

Agu Aarna 100 : põlevikiveemiast polümeermaterjalideni

Õpik, Andres Mente et Manu 2015 / lk. 20-21 : fot https://artiklid.elnet.ee/record=b2746580*est

Akadeemik Mihkel Veiderma 80

Kuusik, Rein, keemik; **Õpik, Andres** Mente et Manu 2010 / lk. 3 : portr https://www.ester.ee/record=b1242496*est

Analysis of elemental composition of a heat activated, multi-force, nickel titanium orthodontic archwire

Petrunov, V.; Andreeva, Laura; **Mikli, Valdek** Bulgarian chemical communications 2015 / p. 229-233 : ill

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

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

Annealing effect on CdS films : transition from glass to ITO

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

Annealing of frozen-in defects in ZnO

Nirk, Tiit; Lott, Kalju; Seeman, Viktor; Tünn, Leo; Viljus, Mart; Õpik, Andres Physica status solidi (c) 2016 / p. 590-593 : ill
<http://dx.doi.org/10.1002/pssc.201510244>

Anorgaanilised pooljuhtühendid ja elektrit juhtivad polümeerid - üheskoos ja eraldi uute väljundite otsingul

Õpik, Andres Teadusmõtte Eestis : täppisteadused : [artiklikogumik] 2006 / lk. 207-216 : ill https://www.ester.ee/record=b2230239*est

Antibiotic-imprinted polymer films prepared by electrochemical approach : towards the development of a label-free chemical sensor

Ayankojo, Akinrinade George; Söritski, Vitali; Tretjakov, Aleksei; Reut, Jekaterina; Õpik, Andres Baltic Polymer Symposium 2014 : programme and abstracts : Laulasmaa, Estonia, September 24-26, 2014 2014 / p. 38

Applicability of the FB reactor of aspen plus for CFB oxy-fuel combustion of Estonian oil shale : gas and solid hydrodynamics

Yörük, Can Rüstü; Normann, F.; Filip, J.; Trikkel, Andres; Kuusik, Rein, keemik Proceedings of the 22nd International Conference on Fluidized Bed Conversion : Turku, Finland, June 14-17, 2015. Vol. 1 2015 / p. 150-159

Application of modulation spectroscopy methods in photovoltaic materials research = Modulatsioon-spektroskoopia meetodite rakendamine päikeseenergeetika materjalide uurimiseks

Raadi, Taavi 2015 <https://digi.lib.ttu.ee/i/22521> https://www.ester.ee/record=b4482452*est

Aqueous photocatalytic degradation of selected micropollutants by Pd-modified titanium dioxide

Klauson, Deniss; Šakarašvili, Marko; Pronina, Natalja; Kritševskaja, Marina; Kärber, Erki; Mikli, Valdek European Conference on Environmental Applications of Advanced Oxidation Processes : 21-24 October 2015, Athens, Greece : conference program and book of abstracts 2015 / p. 126 : ill

Aqueous photocatalytic degradation of selected micropollutants by Pd-modified titanium dioxide

Klauson, Deniss; Šakarašvili, Marko; Pronina, Natalja; Kritševskaja, Marina; Kärber, Erki; Mikli, Valdek European Conference on Environmental Applications of Advanced Oxidation Processes : 21-24 October 2015, Athens, Greece : book of proceedings 2015 / [3] p. : ill

Aqueous photocatalytic oxidation of doxycycline

Klauson, Deniss; Poljakova, Alissa; Pronina, Natalja; Kritševskaja, Marina; Moiseev, Anna; Dedova, Tatjana; Preis, Sergei Journal of advanced oxidation technologies 2013 / p. 234-243

Armor materials' behavior under repetitive dense plasma shots

Shirokova, Veronika; Laas, Tõnu; Mikli, Valdek Physica scripta 2014 / p. 1-5 : ill

Au ja Ag nanoosakeste saamiseks kasutatavate lähteainete HAuCl₄·3H₂O ja AgNO₃ termilise lagunemise uurimine

Otto, Kairi; Oja Acik, Ilona; Krunk, Malle; Tõnsuaadu, Kaia XXXIII Eesti Keemiapäevad : teaduskonverentsi teesid 2013 / lk. 55

Biotundlikud süsteemid molekulaarselt jäljendatud elektrit juhtivatest polümeeridest

Õpik, Andres; Reut, Jekaterina; Söritski, Vitali; Tretjakov, Aleksei Tallinna Tehnikaülikooli aastaraamat 2012 2013 / lk. 40-44 : ill

Carrier collection losses in interface passivated amorphous silicon thin-film solar cells

Neumüller, A.; Bereznev, Sergei; Ewert, M.; Volobujeva, Olga Applied physics letters 2016 / p. 043903-1 - 043903-4 : ill
<http://dx.doi.org/10.1063/1.4959995>

CdSe nanofiber and nanohorn structures on ITO substrates fabricated by electrochemical deposition

Kois, Julia; Gurevitš, Jelena; Bereznev, Sergei; Volobujeva, Olga; Öpik, Andres; Mellikov, Enn Applied surface science 2013 / p. 982-985 : 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

Characteristic low-energy Raman modes in twisted bilayer graphene
Kahro, Tauno; Niilisk, Ahti; Rähn, Mihkel; Grossberg, Maarja; Alles, Harry TÜ ja TTÜ doktorikool "Funktsionaalsed materjalid ja tehnoloogiad" : 04.-05. märts 2014, Tartu 2014 / [1] p. : ill

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

Chemical bath deposition of SnS thin films from the solutions with different concentrations of tin and sulphur
Safonova, Maria; Mellikov, Enn; Mikli, Valdek; Kerm, Karin; Naidu, Revathi; Volobujeva, Olga Inter Academia 2014 - Global Research and Education 2015 / p. 183-186 : ill <http://dx.doi.org/10.4028/www.scientific.net/AMR.1117.183>

Chemical bath deposition of SnS thin films on ZnS and CdS substrates
Safonova, Maria; Nair, Padmanabhan Pankajakshy Karunakaran; Mellikov, Enn; Garcia, A. R.; Kerm, Karin; Revathi, Naidu; Romann, Tavo; Mikli, Valdek; Volobujeva, Olga Journal of materials science : materials in electronics 2014 / p. 3160-3165 : ill

Chemical composition of CuInSe₂ monograin powders for solar cell application = CuInSe₂ monoterapulbri koostise uurimine ja rakendus päikesepatareides
Kauk, Marit 2006 <https://digi.lib.ttu.ee/i/?99> https://www.ester.ee/record=b2208780*est

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>

Chemistry and materials science - high level learning via research and practical training
Meissner, Dieter; Mellikov, Enn; Öpik, Andres; Burk, Peeter; Lust, Enn 6th Eurovariety in Chemistry Education 2015 : Chemistry Education for Responsible Citizenship and Employability : June, 30-July, 2, 2015, Tartu, Estonia 2015 / p. 43-45

Cobalt-containing nitrogen-doped carbon aerogels as efficient electrocatalysts for the oxygen reduction reaction
Kreek, Kristiina; Sarapuu, Ave; Samolberg, Lars; Joost, Urmas; Mikli, Valdek; Koel, Mihkel; Tammeveski, Kaido ChemElectroChem 2015 / p. 2079-2088 : ill <https://doi.org/10.1002/celec.201500275>

Comparative analysis of residual stresses determined by various methods in brush-plated hard gold and silver coatings
Lille, Harri; Kõo, Jakub; Ryabchikov, Alexander; Reitsnik, Renno; Sergejev, Fjodor; Mikli, Valdek Engineering materials & tribology XXII 2014 / p. 8-11

Comparative study of CdS films annealed in neutral, oxidizing and reducing atmospheres
Maticiu, Natalia; Kuk, Mart; Spalatu, Nicolae; Potlog, Tamara; Krunks, Malle; Valdna, Vello; Hiie, Jaan Energy procedia 2014 / p. 77-84 : ill

