

Activation of photoconductivity in A2B6 powders

Altosaar, Mare; Mädasson, Jaan; Mellikov, Enn; Hiie, Jaan; Mädasson, Jaan vt.ka Raudoja, Jaan Chair of Semiconductor Materials Technology : activity report, 1988-1993 1994 / p. 21

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

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

Application of Differential Thermal Analysis for enthalpy evaluation of reactions during Copper Zinc Tin Selenide synthesis process

Leinemann, Inga; Kaljuvee, Tiit; Tõnsuaadu, Kaia; Öpik, Andres; Altosaar, Mare; Meissner, Dieter 1st Central and Eastern European Conference on Thermal Analysis and Calorimetry (CEEC-TAC1), 7-10 September 2011, Craiova, Romania : book of abstracts 2011 / p. 259

Band positions and electrochemistry of CdSe(x)Te(1-x) semiconductor electrodes

Wirts, Christian; Altosaar, Mare; Krunks, Malle; Varema, Tiit; Mellikov, Enn; Meissner, Dieter Abstracts of the First Gerischer Symposium on Semiconductor Electrochemistry, 1999 1999 / p. 8

Broad-band photoluminescence of donor-acceptor pairs in tetrahedrite Cu₁₀Cd₂Sb₄S₁₃ microcrystals

Krustok, Jüri; Raadik, Taavi; Kaupmees, Reelika; Ghisani, Fairouz; Timmo, Kristi; Altosaar, Mare; Mikli, Valdek; Grossberg, Maarja Journal of physics D: applied physics 2021 / art. 105102, 7 p. : ill <https://doi.org/10.1088/1361-6463/abce29> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

CdS and CdSe microphotonresistor for optoelectronics

Altosaar, Mare; Kuk, Peeter-Enn; Mellikov, Enn; Valdna, Vello 9th International Symposium of the Technical Committee on Photon-Detectors, Visegrad, 9 - 12 september 1980 : proceedings International Measurement Confederation IMEKO : [abstracts] 1980 / p. 12-13

CdTe monograin powders technology

Altosaar, Mare; Kuk, Peeter-Enn 17th Nordic Semiconductor Meeting, Trondheim, Norway, June 17-20, 1996 : abstracts 1996

Characterization of Cu₂ZnSnSe₄ monograin layer solar cells

Altosaar, Mare; Timmo, Kristi; Danilson, Mati; Raudoja, Jaan; Mellikov, Enn Proceedings of the International Conference on Solar Cells : IC-SOLACE 2008 : January 21-23, 2008, Cochin, India 2008 / p. 103-105 : ill

Characterization of FeS₂ pyrite microcrystals synthesized in different flux media

Kristmann, Katriin; Raadik, Taavi; Altosaar, Mare; Danilson, Mati; Krustok, Jüri; Paaver, Peeter; Butenko, Yuriy Materials advances 2023 / p. 1565 - 1575 <https://doi.org/10.1039/D3MA00697b> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Characterization of tetrahedrite Cu₁₀Cd₂Sb₄S₁₃ monograin materials grown in molten CdI₂ and LiI

Ghisani, Fairouz; Timmo, Kristi; Altosaar, Mare; Mikli, Valdek; Pilvet, Maris; Kaupmees, Reelika; Krustok, Jüri; Grossberg, Maarja; Kauk-Kuusik, Marit Thin solid films 2021 / art. 138980 <https://doi.org/10.1016/j.tsf.2021.138980> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Characterization of tetrahedrite Cu₁₀Cd₂Sb₄S₁₃ monograin materials grown in molten CdI₂ and LiI : [conference paper]

Ghisani, Fairouz; Timmo, Kristi; Altosaar, Mare GSFMT Scientific Conference 2021 : Tartu, June 14-15, 2021 : abstracts 2021 / p. 29 https://fntdk.ut.ee/wp-content/uploads/2021/06/GSFMT_abstractbook_2021.pdf

Chemical bath deposition of ZnS films using different Zn-salts

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

Chemical 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 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 etching of tetrahedrite Cu₁₀Cd₂Sb₄S₁₃ monograin powder materials for solar cell applications

