Akram; Polivtseva, Svetlana; Spalatu, Nicolae; Volobujeva, Olga; Hiie, Jaan; Bereznev, Sergei Tartu Ülikooli ASTRA projekt PER ASPERA : Funktsionaalsed materjalid ja tehnoloogiad : [4.-5. veebr. 2019, Tartu : teesid] 2019 <http://fntdk.ut.ee/teesid-2019/>

ZnS thin films and nanostructured layers by chemical spray pyrolysis

Dedova, Tatjana; Krunks, Malle; Gromõko, Inga; Mikli, Valdek; Sildos, Ilmo; Utt, Kathriin; **Unt, Tarmo** XXXIII Eesti Keemiapäevad : teaduskonverentsi teesid 2013 / p. 13

ZnS thin films deposited by spray pyrolysis technique

Dedova, Tatjana; Krunks, Malle; Volobujeva, Olga; Oja, Ilona Physica status solidi (c) : proceedings 2005 / 3, p. 1161-1166 : ill

Tailoring of bound exciton photoluminescence emission in WS₂ monolayers

Kaupmees, Reelika; Grossberg, Maarja; Ney, Marcel; **Krustok, Jüri** Physica status solidi - rapid research letters 2020 / art. 1900355, 6 p. : ill <https://doi.org/10.1002/pssr.201900355> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Tailoring of magnetic properties of MnAl thin films by protons irradiation

Khanduri, Himani; Khan, S.A.; Srivastava, S.K.; **Link, Joosep**; Stern, Raivo; Avasthi, D.K. AIP conference proceedings 2018
<https://doi.org/10.1063/1.5029080>

TalTechi teadlased loovad õhku ja pindasid puhastavaid pinnakatteid

Mente et Manu 2021 / lk. 28-29 : ill [Mente et Manu 2/2021](#)

Teadus 3 minutiga : päikesepatareid annavad vunki värvvõrguseadmetele [Võrguväljaanne]

Krautmann, Robert novaator.err.ee 2022 "[Teadus 3 minutiga: päikesepatareid annavad vunki värvvõrguseadmetele](#)"

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

Temperature dependent electroreflectance study of Cu₂ZnSnSe₄ 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 <http://dx.doi.org/10.1016/j.mssp.2015.04.055>

Temperature dependent photorefectance study of Cu₂SnS₃ thin films produced by pulsed laser deposition

Raadik, Taavi; Grossberg, Maarja; Krustok, Jüri; Kauk-Kuusik, Marit Applied physics letters 2017 / p. 261105-1 - 261105-4 : ill
<https://doi.org/10.1063/1.4990657>

Terahertz radiation from nonstoichiometric CuInSe₂ films excited by femtosecond laser pulses

Adomavicius, Ramunas; Krotkus, Arunas; **Kois, Julia; Bereznev, Sergei; Mellikov, Enn** Applied physics letters 2005 / 19, [3] p
<https://doi.org/10.1063/1.2126796>

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](#)

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 crystal structure and optical properties of CdTe nano-composite obtained by treatment of GaTe layers in Cd vapor

Spalatu, Nicolae; Caraman, Iuliana; Untila, Dumitru; Hiie, Jaan EMRS-2014 Spring Meeting, Lille, France : May 26-30. Symposium W, Crystals for energy conversion and storage 2014 / p. 16

The effect of elevated temperatures on excitonic emission and degradation processes of WS₂ monolayers

Kaupmees, Reelika; Walke, Peter; Madauß, Lukas; Maas, Andre; Pollmann, Erik; Schleberger, Marika; Grossberg, Maarja; Krustok, Jüri Physical chemistry chemical physics 2020 / p. 22609-22616 <https://doi.org/10.1039/D0CP03248D> [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 tartaric acid in the deposition of Sb₂S₃ films by chemical spray pyrolysis

Kriisa, Merike; Krunks, Malle; Oja Acik, Ilona; Kärber, Erki; Mikli, Valdek Materials science in semiconductor processing 2015 / p. 867-872 : ill <http://dx.doi.org/10.1016/j.mssp.2015.07.049>