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

Compositionally tunable structure and optical properties of Cu_{1.85}(Cd_xZn_{1-x})_{1.1}SnS_{4.1} (0 ≤ x ≤ 1) monograin powders
Pilvet, Maris; Kauk-Kuusik, Marit; Altosaar, Mare; Grossberg, Maarja; Danilson, Mati; Timmo, Kristi; Mere, Arvo; Mikli, Valdek Thin solid films 2015 / p. 180-183 : ill <http://dx.doi.org/10.1016/j.tsf.2014.10.091>

Crystalline structure, surface morphology and optical properties of nanolamellar composites obtained by intercalation of InSe with Cd
Untila, Dumitru; Caraman, Iuliana; Evtodiev, Igor; Spalatu, Nicolae Energy procedia 2015 / p. 149-155 : ill <http://dx.doi.org/10.1016/j.egypro.2015.12.308>

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

CZTS monograin membranes for photoelectrochemical fuel production modifications for fuel production
Kouhiisfahani, Elham; Samiepour, Ali; Morawietz, Tobias; Kraut, Jürgen; Hiesgen, Renate; Meissner, Dieter 5th International

CZTS monograin membranes for photoelectrochemical fuel production preparation and characterization

Samiepour, Ali; Kouhiisfahani, Elham; Galajev, Semjon; Meissner, Dieter 5th International Conference on Clean Electrical Power : Renewable Energy Resources Impact : Taormina (Italy), 16th-18th June 2015 / p. 212-215 : ill <http://dx.doi.org/10.1109/ICCEP.2015.7177625>

CZTS monograin membranes for photoelectrochemical water splitting

Kois, Julia; Galajev, Semjon; Kouhiisfahani, Elham; Neubauer, Christian; Raud, Jaanika; Samiepour, Ali; Taskesen, Teoman; Meissner, Dieter BEC 16 : the 6th Baltic Electrochemistry Conference : Electrochemistry of Functional Interfaces and Materials : 15th-17th June 2016, Helsinki, Finland 2016 / p. 61 : ill

CZTS monograin membranes for photoelectrochemical water splitting

Samiepour, Ali; Kouhiisfahani, Elham; Galajev, Semjon; Morawietz, Tobias; Hiesgen, Renate; Meissner, Dieter Autumn School on Microstructural Characterization and Modelling of Thin-Film Solar Cells : Akademie Schmöckwitz, Berlin, Germany, October 9-14, 2016 2016 / [1] p. : ill

Cu₂ZnSnSe₄ formation and reaction enthalpies in molten NaI starting from binary chalcogenides

Leinemann, Inga; Zhang, Weihao; Kaljuvee, Tiit; Tõnsuaadu, Kaia; Traksmaa, Rainer; Raudoja, Jaan; Grossberg, Maarja; Altsaar, Mare; Meissner, Dieter Journal of thermal analysis and calorimetry 2014 / p. 1313-1321 : ill

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

Defect studies in Cu₂ZnSnSe₄ and Cu₂ZnSn(Se_{0.75}S_{0.25})₄ by admittance and photoluminescence spectroscopy

Kask, Erkki; Grossberg, Maarja; Josepson, Raavo; Salu, Pille; Timmo, Kristi; Krustok, Jüri Materials science in semiconductor processing 2013 / p. 992-996 : ill

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 pihustuspirolüüsi 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

Development and characterization of photo-oxidation efficiency and antibacterial effects of nano-TiO₂ thin films

Joost, Urmas; Visnapuu, Meeri; Juganson, Katre TÜ ja TTÜ doktorikool "Funktsionaalsed materjalid ja tehnoloogiad" : 04.-05. märts 2014, Tartu 2014 / [1] p

Development of a biosensor for label-free detection of proteins combining the surface acoustic wave platform and molecularly imprinted polymers

Tretjakov, Aleksei; Sõritski, Vitali; Reut, Jekaterina; Öpik, Andres Baltic Polymer Symposium 2014 : programme and abstracts : Laulasmaa, Estonia, September 24-26, 2014 2014 / p. 46

Development of a biosensor for label-free detection of proteins combining the surface acoustic wave platform and molecularly imprinted polymers

Tretjakov, Aleksei; Sõritski, Vitali; Reut, Jekaterina; Öpik, Andres Proceedings of The 8th International Conference on Molecular Imprinting (MIP2014). Session 8 2014 / p. P-007

Development of a surface imprinting strategy based on a covalently immobilized protein

Boroznjak, Roman; Tretjakov, Aleksei; Sõritski, Vitali; Reut, Jekaterina; Öpik, Andres Baltic Polymer Symposium 2013 : Trakai, Lithuania, September 18-21, 2013 : programme [and abstracts] 2013 / p. 126

Development of antibiotic-imprinted polymer films on the dextran-modified gold surfaces

Tretjakov, Aleksei; Sõritski, Vitali; Ayankojo, Akinrinade George; Reut, Jekaterina; Öpik, Andres TÜ ja TTÜ doktorikool "Funktsionaalsed materjalid ja tehnoloogiad" : 04.-05. märts 2014, Tartu 2014 / [1] p

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

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

Direct CVD growth of multi-layered graphene closed shells around alumina nanofibers

Ivanov, Roman; Mikli, Valdek; Kübarsepp, Jakob; Hussainova, Irina Engineering materials and tribology : selected, peer reviewed papers from the 24th International Baltic Conference on Engineering Materials & Tribology (BALTMATTRIB & IFHTSE 2015), November 5-6, 2015, Tallinn, Estonia 2016 / p. 77-80 : ill <http://dx.doi.org/10.4028/www.scientific.net/KEM.674.77>

Distribution of solar irradiance on inclined surfaces due to the plane of the ground

Tomson, Teolan; Voll, Hendrik Journal of power and energy engineering 2014 / p. 1-10 : ill

Dynamic behaviour of diffuse solar radiation

Tomson, Teolan Theoretical and applied climatology 2014 / p. 399-402 : ill

Eesti Vabariigi teaduspreemia pikaajalise tulemusliku teadus- ja arendustöö eest : [akadeemik Enn Mellikovile]

Mellikov, Enn Tallinna Tehnikaülikooli aastaraamat 2013 2014 / lk. 325-330

Effect of CdCl₂ annealing treatment on structural and optoelectronic properties of close spaced sublimation CdTe/CdS thin film solar cells vs deposition conditions

Spalatu, Nicolae; Hiie, Jaan; Mikli, Valdek; Krunks, Malle; Valdna, Vello; Maticiu, Natalia; Raadik, Taavi; Caraman, Mihail Thin solid films 2015 / p. 128-133 : ill <http://dx.doi.org/10.1016/j.tsf.2014.11.066>

Effect of 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; Maticiu, Natalia 2014 Spring Meeting Lille, France : May 26-30. Symposium A, Thin film chalcogenide photovoltaic materials 2014 / p. 17

Effect of heat treatment on the phase transformation and magnetic properties of BPSCCO/LPMO composites

Staneva, Anna; Blagoev, Blagoy; Mikli, Valdek Journal of alloys and compounds 2014 / p. 223-228 : 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 <http://dx.doi.org/10.1016/j.tsf.2015.03.036>

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

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, Kathrin; Unt, Tarmo Physica status solidi (a) : applications and materials science 2014 / p. 514-521 : ill

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

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

Effects of PV microgeneration on rural LV network voltage quality [Online resource]

Hürmeýdan, Semih; Rosin, Argo; Vinnal, Toomas; Jagomägi, Andri 2016 57th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON) : October 13, 14, 2016 : conference proceedings 2016 / [4] p. : ill <https://doi.org/10.1109/RTUCON.2016.7763083>

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

Electrical characterization of annealed chemical-bath-deposited CdS films and their application in superstrate configuration CdTe/CdS solar cells

Graf, Aleksandr; Maticiu, Natalia; Spalatu, Nicolae; Mikli, Valdek; Mere, Arvo; Gavrilov, Aleksei; Hiie, Jaan Thin solid films 2015 / p. 351-355 : ill <http://dx.doi.org/10.1016/j.tsf.2014.11.003>

Electrical characterization of cadmium sulfide films, annealed in reducing, neutral and oxidizing ambients of H₂, N₂, and air

Graf, Aleksandr; Gavrilov, Aleksei; Hiie, Jaan TÜ ja TTÜ doktorikool "Funktsionaalsed materjalid ja tehnoloogiad" : 04.-05. märts 2014, Tartu 2014 / [1] p