Ghisani, Fairouz; Timmo, Kristi; Altosaar, Mare; Mikli, Valdek; Danilson, Mati; Grossberg, Maarja; Kauk-Kuusik, Marit Materials science in semiconductor processing 2022 / art. 106291 <https://doi.org/10.1016/j.mssp.2021.106291> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Chemical processes involved in Cu₂ZnSnSe₄ synthesis and SnS recrystallization in a molten salt medium = Keemilised protsessid Cu₂ZnSnSe₄ sünteesil ja SnS rekristallisatsioonil sulade soolade keskkonnas

Leinemann, Inga 2019 <https://digi.lib.ttu.ee/i/?11250> https://www.ester.ee/record=b5185552*est

Chemical treatment of tetrahedrite Cu₁₀Cd₂Sb₄S₁₃ monograin powder

Ghisani, Fairouz; Timmo, Kristi; Altosaar, Mare GSFMT Scientific Conference 2020 : Tallinn, February 4-5, 2020 : abstracts 2020 / p. 24 <http://fmdk.ut.ee/wp-content/uploads/2020/01/GSFMT2020.pdf>

Comparative study of isothermal grain growth of CdS and CdTe in the presence of halide fluxes

Hiie, Jaan; Altosaar, Mare; Mellikov, Enn Solid state phenomena 1999 / Polycrystalline Semiconductors V : Bulk Materials, Thin Films and Devices : Proceedings of the Fifth International Conference, held in Schwäbisch Gmünd, Germany, September 13-18, 1998, p. 303-308

Comparative study of isothermal grain growth of CdS and CdTe in the presence of halide fluxes at low temperatures

Hiie, Jaan; Altosaar, Mare; Mellikov, Enn Abstracts of the International Conference POLYSe'98 : Polycrystalline Semiconductors - Bulk Materials, Thin Films and Devices, 13-18 Sept. 1998, Schwäbisch Gmünd, Germany 1998 / p. O24

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 <https://doi.org/10.1002/pssc.201510082> [Journal metrics at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

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

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

Comparison of copper zinc tin selenide formation in molten potassium iodide and sodium iodide as flux materials

Leinemann, Inga; Raudoja, Jaan; Grossberg, Maarja; Traksmäa, Rainer; Kaljuvee, Tiit; Altosaar, Mare; Meissner, Dieter Conference proceedings of the Conference of Young Scientists on Energy Issues : Kaunas, Lithuania, 27-28 May, 2010 2011 / [8] p https://www.researchgate.net/publication/284715158_COMPARISON_OF_COPPER_ZINC_TIN_SELENIDE_FORMATION_IN_MOLTEN_POTASSIUM_IODIDE_AND_SODIUM_IODIDE_AS_FLUX_MATERIALS

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 <https://doi.org/10.1016/j.tsf.2014.10.091> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Conference Proceedings at WOS](#) [Article at WOS](#)

Controlled formation of optoelectronic materials in the form of monograin powders

Mellikov, Enn; Hiie, Jaan; Altosaar, Mare Abstracts of the 2nd European Conference on Advanced Materials and Processes 1991 / p. 292-293

CZTS (Cu₂ZnSnSe₄) crystal growth for use in monograin membrane solar cells

Klavina, Inga; Raudoja, Jaan; Altosaar, Mare; Mellikov, Enn; Meissner, Dieter; Kaljuvee, Tiit Conference proceedings of the Conference of Young Scientists on Energy Issues : Kaunas, Lithuania, 27-28 May, 2010 2010 / p. VII 345 - VII 353

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

Cu₂Zn_{1-x}CdSn(S_{e1-y}S_y)₄ solid solutions as absorber materials for solar cells

Altosaar, Mare; Raudoja, Jaan; Timmo, Kristi; Danilson, Mati; Grossberg, Maarja; Krustok, Jüri; Mellikov, Enn Physica status solidi (a) : applications and materials science 2008 / 1, p. 167-170 : ill <https://colab.ws/articles/10.1002%2Fpssa.200776839>

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

Leinemann, Inga; Zhang, Weihao; Kaljuvee, Tiit; Tõnsuaadu, Kaia; Traksmäa, Rainer; Raudoja, Jaan; Grossberg, Maarja; Altosaar, Mare; Meissner, Dieter Journal of thermal analysis and calorimetry 2014 / p. 1313-1321 : ill <https://doi.org/10.1007/s10973-014-4102-y> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Cu₂ZnSnSe₄ monograin powders for solar cell application [Electronic resource]

