

Advancing green hydrogen production : synthesizing and analyzing nickel and iron micro-flower shaped electrocatalysts on Ni-mesh for alkaline water electrolysis

Jäger, Rutha; Valk, Peeter; Grozovski, Vitali; **Volobujeva, Olga**; Prits, Alise-Valentine; Maide, Martin; Küngas, Rainer; Lust, Enn; Nerut, Jaak 246th ECS Meeting PRIME 2024; Honolulu, Hawaii, USA; October 6-11, 2024 <https://doi.org/10.1149/MA2024-02422814mtgabs>

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

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

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

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

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

Revathi, Naidu; **Bereznev, Sergei**; **Loorits, Mihkel**; **Raudoja, Jaan**; **Lehner, Julia**; **Gurevitš, Jelena**; **Traksmaa, Rainer**; **Mikli, Valdek**; **Mellikov, Enn**; **Volobujeva, Olga** Journal of vacuum science & technology A 2014 / p. 061506-1 - 061506-6 : ill <https://doi.org/10.1116/1.4896334> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Antistruktuurkorrastamatus ja p-tüüpi elektrijuhtivus tsinksulfidid

Lott, Kalju; **Türn, Leo**; **Volobujeva, Olga**; Leskelä, M. XXVII Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid = 27th Estonian Chemistry Days : abstracts of scientific conference 2001 / lk. 75-76

Assessment of mechanically mixed layer developed during high temperature erosion of cermets

Antonov, Maksim; **Hussainova, Irina**; **Pirso, Jüri**; **Volobujeva, Olga** Wear 2007 / 2, p. 878-886 : ill

Bifunctional platinum-free mixed metal oxygen electrocatalysts based on naturally abundant peat

Teppor, Patrick; Jäger, Rutha; Härmas, Meelis; Aruväli, Jaan; **Volobujeva, Olga**; Koppel, Mirjam; Lust, Enn ECS Meeting Abstracts 2022 / p. 29-37 : ill <https://doi.org/10.1149/10807.0029ecst> [Journal metrics at Scopus](#) [Article at Scopus](#)

Carbon aerogel platinum-praseodymium oxide nanocatalyst for methanol oxidation in 0.5 M sulfuric acid : (digital presentation)

Prits, Alise-Valentine; Nerut, Jaak; Kasuk, Heili; **Koel, Mihkel**; Sepp, Silver; Valk, Peeter; Aruväli, Jaan; Koppel, Miriam; **Mikli, Valdek**; **Volobujeva, Olga**; Lust, Enn ECS transactions 2022 / art. 79 <https://doi.org/10.1149/10807.0079ecst> [Journal metrics at Scopus](#) [Article at Scopus](#)

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

Neumüller, A.; **Bereznev, Sergei**; Ewert, M.; **Volobujeva, Olga** Applied physics letters 2016 / p. 043903-1 - 043903-4 : ill <https://doi.org/10.1063/1.4959995> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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 <https://doi.org/10.1016/j.apsusc.2013.07.056> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Characterization of nanoporous TiO₂ films prepared by sol-gel method

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

Characterization of nanoporous TiO₂ films prepared by sol-gel method

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

Characterization of polysaccharide gels by gradient NMR and microscopy methods : a comparative study

Tuvikene, Rando; Matsukawa, Shingo; Ogawa, Hiroo; Robal, Marju; Truus, Kalle; **Volobujeva, Olga**; **Mellikov, Enn** IUPAC International Congress on Analytical Sciences 2011 : 22-26 May 2011, Kyoto, Japan 2011 / p. 23P195

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 <https://doi.org/10.1007/s10854-014-1998-8> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Chemical bath deposition of ZnS films using different Zn-salts

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

Chemical diffusion in undoped ZnS and undoped CdSe

Lott, Kalju; Nirk, Tiit; Volobujeva, Olga E-MRS Spring Meeting 2002 : June 18-21, 2002. Symposium L, Crystal Chemistry of Fundamental Materials II 2002 / p. L-10

Chemical etching of Cu₂ZnSn(S,Se)₄ monograin powder

Timmo, Kristi; Altosaar, Mare; Raudoja, Jaan; Grossberg, Maarja; Danilson, Mati; Volobujeva, Olga; Mellikov, Enn 35th IEEE Photovoltaic Specialists Conference : Honolulu, HI, June 20-25, 2010 : conference proceedings 2010 / p. 1982-1985 : ill

Chemical self-diffusion in undoped ZnS and in undoped CdSe

Lott, Kalju; Nirk, Tiit; Volobujeva, Olga Crystal engineering 2002 / 3/4, Special issue, Crystal chemistry of functional materials II : proceedings of Symposium L, E-MRS Spring Meeting : June 18-21, 2002, p. 147-153 : ill

Chemical spray deposition of zinc oxide nanostructured layers from zinc acetate solutions

Dedova, Tatjana; Klauson, Jelena; Badre, C.; Pauporte, Th.; Nisumaa, Reet; Mere, Arvo; Volobujeva, Olga; Krunk, Malle
Physica status solidi (a) : applications and materials science 2008 / 10, p. 2355-2359 : ill
<https://onlinelibrary.wiley.com/doi/abs/10.1002/pssa.200779440>

Chloromethylation of lignin as a route to functional material with catalytic properties in cross-coupling and click reactions

Mohan, Mahendra Kothottil; Silenko, Oleg; Krasnou, Illia; Volobujeva, Olga; Kulp, Maria; Ošeka, Maksim; Lukk, Tiit; Karpichev, Yevgen ChemSusChem 2024 / art. e202301588 <https://doi.org/10.1002/cssc.202301588>

Chloromethylation of lignin as a route to functional material with catalytic properties in cross-coupling and click reactions : preprint

Mohan, Mahendra Kothottil; Silenko, Oleg; Krasnou, Illia; Volobujeva, Olga; Kulp, Maria; Ošeka, Maksim; Lukk, Tiit; Karpichev, Yevgen ChemRxiv 2023 / 20 p <https://doi.org/10.26434/chemrxiv-2023-w98xc>

Cobalt and nitrogen co-doped peat derived carbon based catalysts for oxygen reduction

Jäger, Rutha; Teppor, Patrick; Härk, Eneli; Härmas, Meelis; Adamson, Anu; Paalo, Maarja; Volobujeva, Olga; Kikas, Arvo; Kochovski, Zdravko; Romann, Tavo ECS Transactions 2020 / p. 605-613 : ill <https://doi.org/10.1149/09707.0605ecst> [Journal metrics at Scopus](#) [Article at Scopus](#)

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

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

A comparative study of the growth dynamics and tribological properties of nanocrystalline diamondfilms deposited on the (110) single crystal diamond and Si(100) substrates

Podgurski, Vitali; Bogatov, Andrei; Yashin, Maxim; Viljus, Mart; Volobujeva, Olga; Mere, Arvo; Raadik, Taavi Diamond and related materials 2019 / p. 159-167 : ill <https://doi.org/10.1016/j.diamond.2018.12.024> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Conductive polymer back contact in CdTe based solar cell

Bereznev, Sergei; Kois, Julia; Volobujeva, Olga; Öpik, Andres EMRS-2009 Spring Meeting, Strasbourg, France, 8-12 of June 2009, Symposium A 2009 / p. 25

Conductive polymer PEDOT:PSS back contact for CdTe solar cell

Jarkov, Aleksandr; Bereznev, Sergei; Laes, Kristjan; Volobujeva, Olga; Traksmäa, Rainer; Öpik, Andres; Mellikov, Enn Thin solid films 2011 / p. 7449-7452 : ill

Crucial gel-forming processes of red algal galactans [Electronic resource]

Tuvikene, Rando; Truus, Kalle; Volobujeva, Olga; Mellikov, Enn; Pehk, Tõnis World Polymer Congress : 41st International Symposium on Macromolecules : MACRO 2006 : 16-21 July 2006, Rio de Janeiro, Brazil 2006 / [CD-ROM]

CZTS monograin powders and thin films

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

Cu₂ZnSnSe₄ films by selenization of Sn-Zn-Cu sequential films

Volobujeva, Olga; Raudoja, Jaan; Mellikov, Enn; Grossberg, Maarja; Bereznev, Sergei; Traksmäa, Rainer Journal of physics and chemistry of solids 2009 / p. 567-570 : ill