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

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

Electrical characterization of nanostructured CIS solar cell prepared by chemical spray pyrolysis

Kärber, Erki; Abass, Aimi; Khelifi, Samira; Burgelman, Marc; **Mere, Arvo**; **Katerski, Atanas**; **Krunks, Malle** NEXTGEN NANO PV : book of abstracts 2013 / p. 80-81

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

Kois, Julia 2006

Electrochemical functionalization of gold and silicon surfaces by a maleimide group as a biosensor for immunological application

Zhang, Xin; **Tretjakov, Aleksei**; Hovestädt, Marc; Sun, Guoguang; **Sõritski, Vitali**; **Reut, Jekaterina**; Volkmer, Rudolf; Hinrichs, Karsten; Rappich, Jörg Acta biomaterialia 2013 / p. 5838-5844 : ill

Electrochemical reduction of aryl diazonium salts for ultrathin polymeric layers on au and Si surfaces

Zhang, Xin; **Sõritski, Vitali**; **Reut, Jekaterina** Baltic Polymer Symposium 2013 : Trakai, Lithuania, September 18-21, 2013 : programme [and abstracts] 2013 / p. 29 : ill

Electrochemical synthesis of CdSe/CdTe nanowires for hybrid photovoltaic structures

Gurevičs, Jelena; **Bereznev, Sergei**; **Mikli, Valdek**; **Naidu, Revathi**; **Melikov, Enn**; **Kois, Julia** MRS proceedings 2014 / [6] p. : ill
<https://doi.org/10.1557/opl.2014.576>

Electrochemical synthesis of CdSe/CdTe nanowires for hybrid photovoltaic structures

Gurevičs, Jelena; **Kois, Julia**; **Bereznev, Sergei**; **Melikov, Enn**; **Õpik, Andres** 2014 MRS Spring Meeting & Exhibit : April 21-25, 2014, San Francisco, California : program. Symposium UU, Semiconductor Nanowires-Synthesis, Properties and Applications 2014 / [1] p

Electrochemically synthesised CdSe nanofibers and pearl-chain nanostructures for photovoltaic applications

Kois, Julia; **Bereznev, Sergei**; **Gurevičs, Jelena**; **Volobujeva, Olga** Materials letters 2013 / p. 110-113 : ill

Electrodeposited CDSE nanomatrix for hybrid polymer solar cells

Gurevičs, Jelena; **Bereznev, Sergei**; **Mikli, Valdek**; **Naidu, Revathi**; **Õpik, Andres**; **Melikov, Enn**; **Kois, Julia** Baltic Polymer Symposium 2015 : Sigulda, Latvia, September 16-18 : programme and proceedings 2015 / p. 96 : ill

Electrodeposition of CdSe nanofibers as photo-active matrix for polymer solar cells

Kois, Julia; **Bereznev, Sergei**; **Gurevičs, Jelena**; **Melikov, Enn**; **Õpik, Andres** Baltic Polymer Symposium 2013 : Trakai, Lithuania, September 18-21, 2013 : programme [and abstracts] 2013 / p. 122

Electrodeposition of CdSe nanomatrix for hybrid solar cells

Bereznev, Sergei; **Gurevičs, Jelena**; **Kois, Julia**; **Melikov, Enn** 12th International Conference on Nanosciences & Nanotechnologies : 7-10 July 2015, Porto Palace Conference Centre & Hotel, Thessaloniki, Greece : book of abstracts 2015 / p. 166

Electronic and structural characterisation of Cu₃BiS₃ thin films for the absorber layer of sustainable photovoltaics

Yakushev, M.V.; Maiello, P.; **Raadik, Taavi**; **Krustok, Jüri** Thin solid films 2014 / p. 195-199 : ill

Electrosynthesized molecularly imprinted polymer thin films for antibiotics detection in aqueous solutions

Tretjakov, Aleksei; **Sõritski, Vitali**; **Reut, Jekaterina**; **Zhang, Y.**; **Õpik, Andres** Graduate Student Symposium on Molecular Imprinting 2013 : symposium programme and book of abstracts 2013 / p. 35

Electrosynthesized conducting polymers, polypyrrole and poly(3,4-ethylenedioxythiophene), for molecular imprinting = Molekulaarselt jäljendatud süsteemid elektrokeemiliselt sünteesitud elektrit juhtivate polümeeride - polüpürrooli ja polü(3,4-etiüleendioksütiofeeni baasil

Menaker, Anna 2009 https://www.ester.ee/record=b2491805*est

Electrosynthesized molecularly imprinted polymer films for surface acoustic wave detection of antibiotics

Sõritski, Vitali; **Tretjakov, Aleksei**; **Ayankojo, Akinrinade George**; **Reut, Jekaterina**; **Õpik, Andres** Proceedings of The 8th International Conference on Molecular Imprinting (MIP2014). Session 8 2014 / p. P-015

Evolution of TiN coating surface roughness during physical vapor deposition on high speed steel substrate

Kupchenko, Leonid; **Tali, Rauno**; **Adoberg, Eron**; **Mikli, Valdek**; **Podgurski, Vitali** Engineering materials & tribology XXII 2014 / p. 67-70

Exposure of freshwater zooplankton to copper nanoparticles : toxicity and copper body burden

Muna, Marge; Heinlaan, Margit; Vija, Heiki; Blinova, Irina; Kahru, Anne 20th International Scientific Conference EcoBalt 2016 : Tartu, Estonia, October 9-12 : book of abstracts 2016 / p. 33 http://akki.ut.ee/wp-content/uploads/2015/01/Abstracts_Book_EcoBalt_2016.pdf

Fatigue mechanics of TiC-based cemented carbides

Sergejev, Fjodor; Preis, Irina; Hussainova, Irina; Kübarsepp, Jakob Proceedings of the Institution of Mechanical Engineers. Part J, Journal of engineering tribology 2008 / p. 201-209 : ill <http://dx.doi.org/10.1243/13506501JET342>

Foreword

Öpik, Andres Proceedings of the Estonian Academy of Sciences 2015 / p. 69-70

Formation of $\text{CuI}|\text{ZnSnS}|$ and $\text{CuI}|\text{ZnSnSe}|$ by chalcogenisation of electrochemically deposited precursor layers = $\text{CuI}|\text{ZnSnS}|$ ja $\text{CuI}|\text{ZnSnS}|$ moodustumine elektrokeemiliselt sadestatud kihtide kalkogeniseerimisel

Lehner, Julia 2014 https://www.ester.ee/record=b3080859*est

Formation of properties of CuInSe_2 and $\text{Cu}_2\text{ZnSn}(\text{S,Se})_4$ monograin powders synthesized in molten KI = Kaaliumjodiidsulandaja keskkonnas kasvatatud monoterapulbrite $\text{CuInSe}|$ ja $\text{Cu}|\text{ZnSn}(\text{S,Se})|$ omaduste kujundamine
Timmo, Kristi 2011

Greetings [Online resource]

Kübarsepp, Jakob Reiseuni report : the making of European architecture dialogue. Vol. 0, Preface 2016 <http://www.architecture-dialogue.eu/report/>

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

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

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

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

Growth of CZTS-based monograins and their application to membrane solar cells

Mellikov, Enn; Altosaar, Mare; Kauk-Kuusik, Marit; Timmo, Kristi; Meissner, Dieter; Grossberg, Maarja; Krustok, Jüri; Volobujeva, Olga Copper zinc tin sulfide-based thin film solar cells 2015 / p. 289-309 : ill

Growth of zinc oxide nanostructured layers on SnO_2 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

Hajukiirgus Eestis

Tomson, Teolan TEUK XV : taastuvate energiaallikate uurimine ja kasutamine : viieteistkümnenda konverentsi kogumik = Investigation and usage of renewable energy sources : fifteenth conference proceedings, Tartu, Estonia, 2013 2013 / lk. 86-95

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

High temperature electrical conductivity in hydrothermally grown ZnO

Lott, Kalju; Nirk, Tiit; Türn, Leo; Shinkarenko, Svetlana; Öpik, Andres Physica status solidi (c) 2014 / p. 1481-1484 : ill