Altosaar, Mare; Raudoja, Jaan; Timmo, Kristi; Danilson, Mati; Grossberg, Maarja; Krunk, Malle; Varema, Tiit; Mellikov, Enn 2006 IEEE 4th World Conference on Photovoltaic Energy Conversion - WCPEC 2006 / [CD-ROM]

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

Cu(In,Ga)Se₂ monograin powders with different Ga content for solar cells

Timmo, Kristi; Kauk-Kuusik, Marit; Pilvet, Maris; Altosaar, Mare; Grossberg, Maarja; Danilson, Mati; Kaupmees, Reelika; Mikli, Valdek; Raudoja, Jaan; Varema, Tiit Solar energy 2018 / p. 648–655 : ill <https://doi.org/10.1016/j.solener.2018.10.078> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

CuInSe₂ koostise uurimine polarograafilisel meetodil

Kauk, Marit; Altosaar, Mare; Raudoja, Jaan XXVII Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid = 27th Estonian Chemistry Days : abstracts of scientific conference 2001 / lk. 49-50

CuInSe₂ monograin growth in CuSe-Se liquid phase

Altosaar, Mare; Mellikov, Enn Twelfth International Conference on Ternary and Multinary Compounds : March 13-17, 2000 : National Tsing Hua University, Hsinchu, Taiwan : abstract[s] 2000 / p. Th-A4-7 <https://iopscience.iop.org/article/10.7567/JJAPS.39S1.65>

CuInSe₂ monograin growth in CuSe-Se liquid phase

Altosaar, Mare; Mellikov, Enn Japanese journal of applied physics 2000 / p. 65-66

CuInSe₂ monograin growth in the liquid phase of potassium iodide

Timmo, Kristi; Altosaar, Mare; Kauk, Marit; Raudoja, Jaan; Mellikov, Enn Thin solid films 2007 / 15, p. 5884-5886 <https://www.sciencedirect.com/science/article/pii/S0040609006016385>

CuInSe₂ preparation through a new solution based selenisation process

Kauk, Marit; Altosaar, Mare; Grossberg, Maarja; Varema, Tiit 17th International Photovoltaic Science and Engineering Conference : Fukuoka, Japan, 3-7.12.2007 2007

Defect structure of Cl and Cu doped CdS heat treated in Cd and S₂ vapour

Kukk, Peeter-Enn; Altosaar, Mare Journal of solid state chemistry 1983 / p. 1-11

Defects in Cl and Na doped CdTe monograin powders

Altosaar, Mare; Kukk, Peeter-Enn; Raudoja, Jaan; Mellikov, Enn E-MRS Spring Meeting : Strasbourg, 1999 : abstracts 1999 / p. O-32 <https://www.sciencedirect.com/science/article/abs/pii/S0040609099008135>

Direct electrodeposition of CuInSe₂ thin films

Kois, Julia; Altosaar, Mare; Mellikov, Enn; Kemell, M.; Saloniemi, H.; Ritala, M.; Leskelä, M. E-MRS Spring Meeting : Strasbourg, 1999 : abstracts 1999 / p. O-19

Effect of alkali ions (Na⁺, K⁺, Cs⁺) on reaction mechanism of CZTS nano-particles synthesis

Kumar, Suresh; Altosaar, Mare; Grossberg, Maarja; Mikli, Valdek Superlattices and microstructures 2018 / p. 54-63 : ill <https://doi.org/10.1016/j.spmi.2018.02.019>

Effect of alkali ions (Na⁺, K⁺, Cs⁺) on reaction mechanism of CZTS nano-particles synthesis [Online resource]

Kumar, Suresh; Altosaar, Mare; Grossberg, Maarja; Mikli, Valdek Tartu Ülikooli ASTRA projekt PER ASPERA : Funktsionaalsed materjalid ja tehnoloogiad : [7-8 märtsil 2018, Tallinn : teesid] GSFMT Scientific Conference 2018 : Tallinn, March 7-8, 2018 : abstracts 2018 / 1 p <http://fntdk.ut.ee/teesid-2018/>

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>

Efficiency enhancement of Cu₂ZnSnS₄ monograin layer solar cells via absorber post-growth treatments