Cu₂ZnSnSe₄ films from binary precursors

Volobujeva, Olga; Mellikov, Enn; Timmo, Kristi; Danilson, Mati; Bereznev, Sergei Journal of Renewable and Sustainable Energy 2013 / art. 031618 <https://doi.org/10.1063/1.4811242> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Cu₂ZnSnSe₄ thin films by selenization of stacked binaries

Volobujeva, Olga; Mellikov, Enn; Bereznev, Sergei; Raudoja, Jaan; Otto, Kairi; Pilvet, Maris; Raadik, Taavi E-MRS Spring Meeting 2012 - Symposium B : Strasbourg, France, May 14-18, 2012 : program and abstract book 2012 / p. 20

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

Volobujeva, Olga; Mellikov, Enn; Bereznev, Sergei; Raudoja, Jaan; Öpik, Andres; Raadik, Taavi Materials Challenges in Alternative and Renewable Energy: a collection of papers presented at the Materials Challenges in Alternative and Renewable Energy Conference February 21-24, 2010, Cocoa Beach, Florida 2011 / p. 257-263

Cu₂(Zn_xSn_{2-x})(SySe_{1-y})₄ monograin materials for photovoltaics

Mellikov, Enn; Altosaar, Mare; Raudoja, Jaan; Timmo, Kristi; Volobujeva, Olga; Kauk, Marit; Krustok, Jüri; Varema, Tiit; Grossberg, Maarja; Danilson, Mati; Muska, Katri; Ernits, Kaia; Lehner, Franz; Meissner, Dieter Materials Challenges in Alternative and Renewable Energy: a collection of papers presented at the Materials Challenges in Alternative and Renewable Energy Conference February 21-24, 2010, Cocoa Beach, Florida 2011 / p. 137-142 : ill

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

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

CuInS₂-Poly(3-(ethyl-4-butanoate)thiophene) nanocomposite solar cells : preparation by an in situ formation route, performance and stability issues

Maiera, Eugen; Ratha, Thomas; Haas, Wernfried; Werzer, Oliver; Saf, Robert; Hofer, Ferdinand; Meissner, Dieter; Volobujeva, Olga; Bereznev, Sergei; Mellikov, Enn; Amenitsch, Heinz; Resel, Roland; Trimmel, Gregor Solar energy materials and solar cells 2011 / p. 1354-1361 : ill

Deposition and characterization of zinc-tin oxide thin films with varying material compositions

Spasova, Stanka; Dulev, Vladimir; Benkovsky, Alexander; Palankovski, Vassil; Radeva, Ekaterina; Stoykov, Rumen; Nenova, Zoya; Dikov, Hristosko; Katerski, Atanas; Volobujeva, Olga Coatings 2025 / art. 225 <https://doi.org/10.3390/coatings15020225>

Development of porous TiO₂ thin films by sol-gel process

Oja, Ilona; Sabataityte, Julija; Volobujeva, Olga; Krunks, Malle The Fourth International Conference on Advanced Optical Materials and Devices : (AOMD-4) : Tartu, Estonia, July 6-9, 2004 : abstracts 2004 / p. 46

(Digital) Oxygen reduction reaction on waste tire derived carbon material and synthesized non-platinum group metal catalysts in alkaline solution

Laanemäe, Joel; Jäger, Rutha; Teppor, Patrick; Volobujeva, Olga; Lust, Enn ECS Meeting Abstracts 2022 / p. 39-47 : ill <https://doi.org/10.1149/10807.0039ecst> [Journal metrics at Scopus](#) [Article at Scopus](#)

Directional conductivity in layered alumina

Hussainova, Irina; Saffarshamshirgar, Ali; Ivanov, Roman; Volobujeva, Olga; Romanov, Alexey; Gasik, Michael Current applied physics 2022 / p. 68-73 : ill <https://doi.org/10.1016/j.cap.2020.06.009> [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 the substrate surface on properties of RF sputtered magnetronantimony selenide (Sb₂Se₃) for thin-films

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

Effects of sulphur and tin disulphide vapour treatments of Cu₂ZnSnS(Se)₄ absorber materials for monograin solar cells

Kauk, Marit; Muska, Katri; Altosaar, Mare; Raudoja, Jaan; Pilvet, Maris; Varema, Tiit; Timmo, Kristi; Volobujeva, Olga Energy procedia 2011 / p. 197-202 <https://www.sciencedirect.com/science/article/pii/S1876610211020030>

Efficient defect-driven cation exchange beyond the nanoscale semiconductors toward antibacterial functionalization

Polivtseva, Svetlana; Volobujeva, Olga; Kuznietsov, Ivan; Kaupmees, Reelika; Danilson, Mati; Krustok, Jüri; Molaiyan, Palanivel; Hu, Tao; Lassi, Ulla; Klopov, Mihhail; van Gog, Heleen; van Huis, Marijn A.; Kaur, Harleen; Ivask, Angela; Rosenberg, Merilin; Gathergood, Nicholas; Ni, Chaoying; Grossberg-Kuusk, Maarja ACS applied materials & interfaces 2024 / p. 62871-62882 <https://doi.org/10.1021/acsami.4c11425>

Electrochemical etching of copper indium diselenide surface

Kois, Julia; Bereznev, Sergei; Volobujeva, Olga; Mellikov, Enn Thin solid films 2006 / 15, p. 5871-5875 : ill

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

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

<https://doi.org/10.1016/j.matlet.2012.11.122> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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

Kois, Julia; Bereznev, Sergei; Volobujeva, Olga; Gurevits, Jelena; Mellikov, Enn Journal of crystal growth 2011 / p. 9-12 : ill

Electrodeposited molybdenum oxide coatings for thin film chalcopyrite solar cells

Ganchev, Maxim; Dimitrov, Dimiter; Stankova, Stanka; Katerski, Atanas; Gadjev, Iliya; Volobujeva, Olga; Mere, Arvo; Bereznev, Sergei; Krunk, Malle 10th Jubilee Conference of the Balkan Physical Union 2019 / art. 140002 <https://doi.org/10.1063/1.5091317>

[Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Electrodeposited nanostructured CdSe/CdS matrix for hybrid solar cells [Online resource]

Maricheva, Jelena; Bereznev, Sergei; Maticiu, Natalia; Volobujeva, Olga; Kois, Julia Tartu Ülikooli ASTRA projekt PER

ASPERA : Funktsionaalsed materjalid ja tehnoloogiad : [7-8 märts 2017, Tartu : teesid] 2017 / [1] p. : ill <http://fntdk.ut.ee/teesid/>

Electrodeposition and characterization of CuInSe₂ for applications in thin film solar cells

Kois, Julia; Bereznev, Sergei; Volobujeva, Olga; Mellikov, Enn Conference on Knowledge-based Materials and Technologies for Sustainable Chemistry : 1-5 June 2005, Tallinn, Estonia : abstract book 2005 / p. 93

Electrodeposition of Cu-In-Ga thin metal films for Cu(In, Ga)Se₂ based solar cells

Kois, Julia; Ganchev, M.; Kaelin, M.; Bereznev, Sergei; Tzvetkova, E.; Volobujeva, Olga; Stratieva, N.; Tiwari, A.N. Thin solid films 2008 / 18, p. 5948-5952 : ill <https://www.sciencedirect.com/science/article/pii/S0040609007017415>

Exploring different synthesis parameters for the preparation of metal-nitrogen-carbon type oxygen reduction catalysts

Teppor, Patrick; Jäger, Rutha; Härk, Eneli; Sepp, Silver; Kook, Mati; Volobujeva, Olga; Paiste, Päärn; Kochovski, Zdravko; Tallo, Indre; Lust, Enn Journal of the Electrochemical Society 2020 / art. 054513 <https://doi.org/10.1149/1945-7111/ab7093> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Faasiüleminek tahketes lahustes CdSexTe1-x

Volobujeva, Olga; Nirk, Tiit XXIII Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid 1997 / lk. 161

Fabrication of novel SiO_xNy/SWCNT laminate-type composite protective coating using low-temperature approach

Shmagina, Elizaveta; Volobujeva, Olga; Nasibulin, Albert; Bereznev, Sergei Ceramics international 2024 / p. 34312-34320 <https://doi.org/10.1016/j.ceramint.2024.06.250>

Formation of Cu₂ZnSnS₄ absorber layers for solar cells by electrodeposition-annealing route