High temperature electrical conductivity in undoped ceramic ZnO

Lott, Kalju; Nirk, Tiit; Gorokhova, Elena; Türn, Leo; Viljus, Mart; Öpik, Andres; Vishnjakov, A. Crystal research and technology 2015 / p. 10-14 : ill <http://dx.doi.org/10.1002/crat.201400138>

High-temperature erosion of Fe-based coatings reinforced with cermet particles

Surženkov, Andrei; Antonov, Maksim; Goljandin, Dmitri; Kulu, Priit; Viljus, Mart; Traksmaa, Rainer; Mere, Arvo Surface engineering 2016 / p. 624-630 : ill <http://dx.doi.org/10.1080/02670844.2016.1145377>

Hybrid solar cells based on a-Si and electrodeposited polypyrrole

Dosenovicova, Denisa; Bereznev, Sergei; Maricheva, Jelena; Neumüller, A.; Sergeev, O.; Volobujeva, Olga; Kois, Julia; Öpik, Andres Baltic Polymer Symposium 2016 : programme and abstracts 2016 / p. 31 : ill

Impact and sliding wear properties of single layer, multilayer and nanocomposite physical vapour deposited (PVD) coatings on the plasma nitrided low-alloy 42CrMo4 steel

Surženkov, Andrei; Adoberg, Eron; Põdra, Priit; Sergejev, Fjodor; Mere, Arvo; Viljus, Mart; Mikli, Valdek; Antonov, Maksim;

Kulu, Priit Engineering materials and tribology 2013 / p. 223-228 : ill

Impact of CdS annealing atmosphere on the performance of CdS-CdTe solar cell

Maticiuc, Natalia; Spalatu, Nicolae; Mikli, Valdek; Hiie, Jaan Applied surface science 2015 / p. 14-18 : ill
<http://dx.doi.org/10.1016/j.apsusc.2015.01.172>

Impact of Cu₂ZnSn(SexS_{1-x})₄ (x=0.3) compositional ratios on the monograin powder properties and solar cells

Muska, Katri; Kauk-Kuusik, Marit; Grossberg, Maarja; Altosaar, Mare; Pilvet, Maris; Varema, Tiit; Timmo, Kristi; Volobujeva, Olga; Mere, Arvo Thin solid films 2013 / p. 35-38 : ill

Impact of growth-synthesis conditions on Cu₂Zn_{1-x}CdxSnS₄ monograin material properties

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

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

Marquez-Prieto, J.; Yakushev, M.V.; Forbes, I.; Krustok, Jüri Solar energy materials and solar cells 2016 / p. 42-50 : ill
<http://dx.doi.org/10.1016/j.solmat.2016.03.018>

Improved electrodeposition of CdS layers in presence of activating H₂SeO₃ microadditive

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

Incorporation of plasmonic Au nanoparticles inside the CdTe thin film absorber

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

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

Influence of laser hardening to the sliding wear resistance of the PVD (Al,Ti)N-G and nACo® coatings

Surženkov, Andrei; Adoberg, Eron; Antonov, Maksim; Sergejev, Fjodor; Mikli, Valdek; Viljus, Mart; Latokartano, Jyrki; Kulu, Priit Engineering materials & tribology XXII 2014 / p. 28-31

Influence of some lime-containing additives on the thermal behavior of urea

Klimova, Irina; Kaljuvee, Tiit; Mikli, Valdek; Trikkel, Andres Journal of thermal analysis and calorimetry 2013 / p. 253-258 : ill

Influence of the para-substituent of benzene diazonium salts and the solvent on the film growth during electrochemical reduction

Zhang, Xin; Rösicke, Felix; Söritski, Vitali; Reut, Jekaterina Zeitschrift für Physikalische Chemie 2014 / p. 557-573

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 the treatment period on the morphology and the chemical composition of the thermally activated orthodontic archwires

Petrov, Valery; Terzieva, Stanimira; Tumbalev, V.; Mikli, Valdek; Andreeva, Laura; Stoyanova-Ivanova, Angelina Bulgarian chemical communications 2015 / p. 234-238 : ill

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 / p. 1-5 : ill

Investigation of electrical properties of cadmium sulfide thin films

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

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

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

Investigation of residual stresses and some elastic properties of brush-plated gold and silver galvanic coatings

Lille, Harri; Kõo, Jakub; Rjabtšikov, Aleksander; Reitsnik, Renno; Veinthal, Renno; Mikli, Valdek; Sergejev, Fjodor Engineering

Investigation of some properties of brush-plated gold and silver galvanic coatings

Lille, Harri; Kõo, Jakub; Ryabchikov, Alexander; Reitsnik, Renno; **Mikli, Valdek; Sergejev, Fjodor** Proceedings of the 2nd International Conference Optimization and Analysis of Structures : Tartu, Estonia, August 25-27, 2013 2013 / p. 101-107 : ill

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

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

Investigation of the structural, optical and electrical properties of Cu₃BiS₃ semiconducting thin films

Yakushev, M. V.; Maiello, P.; **Raadik, Taavi; Krustok, Jüri** Energy procedia 2014 / p. 166-172 : ill

Ionically conductive monograin membranes

Kouhiisfahani, Elham; Samiepour, Ali; Morawietz, Tobias; Handl, Michael; Simolka, Matthias; Hiesgen, Renate; **Meissner, Dieter** Physical Society of Iran Conference 2015 / p. 208-211 : ill

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

Maticiu, Natalia; Potlog, Tamara; **Hiie, Jaan** 17th International Conference on II-VI Compounds and Related Materials : Paris, 13-18 September 2015 : conference book 2015 / p. 372 : ill http://ii-vi-2015.sciencesconf.org/conference/ii-vi-2015/pages/ConferenceBook_IIVI2015_web_1.pdf

Keemia- ja materjalitehnika teaduskond. Teadus- ja arendustegevus 2005 : teaduselt tootmisele

2006 http://www.ester.ee/record=b2629011*est

Keemia- ja materjalitehnoloogia teaduskond : teadus- ja arendustegevus 2006 : teaduselt tootmisele

2007 https://www.ester.ee/record=b2629011*est

Keemia- ja materjalitehnoloogia teaduskond : teadus- ja arendustegevus 2007

2008 https://www.ester.ee/record=b2629011*est

Keemia- ja materjalitehnoloogia teaduskond : teadus- ja arendustegevus 2008

2009 https://www.ester.ee/record=b2629011*est

Kolmanda põlve akadeemik Andres Õpik püüab kinni halbu molekule

Õpik, Andres; Kändler, Tiit Sirp 2014 / lk. 34-35 : fot <https://www.sirp.ee/s1-artiklid/c9-sotsiaalia/2014-02-13-14-01-51/>

Kuidas hoiduda arengulõksust?

Veinthal, Renno; Lopp, Margus; Kattel, Rainer; Õpik, Andres; Kamratov, Ardo Mente et Manu 2014 / lk. 4-7 : fot https://www.ester.ee/record=b1242496*est

LBIC characterisation of Cu₂ZnSn(S,Se)₄ monograin photovoltaic cells

Neubauer, Christian; Meissner, Dieter Photovoltaic Technical Conference From Advanced Materials and Processes to Innovative Applications : 2015 May 27-29, Aix-en-Provence 2015 / [2] p : ill

Low-cost plasmonic solar cells prepared by chemical spray pyrolysis

Kärber, Erki; Katerski, Atanas; Oja Acik, Ilona; Mikli, Valdek; Mere, Arvo; Sildos, Ilmo; Krunks, Malle The Beilstein journal of nanotechnology 2014 / p. 2398-2402 : ill

Lugemiselamus : Raul Rebane "Võimalik", Startkom, 2014

Õpik, Andres Horisont 2015 / lk. 61

A macromolecular imprinting approach to design synthetic receptors for label-free biosensing applications =

Sünteeilised retseptorid molekulaarselt jäljendatud polümeeridest biomakromolekulide märgisevabaks määramiseks Tretjakov, Aleksei 2016 http://www.ester.ee/record=b4560028*est

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

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

Magnetic studies on spinel ferrite nanoparticles synthesized by citrate combustion route

