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

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

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

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 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

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

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

Copper–zinc oxide heterojunction catalysts exhibiting enhanced photocatalytic activity prepared by a hybrid deposition method
Montero, Jose; Welearegay, Tesfalem; Thyr, Jakob; Stopfel, Henry; **Dedova, Tatjana**; **Oja Acik, Ilona**; Österlund, Lars RSC advances 2021 / p. 10224−10234 https://doi.org/10.1039/d1ra00691f Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

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

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

Deposition of SbIISI thin films by ultrasonic spray pyrolysis for photovoltaic applications = Päikesepatareides rakendatavate SbIISI 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 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 sb2se3 and sb2s3 solar cells by close-spaced sublimation
Krautmann, Robert; **Spalatu, Nicolae**; **Oja Acik, Ilona** GSFMT Scientific Conference 2023 : Tartu, 23-24 May, 2023 : abstracts 2023 https://fmtdk.ut.ee/programm-2023/

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

Development of 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 spray-pyrolysis-synthesised TiOII thin films for photocatalytic degradation of volatile organic compounds in air = Pihustuspürolüüsiga sünteesitud TiOII õhukeste kilede väljatöötamine lenduvate orgaaniliste ühendite fotokatalüütiliseks lagundamiseks õhus
Sydorenko, Jekaterina 2023 https://doi.org/10.23658/taltech.6/2023 https://digikogu.taltech.ee/et/Item/56de388b-6916-458a-8db7-641bb9aca644 https://www.ester.ee/record=b5542586*est

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

Doktorant, tööturg ja karjääriplaneerimine. Millal, kuhu, kuidas?
Oja Acik, Ilona Mente et Manu 2017 / lk. 22-23 : fot https://artiklid.elnet.ee/record=b2830868*est

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

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 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 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 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
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

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

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

Enhanced photocatalytic activity of chemically deposited ZnO nanowires using doping and annealing strategies for water remediation
Gaffuri, Pierre; **Dedova, Tatjana**; Appert, Estelle; **Danilson, Mati**; **Oja Acik, Ilona** Applied surface science 2022 / art. 152323 https://doi.org/10.1016/j.apsusc.2021.152323 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

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

Erratum: Copper-zinc oxide heterojunction catalysts exhibiting enhanced photocatalytic activity prepared by a hybrid deposition method (RSC Advances (2021) 11 (10224–10234) DOI: 10.1039/D1RA00691F)
Montero, José; Welearegay, Tesfalem; Thyr, Jakob; Stopfel, Henry; **Dedova, Tatjana**; **Oja Acik, Ilona**; Österlund, Lars RSC Advances 2021 / p. 13635 https://doi.org/10.1039/d1ra90096j 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

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

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 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-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

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

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

In2S3 kilede moodustumine pihustuspürolüüsi protsessis : termoanalüütiline uuring
Otto, Kairi; **Oja Acik, Ilona**; **Tõnsuaadu, Kaia**; **Krunks, Malle** XXXII Eesti Keemiapäevad : teaduskonverentsi teesid 2011 / lk. 70

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 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 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-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

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

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

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

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

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

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

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

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

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

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

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

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 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 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/

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

Properties of 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

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

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

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 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

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 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

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

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

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

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

Study of the properties of TiO2 thin films deposited by ultrasonic spray pyrolysis [Online resource]
Chen, Z.; **Oja Acik, Ilona**; **Dündar, Ibrahim**; **Mere, Arvo** Tartu Ülikooli ASTRA projekt PER ASPERA : Funktsionaalsed materjalid ja tehnoloogiad : [4.-5. veebr. 2019, Tartu : teesid] 2019 / 1 p http://fmtdk.ut.ee/teesid-2019/

Study on photocatalytic activity of ZnO nanoneedles, nanorods, pyramids and hierarchical structures obtained by spray pyrolysis method
Klauson, Deniss; **Gromõko, Inga**; **Dedova, Tatjana**; **Pronina, Natalja**; **Kritševskaja, Marina**; **Budarnaja, Olga**; **Oja Acik, Ilona**; **Volobujeva, Olga**; Sildos, Ilmo; Utt, Kathriin Materials science in semiconductor processing 2015 / p. 315-324 : ill https://doi.org/10.1016/j.mssp.2014.12.012 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Study on the properties of TiO2 thin films deposited by ultrasonic spray pyrolysis
Chen, Zengjun; **Oja Acik, Ilona**; **Dündar, Ibrahim**; **Mere, Arvo** The 15th International Conference of Young Scientists on Energy Issues (CYSENI 2018) : 23-25 May 2018, Kaunas, Lithuania 2018 / p. X-416 - X-423 : ill http://cyseni.com/archives/proceedings/Proceedings_of_CYSENI_2018.pdf

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

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

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 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/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

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

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

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

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 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 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

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 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 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

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 thin films by ultrasonic spray pyrolysis
Chen, Zengjun; **Dündar, Ibrahim**; **Oja Acik, Ilona**; **Mere, Arvo** IOP conference series : materials science and engineering 2019 / art. 012006, 7 p. : ill https://doi.org/10.1088/1757-899X/503/1/012006 Conference proceedings at Scopus Article at Scopus Article at WOS

TiO2 thin films by ultrasonic spray pyrolysis as photocatalytic material for air purification
Dündar, Ibrahim; **Kritševskaja, Marina**; **Katerski, Atanas**; **Oja Acik, Ilona** Royal Society open science 2019 / art. 181578, 12 p. : ill https://doi.org/10.1098/rsos.181578 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

TiO2 thin films by ultrasonic spray pyrolysis for photocatalytic air-cleaning applications = TiO2 õhukesed kiled ultraheli pihustuspürolüüsi meetodil õhu fotokatalüütiliseks puhastamiseks
Dündar, Ibrahim 2021 https://www.ester.ee/record=b5408882*est https://digikogu.taltech.ee/et/Item/266d75a3-ff2e-4bcf-aa54-2151511e871f
https://doi.org/10.23658/taltech.13/2021

Titaandioksiidi kiled sool-geeli meetodil
Oja Acik, Ilona Inseneeria 2008 / 3, lk. 54-55 : ill https://artiklid.elnet.ee/record=b2041667*est

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/

Uued inimesed ja positsioonid
Läänelaid, Siim; **Otto, Tauno**; **Krumme, Andres**; **Oja Acik, Ilona**; **Kallaste, Ants**; **Tomberg, Hanno** Mente et Manu 2020 / lk. 54-58 : portr https://dea.digar.ee/cgi-bin/dea?a=is&oid=AKmenteetmanu202011&type=staticpdf

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