Iljina, Julia; Zhang, R.; Ganchev, Maxim; Raadik, Taavi; Volobujeva, Olga; Altosaar, Mare; Traksmaa, Rainer; Mellikov, Enn Thin Solid Films 2013 / p. 85 - 89 <https://doi.org/10.1016/j.tsf.2013.04.038> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Formation of Cu₂ZnSnSe₄ thin films by selenization of electrodeposited stacked binary alloy layers

Ganchev, Maxim; Kaupmees, Liina; Iljina, Julia; Raudoja, Jaan; Altosaar, Mare; Volobujeva, Olga; Mellikov, Enn; Varema, Tiit; Dikov, H. Proceedings of EMRS, Strasbourg, June 2009 2009 / ? p https://www.researchgate.net/publication/248608013_Formation_of_Cu2ZnSnSe4_thin_films_by_selenization_of_electrodeposited_stacked_binary_alloy_layers

Formation of Cu₂ZnSnSe₄ thin films by selenization of electrodeposited stacked binary alloy layers

Ganchev, Maxim; Kaupmees, Liina; Iljina, Julia; Raudoja, Jaan; Volobujeva, Olga; Dikov, H.; Altosaar, Mare; Mellikov, Enn; Varema, Tiit Energy procedia 2010 / 1, p. 65-70 : ill https://www.researchgate.net/publication/248608013_Formation_of_Cu2ZnSnSe4_thin_films_by_selenization_of_electrodeposited_stacked_binary_alloy_layers

Formation of CuI₂ZnSnSI and CuI₂ZnSnSeI by chalcogenisation of electrochemically deposited precursor layers = CuI₂ZnSnSeI ja CuI₂ZnSnSI moodustumine elektrokeemiliselt sadestatud kihtide kalkogeniseerimisel

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

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 SnO₂ electrodes by spray pyrolysis

Dedova, Tatjana; Volobujeva, Olga; Gromõko, Inga; Mikli, Valdek; Mere, Arvo; Krunks, Malle TÜ ja TTÜ doktorikool
"Funktsionaalsed materjalid ja tehnoloogiad" 2013 / [1] p

Growth of ZnO rods on FTO electrodes by spray pyrolysis

Dedova, Tatjana; Volobujeva, Olga; Krunks, Malle; Mikli, Valdek; Gromõko, Inga; Katerski, Atanas; Mere, Arvo IOP
conference series : materials science and engineering 2013 / [4] p. : ill <https://doi.org/10.1088/1757-899X/49/1/012001> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

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 temperature electrical conductivity in Cu-doped ZnS

Lott, Kalju; Tünn, Leo; Volobujeva, Olga; Leskelä, M. Physica status solidi (b) 2002 / 1/2, proceedings [of] the Tenth International Conference on II-VI Compounds, September 9-14, 2001, Bremen, Germany, p. 361-364 : ill

High temperature electrical conductivity in donor-doped II-VI compounds

Lott, Kalju; Volobujeva, Olga; Öpik, Andres; Nirk, Tiit; Tünn, Leo; Nöges, M. Physica status solidi (c) 2003 / 2, Proceedings 10th International Conference on Shallow Level Centers in Semiconductors (SLCS-10) : Warsaw, Poland, 24-27 July 2002, p. 618-621 : ill <https://onlinelibrary.wiley.com/doi/abs/10.1002/pssc.200306185>

High temperature electrical conductivity in donor-doped II-VI compounds

Lott, Kalju; Volobujeva, Olga; Öpik, Andres; Nirk, Tiit; Tünn, Leo; Nöges, M. 10th International Conference on Shallow-level Centers in Semiconductors : SLCS-10, Warsaw, Poland, July 24-27, 2002 : program & abstracts 2002 / p. 42

High temperature electrical conductivity in Ga and In solubility limit region in ZnS

Lott, Kalju; Raukas, Maie; Volobujeva, Olga; Vishnjakov, A.; Grebennik, A. International journal of inorganic materials 2001 / 8, p. 1345-1347 : ill

High temperature electrical conductivity in ZnSe:In and in CdSe:In under selenium vapor pressure

Lott, Kalju; Šinkarenko, Svetlana; Volobujeva, Olga; Tünn, Leo; Nirk, Tiit; Öpik, Andres; Nisumaa, Reet; Kallavus, Urve; Nöges, M.; Mikli, Valdek; Viljus, Mart; Gorokhova, Elena; Ananjeva, G.; Grebennik, A.; Vishnjakov, A. Physica status solidi (b) 2007 / 5, p. 1623-1626
https://www.researchgate.net/publication/238892320_High_temperature_electrical_conductivity_in_ZnSeIn_and_in_CdSeIn_under_selenium_vapor_pressure

High temperature electrical conductivity in the Ag solubility limit region in ZnS and in CdSe

Lott, Kalju; Nirk, Tiit; Raukas, Maie; Volobujeva, Olga; Öpik, Andres; Vishnjakov, A. International journal of inorganic materials 2001 / 8, p. 1295-1297 : ill

High temperature electrical conductivity in the Cu-doped ZnS

Lott, Kalju; Tünn, Leo; Volobujeva, Olga; Leskelä, M. The Tenth International Conference on II-VI Compounds (II-VI 2001) : September 9-14, 2001, Bremen, Germany : [abstracts] 2001 / p. Tu-P29

High temperature electrical conductivity of undoped ZnS

Lott, Kalju; Tünn, Leo; Volobujeva, Olga; Leskelä, M. The 21st International Conference on Defects in Semiconductors : ICDS : July 16-20, 2001, Gissen (Germany) 2001 / p. 310

High temperature electrical conductivity of undoped ZnS

Lott, Kalju; Tünn, Leo; Volobujeva, Olga; Leskelä, M. Physica B 2001 / p. 932-934 : ill

High temperature investigation of ZnS:Ga and CdSe:Ga

Lott, Kalju; Nirk, Tiit; Volobujeva, Olga; Šinkarenko, Svetlana; Tünn, Leo; Kallavus, Urve; Grebennik, A.; Vishnjakov, A. Physica B 2006 / Proceedings of the 23rd International Conference on Defects in Semiconductors : ICDS-23 : held in Awaji Island, Japan, 24-29 July, 2005. p. 764-766 : ill <https://www.sciencedirect.com/science/article/pii/S0921452605015796>

High temperature investigation of ZnS:Ga and CdSe:Ga

Lott, Kalju; Nirk, Tiit; Volobujeva, Olga; Šinkarenko, Svetlana; Grebennik, A.; Vishnjakov, A. The 23rd International Conference on Defects in Semiconductors : ICDS-23 : Awaji island, Japan, July 24 - July 29, 2005 : program and abstracts 2005 / p. 210 : ill

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

Adhikari, Nirmal; Bereznev, Sergei; Laes, Kristjan; Kois, Julia; Volobujeva, Olga; Raadik, Taavi; Öpik, Andres; Traksmäa, Rainer; Tverjanovich, Andrey Baltic Polymer Symposium 2010 : Palanga, September 8-11, 2010 : programme and abstracts 2010 / p. 124 https://www.researchgate.net/publication/257710082_High-Vacuum_Evaporation_of_n-CuIn3Se5_Photoabsorber_Films_for_Hybrid_PV_Structures

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

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

Highly active Fe-N/C oxygen electrocatalysts based on silicon carbide derived carbon

Teppor, Patrick; Jäger, Rutha; Hints, J.; Volobujeva, Olga; Valk, Peeter; Koppel, Miriam; Lust, Enn Polymer Electrolyte Fuel Cells & Electrolyzers 20 (PEFC & E 20) 2020 / p. 607 - 615 <https://doi.org/10.1149/09809.0607ecst> Conference Proceedings at Scopus Article at Scopus

Highly conductive PEDOT-PSS back contact layer for CdTe photoabsorber layer in the solar cell

Bereznev, Sergei; Volobujeva, Olga; Laes, Kristjan; Kois, Julia; Öpik, Andres ICSM-2008 : International Conference of Science and Technology of Synthetic Metals : Porto de Galinhas, Brazil, July 6-11, 2008 : book of abstracts 2008 / p. 160 <https://www.sciencedirect.com/science/article/pii/S0040609011000940>

High-temperature electrical conductivity of codoped ZnS and CdSe

Lott, Kalju; Volobujeva, Olga; Nirk, Tiit; Tünn, Leo; Öpik, Andres; Gorohova, E. Physica B 2003 / p. 263-266 : ill

