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

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

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

Application of 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

Au ja Ag nanoosakeste saamiseks kasutatavate lähteainete HAuCl4·3H2O ja AgNO3 termilise lagunemise uurimine
Otto, Kairi; **Oja Acik, Ilona**; **Krunks, Malle**; **Tõnsuaadu, Kaia** XXXIII Eesti Keemiapäevad : teaduskonverentsi teesid 2013 / lk. 55

Band positions and electrochemistry of CdSe(x)Te(1-x) semiconductor electrodes
Wirts, Christian; **Altosaar, Mare**; **Krunks, Malle**; **Varema, Tiit**; **Mellikov, Enn**; Meissner, Dieter Abstracts of the First Gerischer Symposium on Semiconductor Electrochemistry, 1999 1999 / p. 8

CdS kilede saamine ja legeerimine keemilise pihustamise meetodil
Mell, U.; **Krunks, Malle** XXXII üliõpilaste teaduslik-tehnilise konverentsi ettekannete teesid : pühendatud V. I. Lenini 110. sünniaastapäevale : 16.-18. aprill 1980 1981 / lk. 123 https://www.ester.ee/record=b1322611*est

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

Characterization of nanoporous TiO2 films prepared by sol-gel method
Sabataityte, Julija; **Oja, Ilona**; Lenzmann, Frank; **Volobujeva, Olga**; **Krunks, Malle** Comptes rendus chemie 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 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 sprayed large grain CuInS2 as absorbers for solar cells
Krunks, Malle; **Mere, Arvo**; **Kijatkina, Olga**; **Rebane, Helen**; **Mikli, Valdek** 20-th NSM : Tampere, 2003 2003

Characterization of 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

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

Chemical purity of chemically sprayed thin films

Bijakina, Olga; **Krunks, Malle**; **Mellikov, Enn** EUROMAT 99. Volume 9, Interface controlled materials 2000 / p. 85-89
https://onlinelibrary.wiley.com/doi/abs/10.1002/352760622X.ch14

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 deposition of zinc oxide nanostructured layers from zinc acetate solutions
Dedova, Tatjana; **Klauson, Jelena**; Badre, C.; Pauporte, Th.; **Nisumaa, Reet**; **Mere, Arvo**; **Volobujeva, Olga**; **Krunks, Malle**
Physica status solidi (a) : applications and materials science 2008 / 10, p. 2355-2359 : ill
https://onlinelibrary.wiley.com/doi/abs/10.1002/pssa.200779440

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

Combinative solution processing and Li doping approach to develop p-type NiO thin films with enchanced 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 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Comparative study of CdS films annealed in neutral, oxidizing and reducing atmospheres
Maticiuc, Natalia; **Kukk, Mart**; **Spalatu, Nicolae**; **Potlog, Tamara**; **Krunks, Malle**; **Valdna, Vello**; **Hiie, Jaan** Energy procedia 2014 / p. 77-84 : ill https://doi.org/10.1016/j.egypro.2013.12.012 Conference proceedings at Scopus Article at Scopus Article at WOS

A comparative study on physical properties of Al-doped zinc oxide thin films deposited from zinc acetate and zinc acetylacetonate by spray pyrolysis
Eensalu, Jako Siim; **Krunks, Malle**; **Gromõko, Inga**; **Katerski, Atanas**; **Mere, Arvo** Energetika 2017 / p. 46-55 : ill
https://doi.org/10.6001/energetika.v63i2.3519 Journal metrics at Scopus Article at Scopus

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

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 and structure of CuInS2 films prepared by spray pyrolysis
Krunks, Malle; **Mikli, Valdek**; **Bijakina, Olga**; **Rebane, Helen**; **Mere, Arvo**; **Varema, Tiit**; **Mellikov, Enn** EMRS Spring Meeting : Strasbourg, June 1-4, 1999 : book of abstracts 1999 / p. O-13 https://www.sciencedirect.com/science/article/abs/pii/S0040609099008354

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

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

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

Copper indium disulfide films by chemical spray pyrolysis for photovoltaics
Krunks, 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

Copper sulfides by chemical spray pyrolysis process
Krunks, Malle; **Mellikov, Enn**; **Bijakina, Olga** Physica scripta 1997 / p. 189-192

Copper sulfides by chemical spray pyrolysis process

Krunks, Malle; **Mellikov, Enn**; Bijakina, Olga Abstracts of 17th Nordic Semiconductor Meeting, June 17-20, 1996, Trondheim, Norway 1996 / p. 62-63

Corrigendum to "An alternative chlorine-assisted optimization of CdS/Sb2Se3 solar cells: Towards understanding of chlorine incorporation mechanism" [J. Alloy. Compd. 1005 (2024) 176175](S0925838824027622)(10.1016/j.jallcom.2024.176175)
Vadakkedath Gopi, Sajeesh; **Spalatu, Nicolae**; **Katerski, Atanas**; Kuliček, Jaroslav; Rezek, Bohuslav; Ukraintsev, Egor; Bařinková, Markéta Šlapal; Zoppi, Guillaume; **Krunks, Malle**; **Acik, Ilona Oja** Journal of alloys and compounds 2024 / art. 176729, 1 p https://doi.org/10.1016/j.jallcom.2024.176729 Journal metrics at Scopus Article at Scopus

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**; **Krunks, 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; **Krunks, Malle**; **Oja Acik, Ilona** WCPEC-8 : 8th World Conference on Photovoltaic Energy Conversion 2022 / p. 470-473 https://doi.org/10.4229/WCPEC-82022-2BV.2.70

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

Cost-effective sprayed CuInS2 films for solar cells
Blums, J.; **Krunks, 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**; **Krunks, Malle**; **Mere, Arvo**; **Raudoja, Jaan**; Goossens, A. Thin solid films 2005 / p. 82-86 : ill

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

CuInS2 kilede koostise uurimine XPS meetodil
Katerski, Atanas; **Danilson, Mati**; **Mere, Arvo**; **Krunks, Malle** XXXI Eesti keemiapäevad : [28. aprill 2010, Tallinn] : teaduskonverentsi teesid = 31st Estonian Chemistry Days : abstracts of scientific conference 2010 / lk. 41

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

CuInS2 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 sprayed films on different metal oxide underlayers
Kijatkina, Olga; **Krunks, Malle**; **Mere, Arvo**; Mahrov, B.; Dloczik, L. EMRS 2002, B/PI 2002 / p. 11

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

Deposition of copper indium disulphide films by chemical spray pyrolysis
Kijatkina, Olga 2004 https://www.ester.ee/record=b1926863*est

Deposition of In2S3 thin films by chemical spray pyrolysis = In2S3 õhukesed kiled keemilise pihustuspürolüüsi meetodil
Otto, Kairi 2012 https://www.ester.ee/record=b2887804*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 https://doi.org/10.1016/j.vacuum.2014.02.013 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Deposition of SbISI thin films by ultrasonic spray pyrolysis for photovoltaic applications = Päikesepatareides rakendatavate SbISI õhukeste kilede sadestamine ultrahelipihustuspürolüüsi meetodil
Eensalu, Jako Siim 2022 https://doi.org/10.23658/taltech.1/2022 https://digikogu.taltech.ee/et/Item/6c2df448-6e67-496b-9e31-87205057d560 https://www.ester.ee/record=b5492121*est

Determination of charge carrier density in zinc oxide nanorods prepared by chemical spray pyrolysis
Kärber, Erki; **Dedova, Tatjana**; **Oja Acik, Ilona**; **Krunks, Malle**; **Mere, Arvo**; **Mikli, Valdek** Proceedings of CYSENI 2010 : the 7th Annual Conference of Young Scientists on Energy Issues : May 27-28, 2010, Kaunas, Lithuania 2010 / p. 340-344

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

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

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

Development of CdTe absorber layer for thin-film solar cells = CdTe absorberkile arendamine õhukesekilelistele päikesepatareidele
Spalatu, Nicolae 2017 https://digi.lib.ttu.ee/i/?7230 https://www.ester.ee/record=b4649791*est

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

Development of semi-transparent SbISI solar cells with fluorene-based compounds as hole transport materials = Poolläbipaistvate SbISI päikesepatareide arendus : fluoreenipõhised ühendid aukude transportkihi materjalina
Juneja, Nimish 2024 https://www.ester.ee/record=b5712253*est https://digikogu.taltech.ee/et/Item/f10c197f-3140-40cb-97c6-64a4670d4d1b https://doi.org/10.23658/taltech.68/2024

Development of spray pyrolysis-synthesised Bi2O3 thin films for photocatalytic applications
Sydorenko, Jekaterina; **Krunks, Malle**; **Katerski, Atanas**; Grzibovskis, Raitis; Vembris, Aivars; Mere, Arvo; **Spalatu, Nicolae**; **Oja Acik, Ilona** RSC advances 2024 / p. 19648-19657 https://doi.org/10.1039/D4RA02907K Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

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 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 of ZNO nanorods and NIO film based photocatalysts by solution methods for degradation of dyes in aqueous solution
Chen, Zengjun; **Dedova, Tatjana**; **Krunks, Malle** Graduate School of Functional Materials and Technology (GSFMT) Scientific Conference : abstracts 2022 / 13 p Graduate School of Functional Materials and Technology (GSFMT) Scientific Conference 2022

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 https://doi.org/10.1007/s00339-016-9874-4 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at

WOS

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

Eesti materjaliuurijate tegevus õhukesekileliste päikesepatareide arendamisel
Krunks, Malle Keskkonnatehnika 2006 / 5, lk. 6-11 : ill https://artiklid.elnet.ee/record=b2055517*est