Chandra Dimri, Mukesh; Khanduri, Himani; **Mere, Arvo**; Stern, Raivo 13th International Conference on Magnetic Fluids : 7th-11th January 2013 : abstract book 2013 / p. 196-197

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

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

Matemaatika-loodusteaduskond

Muks, Elvi; Kelve, Merike; Lille, Ülo Leiutajaid ja leiutisi Tallinna Tehnikaülikoolis 1922-2007 2008 / lk. 72-78 : ill https://www.ester.ee/record=b2412718*est

Materjalid defineerivad ajastu

Õpik, Andres Horisont 2015 / lk. 26-33 : ill https://artiklid.elnet.ee/record=b2716324*est

Mechanical properties and features of erosion of cermets

Hussainova, Irina; Kübarsepp, Jakob 4th EUROMECH : Solid Mechanics Conference, Metz, France, June 26-30, 2000 : book of abstracts II, general sessions 2000 / p. 509

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

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

Mechanism of changes in the properties of chemically deposited CdS thin films induced by thermal annealing = Keemiliselt sadestatud CdS õhukeste kilede omaduste muutumise mehhanism termilisel lõõmutamisel

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

Mehaanikainseneri käsiraamat

2015

Mehaanikainseneri käsiraamat

2013 https://www.ester.ee/record=b3007631*est

Mesoporous molecularly imprinted polymer for label-free detection of a small analyte

Ayankojo, Akinrinade George; Sõritski, Vitali; Reut, Jekaterina; Õpik, Andres MIP2016 : the 9th International Conference on Molecular Imprinting : June 26-30, 2016, Elite Hotel Ideon, Lund, Sweden 2016 / p. [214]

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

Microphotoluminescence study of Cu₂ZnSnS₄ polycrystals

Grossberg, Maarja; Salu, Pille; Raudoja, Jaan; Krustok, Jüri Journal of photonics for energy 2013 / p. 030599-1 - 030599-6 : ill

Modification of conductive properties and processability of polyparaphenylene, polypyrrole and polyaniline

Golovtsov, Igor 2005 https://www.ester.ee/record=b2097077*est

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

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

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

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

Molecularly imprinted polymer based SPR sensors for label-free detection of antibiotics

Tretjakov, Aleksei; Ayankojo, Akinrinade George; Sõritski, Vitali; Reut, Jekaterina; Õpik, Andres Recent Developments in Polymer Synthesis : MACRO 2014 : poster presentation 2014 / p. 286

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

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

Molecularly imprinted polymer integrated with a Surface Acoustic Wave technique for detection of sulfamethizole

Ayankojo, Akinrinade George; Tretjakov, Aleksei; Reut, Jekaterina; Boroznjak, Roman; Õpik, Andres; Rappich, Jörg; Furchner, Andreas; Hinrichs, Karsten; Sõritski, Vitali Analytical chemistry 2016 / p. 1476-1484 : ill <http://dx.doi.org/10.1021/acs.analchem.5b04735>

Molecularly imprinted poly(m-phenylenediamine) films as a sensing layer for antibiotic detection

Tretjakov, Aleksei; Sõritski, Vitali; Reut, Jekaterina; Zhang, Y.; Öpik, Andres; Hinrichs, Karsten; Rappich, Jörg Baltic Polymer Symposium 2013 : Trakai, Lithuania, September 18-21, 2013 : programme [and abstracts] 2013 / p. 41

Multi-scale characterization and modeling of chromium carbide based cermets

Jasiuk, Iwona; **Hussainova, Irina;** Hamed, Elham Characterization of Metal Matrix Composites : Materials Science and Technology 2009 : conference and exhibition : October 25-29, 2009, Pittsburgh, Pennsylvania, USA. Vol. 3 2009 / p. 1775-1784

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

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

Nanostructured layers of ZnS obtained by spray pyrolysis

Dedova, Tatjana; Gromōko, Inga; Mikli, Valdek; Volobujeva, Olga; Utt, Kathrin; 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

Natural water as the test medium for Ag and CuO nanoparticle hazard evaluation : an interlaboratory case study

Heinlaan, Margit; **Muna, Marge;** Knöbel, Melanie Environmental pollution 2016 / p. 689-699 : ill
<https://doi.org/10.1016/j.envpol.2016.06.033>

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 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

Novel Cu₂CdSnS₄ and Cu₂ZnGeSe₄ absorber materials for monograin layer solar cell application

Timmo, Kristi; Kauk-Kuusik, Marit; Altosaar, Mare; Raudoja, Jaan; Raadik, Taavi; Grossberg, Maarja; Varema, Tiit; Pilvet, Maris; Leinemann, Inga; Volobujeva, Olga; Mellikov, Enn EU PVSEC proceedings 2013 / p. 2385-2388 : ill

On the charge carrier time-of-flight mobility and the ordering effects in the microcrystalline PEDOT/PSS complex : a morphology-based simulation study

Kaevand, Toomas; Kalda, Jaan; Lille, Ülo International journal of renewable energy and biofuels 2013 / p. 1-13 : ill

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

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

Optical and photosensitive properties of lamellar nanocomposites obtained by Cd intercalation of GaTe

Leontie, Liviu; Evtodiev, Igor; **Spalatu, Nicolae** Journal of alloys and compounds 2014 / p. 542-545 : ill

Optical and structural properties of TiO₂ thin films by chemical spray

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

Optical properties of GaTe-ZnTe nanolamellae composite

Spalatu, Nicolae; Evtodiev, Igor; Caraman, Iuliana Energy procedia 2015 / p. 176-182 : ill <http://dx.doi.org/10.1016/j.egypro.2015.12.311>

Optical properties of multinary semiconductor compounds for photovoltaic applications = Päikesepatareides kasutatavate mitmikpooljuhtühendite optilised omadused

Grossberg, Maarja 2010 <https://digi.lib.ttu.ee/i/?512> https://www.ester.ee/record=b2637396*est

Optical properties of sprayed ZnO thin films

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

Optical spectroscopy studies of Cu₂ZnSnSe₄ thin films

Yakushev, M. V.; Forbes, I.; Mudryi, A. V.; **Grossberg, Maarja; Krustok, Jüri; Beattie, N. S.**; Moynihan, M.; Rockett, A.; Martin, R. W. Thin solid films 2015 / p. 154-157 : ill <http://dx.doi.org/10.1016/j.tsf.2014.09.010>

Optical studies of Cu₃BiS₃ thin films

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

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

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

Organic and carbon aerogels containing rare-earth metals : their properties and application as catalysts

Kreek, Kristiina; Kriis, Kadri; Maaten, Birgit; Uibu, Mai; Mere, Arvo; Kanger, Tõnis; Koel, Mihkel Journal of non-crystalline solids 2014 / p. 43-48 : ill

Photo-assisted electrodeposition of polypyrrole back contact to CdS/CdTe solar cell structures

Jarkov, Aleksandr; Bereznev, Sergei; Volobujeva, Olga; Traksmaa, Rainer; Tverjanovich, Andrey; Öpik, Andres; Mellikov, Enn Thin solid films 2013 / p. 198-201 : ill

Photo-assisted electrodeposition of polypyrrole back contact to CdS/CdTe solar cell structures

Jarkov, Aleksandr; Bereznev, Sergei; Kois, Julia; Volobujeva, Olga; Öpik, Andres E-MRS Spring Meeting 2012 - Symposium B : Strasbourg, France, May 14-18, 2012 : program and abstract book 2012 / p. 8

Photoelectric and photoluminescence properties of CdTe-GaTe composite

Caraman, Iuliana; Spalatu, Nicolae; Evtodiev, Igor; Untila, Dumitru; Leontie, Liviu; Caraman, Mihail Physica status solidi (b) 2016 / p. 2515-2522 : ill <http://dx.doi.org/10.1002/pssb.201600485>

Photoluminescence of chalcopyrite tellurides = Kalkopüriitsete telluriidide fotoluminesents

Jagomägi, Andri 2006 https://www.ester.ee/record=b2209329*est

Photoluminescence study of defect clusters in Cu₂ZnSnS₄ polycrystals

Grossberg, Maarja; Raadik, Taavi; Raudoja, Jaan; Krustok, Jüri Current applied physics 2014 / p. 447-450 : ill