The effect of tartaric acid in the deposition of Sb₂S₃ films by chemical spray pyrolysis [Online resource]

Kriisa, Merike; Krunks, Malle; Oja Acik, Ilona; Kärber, Erki; Mikli, Valdek Tartu Ülikooli ASTRA projekt PER ASPERA : Funktsionaalsed materjalid ja tehnoloogiad : [7-8 märts 2017, Tartu : teesid] 2017 / [1] p <http://fmdtk.ut.ee/teesid/>

The role of Cl in the chemical bath on the properties of CdS thin films

Maticiu, Natalia; Hiie, Jaan; Raadik, Taavi; Graf, Aleksandr; Gavrilov, Aleksei Thin solid films 2013 / p. 184-187 : ill

The role of deep donor-deep acceptor complexes in Cis-related compounds

Krustok, Jüri; Raudoja, Jaan; Schön, J.H.; Yakushev, M.; Collan, Heikki Thin solid films 2000 / p. 406-410 : ill
<https://www.sciencedirect.com/science/article/abs/pii/S0040609099007567>

The structure and magnetic properties of Co films on Ni₃Al(0 0 1)

Van Eek, Stella M; Costina, Ioan; **Podgurski, Vitali**; Franchy, Rene Journal of magnetism and magnetic materials 2004 / p. 1607-1608 : ill

Thermal analysis of xerogel for calcium hydroxyapatite thin films preparation

Stankeviciute, Z.; Tõnsuaadu, Kaia; Bogdanoviciene, Irma; Kareiva, Aivaras Book of abstracts of the 15th International Conference-School Advanced materials and technologies : 27-31 August 2013, Palanga, Lithuania 2013 / p. 128

Thermal annealing effect on structural and electrical properties of chemical bath-deposited CdS films

Hiie, Jaan; Muska, Katri; Valdna, Vello; Mikli, Valdek; Taklaja, Andres; Gavrilov, Aleksei Thin solid films 2008 / 20, p. 7008-7012 : ill

Thermal annealing of sequentially deposited SnS thin films

Safonova, Maria; Nair, Padmanabhan Pankajakshy Karunakaran; Mellikov, Enn; Aragon, Rebeca; Kerm, Karin; Naidu, Revathi; Mikli, Valdek; Volobujeva, Olga Proceedings of the Estonian Academy of Sciences 2015 / p. 488-494 : ill
<http://dx.doi.org/10.3176/proc.2015.4.04>

Thermoanalytical study of a precursor for CuInS₂ thin films deposited by chemical spray pyrolysis

Oja Acik, Ilona; Otto, Kairi; Tõnsuaadu, Kaia; Katerski, Atanas; Niinistö, L.; Krunks, Malle ESTAC10 : 10th European Symposium on Thermal Analysis and Calorimetry : August 22-27, 2010, Rotterdam, The Netherlands : abstract book 2010 / p. 175

Thermoanalytical study of precursors for In₂S₃ thin films deposited by spray pyrolysis

Otto, Kairi; Oja Acik, Ilona; Tõnsuaadu, Kaia; Mere, Arvo; Krunks, Malle Journal of thermal analysis and calorimetry 2011 / p. 615-623 : ill

Thermoanalytical study of precursors for tin sulfide thin films deposited by chemical spray pyrolysis

Polivtseva, Svetlana; Oja Acik, Ilona; Krunks, Malle; Tõnsuaadu, Kaia; Mere, Arvo Journal of thermal analysis and calorimetry 2015 / p. 177-185 : ill <http://dx.doi.org/10.1007/s10973-015-4580-6>

Thermoanalytical study of the YSZ precursors prepared by aqueous sol-gel synthesis route

Tõnsuaadu, Kaia; Zalga, Arturas; Beganskiene, Aldona; Kareiva, Aivaras Journal of thermal analysis and calorimetry 2012 / p. 77-83 : ill https://www.researchgate.net/publication/257615627_Thermoanalytical_study_of_the_YSZ_precursors_prepared_by_aqueous_sol-gel_synthesis_route