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

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

Effect of 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 solution composition on anatase to rutile transformation of sprayed TiO2 thin films
Juma, Albert Owino; **Oja Acik, Ilona**; **Mikli, Valdek**; **Mere, Arvo**; **Krunks, Malle** Thin solid films 2015 / p. 287-292 : ill https://doi.org/10.1016/j.tsf.2015.03.036 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Effect of solution spray rate on the properties of chemically sprayed ZnO:In thin films
Kriisa, Merike; **Krunks, Malle**; **Kärber, Erki**; **Kukk, Mart**; **Mikli, Valdek**; **Mere, Arvo** Journal of nanomaterials 2013 / p. 1-9 : ill https://doi.org/10.1155/2013/423632 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Effect of substrate morphology on the nucleation and growth of ZnO nanorods prepared by spray pyrolysis
Dedova, Tatjana; **Oja Acik, Ilona**; **Krunks, Malle**; **Mikli, Valdek**; **Volobujeva, Olga**; **Mere, Arvo** Thin solid films 2012 / p. 4650-4653 : ill https://www.sciencedirect.com/science/article/abs/pii/S0040609011020827

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**; **Gromõko, Inga**; **Mikli, Valdek**; Sildos, Ilmo; Utt, Kathriin; Unt, Tarmo Physica status solidi (a) : applications and materials science 2014 / p. 514-521 : ill https://doi.org/10.1002/pssa.201300215 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

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 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://fmtdk.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

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

Junolainen, Agne; **Oja Acik, Ilona**; **Mikli, Valdek**; **Krunks, Malle** E-MRS 2011 Spring Meeting : program and book of abstracts. Symp. D : Nice, May 9-13, 2011 2011 / p. 18

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

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

Electrical properties of sprayed CuInS2 films for solar cells
Mere, Arvo; **Kijatkina, Olga**; **Rebane, Helen**; **Krustok, Jüri**; **Krunks, Malle** Journal of physics and chemistry of solids 2003 / Issues 9/10, p. 2025-2029 : ill

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

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

Electrodeposited ZnO morphology transformations under the influence of SeO2 additive: Rods, disks, nanosheets network
Gromõko, Inga; **Dedova, Tatjana**; **Polivtseva, Svetlana**; **Kois, Julia**; Puust, Laurits; Sildos, Ilmo; **Mere, Arvo**; **Krunks, Malle** Thin solid films 2018 / p. 10-15 : ill https://doi.org/10.1016/j.tsf.2017.12.004 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

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

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

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

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

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

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

Evolved gas analysis of dichlorobis(thiourea)zinc(II) by coupled TG-FTIR and TG/DTA-MS techniques
Madarasz, Janos; **Krunks, Malle**; Niinistö, Lauri; Pokol, György Journal of thermal analysis and calorimetry 2004 / p. 679-686 : ill

https://link.springer.com/article/10.1023/B:JTAN.0000046127.69336.90

Excitonic emission in heavily Ga-doped zinc oxide films grown on GaN
Shtepliuk, I.; Khranovskyy, D.; Gogova, D.; **Danilson, Mati**; **Krunks, Malle** Journal of luminescence 2020 / art. 117265, 10 p. : ill https://doi.org/10.1016/j.jlumin.2020.117265 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Extremly 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

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

Formation and properties of chemically sprayed Zno films
Krunks, Malle; **Mellikov, Enn**; Bijakina, Olga; **Varema, Tiit**; Meissner, Dieter International Conference Advanced Optical Materials and Devices, Riga, 1996 1996 / p. 193

Formation and properties of chemically sprayed ZnO films
Krunks, Malle; **Mellikov, Enn**; **Bijakina, Olga**; **Varema, Tiit**; Meissner, Dieter Optical organic and semiconductor inorganic materials 1997 / p. 129-134

Formation and recrystallization of CuInS2 films in spray pyrolytic process
Krunks, Malle; **Bijakina, Olga**; **Mikli, Valdek**; **Varema, Tiit** 24th Estonian Chemistry Days : abstracts of scientific conference 1998 / p. 33

Formation of A II B VI films by spray pyrolysis
Krunks, Malle; **Mellikov, Enn**; **Sork, Eeve**; **Iljina, Natalja** Journal of materials and product. technology 1991

Formation of A2B6 films by spray pyrolysis
Krunks, Malle; **Mellikov, Enn** Chair of Semiconductor Materials Technology : activity report, 1988-1993 1994 / p. 28-30

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 in spray pyrolysis as simulated by thermal analysis
Krunks, Malle; Leskelä, Tuula; Niinistö, Lauri Japanese journal of applied physics 2000 / p. 181-186

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

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

Fundamental studies for improved photovoltaic materials and devices
Mellikov, Enn; **Krunks, Malle**; **Altosaar, Mare**; **Krustok, Jüri**; **Valdna, Vello** Proceedings of International Conference QUANTSOL'99 : Wildhaus, Switzerland, 1999 1999 / p. 41-45

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

Growth and electrical properties of ZnO nanorod arrays prepared by chemical spray pyrolysis
Krunks, Malle; **Dedova, Tatjana**; Kärber, Erki; **Mikli, Valdek**; **Oja Acik, Ilona**; **Grossberg, Maarja**; **Mere, Arvo** Physica B 2009 / p. 4422-4425 : ill

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 https://doi.org/10.1016/j.tsf.2013.05.150 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

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 and recrystallization of CuInS2 films in spray pyrolytic process
Krunks, Malle; **Mikli, Valdek**; **Bijakina, Olga**; **Varema, Tiit**; **Mellikov, Enn** Ninth International Conference on Solid Films and Surfaces : ICSFS-9 : July 6th - 10th, 1998, Copenhagen, Denmark : final program & the book of abstracts 1998 / p. P1.CG.13 https://ui.adsabs.harvard.edu/abs/1999ApSS..142..356K/abstract

Growth of zinc oxide nanostructured layers on SnO2 electrodes by spray pyrolysis
Dedova, Tatjana; **Volobujeva, Olga**; **Gromõko, Inga**; **Mikli, Valdek**; **Mere, Arvo**; **Krunks, Malle** TÜ ja TTÜ doktorikool "Funktsionaalsed materjalid ja tehnoloogiad" 2013 / [1] p

Growth of ZnO rods on FTO electrodes by spray pyrolysis
Dedova, Tatjana; **Volobujeva, Olga**; **Krunks, Malle**; **Mikli, Valdek**; **Gromõko, Inga**; **Katerski, Atanas**; **Mere, Arvo** IOP conference series : materials science and engineering 2013 / [4] p. : ill https://doi.org/10.1088/1757-899X/49/1/012001 Conference Proceedings at Scopus Article at Scopus Article at WOS

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

Hierarchical nanostructures of ZnO obtained by spray pyrolysis
Dedova, Tatjana; **Krunks, Malle**; **Oja Acik, Ilona**; **Klauson, Deniss**; **Volobujeva, Olga**; **Mere, Arvo** Materials chemistry and physics 2013 / p. 69-75 : ill https://doi.org/10.1016/j.matchemphys.2013.04.026 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

High efficient photovoltaics in Estonia
Altosaar, Mare; **Bereznev, Sergei**; **Kauk, Marit**; **Krunks, Malle**; **Krustok, Jüri**; **Mellikov, Enn**; **Raudoja, Jaan**; **Varema, Tiit** Proc. 3rd Workshop held at JRC Ispra, 2-3 Oct. 2003 2004 / p. 179-190

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://fmtdk.ut.ee/teesid-2018/

High-κ metal oxide thin film by chemical spray pyrolysis : from optimization of material properties to application in thin film transistor = Metallioksiidi õhukesed kiled keemilise pihustuspürolüüsi meetodil : materjali omaduste optimeerimine ja rakendamine õhukesekilelistes transistorides
Oluwabi, Abayomi Titilope 2020 https://digikogu.taltech.ee/et/Item/4b6d9afd-74d2-40ac-9c12-335d2f608474 https://www.ester.ee/record=b5362429*est

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

Impacts of different solvents and substrates on properties of zinc oxide nanorod layers prepared by chemical spray pyrolysis
Annert, Katre; **Vent, Merike**; **Dedova, Tatjana**; **Kärber, Erki**; **Oja Acik, Ilona**; **Volobujeva, Olga**; **Mere, Arvo**; **Krunks, Malle**; **Mikli, Valdek** Proceedings of CYSENI 2010 : the 7th Annual Conference of Young Scientists on Energy Issues : May 27-28, 2010, Kaunas, Lithuania 2010 / p.301-309

In2S3 kilede moodustumine pihustuspürolüüsi protsessis : termoanalüütiline 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

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

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

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

Influence of Na doping on opto-electrical properties of CdTe:Cl
Altosaar, Mare; **Kukk, Peeter-Enn**; **Raudoja, Jaan**; **Krustok, Jüri**; **Krunks, Malle**; **Mellikov, Enn**; **Raudoja, Jaan vt.ka Mädasson, Jaan** 11th International Photovoltaic Science and Engineering Conference : Sept. 20-24/1999, Hokkaido, Japan : technical digest 1999 / p. 457-458: ill

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 solution composition on sprayed ZnO nanorods properties and formation process: Thermoanalytical study of the precursors
Dedova, Tatjana; **Oja Acik, Ilona**; **Polivtseva, Svetlana**; **Krunks, Malle**; **Gromõko, 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 secondary thermal annealing on the properties of CdTe/CdS:CdCl2:O2 structure
Yang, Wangjun; **Spalatu, Nicolae**; **Maticiuc, Natalia**; **Krunks, Malle**; **Hiie, Jaan** Proceedings of 13th International Conference of Young Scientists on Energy Issues : CYSENI 2016 : May 26-27 2016, Kaunas, Lithuania 2016 / p. VII-220 - VII-225 : ill