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

Adhikari, Nirmal; Bereznev, Sergei; Laes, Kristjan; Kois, Julia; Volobujeva, Olga; Raadik, Taavi; Traksmäa, Rainer; Tverjanovich, Andrey; Öpik, Andres; Mellikov, Enn Journal of electronic materials 2011 / p. 2374-2381 : ill

Hübridsetes fototundlikes struktuurides rakendatavate n-CuIn₃Se₅ fotoabsorberkilede valmistamine kõrgvaakumaurustamise meetodil

Bereznev, Sergei; Adhikari, Nirmal; Kois, Julia; Volobujeva, Olga; Laes, Kristjan; Traksmäa, Rainer; Raadik, Taavi; Öpik, Andres XXXII Eesti Keemiapäevad : teaduskonverentsi teesid 2011 / lk. 15

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

Hydrogen post-treatment enhances the electrochemical activity of Pt-CeO₂/C catalysts

Nguyen, Huy Qui Vinh; Kasuk, Heili; Härmas, Meelis; Aruväli, Jaan; Volobujeva, Olga; Härk, Eneli; Kochovski, Zdravko; Lust, Enn; Nerut, Jaak 8th Baltic Electrochemistry Conference. Conference Abstract 2024 / 1 p. https://sisu.ut.ee/wp-content/uploads/sites/638/nguyen_huy_qui_vinh_.pdf

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 <https://doi.org/10.1016/j.tsf.2012.10.031> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Impact of vacuum and nitrogen annealing on HVE SnS photoabsorber films

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

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; Krunk, 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

Improved amorphous silicon passivation layer for heterojunction solar cells with post-deposition plasma treatment

Neumüller, Alex; Sergeev, Oleg; Heise, Stephan J.; Bereznev, Sergei; Volobujeva, Olga Nano energy 2018 / p. 228-235 : ill <https://doi.org/10.1016/j.nanoen.2017.11.053> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

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

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

In-doping of II-VI compounds [Electronic resource]

Lott, Kalju; Šinkarenko, Svetlana; Volobujeva, Olga; Tünn, Leo; Nirk, Tiit; Nisumäa, Reet; Nöges, M.; Kallavus, Urve VII международная конференция Прикладная оптика : 2006, 16-20 октября, Санкт-Петербург 2006 / [5] p. : ill. [CD-ROM]

Influence of annealing conditions on the structural quality of CuInSe₂ thin films

Volobujeva, Olga; Kois, Julia; Traksmäa, Rainer; Muska, Katri; Bereznev, Sergei; Grossberg, Maarja; Mellikov, Enn Thin solid films 2008 / 20, p. 7105-7109 : ill <https://www.sciencedirect.com/science/article/abs/pii/S0040609007020202>

Influence of A-site modifications on the properties of La_{0.21}Sr_{0.74-x}Ca_xTi_{0.95}Fe_{0.05}O_{3-δ} based fuel electrode for solid oxide cell

Paydar, Sara; Kooser, Kuno; Möller, Priit; **Volobujeva, Olga**; Granroth, Sari; Lust, Enn; Nurk, Gunnar Journal of The Electrochemical Society 2023 / art. 054502, 10 p. : ill <https://doi.org/10.1149/1945-7111/acd084> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Influence of compositional deviations on the properties of Cu₂ZnSnSe₄ monograin powders

Muska, Katri; Kauk, Marit; Grossberg, Maarja; Altosaar, Mare; Raudoja, Jaan; **Volobujeva, Olga** Energy procedia 2011 / p. 323-327

Influence of Ni concentration on electrochemical and crystallographic properties of La_{0.25}Sr_{0.25}Ca_{0.4}Ti_{1-x}Ni_xO_{3-δ} solid oxide fuel cell anode

Korjus, Ove; Möller, Priit; Kooser, Kuno; Käämbre, Tanel; **Volobujeva, Olga**; Nerut, Jaak; Kotkas, S.; Lust, Enn; Nurk, Gunnar Journal of Power Sources 2021 / Art. n.r 229739 <https://doi.org/10.1016/j.jpowsour.2021.229739> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Influence of pH and deposition potentials on composition and morphology of CdSe films

Kois, Julia; **Volobujeva, Olga**; Bereznev, Sergei; Mellikov, Enn EMRS-2009 Spring Meeting, Strasbourg, France, 8-12 of June 2009, Symposium B 2009 / p. 50

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

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

Influence of selenous acid microadditive on electrochemical formation of CdS thin films

Maricheva, Jelena; **Bereznev, Sergei**; **Maticiu, Natalia**; **Volobujeva, Olga**; **Kois, Julia** Electrochimica acta 2017 / p. 280-286 : ill <https://doi.org/10.1016/j.electacta.2017.05.035> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

The interaction pathway in the mechano-ultrasonically assisted and carbon-nanotubes augmented nickel-aluminum system

Nazaretyan, Khachik; Kirakosyan, Hasmik; **Volobujeva, Olga**; **Aydinyan, Sofiya** Metals 2022 / art. 436 <https://doi.org/10.3390/met12030436> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Investigation of EXCESS Zn in ZnO

Lott, Kalju; **Volobujeva, Olga**; **Raukas, Maie**; **Türn, Leo**; Grebennik, A.; Vishnjakov, A. 10th International Conference on Shallow-level Centers in Semiconductors : SLCS-10, Warsaw, Poland, July 24-27, 2002 : program & abstracts 2002 / p. 43 <https://onlinelibrary.wiley.com/doi/abs/10.1002/pssc.200306186>

Investigation of excess Zn in ZnO

Lott, Kalju; **Volobujeva, Olga**; **Raukas, Maie**; **Türn, Leo**; Grebennik, A.; Vishnjakov, A. Physica status solidi (c) 2003 / 2, Proceedings 10th International Conference on Shallow Level Centers in Semiconductors (SLCS-10) : Warsaw, Poland, 24-27 July 2002, p. 622-625 : ill <https://onlinelibrary.wiley.com/doi/abs/10.1002/pssc.200306186>

Investigation of oxygen reduction on platinum nanoparticles deposited onto peat-derived carbon carrier

Lobjakas, Viljar; Nerut, Jaak; Kasuk, Heili; Adamson, Anu; Thomberg, Thomas; Aruväli, Jaan; Valk, Peeter; Teppor, Patrick; Koppel, Mirjam; **Mikli, Valdek**; **Volobujeva, Olga**; **Lust, Enn** ECS Meeting Abstracts 2022 / p. 49-58 : ill <https://doi.org/10.1149/10807.0049ecst> [Journal metrics at Scopus](#) [Article at Scopus](#)

Isothermal and two-temperature zone selenization of Mo layers

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

A journey for the development of a highly active ptcec(cr₃c₂) catalyst: material selections, synthesis optimization and electrical measurements for methanol oxidation and oxygen reduction

Nguyen, Huy Quí Vinh; Nerut, Jaak; Kasuk, Heili; Thomberg, Thomas; Härmäs, Meelis; Härmäs, R.; Koppel, Miriam; Teppor, Patrick; Külaviir, Marian; Aruväli, Jaan; **Volobujeva, Olga**; **Lust, Enn** GSFMT Scientific Conference 2023 : Tartu, 23-24 May, 2023 : abstracts 2023 <https://fmdk.ut.ee/programm-2023/>

Lillekujulised kaadmiumseleniidi kristallid

Leinemann, Inga; **Altosaar, Mare**; **Volobujeva, Olga** Horisont 2018 / lk. 18-19 : fot https://www.ester.ee/record=b1072243*est <http://www.horisont.ee/arhiiv-2018/Horisont-6-2018.pdf>

Low-temperature synthesis of ZnO layers assisted by chemical processes

Polivtseva, Svetlana; **Dedova, Tatjana**; **Bereznev, Sergei**; **Kois, Julia**; **Tõnsuaadu, Kaia**; **Volobujeva, Olga**; Juma, Albert Owino 12th European Symposium on Thermal Analysis and Calorimetry ESTAC 12 : 27-30 August 2018, Brasov, Romania : book of

Läbipaistvate ja elektrit juhtivate ZnO kilede valmistamine keemilise pihustamise meetodil

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

Mechanical properties and self-healing capacity of ultra high performance fibre reinforced concrete with alumina nano-fibres : tailoring ultra high durability concrete for aggressive exposure scenarios