Thickness effect on photocatalytic activity of TiO₂ thin films fabricated by ultrasonic spray pyrolysis

Dundar, Ibrahim; Mere, Arvo; Mikli, Valdek; Krunks, Malle; Oja Acik, Ilona Catalysts 2020 / art. 1058
<https://doi.org/10.3390/catal10091058> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Thin composite films consisting of polypyrrole and poly(4-phenylene)

Golovtsov, Igor; Bereznev, Sergei; Traksmaa, Rainer; Öpik, Andres Thin solid films 2006 / 19, p. 7712-7715 : ill

Thin films by chemical spray pyrolysis for photovoltaic applications

Krunks, Malle 1st Central and Eastern European Conference on Thermal Analysis and Calorimetry (CEEC-TAC1), 7-10 September 2011, Craiova, Romania : book of abstracts 2011 / p. 43

Thin films by wet chemical deposition techniques

Krunks, Malle AOMD-5 : 5th International Conference Advanced Optical Materials and Devices : Vilnius, Lithuania, 27-30 August, 2006 : program and abstracts 2006 / p. 89

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

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>

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

Tin sulfide films by chemical spray pyrolysis : formation and properties = Tinasulfiid kiled keemilise pihustuspürolüüsi meetodil : moodustumine ja omadused

Polivtseva, Svetlana 2018 <https://digi.lib.ttu.ee/i/?9416>

Tin sulfide films by spray pyrolysis technique using L-cysteine as a novel sulfur source

Polivtseva, Svetlana; Oja Acik, Ilona; Katerski, Atanas; Mere, Arvo; Mikli, Valdek; Krunks, Malle Physica status solidi (c) 2016 / p. 18-23 : ill <http://dx.doi.org/10.1002/pssc.201510098>

TiO₂ thin films by ultrasonic spray pyrolysis

Chen, Zengjun; Dünder, Ibrahim; Oja Acik, Ilona; Mere, Arvo IOP conference series : materials science and engineering 2019 / art. 012006, 7 p. : ill <https://doi.org/10.1088/1757-899X/503/1/012006> Conference proceedings at Scopus Article at Scopus Article at WOS

TiO₂ thin films by ultrasonic spray pyrolysis as photocatalytic material for air purification

Dündar, Ibrahim; Kritševskaja, Marina; Katerski, Atanas; Oja Acik, Ilona Royal Society open science 2019 / art. 181578, 12 p. : ill <https://doi.org/10.1098/rsos.181578> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

TiO₂ thin films by ultrasonic spray pyrolysis for photocatalytic air-cleaning applications = TiO₂ õhukesed kiled ultraheli pihustuspürolüüsi meetodil õhu fotokatalüütiliseks puhastamiseks

Dündar, Ibrahim 2021 https://www.ester.ee/record=b5408882*est <https://digikogu.taltech.ee/et/Item/266d75a3-ff2e-4bcf-aa54-2151511e871f> <https://doi.org/10.23658/taltech.13/2021>

TiO₂ õhukesed kiled sool-geel meetodil

Oja, Ilona; Es-Souni, M.; **Krunks, Malle** XXVIII Eesti keemiapäevad : teaduskonverentsi ettekannete teesid = 28th Estonian Chemistry Days : abstracts of scientific conference 2002 / lk. 96

Titania thin films by chemical spray pyrolysis as photocatalytic materials for air purification [Online resource]

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

To grind or not to grind? The influence of mechanical and thermal treatments on the Cu/Zn disorder in Cu₂ZnSn(S_xSe_{1-x})₄ monograins

Gurieva, Galina; Rotaru, Victoria; Ernits, Kaia; Siminel, Nichita A.; Manjón-Sanz, Alicia; Kirkham, Melanie J.; Perez-Rodriguez, Alejandro; Guc, Maxim; **Meissner, Dieter**; Schorr, Susan Solar Energy Materials and Solar Cells 2022 / Art. 112009 <https://doi.org/10.1016/j.solmat.2022.112009> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Transparent TiO₂ thin films with high photocatalytic activity for indoor air purification