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

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

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

In-situ deposition of gold nanoparticles onto different substrates by chemical spray pyrolysis
Oja Acik, Ilona; **Oyekoya, Gboyega Nathaniel**; **Mere, Arvo**; **Katerski, Atanas**; **Mikli, Valdek**; **Krunks, Malle** IOP conference series : materials science and engineering 2015 / 5 p. : ill https://doi.org/10.1088/1757-899X/77/1/012009 Conference proceedings at Scopus Article at Scopus Article at WOS

Interaction of Chrysosporium merdarium with titanium oxide surface
Binkauskiene, Elena; Lugauskas, Albinas; **Krunks, Malle**; **Oja Acik, Ilona**; Jasulaitiene, Vitalija; Saduikis, Gintautas Synthetic metals 2010 / 9/10, p. 906-910 : ill https://www.sciencedirect.com/science/article/abs/pii/S0379677910000652

Interaction of fungus with titanium oxide surface
Binauskiene, E.; Lugauskas, Albinas; **Krunks, Malle**; **Oja Acik, Ilona**; Jasulaitiene, Vitalija; Šaduikis, G. 9th National Lithuanian Conference : Vilnius, October 16, 2009 2009 / p. 88

Intermediate compounds in formation of copper sulfides by spray pyrolysis
Krunks, Malle; **Mellikov, Enn**; **Bijakina, Olga** Proceedings of the Estonian Academy of Sciences. Engineering 1996 / 1, p. 98-106: ill

Intervjuu EV teaduspreemia laureaadi Malle Krunksiga
Krunks, Malle; **Ummelas, Mart** Mente et Manu 2009 / 20. märts, lk. 3 : fot. ; 3. aprill, lk. 1, 2 : fot
https://www.ester.ee/record=b1242496*est

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

Inx(OH)ySz as recombination barrier in TiO2/inorganic absorber heterojunctions
Wienke, J.; **Krunks, Malle**; Lenzmann, F. Semiconductor science and technology 2003 / p. 876-880 : ill
https://iopscience.iop.org/article/10.1088/0268-1242/18/9/311

Kaadmiumi, tsingi ja vase kloriidide tiokarbamiidsete ühendite termiline lagunemine
Krunks, Malle; Liiders, M.; Leskelä, T.; Niinistö, L. XXVI Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid = 26th Estonian Chemistry Days : abstracts of scientific conference 2000 / lk. 67

Keemia- ja materjalitehnoloogia teaduskond
Kaps, Tiit; **Mölder, Leevi**; **Christjanson, Peep**; **Mellikov, Enn**; **Krunks, Malle**; **Munter, Rein**; **Uus, Endel**; **Tearo, Eduard**; **Kuusik, Rein, keemik**; **Kreen, Malle**; **Viikna, Anti**; **Soone, Jüri** Leiutajaid ja leiutisi Tallinna Tehnikaülikoolis 1922-2007 2008 / lk. 48-71 : ill https://www.ester.ee/record=b2412718*est

Keemiliselt pihustatud CuInS2 kiled siledatel ja poorsetel elektroodidel
Kijatkina, Olga; **Krunks, Malle**; **Mere, Arvo** XXVIII Eesti keemiapäevad : teaduskonverentsi ettekannete teesid = 28th Estonian Chemistry Days : abstracts of scientific conference 2002 / lk. 55

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

Low processing temperatures explored in Sb2S3 solar cells by close-spaced sublimation and analysis of bulk and interface related defects
Krautmann, Robert; **Spalatu, Nicolae**; **Josepson, Raavo**; Nedzinskas, Ramunas; Kondrotas, Rokas; Gržibovskis, R.; Vembris, Aivars; **Krunks, Malle**; **Oja Acik, Ilona** Solar energy materials and solar cells 2023 / art. 112139, 9 p. : ill
https://doi.org/10.1016/j.solmat.2022.112139 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

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

Luminescent materials based on thin metal oxide films doped with rare Earth ions
Kanarjov, P.; Reedo, Valter; **Oja Acik, Ilona**; Matisen, L.; Vorobjov, A.; Kiisk, Valter; **Krunks, Malle**; Sildos, Ilmo Physics of the solid state 2008 / 9, Proceedings of the XIII Feofilov Symposium "Spectroscopy of Crystals Doped by Rare-Earth and Transition-Metal Ions" (Irkutsk, July 9-13, 2007). p. 1727-1730 : ill https://link.springer.com/article/10.1134/S1063783408090278

Läbipaistvate ja elektrit juhtivate ZnO kilede valmistamine keemilise pihustamise meetodil

Vent, Merike; **Kärber, Erki**; **Volobujeva, Olga**; **Krunks, Malle** XXXI Eesti keemiapäevad : [28. aprill 2010, Tallinn] : teaduskonverentsi teesid = 31st Estonian Chemistry Days : abstracts of scientific conference 2010 / lk. 82

Maailmateadus Kopli liinidel : Tehnikaülikooli teadlased otsivad võimalust, kuidas päikesest odavamalt elektrit teha : [töörühm: Enn Mellikov (juht), Malle Krunks, Mare Altosaar, Jüri Krustok ja Vello Valdna oma uurimistööst]
Mellikov, Enn; **Krunks, Malle**; **Altosaar, Mare**; **Krustok, Jüri**; **Valdna, Vello**; Kändler, Tiit Eesti Päevaleht 1998 / 14. jaan., lk. 10 : ill., fot

Malle Krunks : kõige uhkem olen järelkasvu üle
Krunks, Malle Mente et Manu 2018 / lk. 12-17 : fot https://www.ttu.ee/ttu-uudised/ajaleht-mente-et-manu/mente-et-manu/ http://www.ester.ee/record=b1242496*est https://artiklid.elnet.ee/record=b2836021*est

Malle Krunks: teadlane ei ole amet, vaid elustiil
Krunks, Malle Mente et Manu 2025 / lk. 28-29 : fot https://www.ester.ee/record=b1242496*est

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

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

Metal complexes as precursors for thin films deposited by chemical spray pyrolysis
Krunks, 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
Krunks, Malle; **Mellikov, Enn** Proceedings of SPIE 2001 / p. 60-65

Metal sulfide thin films by chemical spray pyrolysis
Krunks, Malle; **Mellikov, Enn** Abstracts of International Conference Advanced Optical Materials and Devices 2000 / p. 37

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 https://doi.org/10.1186/1556-276X-9-494 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

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

Monograin layer solar cells
Altosaar, Mare; **Jagomägi, Andri**; **Kauk, Marit**; **Krunks, Malle**; **Krustok, Jüri**; **Mellikov, Enn**; **Raudoja, Jaan**; **Varema, Tiit** E-MRS Spring Meeting 2002 : June 18-21, 2002. Symposium B, Thin Film Chalcogenide Photovoltaic Materials 2002 / p. B-29

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

Monoteralised pooljuhtpulbrid päikeseenergeetikale = Monograin semiconductor powders for solar energetics
Hiie, Jaan; **Altosaar, Mare**; **Krunks, Malle**; **Mellikov, Enn** XVII Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid = 17th Estonian Chemistry Days : abstracts of scientific conference 1996 / lk. 39-40 https://www.ester.ee/record=b1070511*est

Multiple secondary interaction arrangement in the crystal structure of cis-dichlorobis(thiourea-S)-zinc(II)
Bombicz, Petra; Madarasz, Janos; **Krunks, Malle**; Niinistö, Lauri; Pokol, György Journal of coordination chemistry 2006 / [8] p
https://www.tandfonline.com/doi/full/10.1080/00958970600873604

Multiple secondary interaction arrangement in the crystal structure of cis-dichlorobis(thiourea-S)-zinc(II)
Bombicz, Petra; Madarasz, Janos; **Krunks, Malle**; Niinistö, Lauri; Pokol, György Journal of coordination chemistry 2007 / 4, p. 457-464 https://www.tandfonline.com/doi/abs/10.1080/00958970600873604

Nanocrystalline thin films by chemical methods

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

Nanostructured layers of ZnS obtained by spray pyrolysis
Dedova, Tatjana; **Gromõko, Inga**; **Mikli, Valdek**; **Volobujeva, Olga**; Utt, Kathriin; 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 solar cell based on spray pyrolysis deposited ZnO nanorod array
Krunks, Malle; **Katerski, Atanas**; **Dedova, Tatjana**; **Oja Acik, Ilona**; **Mere, Arvo** Solar energy materials & solar cells 2008 / p. 1016-1019 : ill https://www.sciencedirect.com/science/article/pii/S0927024808000871

Nanostructured solar cell by spray pyrolysis : effect of titania barrier layer on the cell performance
Oja Acik, Ilona; **Katerski, Atanas**; **Mere, Arvo**; Aarik, Jaan; Aidla, Aleks; **Dedova, Tatjana**; **Krunks, Malle** Thin solid films 2009 / p. 2443-2447 : ill https://doi.org/10.1016/j.tsf.2008.11.018

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

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, Stara Lesna, Slovak Republic : book of abstracts 2006 / p. 57

Nature of the native deep localized defect recombination centers in the chalcopyrite and orthorhombic AgInS2
Krustok, Jüri; **Raudoja, Jaan**; **Krunks, Malle**; Mändar, H.; Collan, Heikki Journal of applied physics 2000 / 1, p. 205-209 : ill https://pubs.aip.org/aip/jap/article/88/1/205/486608/Nature-of-the-native-deep-localized-defect

New concepts and materials for sustainable photovoltaics
Krunks, Malle SustainChem2011 : International Conference on Materials and Technologies for Green Chemistry jointly with Workshop of COST Action CM0903 (UBIOCHEM-II) : September 5-9, 2011, Tallinn, Estonia : abstract book and program 2011 / p. 24