Cuenca, Estefanía; D'Ambrosio, Leonardo; Lizunov, Dennis; **Tretjakov, Aleksei; Volobujeva, Olga**; Ferrara, Liberato Cement and concrete composites 2021 / art. 103956, 17 p <https://doi.org/10.1016/j.cemconcomp.2021.103956> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Microscopic characterization of surface morphology of nanostructured copper

Hussainova, Irina; Kommel, Lembit; Lõhmus, Rünno; Volobujeva, Olga Reviews on advanced materials science 2005 / p. 266-271 : ill

Microstructural aspects of ceramic-metal composites performance in erosive media

Hussainova, Irina; Antonov, Maksim; Volobujeva, Olga Advances in science and technology 2006 / 11th International Ceramic Congress, p. 132-141 : ill

Microstructural evolution and mechanical properties of nanostructured copper

Kommel, Lembit; Hussainova, Irina; Volobujeva, Olga; Lõhmus, Rünno Proceedings of the Estonian Academy of Sciences. Engineering 2005 / 3, p. 187-197 : ill

Microstructure and properties development of copper during severe plastic deformation

Kommel, Lembit; Hussainova, Irina; Volobujeva, Olga Materials & design 2007 / 7, p. 2121-2128 : ill
<https://www.sciencedirect.com/science/article/pii/S0261306906001713>

Mo(Si_{1-x}Al_x)₂-based composite by reactive laser powder-bed fusion

Minasyan, Tatevik; Aydinyan, Sofiya; Liu, Le; Volobujeva, Olga; Toyserkani, Ehsan; Hussainova, Irina Materials letters 2020 / art. 128776, 5 p. : ill <https://doi.org/10.1016/j.matlet.2020.128776> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Nanoporous carbon-based electrodes for high strain ionomeric bending actuators

Palmre, Viljar; Brandell, Daniel; Mäeorg, Uno; Torop, Janno; **Volobujeva, Olga**; Punning, Andres; Johanson, Urmas; **Kruusmaa, Maarja**; Aabloo, Alvo Smart materials & structures 2009 / 9, [7] p. : ill

Nanostructured layers of ZnS obtained by spray pyrolysis

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

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

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

A novel deposition method to grow ZnO nanorods : spray pyrolysis

Dedova, Tatjana; Krunks, Malle; Grossberg, Maarja; Volobujeva, Olga; Oja Acik, Ilona Superlattices and microstructures 2007 / p. 444-450 : ill

Novel SiO_xN_y protective coatings with aligned carbon nanotubes network

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

A novel thermochemical metal halide treatment to high-performance Sb₂Se₃ photocathode

Polivtseva, Svetlana; Adegite Olanrewaju, Joseph; Kois, Julia; Mamedov, Damir; Zh. Karazhanov, Smagul; Maricheva, Jelena; Volobujeva, Olga Nanomaterials 2021 / art. 52, 14 p <https://doi.org/10.3390/nano11010052> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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

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

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

Bereznev, Sergei; Adhikari, Nirmal; Kois, Julia; Raadik, Taavi; Traksmäa, Rainer; Volobujeva, Olga; Kouhiisfahani, Elham; Öpik, Andres Solar energy 2013 / p. 202-208 : ill <https://doi.org/10.1016/j.solener.2013.04.027> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

One-stage pulsed laser deposition of conductive zinc oxysulfide layers

Bereznev, Sergei; Kocharyan, Hrachya; Maticiu, Natalia; Naidu, Revathi; Volobujeva, Olga; Tverjanovich, Andrey; Kois, Julia Applied surface science 2017 / p. 722-727 : ill <https://doi.org/10.1016/j.apsusc.2017.07.078> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

One-step electrochemical deposition of CuInSe₂ absorber layers

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

Optimisation of plant mediated synthesis of silver nanoparticles by common weed Plantago major and their antimicrobial properties

Küüna, Siim; Visnapuu, Meeri; Volobujeva, Olga; Soares Rosario, Maria; Rauwel, Protima; Rauwel, Erwan IOP Conference Series : Materials Science and Engineering 2019 / art. 012003 <https://doi.org/10.1088/1757-899X/613/1/012003> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Optimisation of the ethylene glycol reduction method for the synthesis of platinum-ceria-carbon materials as catalysts for the methanol oxidation reaction

Nguyen, Huy; Nerut, Jaak; Kasuk, Heili; Härmä, Meelis; Valk, Peeter; Romann, Tavo; Koppel, Miriam; Teppor, Patrick; Aruväli, Jaan; Korjus, Ove; **Volobujeva, Olga**; Lust, Enn Journal of solid state electrochemistry 2023 / p. 313-326 : ill <https://doi.org/10.1007/s10008-022-05326-4> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Optimization of La_{0.2}Sr_{0.7-x}Ca_xTi_{0.95}Fe_{0.05}O_{3-δ} fuel electrode stoichiometry for solid oxide fuel-cell application

Paydar, Sara; Kooser, Kuno; Möller, Priit; **Volobujeva, Olga**; Granroth, Sari; Lust, Enn; Nurk, Gunnar ACS Applied Energy Materials 2022 / p. 10119 - 10129 <https://doi.org/10.1021/acsaem.2c01808> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

The optoelectronic properties of Sb₂(Se_{1-x}S_x)₃ (x = 0 - 1) solid solutions

Ender, Mehmet; Volobujeva, Olga; Timmo, Kristi; Grossberg, Maarja GSFMT Scientific Conference 2021 : Tartu, June 14-15, 2021 : abstracts 2021 / P 4 https://fmdk.ut.ee/wp-content/uploads/2021/06/GSFMT_abstractbook_2021.pdf

Organic acid catalyzed synthesis of 5-methylresorcinol based organic aerogels in acetonitrile

Peikolainen, Anna-Liisa; Volobujeva, Olga; Aav, Riina; Uibu, Mai; Koel, Mihkel Journal of porous materials 2012 / p. 189-194 : ill https://www.researchgate.net/publication/228068858_Organic_acid_catalyzed_synthesis_of_5-methylresorcinol_based_organic_aerogels_in_acetonitrile

Origin of photoluminescence from antimony selenide

Grossberg, Maarja; Volobujeva, Olga; Penežko, Aleksei; Kaupmees, Reelika; Raadik, Taavi; Krustok, Jüri Journal of alloys and compounds 2020 / art. 152716, 5 p. : ill <https://doi.org/10.1016/j.jallcom.2019.152716> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Peat as a carbon source for non-platinum group metal oxygen electrocatalysts and AEMFC cathodes

Teppor, Patrick; Jäger, Rutha; Paalo, Maarja; Adamson, Anu; Härmä, Meelis; **Volobujeva, Olga**; Aruväli, Jaan; Palm, Rasmus; Lust, Enn International Journal of Hydrogen Energy 2022 / p. 16908 - 16920 <https://doi.org/10.1016/j.ijhydene.2022.03.199> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Peat-derived carbon-based non-platinum group metal type catalyst for oxygen reduction and evolution reactions

Teppor, Patrick; Jäger, Rutha; Paalo, Maarja; Palm, Rasmus; **Volobujeva, Olga**; Härk, Eneli; Kochovski, Zdravko; Romann, Tavo; Härmä, R.; Aruväli, Jaan; Kikas, Arvo; Lust, Enn Electrochemistry Communications 2020 / art. 106700 <https://doi.org/10.1016/j.elecom.2020.106700> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Peat-derived carbon-based non-platinum group metal type catalyst for oxygen reduction and evolution reactions

Teppor, Patrick; Jäger, Rutha; Paalo, Madis; Palm, R.; **Volobujeva, Olga**; Härk, E.; Kochovski, Z.; Romann, Tavo; Härmä, R.; Aruväli, J.; Kikas, A.; Lust, Enn GSFMT Scientific Conference 2020 : Tallinn, February 4-5, 2020 : abstracts 2020 / p. 81 <http://fmdk.ut.ee/wp-content/uploads/2020/01/GSFMT2020.pdf>

Phase composition of selenized Cu₂ZnSnSe₄ thin films determined by X-ray diffraction and Raman spectroscopy

Ganchev, Maxim; Iljina, Julia; Kaupmees, Liina; Raadik, Taavi; Volobujeva, Olga; Mere, Arvo; Altosaar, Mare; Raudoja, Jaan; Mellikov, Enn Thin solid films 2011 / p. 7394-7398 : ill