Timmo, Kristi; Dolcet Sadurni, Marc; Pilvet, Maris; Muska, Katri; Altosaar, Mare; Mikli, Valdek; Atlan, Fabien; Guc, Maxim; Izquierdo-Roca, Victor; Grossberg-Kuusk, Maarja; Kauk-Kuusik, Marit Solar energy materials and solar cells 2023 / art. 112090 <https://doi.org/10.1016/j.solmat.2022.112090> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Electrochemical deposition of compound semiconductor thin films

Altosaar, Mare; Hiesgen, Renate; Guo, Ycping; Meissner, Dieter Baltic Conference on Interfacial Electrochemistry, June 14-18, 1996, Tartu : extended abstracts 1996 / p. 29-31

Electrochemical deposition of compound semiconductor thin films

Altosaar, Mare; Mellikov, Enn; Kois, Julia; Guo, Ycping; Meissner, Dieter Electrochemical Society proceedings. Vol. 97-20, The 1997 Joint International Meeting of the Electrochemical Society and the International Society of Electrochemistry 1997 / p. 11-15

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

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

Electrochemical deposition of CuInSe_2

Kois, Julia; Kemell, M.; Saloniemi, H.; Ritala, M.; **Altosaar, Mare**; **Mellikov, Enn** 2nd Baltic Conference on Electrochemistry : Palanga, Lithuania, 10-12 June : extended abstracts 1999 / p. 87

Formation and growth of CuZnSnS_4 monograin powder on molten CdI_2 = CuZnSnS_4 moodustumine ja monoterapulbri kasv CdI_2 sulafaasi keskkonnas

Nkwusi, Godswill 2017 <https://digi.lib.ttu.ee/ii/?7690> https://www.ester.ee/record=b4678707*est

Formation of copper zinc tin sulfide in cadmium iodide for monograin membrane solar cells

Nkwusi, Godswill; **Leinemann, Inga**; **Grossberg, Maarja**; **Kaljuvee, Tiit**; **Traksmäa, Rainer**; **Altosaar, Mare**; **Meissner, Dieter** Conference proceedings of the Conference of Young Scientists on Energy Issues : CYSENI 2012 : May 24–25, Kaunas, Lithuania 2012 / p. II 38-II 46 : ill

https://www.researchgate.net/publication/274889568_FORMATION_OF_COPPER_ZINC_TIN_SULFIDE_IN_CADMIUM_IODIDE_FOR_MONOGRAIN_MEMBRANE_SOLAR_CELLS

Formation of $\text{Cu}_2\text{ZnSnS}_4$ absorber layers for solar cells by electrodeposition-annealing route

Iljina, Julia; **Zhang, R.**; **Ganchev, Maxim**; **Raadik, Taavi**; **Volobujeva, Olga**; **Altosaar, Mare**; **Traksmäa, 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 $\text{Cu}_2\text{ZnSnSe}_4$ 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 $\text{Cu}_2\text{ZnSnSe}_4$ 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 photosensitivity in CdSexTe_{1-x} monograin powders

Altosaar, Mare; **Krustok, Jüri**; **Mädasson, Jaan**; **Mellikov, Enn** Book of Abstracts of the 11th International Conference on Ternary & Multinary Compounds, 8-12 September 1997, Salford, England 1997 / p. 1.45

Formation of photosensitivity in CdSexTe_{1-x} monograin powders

Altosaar, Mare; **Krustok, Jüri**; **Mädasson, Jaan**; **Mellikov, Enn**; **Kukk, Peeter-Enn** Ternary and Multinary Compounds : proceedings of the 11th International Conference on Ternary and Multinary Compounds, ICTMC-11, University of Salford, 8-12 September 1997 1998 / p. 553-556: ill

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

Timmo, Kristi 2011

Fundamental studies for improved photovoltaic materials and devices

Mellikov, Enn; **Krunks, Malle**; **Altosaar, Mare**; **Krustok, Jüri**; **Valdna, Vello** Proceedings of International Conference QUANTSOL'99 : Wildhaus, Switzerland, 1999 1999 / p. 41-45

Further developments in CIS monograin layer solar cells technology

Altosaar, Mare; **Danilson, Mati**; **Kauk, Marit**; **Krustok, Jüri**; **Mellikov, Enn**; **Raudoja, Jaan**; **Timmo, Kristi**; **Varema, Tiit** Solar energy materials and solar cells 2005 / p. 25-32 : ill