Nickel oxide films by chemical spray : effect of deposition temperature and solvent type on structural, optical, and surface properties
Chen, Zengjun; **Dedova, Tatjana**; **Oja Acik, Ilona**; **Danilson, Mati**; **Krunks, Malle** Applied surface science 2021 / art. 149118 https://doi.org/10.1016/j.apsusc.2021.149118 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

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://fmtdk.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

Noble metal nanoparticles for improvement of fluorescent and photovoltaic materials
Dolgov, Leonid; **Oja Acik, Ilona**; **Mere, Arvo**; **Krunks, Malle**; **Mikli, Valdek** The international summer school "Nanotechnology: from fundamental research to innovations" and International research and practice conference "Nanotechnology and nanomaterials" (NANO-2013), 25 August-1 September, 2013, Bukovel, Ukraine : book of abstracts 2013 / p. 352

A novel deposition method to grow ZnO nanorods : spray pyrolysis
Dedova, Tatjana; **Krunks, Malle**; **Grossberg, Maarja**; **Volobujeva, Olga**; **Oja Acik, Ilona** Superlattices and microstructures 2007 / p. 444-450 : ill

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

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 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

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

Photocatalytic degradation of different VOCs in the gas-phase over TiO2 thin gilms 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://fmtdk.ut.ee/wp-content/uploads/2020/01/GSFMT2020.pdf

Photoconductive CdS and CdSxSe1-x and CdSexTe1-x powders and layers for microwave optoelectronic antennas
Hiie, Jaan; **Altosaar, Mare**; **Krunks, Malle**; **Mellikov, Enn** International Conference Advanced Optical Materials and Devices, Riga, 1996 1996 / p. 195

Photoconductive CdS and CdSxSe1-x layers for microwave range
Hiie, Jaan; **Krunks, Malle**; **Mellikov, Enn**; **Veel, Ene** 9th international symposium of the Technical Committee on Photon-Detectors, International Measurement Confederation : Visegrád, Hungary, 9 - 12 September, 1980 : abstracts 1980 / p. 12-13

Photoconductive ternary CdSxSe1-x and CdSexTe1-x powders and layers for microwave detectors
Hiie, Jaan; **Altosaar, Mare**; **Krunks, Malle**; **Mellikov, Enn** Book of Abstracts of the 11th International Conference on Ternary & Multinary Compounds, 8-12 September 1997, Salford, England 1997 / p. 1.44

Photoelectrochemistry of CdSexTe1-x
Wirts, C.; **Altosaar, Mare**; **Krunks, Malle**; **Varema, Tiit**; **Mellikov, Enn**; Meissner, Dieter Proceedings of International Conference QUANTSOL'99 : Wildhaus, Switzerland, 1999 1999 / p. 15-18

Photoluminescence and Raman spectroscopy of polycrystalline AgInTe2
Jagomägi, Andri; **Krustok, Jüri**; **Raudoja, Jaan**; **Grossberg, Maarja**; **Oja, Ilona**; **Krunks, Malle**; **Danilson, Mati** Thin solid films 2005 / p. 246-249 : ill

Photoluminescence and Raman spectroscopy of polycrystalline AgInTe2
Jagomägi, Andri; **Krustok, Jüri**; **Raudoja, Jaan**; **Grossberg, Maarja**; **Oja, Ilona**; **Krunks, Malle**; **Danilson, Mati** Thin solid films 2005 / p. 246-249 : ill

Photoluminescence of spray pyrolysis deposited ZnO nanorods
Kärber, Erki; **Raadik, Taavi**; **Dedova, Tatjana**; **Krustok, Jüri**; **Mere, Arvo**; **Mikli, Valdek**; **Krunks, Malle** Nanoscale research letters 2011 / [7] p.: ill

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

Pihustuspürolüüsi meetodil sadestatud CuInS2 kilede lähteainete termiline lagunemine
Mere, Arvo; **Oja Acik, Ilona**; **Otto, Kairi**; **Krunks, Malle**; **Tõnsuaadu, Kaia** XXXIII Eesti Keemiapäevad : teaduskonverentsi teesid 2013 / lk. 46

Pihustuspürolüüsi meetodil vaserikastest lahustest valmistatud CuInS2 kilede omadused
Rebane, Helen; **Kijatkina, Olga**; **Mikli, Valdek**; Leomar, Hedi; **Krunks, Malle** XXVIII Eesti keemiapäevad : teaduskonverentsi

ettekannete teesid = 28th Estonian Chemistry Days : abstracts of scientific conference 2002 / lk. 111

Plasmon resonance effect caused by gold nanoparticles formed on titanium oxide films
Tamm, Aile; **Oja Acik, Ilona**; **Krunks, Malle**; **Mere, Arvo** Thin solid films 2016 / p. 449-455 : ill https://doi.org/10.1016/j.tsf.2016.08.059 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

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

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

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

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

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

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 https://doi.org/10.1016/j.mee.2014.07.016 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Plasmonic TiO2:Au composite layers deposited in situ by chemical spray pyrolysis
Oja Acik, Ilona; **Oyekoya, Gboyega Nathaniel**; **Mere, Arvo**; Loot, Ardi; Dolgov, Leonid; **Mikli, Valdek**; **Krunks, Malle**; Sildos, Ilmo Surface and coatings technology 2015 / p. 27-31 : ill https://doi.org/10.1016/j.surfcoat.2015.01.036 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

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

A post-deposition annealing approach for organic residues control in TiO2 and its impact on Sb2Se3/TiO2 device performance
Koltsov, Mykhailo; **Krautmann, Robert**; **Katerski, Atanas**; Maticiuc, Natalia; **Krunks, Malle**; **Oja Acik, Ilona**; **Spalatu, Nicolae** Faraday Discussions 2022 / p. 273-286 https://doi.org/10.1039/D2FD00064D Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

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

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

Post-deposition thermal treatment of sprayed SnS films
Polivtseva, Svetlana; **Katerski, Atanas**; **Kärber, Erki**; **Oja Acik, Ilona**; **Mere, Arvo**; **Mikli, Valdek**; **Krunks, Malle** Thin solid films 2017 / p. 179-184 : ill https://doi.org/10.1016/j.tsf.2017.01.014 Journal metrics at Scopus Article at Scopus Journal metrics at WOS

Article at WOS

Post-deposition thermal treatment of sprayed SnS films [Online resource]
Polivtseva, Svetlana; **Katerski, Atanas**; **Kärber, Erki**; **Oja Acik, Ilona**; **Mere, Arvo**; **Mikli, Valdek**; **Krunks, Malle** Tartu Ülikooli ASTRA projekt PER ASPERA : Funktsionaalsed materjalid ja tehnoloogiad : [7-8 märts 2017, Tartu : teesid] 2017 / [1] p http://fmtdk.ut.ee/teesid/

Preparation of shape and size-controlled zinc oxide nanostructures by chemical spray pyrolysis technique
Dedova, Tatjana; **Krunks, Malle**; **Mere, Arvo**; **Klauson, Jelena**; **Volobujeva, Olga** Materials Research Society symposium proceedings 2007 / p. 0957-K10-26 [7 p.]

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

Properties of 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/InISI/CuInSI solar cell and the constituent layers deposited by chemical spray method = Keemilise pihustuse meetodil sadestatud ZnO-nanovarras/InISI/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**; **Maticiuc, Natalia**; **Krunks, Malle**; **Mikli, Valdek** TÜ ja TTÜ doktorikool "Funktsionaalsed materjalid ja tehnoloogiad" : 04.-05. märts 2014, Tartu 2014 / [1] p

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

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

Päikeseenergeetika materjalid
Mellikov, Enn; **Altosaar, Mare**; **Bereznev, Sergei**; **Kauk, Marit**; **Krunks, Malle**; **Krustok, Jüri**; **Mere, Arvo**; **Raudoja, Jaan**; **Varema, Tiit**; **Öpik, Andres** Teaduse uued suunad : materjaliteadus : Eesti Teaduste Akadeemia seminari materjalid : 23.10.2003 2004 / lk. 11-21 : ill

Päikeseenergeetika materjalide alased uuringud Tallinna Tehnikaülikoolis
Mellikov, Enn; **Altosaar, Mare**; **Varema, Tiit**; **Krunks, Malle** Taastuvate energiaallikate uurimine ja kasutamine : esimese konverentsi kogumik : [4. november 1999, Tartu] = Investigation and Usage of Renewable Energy Sources : first conference proceedings : [4 November 1999, Tartu] 2000 / lk. 26-31

Päikeseenergeetika materjalide uuringud Eestis
Kauk-Kuusik, Marit; **Grossberg, Maarja**; **Oja Acik, Ilona**; **Krunks, Malle** Teadusmõte Eestis (X). Tehnikateadused. 3 : [artiklikogumik] 2019 / lk. 59-65 : ill., fot https://www.ester.ee/record=b5208765*est

Raman spectroscopic study of In2S3 films prepared by spray pyrolysis
Kärber, Erki; **Otto, Kairi**; **Katerski, Atanas**; **Mere, Arvo**; **Krunks, Malle** Materials science in semiconductor processing 2014 / p. 137-142 : ill https://doi.org/10.1016/j.mssp.2013.10.007 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Research in solar cell technologies at Tallinn University of Technology
Mellikov, Enn; **Altosaar, Mare**; **Krunks, Malle**; **Krustok, Jüri**; **Varema, Tiit**; **Volobujeva, Olga**; **Grossberg, Maarja**; **Kaupmees, Liina**; **Dedova, Tatjana**; **Timmo, Kristi**; **Ernits, Kaia**; **Kois, Julia**; **Oja Acik, Ilona**; **Danilson, Mati**; **Bereznev, Sergei** Thin solid films 2008 / 20, p. 7125-7134 : ill