Phase transition in solid solutions Cd_{1-x}Se_xTe_{1-x}

Volobujeva, Olga; Nirk, Tiit 23rd Estonian Chemistry Days : abstracts of scientific conference 1997 / p. 170

Phases micromechanical properties of Ni-base superalloy measured by nanoindentation

Kommel, Lembit; Kimmari, Eduard; Viljus, Mart; Traksmäa, Rainer; Volobujeva, Olga; Kommel, Igor Materials science = Medžiagotyra 2012 / p. 28-33 : ill <https://matsc.ktu.lt/index.php/MatSc/article/view/1337>

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

Jarkov, Aleksandr; Bereznev, Sergei; Volobujeva, Olga; Traksmäa, Rainer; Tverjanovich, Andrey; **Õpik, Andres; Mellikov, Enn** Thin solid films 2013 / p. 198-201 : ill <https://doi.org/10.1016/j.tsf.2013.01.064> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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

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

Photoelectrochemical deposition of PPY onto hydrogenated A-Si for optoelectronic applications

Dosenovicova, Denisa; Maricheva, Jelena; Neumüller, Alex; Sergeev, Oleg; **Volobujeva, Olga;** Nasibulin, Albert; **Kois, Julia; Õpik, Andres; Bereznev, Sergei** Open Readings 2017 : 60th International Conference for Students of Physics and Natural Sciences, March 14-17, 2017, Vilnius, Lithuania : programme and abstracts 2017 / p. 241 http://www.openreadings.eu/wp-content/uploads/2017/03/OR2017_abstracts_book.pdf

Photovoltaic systems research and development in EU new member and candidate states (invited)

Pietruszko, Stanislaw; Vitanov, Petko; **Mellikov, Enn; Volobujeva, Olga** The Fourth International Conference on Advanced Optical Materials and Devices : (AOMD-4) : Tartu, Estonia, July 6-9, 2004 : abstracts 2004 / p. 23

Plant mediated syntheses of silver nanoparticles using common weed (Plantago Major L.)

Küüna, Siim; Volobujeva, Olga; Rauwel, Protima; Rauwel, Erwan 10th International Conference on Biosystems Engineering 2019 : book of abstracts : May 8-10 2019 Tartu, Estonia 2019 / p. 172 http://dspace.emu.ee/xmlui/bitstream/handle/10492/4955/ABS_2019_Book_VV.pdf?sequence=1&isAllowed=y

Platinum-free oxygen electrocatalysts and alkaline fuel cell cathodes fabricated from peat

Teppor, Patrick; Jäger, Rutha; Paalo, Maarja; Härmas, Meelis; Adamso, Anu; **Volobujeva, Olga;** Aruväli, Jaan; Palm, Rasmus; Lust, Enn Graduate School of Functional Materials and Technology (GSFMT) Scientific Conference : abstracts 2022 / 61 I. [Graduate School of Functional Materials and Technology \(GSFMT\) Scientific Conference 2022](#)

Polycrystalline CuIn3Se5 thin film photoabsorber deposited by the pulsed laser deposition technique

Tverjanovich, Andrey; **Bereznev, Sergei;** Borisov, Evgeny N.; Kim, Dongsoo; **Kois, Julia; Laes, Kristjan; Volobujeva, Olga; Õpik, Andres; Mellikov, Enn;** Tverjanovich, Yuri S. Proceedings of the Estonian Academy of Sciences 2009 / 1, p. 24-28 : ill

Polypyrrole back contact to CDS/CDTE solar cell structures by photo-assisted electrodeposition technique

Jarkov, Aleksandr; Bereznev, Sergei; Kois, Julia; Volobujeva, Olga; Õpik, Andres Baltic Polymer Symposium 2012 : Liepaja, Latvia, September 19-22 : programme and proceedings 2012 / p. 42

Polypyrrole back-contact to CdS/CdTe solar cell

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

Postdeposition processing of SnS thin films and solar cells : prospective strategy to obtain large, sintered, and doped SnS grains by recrystallization in the presence of a metal halide flux

Spalatu, Nicolae; Hiie, Jaan; Kaupmees, Reelika; Volobujeva, Olga; Krustok, Jüri; Oja Acik, Ilona; Krunks, Malle ACS applied materials & interfaces 2019 / p. 17539–17554 : ill <https://doi.org/10.1021/acsami.9b03213> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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

Kauk-Kuusik, Marit; Altosaar, Mare; Muska, Katri; Pilvet, Maris; Raudoja, Jaan; Timmo, Kristi; Varema, Tiit; Grossberg, Maarja; Mellikov, Enn; Volobujeva, Olga Thin solid films 2013 / p. 18-21 : ill <https://doi.org/10.1016/j.tsf.2012.11.075> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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

Kois, Julia; Ganchev, M.; Kaelin, M.; **Bereznev, Sergei;** Tzvetkova, E.; **Volobujeva, Olga;** Stratieva, N.; Tiwari, A. 20th European Photovoltaic Solar Energy Conference : 6-10 June 2005, Barcelona, Spain 2005 / p. 1790-1792 : ill <https://www.sciencedirect.com/science/article/pii/S0040609005022935>

Preparation and characterization of SbSeI thin films

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

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

Abdalla, Akram; Bereznev, Sergei; Volobujeva, Olga; Mikli, Valdek Tartu Ülikooli ASTRA projekt PER ASPERA :

Preparation of carbon aerogels from 5-methylresorcinol-formaldehyde gels

Perez-Caballero, Fernando; Peikolainen, Anna-Liisa; Uibu, Mai; Kuusik, Rein, keemik; Volobujeva, Olga; Koel, Mihkel Microporous and mesoporous materials 2008 / p. 230-236 : ill

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

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

Preparation of shape and size-controlled zinc oxide nanostructures by chemical spray pyrolysis technique

Dedova, Tatjana; Krunks, Malle; Mere, Arvo; Klauson, Jelena; Volobujeva, Olga Materials Research Society symposium proceedings 2007 / p. 0957-K10-26 [7 p.]

Properties of Cu-Sb-Se thin films deposited by magnetron co-sputtering for solar cell applications

Penežko, Aleksei; Kauk-Kuusik, Marit; Volobujeva, Olga; Grossberg, Maarja Thin solid films 2021 / art. 139004 <https://doi.org/10.1016/j.tsf.2021.139004> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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

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

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

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

Pulsed laser deposition of Zn(O,Se) layers in nitrogen background pressure

Abdalla, Akram; Bereznev, Sergei; Spalatu, Nicolae; Volobujeva, Olga; Sleptšuk, Natalja; Danilson, Mati Scientific reports 2019 / art. 17443, 10 p. : ill <https://doi.org/10.1038/s41598-019-54008-1> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

PVD grown SnS thin films onto different substrate surfaces

Revathi, Naidu; Bereznev, Sergei; Iljina, Julia; Safonova, Maria; Mellikov, Enn; Volobujeva, Olga Journal of materials science : materials in electronics 2013 / p. 4739-4744 : ill <https://doi.org/10.1007/s10854-013-1468-8> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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

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

PVD of N-CuIn₃Se₅ photoabsorber films

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

PVD of n-CuIn₅Se₈ photoabsorber films for hybrid solar cells

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

Rational design of highly efficient flexible and transparent p-type composite electrode based on single-walled carbon nanotubes

Rajanna, Pramod M.; Meddeb, Hosni; Bereznev, Sergei; Volobujeva, Olga; Danilson, Mati Nano energy 2020 / art. 104183, 9 p. : ill <https://doi.org/10.1016/j.nanoen.2019.104183> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Reaction pathway to Cu₂ZnSnSe₄ formation in CdI₂ : part 1. Chemical reactions and enthalpies in mixtures of CdI₂–ZnSe, CdI₂–SnSe, and CdI₂–CuSe

Leinemann, Inga; Nkwusi, Godswill; Timmo, Kristi; Volobujeva, Olga; Danilson, Mati; Raudoja, Jaan vt.ka Mädaßon, Jaan; Kaljuvee, Tiit; Traksmäa, Rainer; Altosaar, Mare; Meissner, Dieter Journal of thermal analysis and calorimetry 2018 / p.409 - 421 : ill <https://doi.org/10.1007/s10973-018-7102-5> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Reactive sintering of (Ti,W)C-Ni and TiC-FeNiSi cermets from high-energy milled powders