Photoluminescence study of disordering in the cation sublattice of Cu₂ZnSnS₄

Grossberg, Maarja; Krustok, Jüri; Raadik, Taavi; Kauk-Kuusik, Marit; Raudoja, Jaan Current applied physics 2014 / p. 1424-1427 : ill

Photovoltaics based on semiconductor powders

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

Photovoltaics based on semiconductor powders

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

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

Pilvealune päikesekiirgus

Tomson, Teolan Keskkonnatehnika 2013 / lk. 32-33 : ill https://artiklid.elnet.ee/record=b2600882*est

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>

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 <http://dx.doi.org/10.1016/j.apsusc.2015.04.065>

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

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 <http://dx.doi.org/10.1016/j.surfcoat.2015.01.036>

p-n junction improvements of Cu₂ZnSnS₄/CdS monograin layer solar cells

Kauk-Kuusik, Marit; Timmo, Kristi; Danilson, Mati; Altosaar, Mare; Grossberg, Maarja; Ernits, Kaia Applied surface science 2015 / p. 795-798 : ill <http://dx.doi.org/10.1016/j.apsusc.2015.09.094>

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

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

Polypyrrole back-contact to CdS/CdTe solar cell

Bereznev, Sergei; Jarkov, Aleksandr; Kois, Julia; Volobujeva, Olga; Mellikov, Enn; Öpik, Andres 11th International Symposium on Functional π -electron systems (F π -11) : June 2-7, 2013, Arcachon, France : book of abstracts 2013 / p. 164

Polypyrrole coatings on conducting and insulating substrates

Reut, Jekaterina 2004 https://www.ester.ee/record=b1884787*est

Post-growth annealing effect on the performance of Cu₂ZnSnSe₄ monograin layer solar cells

Kauk-Kuusik, Marit; Altosaar, Mare; Muska, Katri; Pilvet, Maris; Raudoja, Jaan; Timmo, Kristi; Varema, Tiit; Grossberg, Maarja; Mellikov, Enn; Volobujeva, Olga Thin solid films 2013 / p. 18-21 : ill

Preparation and impedance spectroscopy of hybrid structures based on CuInISe photoabsorber = Hübridsete CuInISe fotoabsorberstruktuuride valmistamine ja impedantsispektroskoopia

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

Preparation of metal-doped carbon aerogels from oil shale processing by-products

Kreek, Kristiina; Kulp, Maria; Uibu, Mai; Mere, Arvo; Koel, Mihkel Oil shale 2014 / p. 185-194 : ill https://artiklid.elnet.ee/record=b2673721*est

Preparation of molecularly imprinted films for curcuminoid recognition

Boroznjak, Roman; Wulandari, M.; Sõritski, Vitali; Reut, Jekaterina; Öpik, Andres TÜ ja TTÜ doktorikool "Funktsionaalsed materjalid ja tehnoloogiad" : 04.-05. märts 2014, Tartu 2014 / [1] p

Profiling of the toxicity mechanisms of coated and uncoated silver nanoparticles to yeast *Saccharomyces cerevisiae* BY4741 using a set of its 9 single-gene deletion mutants defective in oxidative stress response, cell wall or membrane integrity and endocytosis

Käosaar, Sandra; Kahru, Anne; Mantecca, Paride; Kasemets, Kaja Toxicology in vitro 2016 / p. 149-162 : ill <https://doi.org/10.1016/j.tiv.2016.05.018>

Properties of NiO thin films prepared by chemical spray pyrolysis

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

Properties of ZnO-nanorod/In₂Se₃/CuInSe₂ solar cell and the constituent layers deposited by chemical spray method = Keemilise pihustuse meetodil sadestatud ZnO-nanovarras/In₂Se₃/CuInSe₂ päikesepatarei ja selle koostisosade omadused

Kärber, Erki 2014 https://www.ester.ee/record=b3073760*est

Properties of the CdCl₂ air-annealed CSS CdTe thin films

Spalatu, Nicolae; Hiie, Jaan; Valdna, Vello; Maticiu, Natalia; Krunks, Malle; Mikli, Valdek TÜ ja TTÜ doktorikool

"Funktsionaalsed materjalid ja tehnoloogiad" : 04.-05. märts 2014, Tartu 2014 / [1] p

Properties of the CdCl₂ air-annealed CSS CdTe thin films

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

Properties of the CdCl₂:O₂ treated CSS CdTe thin films

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

Prostate specific antigen-imprinted film on SPR sensor surface by combining the microcontact imprinting method and the surface initiated photopolymerization

Kidakova, Anna; Söritski, Vitali; Reut, Jekaterina; Öpik, Andres MIP2016 : the 9th International Conference on Molecular Imprinting : June 26-30, 2016, Elite Hotel Ideon, Lund, Sweden 2016 / p. [221] : ill

Protein-imprinted polymer films as a biorecognition layer for surface acoustic wave sensing platform

Tretjakov, Aleksei; Söritski, Vitali; Reut, Jekaterina; Boroznjak, Roman; Öpik, Andres BITE 2015 : 4th International Conference on Bio-Sensing Technology : Lisbon, Portugal, 10-13 May 2015 2015 / [1] p

PVD grown SnS thin films onto different substrate surfaces

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

PV-mooduli toodang suurfarmis

Tomson, Teolan TEUK XVII : taastuvate energiaallikate uurimine ja kasutamine : seitsmeteistkümnenda konverentsi kogumik = Investigation and usage of renewable energy sources : seventeenth conference proceedings : [2015 : Tartu] 2015 / lk. 45-51 : ill

Päikesekiirgus maa poole suunatud kaldega pindadel

Tomson, Teolan TEUK XVI : taastuvate energiaallikate uurimine ja kasutamine : kuuteistkümnenda konverentsi kogumik = Investigation and usage of renewable energy sources : sixteenth conference proceedings 2014 / lk. 54-66 : ill

Päikesepaneelide hind langeb ja kasutamine kasvab

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

Radiative recombination in Cu₂ZnSnSe₄ thin films with Cu deficiency and Zn excess

Yakushev, M. V.; Marquez-Prieto, J.; Forbes, I.; Edwards, P. R.; Zhivulko, V. D.; Mudryi, A. V.; **Krustok, Jüri**; Martin, R. W. Journal of physics D : applied physics 2015 / p. 1-7 : ill <http://dx.doi.org/10.1088/0022-3727/48/47/475109>

Raman spectroscopic study of In₂S₃ films prepared by spray pyrolysis

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

Reaction enthalpies of CZTSe synthesis in KI

Leinemann, Inga; Kaljuvee, Tiit; Tõnsuaadu, Kaia; Altosaar, Mare Book of abstracts : 2nd Central and Eastern European Conference on Thermal Analysis and Calorimetry, 27-30 August 2013, Vilnius, Lithuania 2013 / p. 297

Reaction enthalpies of Cu₂ZnSnSe₄ synthesis in KI

Leinemann, Inga; Timmo, Kristi; Grossberg, Maarja; Kaljuvee, Tiit; Tõnsuaadu, Kaia; Traksmäa, Rainer; Altosaar, Mare; Meissner, Dieter Journal of thermal analysis and calorimetry 2015 / p. 1555-1564 : ill <http://dx.doi.org/10.1007/s10973-014-4339-5>

Reaction enthalpies of the CZTSe synthesis in NaI

Leinemann, Inga; Zhang, Weihao; Kaljuvee, Tiit; Tõnsuaadu, Kaia; Altosaar, Mare Book of abstracts : 2nd Central and Eastern European Conference on Thermal Analysis and Calorimetry, 27-30 August 2013, Vilnius, Lithuania 2013 / p. 296

Resorcinolic lipids as an essential source material of kukersite kerogen

Lille, Ülo; Kaevand, Toomas International Symposium "Oil shale 100 years" : Estonia, Sept. 20-23, 2016 : [abstracts] 2016 / p. 53-54