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

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

Sb2S3 solar cells with a cost-effective and dopant-free fluorene-based enamine as a hole transport material
Juneja, Nimish; **Mandati, Sreekanth**; **Katerski, Atanas**; **Spalatu, Nicolae**; Daskeviciute-Geguziene, Sarune; Vembris, Aivars; Karazhanov, Smagul; Getautis, Vytautas; **Krunks, Malle**; **Oja Acik, Ilona** Sustainable Energy & Fuels 2022 / p. 3220-3229 https://doi.org/10.1039/D2SE00356B Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Sb2S3 solar cells with TiO2 electron transporting layers synthesized by ALD and USP methods
Dedova, Tatjana; **Krautmann, Robert**; Rusu, Marin; **Katerski, Atanas**; **Krunks, Malle**; Unold, Thomas; **Spalatu, Nicolae**; **Mere, Arvo**; **Sydorenko, Jekaterina**; **Sibinski, Maciej**; **Oja Acik, Ilona** Solar energy materials and solar cells 2025 / art. 113279 https://doi.org/10.1016/j.solmat.2024.113279

SB2S3 thin film solar cells by ultrasonic spray pyrolysis
Eensalu, Jako Siim; **Katerski, Atanas**; **Kärber, Erki**; **Oja Acik, Ilona**; **Krunks, Malle** GSFMT Scientific Conference 2020 : Tallinn, February 4-5, 2020 : abstracts 2020 / p. 22 http://fmtdk.ut.ee/wp-content/uploads/2020/01/GSFMT2020.pdf

Sb2S3 thin films by ultrasonic spray in air : formation and application insolar cells
Krunks, Malle; **Eensalu, Jako Siim**; **Kriisa, Merike**; **Tõnsuaadu, Kaia**; **Katerski, Atanas**; **Hussein, H.**; **Asare, E.**; **Spalatu, Nicolae**; **Oja Acik, Ilona** JTACC+V4 2025 : 4th Journal of Thermal Analysis and Calorimetry Conference &10th V4 (Joint Czech-Hungarian-Polish-Slovak) Thermoanalytical Conference : Book of Abstracts 2025 / p. 86
https://static.akcongress.com/downloads/jtacc/jtacc2025/jtacc2025-boa.pdf

Sb2S3 thin films by ultrasonic spray pyrolysis of antimony ethyl xanthate
Eensalu, Jako Siim; **Tõnsuaadu, Kaia**; **Oja Acik, Ilona**; **Krunks, Malle** Materials science in semiconductor processing 2022 / art. 106209 : ill https://doi.org/10.1016/j.mssp.2021.106209 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

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

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

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

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

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

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

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

Sol-gel deposition of titanium dioxide films = Titaanoksiidi kiled sool-geeli meetodil
Oja Acik, Ilona 2007

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

Spray pyrolysis deposition and characterization of highly c-axis oriented hexagonal ZnS nanorod crystals
Dedova, Tatjana; **Gromõko, Inga**; **Krunks, Malle**; **Mikli, Valdek**; **Grossberg, Maarja**; Sildos, Ilmo; Utt, Kathriin; **Vessart, Risto**; **Unt, Tarmo** Crystal research and technology 2015 / p. 85-92 : ill https://doi.org/10.1002/crat.201400172 Conference proceedings at Scopus Article at Scopus Conference proceedings 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 nanostructured zincoxide films
Krunks, Malle; **Dedova, Tatjana**; **Oja, Ilona** International Conference on Metallurgical Coatings and Thin Films : San Diego, California, May 1-5, 2006 : program and abstracts 2006 / p. 37

Spray pyrolysis deposition of SnxSy thin films
Polivtseva, Svetlana; **Oja Acik, Ilona**; **Katerski, Atanas**; **Mere, Arvo**; **Mikli, Valdek**; **Krunks, Malle** Energy procedia 2014 / p. 156-165 : ill https://doi.org/10.1016/j.egypro.2014.12.358 Conference proceedings at Scopus Article at Scopus Article at WOS

Spray pyrolysis deposition of zinc oxide nanostructured layers
Krunks, Malle; **Dedova, Tatjana**; **Oja Acik, Ilona** Thin solid films 2006 / 3, p. 1157-1160 : ill
https://www.sciencedirect.com/science/article/pii/S0040609006009540

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

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** 11th International Photovoltaic Science and Engineering Conference : Sept. 20-24/1999, Hokkaido, Japan : technical digest 1999 / p. 845-846: ill
https://www.sciencedirect.com/science/article/pii/S0927024800003810

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

Standartization of composition of A2B6 materials
Mellikov, Enn; **Krunks, Malle** Surface and coatings technology 1993 / p. 688-690 https://doi.org/10.1016/0257-8972(93)90320-N

Structural and electrical characterisation of high-k ZrO2 thin films deposited by chemical spray pyrolysis method
Oluwabi, Abayomi Titilope; **Oja Acik, Ilona**; **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 characterization of TiO2 films grown by spray pyrolysis
Oja, Ilona; **Mere, Arvo**; **Krunks, Malle**; **Nisumaa, Reet**; Solterbeck, C.-H.; Es-Souni, M. Thin solid films 2006 / p. 674-677 : ill
https://www.sciencedirect.com/science/article/pii/S0040609005025708

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 electrical properties of spray deposited copper indium disulphide films for solar cells = Pihustussadestatud vaskindiumsulfiidkilede struktuursed ja elektrilised omadused ning rakendus päikesepatareides
Mere, Arvo 2006 https://www.ester.ee/record=b2132571*est

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 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 optoelectronic properties of CdCl2 activated CdTe thin films modified by multiple thermal annealing
Spalatu, Nicolae; **Krunks, Malle**; **Hiie, Jaan** Thin solid films 2017 / p. 106-111 : ill https://doi.org/10.1016/j.tsf.2016.09.042 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

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

Study of zinc thiocarbamide chloride, a single-source precursor for zinc sulfide thin films by spray pyrolysis
Krunks, Malle; Madarasz, Janos; Leskelä, T.; **Mere, Arvo**; Niinistö, L.; Pokol, György Journal of thermal analysis and calorimetry 2003 / 1/2, ESTAC 8 : proceedings of the 8th European Symposium on Thermal Analysis and Calorimetry : Barcelona, Spain, August 25-29, 2002. Volume 2. ISBN 963-05-8044-6. p. 497-506 : ill https://link.springer.com/article/10.1023/A:1024561212883

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

Study of ZnO:In, Zn(O,S) and SbISI thin films deposited by aerosol methods = Aerosoolmeetoditel sadestatud ZnO:In, Zn(O,S) ja SbISI õhukeste kilede uurimine
Kriisa, Merike 2017 https://digi.lib.ttu.ee/i/?7676 https://www.ester.ee/record=b4676437*est

Surface analysis of spray deposited copper indium disulfide films
Katerski, Atanas; **Mere, Arvo**; Kazlauskiene, Vida; Miskinis, Juozas; Saar, Agu; Matisen, Leonard; Kikas, Arvo; **Krunks, Malle** Thin solid films 2008 / p. 7110-7115 : 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 https://doi.org/10.1016/j.tsf.2013.11.125 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

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

Surface properties of sprayed and electrodeposited ZnO rod layers
Gromõko, Inga; **Krunks, Malle**; **Dedova, Tatjana**; **Katerski, Atanas**; **Klauson, Deniss**; **Oja Acik, Ilona** Applied surface science 2017 / p. 521-528 : ill https://doi.org/10.1016/j.apsusc.2017.02.065 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Surface wetting properties of electrodeposited and sprayed ZnO nanorod layers [Online resource]
Gromõko, Inga; **Krunks, Malle**; **Dedova, Tatjana**; **Katerski, Atanas**; **Klauson, Deniss**; **Oja Acik, Ilona** Tartu Ülikooli ASTRA projekt PER ASPERA : Funktsionaalsed materjalid ja tehnoloogiad : [7-8 märts 2017, Tartu : teesid] 2017 / [1] p

http://fmtdk.ut.ee/teesid/

Synthesis control of charge separation at anatase TiO2 thin films studied by transient surface photovoltage spectroscopy
Dittrich, Thomas; **Sydorenko, Jekaterina**; **Spalatu, Nicolae**; Nickel, Norbert H.; **Mere, Arvo**; **Krunks, Malle**; **Oja Acik, Ilona** ACS applied materials & interfaces 2022 / p. 43163-43170 https://doi.org/10.1021/acsami.2c09032 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Synthesis, vibrational spectra and X-ray structures of copper(I) thiourea complexes
Bombicz, Petra; Mutikainen, Ilpo; **Krunks, Malle**; Leskelä, Tuula; Madarasz, Janos; Niinistö, Lauri Inorganica chimica acta 2004 / 2, p. 513-525 https://www.sciencedirect.com/science/article/pii/S0020169303005152

Zinc oxide nanorods grown by spray pyrolysis
Krunks, Malle; **Dedova, Tatjana**; **Mere, Arvo**; Aparina, Jelena; **Grossberg, Maarja** The 4th International Workshop on ZnO and Related Materials : University of Gissen, Germany, Oct.3-6, 2006 2006 / p. 170

Zinc oxide nanostructured layers by chemical spray pyrolysis
Dedova, Tatjana; Aparina, Jelena; **Mere, Arvo**; **Volobujeva, Olga**; **Grossberg, Maarja**; **Krunks, Malle** International Conference : Advances in Nanostructured Materials, Processing - Microstructure - Properties : NANOVED 2006 - NENAMAT : May 14-17, 2006, Stara Lesna, Slovak Republic : book of abstracts 2006 / p. 105

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

Zinc oxide thin films by spray pyrolysis
Krunks, Malle; **Bijakina, Olga**; **Mikli, Valdek**; **Varema, Tiit**; **Mellikov, Enn** 18th Nordic Semiconductor Meeting, Linköping, June 7-10, 1998 : abstracts 1998 / p. H-106