Sydorenko, Jekaterina; Mere, Arvo; Krunks, Malle; Krichevskaya, Marina; Oja Acik, Ilona RSC advances 2022 / p. 35531-35542 <https://doi.org/10.1039/D2RA06488J> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Tribological properties of nanocrystalline diamond coating at high temperature sliding conduction [Online resource]

Yashin, Maxim; Baroninš, Janis; Menezes, Pradeep; Viljus, Mart; Raadik, Taavi; Bogatov, Andrei; Antonov, Maksim; Podgurski, Vitali Tartu Ülikooli ASTRA projekt PER ASPERA : Funktsionaalsed materjalid ja tehnoloogiad : [7-8 märtsil 2018, Tallinn : teesid] GSFMT Scientific Conference 2018 : Tallinn, March 7-8, 2018 : abstracts 2018 / 1 p. : ill <http://fntdk.ut.ee/teesid-2018/>

Tribological properties of PVD coatings with lubricating films

Lind, Liina; Adoberg, Eron; Aarik, Lauri; Kulu, Priit; Veinthal, Renno; Abdel Aal, Alsayed Estonian journal of engineering 2012 / p. 193-201 : ill

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 / p. 1853-1856

Ultrathin polypyrrole films on silicon substrates

Intelmann, Carl Matthias; **Sõritski, Vitali;** Tsankov, Dimitar; Hinrichs, Karsten; Rappich, Jörg Electrochimica acta 2008 / 11, p. 4046-4050 : ill

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

Vesinikus lõõmutamise mõju CdS kilede omadustele

Maticiu, Natalia; Potlog, Tamara; Hiie, Jaan XXXII Eesti Keemiapäevad : teaduskonverentsi teesid 2011 / lk. 61

Värkvõrgule võivad tulevikus vunki anda päikesepatareid [võrguväljaanne]

Krautmann, Robert novaator.err.ee 2022 ["Värkvõrgule võivad tulevikus vunki anda päikesepatareid"](https://novaator.err.ee/2022/04/05/Varkvorgule-voivad-tulevikus-vunki-anda-paikesepatareid/)

Õhukesekilelised päikesepatareid pihustuspürolüüsi meetodil

Krunks, Malle Teadusmõte Eestis. 4, Tehnikateadused. 2 2007 / lk. 41-48 : ill

Õhukeste CuInSe₂ kilede saamine elektrokeemiliselt sadestatud elementidest

Altosaar, Mare; Kois, Julia XXIII Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid 1997 / lk. 16

Õhukeste TiO₂ kilede kasv erinevatel alustel pihustuspürolüüsi meetodil

Junolainen, Agne; **Oja Acik, Ilona; Mikli, Valdek; Danilson, Mati; Krunks, Malle** XXXI Eesti keemiapäevad : [28. aprill 2010, Tallinn] : teaduskonverentsi teesid = 31st Estonian Chemistry Days : abstracts of scientific conference 2010 / lk. 35

XPS study of CZTSSe monograin powders

Danilson, Mati; Altosaar, Mare; Kauk, Marit; Katerski, Atanas; Krustok, Jüri; Raudoja, Jaan Thin solid films 2011 / p. 7407-7411 : ill

XPS study of OH impurity in solution processed CdS thin films

Maticiu, Natalia; Katerski, Atanas; Danilson, Mati; Krunks, Malle; Hiie, Jaan Solar energy materials and solar cells 2017 / p. 211-216 : ill <http://dx.doi.org/10.1016/j.solmat.2016.10.040>

Влияние обработки поверхности на электрические свойства монослойных слоев

Iljina, Natalja; Mellikov, Enn III республиканская конференция молодых ученых-химиков, 15-17 мая 1979 года : тезисы докладов 1979 / с. 6 https://www.ester.ee/record=b1280470*est

Изучение поликристаллических соединений AlI BVI : (сообщение V)