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

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

Rippling on wear scar surfaces of nanocrystalline diamond films after reciprocating sliding against ceramic balls
Podgurski, Vitali; Hantschel, Thomas; Bogatov, Andrei; Kimmari, Eduard; Antonov, Maksim; Viljus, Mart; Mikli, Valdek; Raadik, Taavi; Kulu, Priit Tribology letters 2014 / p. 493-501 : ill

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>

Selective performance of sol-gel synthesised titanium dioxide photocatalysts in aqueous oxidation of various-type organic pollutants
Klauson, Deniss; Budarnaja, Olga; Stepanova, Kristina; Kritševskaja, Marina; Dedova, Tatjana; Käkinen, Aleksandr; Preis, Sergei Kinetics and catalysis 2014 / p. 47-55 : ill

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

Selenization of molybdenum as contact material in solar cells : semiconductor materials
Kaupmees, Liina 2012

Selenization of molybdenum as contact material in solar cells = Molübdeeni kui päikesepatarei kontaktmaterjali seleniseerimine
Kaupmees, Liina 2011

SEM study of selenization of different thin metallic films = Õhukeste metallikilede seleniseerimise elektronmikroskoopiline uurimine
Volobujeva, Olga 2008 https://www.ester.ee/record=b2394529*est

Sensing small- and macromolecular targets using molecularly imprinted polymers interfaced with saw technology
Sõritski, Vitali; Tretjakov, Aleksei; Ayankojo, Akinrinade George; Reut, Jekaterina; Öpik, Andres MIP2016 : the 9th International Conference on Molecular Imprinting : June 26-30, 2016, Elite Hotel Ideon, Lund, Sweden 2016 / p. [74]

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

Solar cells based on polycrystalline copper-indium chalcogenides and conductive polymers
Bereznev, Sergei 2003 http://www.ester.ee/record=b1558007*est

Solar energy conversion using powder materials : a new technology to save our climate
Meissner, Dieter International Conference On Renewable Energy (INCORE 2016) : book of programme and abstract 2016 / p. 14

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

Spray pyrolysis deposition and characterization of highly c-axis oriented hexagonal ZnS nanorod crystals
Dedova, Tatjana; Gromōko, Inga; Krunks, Malle; Mikli, Valdek; Grossberg, Maarja; Sildos, Ilmo; Utt, Kathriin; Vessart, Risto; Unt, Tarmo Crystal research and technology 2015 / p. 85-92 : ill <http://dx.doi.org/10.1002/crat.201400172>

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

Structural and compositional properties of CZTS thin films formed by rapid thermal annealing of electrodeposited layers
Lehner, Julia; Loorits, Mihkel; Revathi, Naidu; Raadik, Taavi; Raudoja, Jaan; Grossberg, Maarja; Mellikov, Enn; Volobujeva, Olga; Ganchev, Maxim Journal of crystal growth 2013 / p. 236-240 : ill

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 properties of cadmium sulfide thin films modified by hydrogen annealing

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

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

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

Study of composition and thermal treatments of quaternary compounds for monograin layer solar cells =

Päikesepatareides kasutatavate monoterapulbriliste nelikühendite koostise ja termotötluste uurimine

Muska, Katri 2012 https://www.ester.ee/record=b2882895*est

Study of CZTS nano-powder synthesis by hot injection method by variation of Cu and Zn concentrations

Kumar, Suresh; Kumar, Vikash; Mikli, Valdek; Varema, Tiit; Altosaar, Mare; Grossberg, Maarja Energy procedia 2016 / p. 136-143 : ill <https://doi.org/10.1016/j.egypro.2016.11.328>

Study of In₂Se₃ and ZnS thin films deposited by ultrasonic spray pyrolysis and chemical deposition = Ultraheli pihustuspürolüüsi ja keemilise sadestamise meetodil kasvatatud In₂Se₃ ja ZnS õhukeste kilede uurimine

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

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

Study of structural and optoelectronic properties of Cu₂Zn(Sn_{1-x}Ge_x)Se₄ (x = 0 to 1) alloy compounds

Grossberg, Maarja; Timmo, Kristi; Raadik, Taavi; Kärber, Erki; Mikli, Valdek; Krustok, Jüri Thin solid films 2015 / p. 176-179 : ill <http://dx.doi.org/10.1016/j.tsf.2014.10.055>

Study of synthesis and redox switching of polypyrrole and poly(3,4-ethylenedioxythiophene) by using in-situ techniques

Sõritski, Vitali 2004 https://www.ester.ee/record=b1994290*est

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; Krunk, Malle Solar energy 2015 / p. 562-568 : ill <http://dx.doi.org/10.1016/j.solener.2015.02.046>

Study of the impact of the treatment period on the surface characteristics of nitinol heat-activated orthodontic wires

Petrov, Valery; Andreeva, Laura; Terzieva, Stanimira; Stoyanova-Ivanova, Angelina; Kovacheva, Daniela; Mikli, Valdek; Ilievska, Ivana International journal of science and research (IJSR) 2015 / p. 3190-3193 : ill <http://www.ijer.net/archive/v4i4/SUB153329.pdf>

Study of the ultrafine-grains intrinsic nanostructure refinement by severe plastic deformation of copper alloys

Kommel, Lembit; Veinthal, Renno; Mikli, Valdek; Dedov, Andrei OAS 2015 : proceedings of the 3rd [i.e. 3rd] International Conference Optimization and Analysis of Structures III : Tartu, Estonia, August 23-25, 2015 2015 / p. 28-32 : ill

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, Kathrin Materials science in semiconductor processing 2015 / p. 315-324 : ill <http://dx.doi.org/10.1016/j.mssp.2014.12.012>

Surface molecularly imprinted polydopamine films for recognition of immunoglobulin G

Tretjakov, Aleksei; Sõritski, Vitali; Reut, Jekaterina; Boroznjak, Roman; Volobujeva, Olga; Öpik, Andres Microchimica acta 2013 / p. 1433-1442 : ill

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

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

Surface plasmon resonance in ZnO nanorod arrays caused by gold nanoparticles for solar cell application

Gromõko, Inga; Oja Acik, Ilona; Krunk, Malle; Dedova, Tatjana; Katerski, Atanas; Mere, Arvo; Mikli, Valdek; Vessart, Risto Physica status solidi (c) 2015 / p. 1338-1343 : ill <http://dx.doi.org/10.1002/pssc.201510103>

Sõnavõtt Eesti Vabariigi teaduspreemiate, kultuuripreemiate, spordipreemiate ning F. J. Wiedemanni keeleauhinna kätteandmisel : 24. veebruaril 2013 Eesti Teaduste Akadeemia saalis

Synthesis and characterisation of Cu₂ZnSnSe₄ thin films prepared via a vacuum evaporation-based route

Volobujeva, Olga; Bereznev, Sergei; Raudoja, Jaan; Otto, Kairi; Pilvet, Maris; Mellikov, Enn Thin solid films 2013 / p. 48-51 : ill

Synthesis of Cu₂(ZnCd)SnS₄ absorber material for monograin membrane applications

Nkwusi, Godswill; Leinemann, Inga; Raudoja, Jaan; Mikli, Valdek; Kauk-Kuusik, Marit; Altosaar, Mare; Mellikov, Enn MRS proceedings 2014

Synthesis of Cu₂ZnSnS₄ solar cell absorber material by sol-gel method

Kumar, Suresh; Kasubosula, Bharath; Looerts, Mihkel; Raudoja, Jaan; Mikli, Valdek; Altosaar, Mare; Grossberg, Maarja Energy procedia 2016 / p. 102-109 : ill <https://doi.org/10.1016/j.egypro.2016.11.324>

Zinc oxide rods on different TCO substrates and seed layers by electrochemical deposition

Gromöko, 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 <http://dx.doi.org/10.1016/j.apsusc.2016.06.093>

ZnO nanorods grown electrochemically on different metal oxide underlays

Gromöko, Inga; Dedova, Tatjana; Krunks, Malle; Söritski, Vitali; Mere, Arvo; Mikli, Valdek; Unt, Tarmo; Oja Acik, Ilona IOP conference series : materials science and engineering 2015 / p. 1-5 : ill <http://dx.doi.org/10.1088/1757-899X/77/1/012012>