Zinc oxide thin films by spray pyrolysis method
Krunks, Malle; **Mellikov, Enn** Abstracts of International Conference on Metallurgical Coatings and Thin Films, San Diego, 1995 1995 / p. 135 https://www.sciencedirect.com/science/article/abs/pii/0040609095068937

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

Zinc oxide thin films by the spray pyrolysis method
Krunks, Malle; **Mellikov, Enn** Thin solid films 1995 / p. 33-36: 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 https://doi.org/10.1016/j.apsusc.2016.06.093 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

ZnO nanorods grown electrochemically on different metal oxide underlays
Gromõko, Inga; **Dedova, Tatjana**; **Krunks, Malle**; **Sõritski, Vitali**; **Mere, Arvo**; **Mikli, Valdek**; **Unt, Tarmo**; **Oja Acik, Ilona** IOP conference series : materials science and engineering 2015 / p. 1-5 : ill https://doi.org/10.1088/1757-899X/77/1/012012 Conference proceedings at Scopus Article at Scopus Article at WOS

ZnO nanorods via spray deposition of solutions containing zinc chloride and thiocarbamide
Dedova, Tatjana; **Volobujeva, Olga**; **Klauson, Jelena**; **Mere, Arvo**; **Krunks, Malle** Nanoscale research letters 2007 / p. 391-396 : ill https://link.springer.com/article/10.1007/s11671-007-9072-6

ZnO nanostructured layers by wet chemical deposition methods : growth, surface properties, photocatalytic capability = ZnO nanostruktuursed kihid vedeliksadestuse meetoditel : kasvatamine, pinnaomadused, fotokatalüütiline võimekus
Gromõko, Inga 2018 https://digi.lib.ttu.ee/i/?9962 https://www.ester.ee/record=b5141465*est

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

ZnO nanostructures by wet chemical deposition methods [Online resource]
Gromõko, Inga; **Dedova, Tatjana**; **Krunks, Malle**; **Oja Acik, Ilona**; **Katerski, Atanas**; **Klauson, Deniss** 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://fmtdk.ut.ee/teesid-2018/

ZnO nanostruktuursed kihid keemilise pihustuspürolüüsi meetodil
Dedova, Tatjana; **Annert, Katre**; **Volobujeva, Olga**; **Grossberg, Maarja**; **Oja Acik, Ilona**; **Krunks, Malle** XXXI Eesti keemiapäevad : [28. aprill 2010, Tallinn] : teaduskonverentsi teesid = 31st Estonian Chemistry Days : abstracts of scientific conference 2010 / lk. 25

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

ZnO/NiO heterostructures with enhanced photocatalytic activity obtained by ultrasonic spraying of a NiO shell onto ZnO nanorods
Chen, Zengjun; **Dedova, Tatjana**; **Spalatu, Nicolae**; Maticiuc, Natalia; Rusu, Marin; **Katerski, Atanas**; **Oja Acik, Ilona**; Unold, Thomas; **Krunks, Malle** Colloids and surfaces A : physicochemical and engineering aspects 2022 / art. 129366 https://doi.org/10.1016/j.colsurfa.2022.129366 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

ZnO/TiO2/Sb2S3 core-shell nanowire heterostructure for extremely thin absorber solar cells
Parize, Romain; **Katerski, Atanas**; **Gromõko, Inga**; Rapenne, Laetitia; Roussel, Hervé; **Kärber, Erki**; Appert, Estelle; **Krunks, Malle**; Consonni, Vincent Journal of physical chemistry C 2017 / p. 9672-9680 : ill https://doi.org/10.1021/acs.jpcc.7b00178 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

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

Teaduspreemia tehnikateaduste alal töö "Pooljuhtmaterjalid päikeseenergeetikale ja optoelektroonikale" eest
Mellikov, Enn; **Altosaar, Mare**; **Krunks, Malle**; **Krustok, Jüri**; **Valdna, Vello** Eesti Vabariigi teaduspreemiad 1998 1998 / lk. 32-39: fotod

Teaduspreemia tehnikateaduste alal uurimuste tsükli "Vedeliksadestuse tehnoloogiad konkurentsivõimelisele päikeseenergeetikale" eest : Malle Krunks
Krunks, Malle Eesti Vabariigi teaduspreemiad 2009 / lk. 86-99 : portr., ill

Temperature and thickness effect of Nio layer on photocatalytic activity of Nio/Zno heterostructure by ultrasonic spray method
Chen, Zengjun; **Dedova, Tatjana**; **Oja Acik, Ilona**; **Krunks, Malle** GSFMT Scientific Conference 2021 : Tartu, June 14-15, 2021 : abstracts 2021 / P 45 https://fmtdk.ut.ee/wp-content/uploads/2021/06/GSFMT_abstractbook_2021.pdf

The effect of growth temperature and spraying rate on the properties of ZnO:In films
Kriisa, Merike; **Kärber, Erki**; Unt, Tarmo; **Mere, Arvo**; **Krunks, Malle** Physica status solidi (c) 2012 / p. 1604-1606 : ill https://onlinelibrary.wiley.com/doi/pdf/10.1002/pssc.201200008

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 https://doi.org/10.1016/j.mssp.2015.07.049 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 [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://fmtdk.ut.ee/teesid/

Thermal behaviour of precursors for CuInS2 thin films deposited by spray pyrolysis
Oja Acik, Ilona; **Otto, Kairi**; **Krunks, Malle**; **Tõnsuaadu, Kaia**; **Mere, Arvo** Journal of thermal analysis and calorimetry 2013 / p. 1455-1465 : ill https://doi.org/10.1007/s10973-013-3155-7 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Thermal decomposition of cadmium and copper thiocarbamide chlorides
Krunks, Malle; Madarasz, Janos; Leskelä, T.; Hiltunen, L.; Mannonen, R.; Niinistö, L. 15th Nordic symposium for thermal analysis and calorimetry : programme, extended abstracts 1996 / p. 11

Thermal decomposition of copper(I) thiocarbamide chloride hemihydrate
Krunks, Malle; Leskelä, T.; Mannonen, R.; Niinistö, L. Journal of thermal analysis 1998 / p. 355-364: ill

Thermal decomposition of dichlorobis(thiourea)cadmium(II) in inert and oxidative atmosphere
Krunks, Malle; Madarasz, Janos; Hiltunen, L.; Mannonen, R.; **Mellikov, Enn**; Niinistö, L. Abstracts of Symposium on Thermal Analysis, Sopron, Hungary 1995 / p. 84

Thermal decomposition of tris(O-ethyldithiocarbonato)-antimony(III) - a single-source precursor for antimony sulfide thin films
Eensalu, Jako Siim; **Tõnsuaadu, Kaia**; **Adamson, Jasper**; **Oja Acik, Ilona**; **Krunks, Malle** Journal of thermal analysis and calorimetry 2022 / p. 4899-4913 : ill https://doi.org/10.1007/s10973-021-10885-1 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

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

Thermal decomposition study of HAuCl4·3H2O and AgNO3 as precursors for plasmonic metal nanoparticles
Otto, Kairi; **Oja Acik, Ilona**; **Krunks, Malle**; **Tõnsuaadu, Kaia**; **Mere, Arvo** Journal of thermal analysis and calorimetry 2014 / p. 1065-1072 : ill https://doi.org/10.1007/s10973-014-3814-3 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Thermally evolved gases from thiourea complexes of CuCl in air : detailed comparisons by TG-FTIR and TG/DTA-MS for compounds poor and rich in thiourea
Madarasz, Janos; **Krunks, Malle**; Niinistö, Lauri; Pokol, György Journal of thermal analysis and calorimetry 2015 / p. 189-199 : ill https://doi.org/10.1007/s10973-015-4481-8 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

A thermoanalytical and structural study of copper(I) thiocarbamide compounds
Krunks, Malle; Leskelä, T.; Mutikainen, Ilpo; Niinistö, L. ESTAC-7 : 7th European Symposium on Thermal Analysis and Calorimetry, Aug. 30 - Sept. 4, 1998, Balatonfüred, Hungary : book of abstracts 1998 / p. 88
https://link.springer.com/content/pdf/10.1023/A:1010184107901.pdf

Thermoanalytical studies of titanium(IV) acetyl-acetonate xerogels with emphasis on evolved gas analysis
Oja Acik, Ilona; Madarasz, Janos; **Krunks, Malle**; **Tõnsuaadu, Kaia**; Janke, D.; Pokol, György; Niinistö, L. Journal of thermal analysis and calorimetry 2007 / p. 557-563 : ill https://link.springer.com/content/pdf/10.1007/s10973-006-8064-6.pdf

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 Netherland : abstract book 2010 / p. 175

Thermoanalytical study of a precursor for In2S3 films by spray pyrolysis
Otto, Kairi; **Oja Acik, Ilona**; **Tõnsuaadu, Kaia**; **Annert, Katre**; **Krunks, Malle** ESTAC10 : 10th European Symposium on Thermal Analysis and Calorimetry : August 22-27, 2010, Rotterdam, The Netherland : abstract book 2010 / p. 181

Thermoanalytical study of acetylacetonate-modified titanium(IV)isopropoxide as a precursor for TiO2 films
Krunks, Malle; **Oja, Ilona**; **Tõnsuaadu, Kaia**; Es-Souni, M.; Gruselle, M.; Niinistö, L. Journal of thermal analysis and calorimetry 2005 / p. 483-488 : ill https://link.springer.com/article/10.1007/s10973-005-0681-y