Growth of CdTe monograin powders

Hiie, Jaan; **Altosaar, Mare**; **Mellikov, Enn**; **Kukk, Peeter-Enn**; **Sapogova, J.**; **Meissner, Dieter** Physica scripta 1997 / p. 155-158: ill

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

High efficient photovoltaics in Estonia

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

High-temperature self disorder in CuInSe_2

Krustok, Jüri; Kukk, Peeter-Enn; Altosaar, Mare Crystal research and technology 1996 / p. 159-162

High-temperature selfdisorders in CnInSe_2

Krustok, Jüri; Kukk, Peeter-Enn; Altosaar, Mare Proceedings : 10th International Conference on Ternary and Multinary Compounds : Stuttgart, September 19-22, 1995 1996

Impact of $\text{Cu}_2\text{ZnSn}(\text{SexS}_{1-x})_4$ ($x=0.3$) 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 growth-synthesis conditions on $\text{Cu}_2\text{Zn}_{1-x}\text{Cd}_x\text{SnS}_4$ 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>

Influence of alkali iodide fluxes on $\text{Cu}_2\text{ZnSnS}_4$ monograin powder properties and performance of solar cells

Timmo, Kristi; Pilvet, Maris; Muska, Katri; Altosaar, Mare; Mikli, Valdek; Kaupmees, Reelika; Josepson, Raavo; Krustok, Jüri; Grossberg-Kuusk, Maarja; Kauk-Kuusik, Marit Materials advances 2023 / p. 4509-4519 : ill <https://doi.org/10.1039/D3MA00444A> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Influence of compositional deviations on the properties of $\text{Cu}_2\text{ZnSnSe}_4$ monograin powders

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

Influence of Na doping on opto-electrical properties of CdTe:Cl

Altosaar, Mare; Kukk, Peeter-Enn; Raudoja, Jaan; Krustok, Jüri; Krunks, Malle; Mellikov, Enn; Raudoja, Jaan vt.ka Mädasson, Jaan 11th International Photovoltaic Science and Engineering Conference : Sept. 20-24/1999, Hokkaido, Japan : technical digest 1999 / p. 457-458: ill

Influence of order-disorder in $\text{Cu}_2\text{ZnSnS}_4$ powders on the performance of monograin layer solar cells

Timmo, Kristi; Kauk-Kuusik, Marit; Pilvet, Maris; Raadik, Taavi; Altosaar, Mare; Danilson, Mati; Grossberg, Maarja; Raudoja, Jaan; Ernits, Kaia Thin solid films 2017 / p. 122-126 : ill <https://doi.org/10.1016/j.tsf.2016.10.017> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Influence of point defects on optoelectronic properties of II-IV semiconductors

Kukk, Peeter-Enn; Krustok, Jüri; Altosaar, Mare; Aarna, Heiti Abstract booklet of the First International Conference on Mathematical Science of chalcogenide and Diamond-structure Semiconductors, Chernovtsi, 1994. Vol. 1 1994 / p. 129

Influence of point defects on physical qualities of semiconductors

Altosaar, Mare; Buschmann, Felix; Erm, Ants; Krustok, Jüri; Kukk, Peeter-Enn; Lõo, A.; Mädasson, Jaan; Tomson, A. Journal of materials and product. technology 1991

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

Isothermal grain growth of CdTe in CdCl_2 and Te fluxes

Hiie, Jaan; Altosaar, Mare; Mellikov, Enn; Mädasson, Jaan; Sapogova, J.; Mikli, Valdek Conference record of the Twenty Sixth IEEE Photovoltaic Specialists Conference - 1997, Anaheim, CA, 29 September - 03 October 1997 1997 / p. 455-458: ill

Isothermal grain growth of CdTe in liquid Te flux

Hiie, Jaan; Altosaar, Mare; Mellikov, Enn; Mädasson, Jaan; Sapogova, J.; Mikli, Valdek 26th IEEE Photovoltaic Specialists Conference, Anaheim, 1997 : abstracts 1997 / p. 111

Large area low cost single crystalline photovoltaic and photoelectrochemical devices