Kollo, Lauri; Volobujeva, Olga Proceedings of European Powder Metallurgy Congress : EURO PM2007 : Toulouse (France), 15-17 October 2007. Vol. 1 2007 / p. 227-231 https://www.researchgate.net/publication/287638623_Reactive_sintering_of_TiWC-Ni_and_TiC-FeNiSi_cermets_from_high-energy_milled_powders

Recent advances of carbon nanotubes synthesis by the electric arc technique using atomized platinum-group metal catalysts

Truus, Kalle; **Volobujeva, Olga; Kaupmees, Reelika**; Tamm, Aile; Rähn, Mihkel; Raid, Raivo; Koppel, Kaida; Tuvikene, Rando
Materials Science and Engineering: B 2024 / art. 117121 <https://doi.org/10.1016/j.mseb.2023.117121> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Research in solar cell technologies at Tallinn University of Technology

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

Selective photoelectrochemical deposition of polypyrrole onto hydrogenated a-Si for optoelectronic applications

Dosenovicova, Denisa; Maricheva, Jelena; Neumüller, Alex; Sergeev, Oleg; **Volobujeva, Olga**; Nasibulin, Albert; **Kois, Julia; Öpik, Andres; Bereznev, Sergei** Materials science in semiconductor processing 2017 / p. 1-5 : ill
<https://doi.org/10.1016/j.mssp.2017.05.028> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Selenisation of sequentially electrodeposited Cu-Zn and Sn precursor layers

Iljina, Julia; Volobujeva, Olga; Raadik, Taavi; Revathi, Naidu; Raudoja, Jaan; Looits, Mihkel; Traksmäa, Rainer; Mellikov, Enn Thin solid films 2013 / p. 14-17 : ill

Selenization of co-sputtered Cu-In alloy films

Volobujeva, Olga; Abou-Ras, Daniel; **Grossberg, Maarja; Raudoja, Jaan; Mellikov, Enn; Traksmäa, Rainer** Conference records of the 33rd IEEE Photovoltaic Specialists Conference : San Diego, U.S.A., May 12-16, 2008 2008 / ? p
<https://doi.org/10.1109/PVSC.2008.4922549>

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

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

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

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

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

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

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

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

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

Safonova, Maria 2016 https://www.ester.ee/record=b4535442*est

Solution combustion synthesis of MnFeCoNiCu and (MnFeCoNiCu)3O4 high entropy materials and sintering thereof

Aydinyan, Sofiya; Kirakosyan, Hasmik; Sargsyan, Armen; **Volobujeva, Olga**; Kharatyan, Suren Ceramics International 2022 / p. 20294-20305 : ill <https://doi.org/10.1016/j.ceramint.2022.03.310> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Solution deposition of ZnO thin films

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

Solution-mediated inversion of SnSe to Sb2Se3 thin-films

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

Spray pyrolysis deposition of indium sulphide thin films

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

Strain relaxation mechanism in the Si-SiO2 system and its influence on the interface properties

Kropman, Daniel; Mellikov, Enn; Öpik, Andres; Lott, Kalju; Volobujeva, Olga; Kämer, T.; Heinmaa, I.; Laas, Tõnu; Medvid, A.

Strain relaxation mechanism in the Si-SiO₂ system and its influence on the interface properties

Kropman, Daniel; Mellikov, Enn; Öpik, Andres; Lott, Kalju; Volobujeva, Olga; Kärner, T.; Heinmaa, I.; Laas, Tõnu; Medvid, A. Radiation Interaction with Materials and its use in Technologies : Kaunas, 24-27.09.2008 2008 / p. 204-207
<https://www.sciencedirect.com/science/article/pii/S0921452609010321>

Strength and plasticity of nanocrystalline copper

Kommel, Lembit; Hussainova, Irina; Volobujeva, Olga Деформация и разрушение материалов = Deformation and fracture of materials 2005 / 11, p. 17-23

Strength and plasticity of nanocrystalline copper after HCV deformation

Kommel, Lembit; Hussainova, Irina; Volobujeva, Olga Abstracts of 3rd International Conference "Phase Transition and Strength of Crystals" : September 20-24, 2004, Chernogolovka, Russia 2004 / p. 47-48

Structural and compositional properties of CZTS thin films formed by rapid thermal annealing of electrodeposited layers

Lehner, Julia; Looerts, Mihkel; Revathi, Naidu; Raadik, Taavi; Raudoja, Jaan; Grossberg, Maarja; Mellikov, Enn; Volobujeva, Olga; Ganchev, Maxim Journal of crystal growth 2013 / p. 236-240 : ill <https://doi.org/10.1016/j.jcrysgro.2013.06.012> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Structural and mechanical properties of laminate-type thin film SWCNT/SiO_xNy composites

Shmagina, Elizaveta; Volobujeva, Olga; Antonov, Maksim; Bereznev, Sergei SICT 2024, PLASMA TECH 2024 and TRIBOLOGY 2024 : JOINT international conferences : book of abstracts 2024 / p. 142 <https://www.setcor.org/conferences/tribology-2024/conference-program>

Structural and optical characterization of sprayed ZnS thin films

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

Structural and optical characterization of sprayed ZnS thin films

Dedova, Tatjana; Kijatkina, Olga; Mere, Arvo; Volobujeva, Olga; Krunks, Malle The Fourth International Conference on Advanced Optical Materials and Devices : (AOMD-4) : Tartu, Estonia, July 6-9, 2004 : abstracts 2004 / p. 38

Structural and optical properties of laminate-type thin film SWCNT composites in a silicon oxynitride matrix obtained by low-temperature curing methods

Shmagina, Elizaveta; Kasikov, Aarne; Volobujeva, Olga; Bereznev, Sergei Symposium I: Nano-engineered coatings and thin films: from fundamentals to applications 2024 <https://secure.key4events.com/key4register/AbstractList.aspx?e=1689&preview=1&ai=-1&ai=57371>

Structural behavior and damage evolution of nanocrystalline copper at HCV deformation

Kommel, Lembit; Hussainova, Irina; Nisumaa, Reet; Volobujeva, Olga; Saarna, Mart 15th International Baltic Conference "Engineering Materials & Tribology. Baltattrib - 2006" : October 5-6, 2006, Tallinn, Estonia : abstracts 2006 / p. 40-41 : ill

Structural behaviour of NC copper at hard cyclic viscoplastic deformation

Kommel, Lembit; Hussainova, Irina; Nisumaa, Reet; Volobujeva, Olga Ultrafine Grained Materials - from Basics to Applications : UFG-2006 : September 25-27, 2006, Kloster Irsee, Germany 2006 / p. 6-16 - 6-17

Structural, mechanical, and optical properties of laminate-type thin film SWCNT/SiO_xNy composites

Shmagina, Elizaveta; Antonov, Maksim; Kasikov, Aarne; Volobujeva, Olga; Khabushev, Eldar M.; Kallio, Tanja; **Bereznev, Sergei** Nanomaterials 2024 / art. 1806 <https://doi.org/10.3390/nano14221806>

Study of activating treatment for glass/ITO/CdS/CdTe structures prepared by high vacuum evaporation

Jarkov, Aleksandr; Bereznev, Sergei; Laes, Kristjan; Volobujeva, Olga; Öpik, Andres EMRS-2010 Spring Meeting : Strasbourg, France, June 7-11 : program and book of abstracts. Symposium M 2010 / p. 8-9

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 reproducibility of electrochemically co-deposited CuInSe₂ films onto ITO

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

Study of Mo selenisation process on different Mo substrates

Kaupmees, Liina; Altosaar, Mare; Volobujeva, Olga; Barvinschi, Paul Thin-film compound semiconductor photovoltaics - 2009 2009 / p. M08-01 <https://www.cambridge.org/core/journals/mrs-online-proceedings-library-archive/article/abs/study-of-mo-selenisation-process->

Study of the optical properties of Sb₂(Se_{1-x}S_x)₃ (x = 0-1) solid solutions

Uslu, Mehmet Ender; Kondrotas, Rokas; Nedzinskas, Ramunas; **Volobujeva, Olga**; Timmo, Kristi; Kauk-Kuusik, Marit; Krustok, Jüri; Grossberg, Maarja Materials science in semiconductor processing 2022 / art. 106571 <https://doi.org/10.1016/j.mssp.2022.106571>
[Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Study on photocatalytic activity of ZnO nanoneedles, nanorods, pyramids and hierarchical structures obtained by spray pyrolysis method