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

ZnS buffer layer for Cu₂ZnSn(SSe)₄ monograin layer solar cell

Nguyen, Mai; Ernits, Kaia; Meissner, Dieter Solar energy 2015 / p. 344-349 : ill <http://dx.doi.org/10.1016/j.solener.2014.11.006>

ZnS thin films and nanostructured layers by chemical spray pyrolysis

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

Talveakadeemia 2014 : teaduslikud lühiaartiklid : kogumik = Winteracademy 2014 : scientific articles : publications 2014

Teaching sustainable energetics

Meissner, Dieter; Burk, Peeter; Koppel, Ilmar; Lust, Enn; Mellikov, Enn; Öpik, Andres International Conference On Renewable Energy (INCORE 2016) : book of programme and abstract 2016 / p. 13

Teaduspreemia pikaajalise tulemusliku teadus- ja arendustöö eest [Enn Mellikov'ile]

Mellikov, Enn Eesti Vabariigi teaduspreemiad 2013 2013 / lk. 22-34 : portr

Temperature dependent current transport properties in Cu₂ZnSnS₄ solar cells

Danilson, Mati; Kask, Erkki; Pokharel, Nikhil; Grossberg, Maarja; Kauk-Kuusik, Marit; Varema, Tiit; Krustok, Jüri Thin solid films 2015 / p. 162-165 : ill <http://dx.doi.org/10.1016/j.tsf.2014.10.069>

Temperature dependent electrical properties of kesterite monograin layer solar cells = Kesteriitsete monoterakihiliste päikesepatareide elektriliste omaduste temperatuursõltuvused

Danilson, Mati 2016 <https://digi.lib.ttu.ee/i/?5113> https://www.ester.ee/record=b4565639*est

Temperature dependent electroreflectance study of CdTe solar cells

Raadik, Taavi; Krustok, Jüri; Josepson, Raavo; Hiie, Jaan; Potlog, Tamara; Spalatu, Nicolae Thin solid films 2013 / p. 279-282 : ill

Temperature dependent electroreflectance study of Cu₂ZnSnSe₄ solar cells

Krustok, Jüri; Raadik, Taavi; Grossberg, Maarja; Giraldo, Sergio; Neuschitzer, Markus; Lopez-Marino, Simon; Saucedo, Edgardo Materials science in semiconductor processing 2015 / p. 251-254 : ill <http://dx.doi.org/10.1016/j.mssp.2015.04.055>

Temperature-dependent photorefectance of SnS crystals

Raadik, Taavi; Grossberg, Maarja; Raudoja, Jaan; Traksmäa, Rainer; Krustok, Jüri Journal of physics and chemistry of solids

Template synthesis of titanium dioxide coatings and determination of their photocatalytic activity by aqueous oxidation of humic acid

Budarnaja, Olga; Klauson, Deniss; Dedova, Tatjana; Kärber, Erki; Viljus, Mart; Preis, Sergei Kinetics and catalysis 2014 / p. 688-694 : ill

Terahertz spectroscopy of low-dimensional spin systems = Madalamööduliste spinnsüsteemide terahertsspektroskoopia
Hüvonen, Dan 2008 https://www.ester.ee/record=b2375139*est

The crystal structure and optical properties of CdTe nano-composite obtained by treatment of GaTe layers in Cd vapor
Spalatu, Nicolae; Caraman, Iuliana; Untila, Dumitru; Hiie, Jaan EMRS-2014 Spring Meeting, Lille, France : May 26-30. Symposium W, Crystals for energy conversion and storage 2014 / p. 16

The effect of Cr and C on the characteristics of WC-FeCr hardmetals [Electronic resource]

Tarraste, Marek; Juhani, Kristjan; Kübarsepp, Jakob; Pirso, Jüri; Mikli, Valdek Euro PM2015 Congress & Exhibition : proceedings : 4-7 October 2015, Reims Congress Centre, Reims, France 2015 / [6] p. : ill. [USB]

The effect of tartaric acid in the deposition of Sb₂S₃ films by chemical spray pyrolysis

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

The Faculty of Chemical and Materials Technology 2012-2013

2014 https://www.ester.ee/record=b3078114*est

The Faculty of Chemical and Materials Technology 2014-2015

2016 http://www.ester.ee/record=b3078114*est

The processes and enthalpies in synthesis of Cu₂ZnSnS₄ in molten CdI₂

Nkwusi, Godswill; Leinemann, Inga; Altosaar, Mare International advanced research journal in science, engineering and technology 2016 / p. 113-119 : ill <http://dx.doi.org/10.17148/IARJSET.2016.3524>

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

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

The use of high-temperature superconducting cuprate as a dopant to the negative electrode in Ni-Zn batteries

Stoyanova-Ivanova, Angelina; Terzieva, Stanimira; Mikli, Valdek Bulgarian chemical communications 2015 / p. 221-228 : ill

Thermal analysis of oxy-combustion of Estonian oil shale : kinetics of process stages

Triikkel, Andres; Meriste, Tõnis; Yörük, Can Rüstü; Kuusik, Rein, keemik 3rd Central and Eastern European Conference on Thermal Analysis and Calorimetry, 25-28 August 2015, Ljubljana, Slovenia : book of abstracts 2015 / p. 59

Thermal annealing of sequentially deposited SnS thin films

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

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

Thermal decomposition study of H₂AuCl₄·3H₂O 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 H₂AuCl₄·3H₂O 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

Thermal model of building integrated air type photovoltaic-thermal system under varying conditions

Jagomägi, Andri EU PVSEC 2016 : 32nd European Photovoltaic Solar Energy Conference and Exhibition : 21-24 June 2016, München, Germany 2016 / p. 2740-2745 <http://dx.doi.org/10.4229/EUPVSEC20162016-6AV.5.8>

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 <http://dx.doi.org/10.1007/s10973-015-4481-8>

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 <http://dx.doi.org/10.1007/s10973-015-4580-6>

Thermo-oxidation characteristics of oil shale and oil shale char under oxy-fuel combustion conditions

Yörük, Can Rüstü; Meriste, Tõnis; Triikkel, Andres; Kuusik, Rein, keemik Journal of thermal analysis and calorimetry 2015 / p. 509-516 : ill <http://dx.doi.org/10.1007/s10973-015-4484-5>

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

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

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

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

Transient processes of solar radiation

Tomson, Teolan Theoretical and applied climatology 2013 / p. 403-408 : ill

TTÜ aasta noorteadlane 2015 on Marja Grossberg

Grossberg, Maarja Mente et Manu 2016 / lk. 22-23 : fot http://www.ttu.ee/public/u/ulikool/Tutvustus/ajaleht-mente-et-manu/MM_2016_04/index.html https://artiklid.elnet.ee/record=b2797104*est

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

Uue ajastu talupidaja tõestab päikeseenergia tasuvust

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

Влияние облучения низкоэнергетическими электронами в растровом электронном микроскопе на параметры полупроводниковых приборов

Meiler, Boriss; Kropman, Daniel; Levtsenkova, Alla Микроэлектроника 1987 / с. 165-169 : илл https://www.ester.ee/record=b2147720*est

Исследование термостимулированной провидимости и эффекта Холла в пленках CdS

Kropman, Daniel Полупроводниковые материалы. 1 1969 / с. 97-105 : илл https://www.ester.ee/record=b1346474*est <https://digikogu.taltech.ee/et/Item/da24f532-932d-41c5-8925-a52dfa4b18c8/>

Исследование уровней прилипания в пленках сульфида кадмия

Kropman, Daniel Сборник статей по химии и химической технологии. 19 1968 / с. 87-92 : илл https://www.ester.ee/record=b2182213*est <https://digikogu.taltech.ee/et/Item/026f8881-5a73-4588-acba-0b1ffe988b0f>

Электроосаждение полипиррола в качестве тыльного контакта для солнечного элемента CdS/CdTe

Bereznev, Sergei; Kois, Julia; Jarkov, Aleksandr; Öpik, Andres; Mellikov, Enn Шестая Всероссийская Каргинская конференция "Полимеры - 2014". Том I, Программа конференции и сборник тезисов пленарных, приглашённых, и устных докладов 2014 / с. 165