Thermoanalytical study of acetylacetone modified titanium(IV)isopropoxide as a precursor for TiO2 films
Krunks, Malle; **Oja, Ilona**; **Tõnsuaadu, Kaia**; Es-Souni, M.; Gruselle, M.; Niinistö, L. ICTAC 13 : 13th International Congress on Thermal Analysis and Calorimetry : XXVI Conference AICAT-GICAT : Chia Laguna, September 12-19, 2004 : book of abstracts 2004 / p. 276 https://link.springer.com/article/10.1007/s10973-005-0681-y

A thermoanalytical study of copper(I) thiocarbamide compounds
Krunks, Malle; Leskelä, T.; Mutikainen, Ilpo; Niinistö, L. Journal of thermal analysis and calorimetry 1999 / 2, p. 479-484: ill

A thermoanalytical study of CuInS2 formation in spray pyrolysis process
Krunks, Malle; Leskelä, Tuula; Niinistö, Lauri Twelfth International Conference on Ternary and Multinary Compounds : March 13-17, 2000 : National Tsing Hua University, Hsinchu, Taiwan : abstract[s] 2000 / p. Th-A1-1

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 SnS thin films deposited by chemical spray pyrolysis method

Polivtseva, Svetlana; **Oja Acik, Ilona**; **Tõnsuaadu, Kaia**; **Mere, Arvo**; **Krunks, Malle** ESTAC-11 : the 11th European Symposium on Thermal Analysis and Calorimetry : Dipoli Congress Center, Espoo, Finland, August 17-21, 2014 : abstracts 2014 / p. 86

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 https://doi.org/10.1007/s10973-015-4580-6 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Thermoanalytical study of zinc thiocarbamide chloride
Krunks, Malle; Madarasz, Janos; Leskelä, T.; **Mere, Arvo**; Niinistö, L.; Pokol, György ESTAC 8 : 8th European Symposium on Thermal Analysis and Calorimetry, Barcelona, Spain, August 25-29, 2002 : abstracts book 2002 / p. 42

Thermoanalytical study of titanium(IV) acetylacetonate xerogels
Oja Acik, Ilona; Madarasz, Janos; **Tõnsuaadu, Kaia**; **Krunks, Malle**; Pokol, György ESTAC 9 : 9th European Symposium on Thermal Analysis and Calorimetry : 27-31 August 2006, Krakow, Poland : [book of abstracts] 2006 / p. 328
https://link.springer.com/article/10.1007/s10973-006-8064-6

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 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 laser ablation
Podgurski, Vitali; **Kruusing, Arvi**; **Altosaar, Mare**; **Krunks, Malle**; **Mellikov, Enn** International Conference Advanced Optical Materials and Devices, Riga, 1996 1996 / p. 199

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

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 https://www.ester.ee/record=b4767116*est

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 https://doi.org/10.1002/pssc.201510098 Journal metrics at Scopus Article at Scopus Article at WOS

TiO2 sool-geel meetodil : atsetüülatsetooniga stabiliseeritud titaan (IV) isoproksiidi termiline lagunemine
Oja, Ilona; **Krunks, Malle**; **Tõnsuaadu, Kaia**; Es-Souni, M.; Gruselle, M.; Niinistö, L. XXIX Eesti keemiapäevad : teaduskonverentsi ettekannete teesid = 29th Estonian Chemistry Days : abstracts of scientific conference 2005 / lk. 74

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 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://fmtdk.ut.ee/teesid-2018/

Titanium(IV) acetylacetonate xerogels for processing titania films : a thermoanalytical study
Oja Acik, Ilona; Madarasz, Janos; **Krunks, Malle**; **Tõnsuaadu, Kaia**; Pokol, György; Niinistö, L. Journal of thermal analysis and calorimetry 2009 / 1, p. 39-45 : ill
https://www.researchgate.net/publication/243958213_TitaniumIV_acetylacetonate_xerogels_for_processing_titania_films_AAA_thermoanalytical_study

Titanium(IV) acetylacetonate xerogels for processing titania films : structure and thermal analysis [Electronic resource]

Oja Acik, Ilona; Madarasz, Janos; Heinamaa, Ivo; **Pehk, Tõnis**; **Tõnsuaadu, Kaia**; **Krunks, Malle**; Pokol, György; Niinistö, Lauri 14th International Congress on Thermal Analysis and Calorimetry . VI Brazilian Congress on Thermal Analysis and Calorimetry : September 14-18, 2008, Sao Pedro, Brazil 2008 / p. OP-C06 [CD-ROM] https://link.springer.com/article/10.1007/s10973-008-9647-1

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

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

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

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

Uniform Sb2S3 optical coatings by chemical spray method : [conference paper]
Eensalu, Jako Siim; **Katerski, Atanas**; **Kärber, Erki**; **Oja Acik, Ilona**; **Mere, Arvo**; **Krunks, Malle** Tartu Ülikooli ASTRA projekt PER ASPERA : Funktsionaalsed materjalid ja tehnoloogiad : [4.-5. veebr. 2019, Tartu : teesid] 2019 / 1 p http://fmtdk.ut.ee/teesid-2019/

Vedeliksadestuse tehnoloogiad konkurentsivõimelisele päikeseenergeetikale : kommentaar Eesti Vabariigi teaduse aastapreemia pälvinud tööde tsüklile
Krunks, Malle Tallinna Tehnikaülikooli aastaraamat 2009 2009 / lk. 188-192

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

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

Ühendpooljuhtmaterjalide õhukesed kiled keemilise pihustamise meetodil = Thin films of compound semiconductor materials by chemical spray pyrolysis
Krunks, Malle; **Mellikov, Enn**; **Varema, Tiit**; **Bijakina, Olga**; Niinistö, L. XVII Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid = 17th Estonian Chemistry Days : abstracts of scientific conference 1996 / lk. 87-88
https://www.ester.ee/record=b1070511*est

XPS study of OH impurity in solution processed CdS thin films
Maticiuc, Natalia; **Katerski, Atanas**; **Danilson, Mati**; **Krunks, Malle**; **Hiie, Jaan** Solar energy materials and solar cells 2017 / p. 211-216 : ill https://doi.org/10.1016/j.solmat.2016.10.040 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

X-ray photoelectron spectroscopy of spray pyrolysis deposited copper indium disulfide films
Katerski, Atanas; Kazlauskiene, Vida; Miskinis, Juozas; **Krunks, Malle** AOMD-5 : 5th International Conference Advanced Optical Materials and Devices : Vilnius, Lithuania, 27-30 August, 2006 : program and abstracts 2006 / p. 20

Анализ сульфидов меди разных степеней окисления вольтамперометрии с пастовым электродом
Vidrevitš, Marina; Uritskaja, Alla; Kitajev, G.; **Mellikov, Enn**; **Krunks, Malle** Заводская лаборатория : ежемесячный научно-технический журнал 1984 / с. 17-19

Влияние плавня на формирование люминофора на основе сульфида кадмия
Hiie, Jaan; **Mellikov, Enn**; **Krunks, Malle**; **Varvas, Jüri** Материалы XXI Совещания по люминесценции. (Кристаллофосфоры). 9-12 октября 1973 г 1973 / с. 94-95

Влияние природы галогенидного плавня на механизм кристаллизации и морфологию кристаллов люминофоров на основе CdS и CdSe
Mellikov, Enn; **Hiie, Jaan**; **Krunks, Malle**; **Varvas, Jüri** Тезисы XXIII Всесоюзной конференции по люминесценции 1976 / с. 200
https://www.ester.ee/record=b3798280*est

Влияние природы плавня на механизм кристаллизации и морфологию кристаллов люминофоров на основе CdS

и CdSe
Mellikov, Enn; **Hiie, Jaan**; **Krunks, Malle**; **Varvas, Jüri** Известия Академии наук СССР. Серия физическая 1976 / с. [2361]-2363 : ил https://www.ester.ee/record=b2367543*est

Влияние условий термической обработки на образование фоточувствительности в порошках CdS
Veel, Ene; **Krunks, Malle**; **Hiie, Jaan**; **Mellikov, Enn** Полупроводниковые материалы. 3 1976 / с. 87-94 : илл https://www.ester.ee/record=b1403374*est https://digikogu.taltech.ee/et/Item/5f8fd05c-ff69-4315-9d64-1d9c9611667b

Дезоксидация и рекристаллизация "люминофорного" CdS при его прокаливании в H2 и H2S
Veel, Ene; **Krunks, Malle**; **Hiie, Jaan**; **Mellikov, Enn**; **Türn, Leo** Полупроводниковые материалы. 3 1976 / с. 133-138 : илл https://www.ester.ee/record=b1403374*est https://digikogu.taltech.ee/et/Item/5f8fd05c-ff69-4315-9d64-1d9c9611667b

Жидкофазное спекание и рост кристаллов порошка сульфида кадмия
Mellikov, Enn; **Hiie, Jaan**; **Krunks, Malle**; **Varvas, Jüri** Порошковая металлургия : (Тезисы докладов XII Всесоюзной научно-технической конференции по порошковой металлургии, окт. 1975 г.) 1975 / с. 105-108

Изучение рекристаллизации порошков халькогенидов кадмия
Hiie, Jaan; **Mellikov, Enn**; **Krunks, Malle** Второе всесоюзное совещание по химии твердого тела, 11-13 мая 1978 г. : тезисы докладов : [в 2-х частях] 1978 / с. 57 https://www.ester.ee/record=b4433699*est

Кинетика формирования люминофора на основе сульфида кадмия
Hiie, Jaan; **Mellikov, Enn**; **Krunks, Malle** Материалы XXI Совещания по люминесценции. (Кристаллофосфоры). 9-12 октября 1973 г 1973 / с. 93-94

Кинетика формирования сульфоселенида кадмия
Krunks, Malle; **Mellikov, Enn** I республиканская конференция молодых ученых-химиков, 20-22 мая 1975 года : тезисы докладов 1975 / с. 192-193 https://www.ester.ee/record=b1309964*est