Varvas, Jüri; Kerm, Karin Сборник статей по химии и химической технологии. 17 1967 / с. 75-81 : илл https://www.ester.ee/record=b2182175*est <https://digikogu.taltech.ee/et/Item/7729329c-fcb4-4227-8663-3a21bf5c78ff>

Изучение поликристаллических соединений AlI BVI : (Сообщение VI)

Varvas, Jüri; Kerm, Karin; Pakkas, Roul Сборник статей по химии и химической технологии. 18 1968 / с. 41-48 : илл https://www.ester.ee/record=b2182210*est <https://digikogu.taltech.ee/et/Item/da497296-14c1-45a6-b8d9-501e8c574070>

К вопросу гидродинамики пленочного течения

Vaikla, T.; Mikkal, Valdek; Treimann, Aksel XVI студенческая научно-техническая конференция вузов Прибалтики, Белорусской ССР и Калининградской области, посвященная 100-летию со дня рождения В. И. Ленина : 20-25 апреля 1970 г. : (тезисы докладов). Математика, физика и химия 1970 / с. 43 https://www.ester.ee/record=b1379468*est

Кинетика получения тонкопленочных варизонных структур методом химического замещения

Mellikov, Enn; Kulša, A.; Lotšako, V. Синтез и исследование халькогенидных пленок : тезисы докладов уральской конференции (14-16 окт.) 1986 / с. [?]

Лазерная абляция магнитных и полупроводниковых материалов : работа ... магистра технических наук

Podgurski, Vitali 1996 https://www.ester.ee/record=b2681294*est

Механизм образования и кинетика роста пленок сульфида кадмия, химически осажденных пульверизацией

Kerm, Karin; Tilling, Aino; Varvas, Jüri Неорганическая химия и технология. 1 1980 / с. 101-107

Направленный синтез тонких пленок сульфида кадмия методом химической пульверизации

Krunks, Malle Синтез и исследование халькогенидных пленок : тезисы докладов уральской конференции (14-16 окт.) 1986 / с. ?

Некоторые особенности импульсной переполаризации пленочной сегнетокерамики

Mägi, Harri; Sapožkov, K. Вопросы проектирования специальных радиоэлектронных устройств : ученые записки. Вып. 1 1969 / с. 89-102

О составе химически пульверизированных пленок сульфида свинца

Tõnsberg, Pärtel; Nirk, M. II республиканская конференция молодых ученых-химиков, 17-19 мая 1977 : тезисы докладов. Часть 2 1977 / с. 105 https://www.ester.ee/record=b1308855*est

Образование пленок CdS и CdZnS при химической пульверизации растворов

Krunks, Malle; Mellikov, Enn; Karpenko, I.V. Физическая химия соединений AlIBVI 1981 / с. 35-42

Получение пленок сульфида свинца

Tõnsberg, Pärtel; Nirk, M. I республиканская конференция молодых ученых-химиков, 20-22 мая 1975 года : тезисы докладов 1975 / с. 191-192 https://www.ester.ee/record=b1309964*est

Создание регулярных монослойных слоев

Varema, Tiit; Iljina, Natalja IV республиканская конференция молодых ученых-химиков : тезисы докладов 1981 / с. 110-111 https://www.ester.ee/record=b1309986*est

Тонкие магнитные пленки как элементы ассоциативного запоминающего устройства : автореферат ... кандидата технических наук (252)

Pihlau, Jaak 1969 https://www.ester.ee/record=b2333088*est

Упругие модели дефектов в двумерных кристаллах

Kolesnikova, Anna; Orlova, T.; **Hussainova, Irina**; Romanov, Alexey Физика твердого тела 2014 / с. 2480-2485 : ил

Химические методы в технологии тонких пленок и гетеропереходов на их основе

Krunk, Malle; Kulša, D.; Mellikov, Enn | Всесоюзная конференция по физике и технологии тонких пленок (явления переноса), г. Ивано-Франковск, 11-13 мая 1981 г. : тезисы докладов 1984 / с. 93