Klauson, Deniss; Gromōko, 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](#)

Sulfur-containing Cu₂ZnSnSe₄ monograin powders for solar cells

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

Sunlight-driven photocatalytic degradation of methylene blue with facile one-step synthesized Cu-Cu₂O-Cu₃N nanoparticle mixtures

Paredes, Patricio; Rauwel, Erwan; Wragg, David S.; Rapenne, Laetitia; Estephan, Elias; **Volobujeva, Olga**; Rauwel, Protima Nanomaterials 2023 / art. 1311 <https://doi.org/10.3390/nano13081311> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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 <https://doi.org/10.1007/s00604-013-1039-y> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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

Volobujeva, Olga; Bereznev, Sergei; Raudoja, Jaan; Otto, Kairi; Pilvet, Maris; Mellikov, Enn Thin solid films 2013 / p. 48-51 : ill
<https://doi.org/10.1016/j.tsf.2012.12.080> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Synthesis and characterization of cobalt and nitrogen co-doped peat-derived carbon catalysts for oxygen reduction in acidic media

Jäger, Rutha; Teppor, Patrick; Paalo, Maarja; Härmas, Meelis; Adamson, Anu; **Volobujeva, Olga**; Härk, Eneli; Kochovski, Zdravko; Romann, Tavo; Härmas, Riinu; Aruväli, Jaan; Kikas, Arvo; Lust, Enn Catalysts 2021 / art. 715 <https://doi.org/10.3390/catal11060715>
[Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Synthesis of Cu₂ZnSnS₄ monograin powders with different compositions

Muska, Katri; Kauk, Marit; Altosaar, Mare; Pilvet, Maris; Grossberg, Maarja; **Volobujeva, Olga** Energy procedia 2011 / p. 203-207

Zinc oxide nanostructured layers by chemical spray pyrolysis

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

ZnO grown by chemical solution deposition

Kauk, Marit; Muska, Katri; Altosaar, Mare; Danilson, Mati; Õunpuu, K.; Varema, Tiit; **Volobujeva, Olga** 35th IEEE Photovoltaic Specialists Conference : Honolulu, HI, June 20-25, 2010 : conference proceedings 2010 / p. 002452-002456 : ill
<https://ieeexplore.ieee.org/document/5614047>

ZnO nanorods via spray deposition of solutions containing zinc chloride and thiocarbamide

Dedova, Tatjana; **Volobujeva, Olga**; Klauson, Jelena; Mere, Arvo; Krunks, Malle Nanoscale research letters 2007 / p. 391-396 : ill <https://link.springer.com/article/10.1007/s11671-007-9072-6>

ZnO nanostruktuursed kihid keemilise pihustuspirolüüsi meetodil

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

ZnO thin films co-doped with III-valence metals and halogens: theory and experiment

Colibaba, G. V.; Rusnac, D.; Fedorov, V.; Koltsov, Mykhailo; **Volobujeva, Olga**; Grzibovskis, Raitis; Vembris, Aivars; Spalatu, Nicolae Physica scripta 2024 / art. 105967 <https://doi.org/10.1088/1402-4896/ad74ab>

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

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

ZnS thin films deposited by spray pyrolysis technique

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

The extraction, structure, and gelling properties of hybrid galactan from the red alga Furcellaria lumbricalis (Balti Sea, Estonia)

Tuvikene, Rando; Truus, Kalle; Robal, Marju; **Volobujeva, Olga; Mellikov, Enn; Pehk, Tõnis**; Kollist, Andres; **Kailas, Tiiu; Vaher, Merike** Journal of applied phycology 2009 / [13] p.: ill <https://link.springer.com/article/10.1007/s10811-009-9425-x>

The extraction, structure, and gelling properties of hybrid galactan from the red alga Furcellaria lumbricalis (Baltic Sea, Estonia)

Tuvikene, Rando; Truus, Kalle; Robal, Marju; **Volobujeva, Olga; Mellikov, Enn; Pehk, Tõnis**; Kollist, Andres; **Kailas, Tiiu; Vaher, Merike** Journal of applied phycology 2010 / p. 51-63 : ill <https://link.springer.com/article/10.1007/s10811-009-9425-x>

The impedance spectroscopy of CuIn3Se5 photoabsorber films prepared by high vacuum evaporation technique

Laes, Kristjan; Bereznev, Sergei; Land, Raul; Tverjanovich, Andrey; **Volobujeva, Olga; Traksmas, Rainer; Raadik, Taavi; Öpik, Andres** Energy procedia 2010 / 1, p. 119-131 : ill

The impedance spectroscopy of hybrid CdTe / PEDOT-PSS interface

Bereznev, Sergei; Laes, Kristjan; Jarkov, Aleksandr; Volobujeva, Olga; Öpik, Andres Hybrid and Organic Photovoltaics 2010 Conference : Assisi, Italy, May 23-27, 2010 : book of abstracts 2010 / p. 118

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
<https://doi.org/10.3176/proc.2015.4.04> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Thermal stability of red algal galactans: Effect of molecular structure and counterions

Robal, Marju; Truus, Kalle; **Volobujeva, Olga; Mellikov, Enn**; Tuvikene, Rando International journal of biological macromolecules 2017 / p. 213-223 : ill <https://doi.org/10.1016/j.ijbiomac.2017.05.175> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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

Unlocking the porosity of Fe–N–C catalysts using hydroxyapatite as a hard template en route to eco-friendly high-performance AEMFCs

Teppor, Patrick; Jäger, Rutha; Koppel, Miriam; **Volobujeva, Olga**; Palm, Rasmus; Månsson, Martin; Härk, Eneli; Kochovski, Zdravko; Aruväli, Jaan; Kooser, Kuno Journal of power sources 2024 / art. 233816, 11 p. : ill <https://doi.org/10.1016/j.jpowsour.2023.233816>
[Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

The utilization of platinum catalysts deposited on carbon support synthesized from coffee grounds in a polymer electrolyte membrane fuel cell

Simson, Sander; Nerut, Jaak; Härmas, Meelis; Valk, Peeter; Teppor, Patrick; Palm, Rasmus; Koppel, Miriam; Aruväli, Jaan; Korjus, Ove; **Volobujeva, Olga**; Mansson, Martin; Lust, Enn ECS Meeting Abstracts 2023 / art. 2295 <https://doi.org/10.1149/MA2023-01382295mtgabs>

Waste tire derived carbon support for non-platinum-group metal catalyst materials for oxygen reduction reaction in alkaline medium

Laanemäe, Joel; Jäger, Rutha; Teppor, Patrick; **Volobujeva, Olga**; Lust, Enn ECS Meeting Abstracts 2023 / p. 2283-2283
<https://doi.org/10.1149/MA2023-01382283mtgabs>

Waste tire derived carbon support for non-platinum-group metal catalyst materials for oxygen reduction reaction in alkaline medium

Laanemäe, Joel; Jäger, Rutha; Teppor, Patrick; **Volobujeva, Olga**; Lust, Enn ECS Transactions 2023 / p. 63-72
<https://doi.org/10.1149/11105.0063ecst>

Vetikapolüsahhariidide termostabiilsus : struktuur-omadus seosed

Robal, Marju; Tuvikene, Rando; Truus, Kalle; **Volobujeva, Olga; Mellikov, Enn**; Pehk, Tõnis XXXI Eesti keemiapäevad : [28. aprill 2010, Tallinn] : teaduskonverentsi teesid = 31st Estonian Chemistry Days : abstracts of scientific conference 2010 / lk. 19 : ill

Võrevaheline tsink tsinkoksiidis

Lott, Kalju; Volobujeva, Olga; Raukas, Maie; Tünn, Leo; Grebennik, A.; Vishnjakov, A. XXVIII Eesti keemiapäevad : teaduskonverentsi ettekannete teesid = 28th Estonian Chemistry Days : abstracts of scientific conference 2002 / lk. 80

Нестехиометрический цинк в окиси цинка

Lott, Kalju; Volobujeva, Olga; Raukas, Maie; Tünn, Leo; Vishnjakov, A.; Grebennik, A. V Международная конференция "Прикладная оптика", 15-17 октября 2002 года, Санкт-Петербург, Россия : сборник трудов. Том 2, Оптические технологии и материалы 2002 / с. 54-58