Легирование тонких пленок CdS при их получении методом химической пульверизации
Krunks, Malle IV республиканская конференция молодых ученых-химиков : тезисы докладов 1981 / с. 106-107 https://www.ester.ee/record=b1309986*est

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 вопросы активации монозернистых порошков сульфоселенидов кадмия
Krunks, Malle; **Veel, Ene**; **Hiie, Jaan**; **Mellikov, Enn** Полупроводниковые материалы. 3 1976 / с. 127-132 : илл https://www.ester.ee/record=b1403374*est https://digikogu.taltech.ee/et/Item/5f8fd05c-ff69-4315-9d64-1d9c9611667b

Некоторые вопросы роста химически пульверизованных пленок сульфида кадмия
Krunks, Malle; **Mellikov, Enn** III республиканская конференция молодых ученых-химиков, 15-17 мая 1979 года : тезисы докладов 1979 / с. 5 https://www.ester.ee/record=b1280470*est

Образование пленок CdS и CdZnS при химической пульверизации растворов
Krunks, Malle; **Mellikov, Enn**; Karpenko, I.V. Физическая химия соединений AIIBVI 1981 / с. 35-42 : илл https://www.ester.ee/record=b1533413*est https://digikogu.taltech.ee/et/Item/dceb76ed-f60b-4ce9-b87e-618a41d25bb8

Образование сульфида кадмия при терморaспаде продуктов взаимодействия тиомочевины с хлоридом кадмия
Krunks, Malle; **Mellikov, Enn**; **Sork, Eeve** Журнал неорганической химии 1985 / с. 1373-1376 https://www.ester.ee/record=b1443384*est

Образование химически пульверизованных пленок CdS и Cd 1-x ZnxS : автореферат ... кандидата химических наук (02.00.04)
Krunks, Malle 1985 https://www.ester.ee/record=b1520403*est

Особенности легирования монозернистого селенида кадмия хлором и медью
Hiie, Jaan; **Mellikov, Enn**; **Krunks, Malle**; **Altosaar, Mare**; **Valdna, Vello**; **Varvas, Jüri** Третья Всесоюзная конференция по физико-химическим основам легирования полупроводниковых материалов, Москва, 20-22 окт. 1975 г. : Тезисы докладов 1975 / с. 112

Полупроводниковые материалы
Rusalep, Ervin; **Kukk, Peeter-Enn**; **Krustok, Jüri**; **Mädasson, Jaan**; **Altosaar, Mare**; **Ruus, Tõnu**; **Aarna, Heiti**; **Mankin, Romi**; **Reiter, Eerik**; **Krunks, Malle**; **Mellikov, Enn**; **Seilenthal, Mats**; **Vallaste, Heikki**; **Tuvike, Tiit**; **Palmre, Õie**; **Bender, Villem**; **Veimer, Vladimir**; **Mere, Arvo**; **Roninson, Aleksander**; **Silas, Aarne**; **Gavrilov, Aleksei**; **Paat, Aadu**; **Meiler, Boriss** 1986 https://www.ester.ee/record=b1296001*est

Полупроводниковые материалы
Reiter, Eerik; **Meiler, Boriss**; **Krustok, Jüri**; **Piibe, Toomas**; **Mädasson, Jaan**; **Altosaar, Mare**; Tomson, A.; **Kukk, Peeter-Enn**; **Tuvike, Tiit**; **Palmre, Õie**; **Vallaste, Heikki**; **Päid, Imbi**; **Kuusmets, Eela**; Petrov, P.; **Mellikov, Enn**; **Erm, Ants**; **Krunks, Malle**; **Gavrilov, Aleksei**; **Košelap, Andrei**; **Bender, Vladimir**; **Mere, Arvo**; **Veimer, Vladimir**; **Kurik, Lembit**; **Sinivee, Veljo** 1988
https://www.ester.ee/record=b1220756*est

Разработка фоточувствительного сульфида кадмия для применения в областях СВЧ и ионизирущего излучения
Veel, Ene; **Krunks, Malle**; **Hiie, Jaan**; **Mellikov, Enn** Тезисы докладов Конференции по технологии получения, исследованию свойств, применению редких металлов, их соединений и полупроводниковых материалов 1976 / с. 209

Рекристаллизация порошков сульфида кадмия
Mellikov, Enn; **Hiie, Jaan**; **Krunks, Malle**; **Iljina, Natalja** Всесоюзное совещание "Реальная структура неорганических жаростойких и жаропрочных материалов, 9-12 октября" [Текст] : Тезисы докладов 1979 / с. [?]

Рентгенофазовый анализ продуктов взаимодействия хлорида кадмия с тиомичевиной
Sork, Eeve; **Krunks, Malle** VI Республиканская конференция молодых ученых-химиков : тезисы докладов 1985 / с. 238
https://www.ester.ee/record=b1232928*est

Синтез и применение узкодисперсных порошков сульфида и селенида кадмия
Krunks, Malle; **Mellikov, Enn**; **Hiie, Jaan** Дисперсные кристаллические порошки в материаловедении : доклады семинара 1980 / с. 67

Синтез монозернистых порошков сульфоселенида кадмия
Krunks, Malle; **Mellikov, Enn**; **Hiie, Jaan**; **Veel, Ene** Полупроводниковые материалы. 3 1976 / с. 63-69 : илл
https://www.ester.ee/record=b1403374*est https://digikogu.taltech.ee/et/Item/5f8fd05c-ff69-4315-9d64-1d9c9611667b

Структурные и оптические свойства химически пульверизованных пленок сульфида кадмия
Krunks, Malle; **Mellikov, Enn**; **Sork, Eeve**; Vidrevitš, Marina Физическая химия соединений AIIBVI 1984 / с. 49-58 : ил
https://www.ester.ee/record=b1314940*est https://digikogu.taltech.ee/et/Item/b5a40c2b-483d-4f6f-a3dd-9b72e498c226

Твердофазная рекристаллизация порошка сульфида кадмия
Mellikov, Enn; **Veel, Ene**; **Krunks, Malle**; **Hiie, Jaan** Кинетика и механизм реакций в твердом теле : тезисы докладов Всесоюзного совещания.1(25-27 ноября 1981 г.) 1981 / с. [?]

Термическое разложение тиомочевинных комплексов
Krunks, Malle; **Mellikov, Enn**; **Sork, Eeve** Синтез и исследование халькогенидных пленок : тезисы докладов уральской конференции (14-16 окт.) 1986 / с. ?

Термическое разложение тиомочевинных комплексов кадмия
Krunks, Malle; **Mellikov, Enn** Tallinna Tehnikaülikooli Toimetised 1990 / lk. 3-22: ill

Улучшение однородности исходных порошковых материалов CdS, используемых при вакуумном напылении пленок
Mellikov, Enn; **Hiie, Jaan**; Karpenko, I.V.; Putškova, K.N.; **Rändur, Õie**; **Krunks, Malle**; **Veel, Ene**; **Türn, Leo**
Полупроводниковые материалы. 3 1976 / с. 43-51 https://www.ester.ee/record=b1403374*est https://digikogu.taltech.ee/et/Item/5f8fd05c-ff69-4315-9d64-1d9c9611667b

Фотолюминесценция гетероструктур на основе сульфида кадмия
Erm, Ants; **Krunks, Malle**; **Piibe, Toomas**; **Mellikov, Enn** Полупроводники и гетеропереходы : сборник статей 1987 / с. 41-43 : илл https://www.ester.ee/record=b1262177*est

Фотолюминесценция как метод оценки качества химически пульверизованных пленок
Erm, Ants; **Krunks, Malle**; **Mellikov, Enn** Применение металлоорганических соединений для получения неорганических покрытий и материалов : тезисы докладов V всесоюзного совещания, Горький, 8-10 сентября 1987 г. 1987 / с. 191-192
https://www.ester.ee/record=b2351386*est

Фотолюминесценция химически пульверизованных пленок
Erm, Ants; **Krunks, Malle**; **Mellikov, Enn** Электрофизические свойства полупроводниковых и диэлектрических материалов 1988 / с. 85-93

Фотопреобразователи CdS - CU2S на основе пульверизованных пленок
Varema, Tiit; **Iljina, Natalja**; **Krunks, Malle**; Terasmaa, P.; **Mellikov, Enn**; Karpenko, I.V. Полупроводники и гетеропереходы : сборник статей 1987 / с. 43-46 : ил https://www.ester.ee/record=b1262177*est

Фотопреобразователи CdS-Cu2S на основе пульверизованных пленок

Krunks, Malle; **Mellikov, Enn**; **Sork, Eeve**; **Varema, Tiit** Материалы «IX Международного совещания по фотоэлектрическим и оптическим явлениям в твердых телах" Варна, Болгария 1989 / с. 36-37

Химические методы в технологии тонких пленок и гетеропереходов на их основе
Krunks, Malle; **Kulša, D.**; **Mellikov, Enn** I Всесоюзная конференция по физике и технологии тонких пленок (явления переноса), г. Ивано-Франковск, 11-13 мая 1981 г. : тезисы докладов 1984 / с. 93

Электрические и структурные свойства химически пульверизованных пленок CdS
Krunks, Malle 5-я республиканская конференция молодых ученых-химиков : [тезисы докладов] 1983 / с. 236
https://www.ester.ee/record=b1312297*est

Электрофизические свойства тонкопленочных барьеров шоттки на основе сульфида кадмия, изготовленного методом химической пульверизации
Krunks, Malle; **Mellikov, Enn**; **Seilenthal, Mats** Электрофизические свойства полупроводниковых и диэлектрических материалов 1986 / с. 49-55