Varema, Tiit; Altosaar, Mare; Deppe, M.; Wirts, C.; Deppe, J.; Hiesgen, Renate; Mellikov, Enn; Meissner, Dieter Baltic Conference on Interfacial Electrochemistry, June 14-18, 1996, Tartu : extended abstracts 1996 / p. 243-245: ill

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>

Liquid optron on CdSe base

Altosaar, Mare; Valdna, Vello; Kukk, Peeter-Enn 9th International Symposium of the Technical Committee on Photon-Detectors, Visegrad, 9 - 12 september 1980 : proceedings International Measurement Confederation IMEKO : [abstracts] 1980 / p. 10-11

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

Materials and technologies for photovoltaic applications from Estonia

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

Materials and technologies for photovoltaic applications from Estonia

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

Mechanism of molten phase actron of thermal recrystallization of powder materials

Mellikov, Enn; Hiie, Jaan; Tuvike, Tiit; Altosaar, Mare Международная конференция Химия твердого тела. Т. 2 1990 / с. 154

Mo pinna eeltöötluste mõju MoSe₂ omadustele

Kaupmees, Liina; Pilvet, Maris; Altosaar, Mare XXIX Eesti keemiapäevad : teaduskonverentsi ettekannete teesid = 29th Estonian Chemistry Days : abstracts of scientific conference 2005 / lk. 36-37

Monograin A2B6 powders

Mellikov, Enn; Hiie, Jaan; Altosaar, Mare Producibility of II-IV Materials and Devices : SPIE proceedings. Vol. 2228 1994 / p. 177-185

Monograin layer solar cell for future lunar outpost

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

Monograin layer solar cells

Altosaar, Mare; Jagomägi, Andri; Kauk, Marit; Krunks, Malle; Krustok, Jüri; Mellikov, Enn; Raudoja, Jaan; Varema, Tiit Thin solid films 2003 / p. 466-469 : ill

Monograin layer solar cells

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

Monograin layers and membranes for photovoltaic

Mellikov, Enn; Altosaar, Mare; Varema, Tiit; Deppe, M.; Wirts, C.; Deppe, J.; Hiesgen, Renate; Meissner, Dieter 25th IEEE Photovoltaic Specialists Conference, Washington, 1996 1996 / p. 212
https://www.researchgate.net/publication/224197383_Monograin_layers_and_membranes_for_photovoltaics

Monograin layers as optoelectronic devices

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

Monograin layers as optoelectronic devices

Mellikov, Enn; Meissner, Dieter; Varema, Tiit; Hiie, Jaan; Altosaar, Mare International Conference Advanced Optical Materials and Devices, Riga, 1996 1996 / p. 171

Monograin powders and layers for photovoltaic application

Altosaar, Mare; Hiie, Jaan; Mellikov, Enn; Meissner, Dieter; Varema, Tiit Abstracts of MRS Spring Meeting, San Francisco, 1996 1996 / p. 169

Monograin powders for solar energetics

Mellikov, Enn; Altosaar, Mare; Hiie, Jaan; Mäddasson, Jaan Abstracts of 12th European Photovoltaic Solar Energy Conference, Amsterdam, 1994 1994 / p. 9A-33

Monograin powders for solar energetics

Mellikov, Enn; Altosaar, Mare; Hiie, Jaan; Meissner, Dieter Proceedings of 12th European Photovoltaic Solar Energy Conference, Amsterdam, 1994 1994 / p. 1619-1622

Monokornmembran-Elektroden : grossflächige Einkristallelektroden aus Halbleiterpulvern

Wirts, C.; Deppe, M.; Guo, Y.; **Altosaar, Mare; Varema, Tiit; Mellikov, Enn**; Meissner, Dieter Struktur und Reaktivität von Elektrodenoberflächen : 60. Bunsenkolloquium : book of abstracts 1995 / S. P40

Monoterilised pooljuhtpulbrid päikeseenergeetikale = Monograin semiconductor powders for solar energetics

Hiie, Jaan; Altosaar, Mare; Krunk, Malle; Mellikov, Enn XVII Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid = 17th Estonian Chemistry Days : abstracts of scientific conference 1996 / lk. 39-40 https://www.ester.ee/record=b1070511*est

Multiple role of fluxing agent in the recrystallization process

Hiie, Jaan; Altosaar, Mare; Mellikov, Enn Abstracts of the 2nd WCEPSEC, 1998 1998 / 0,1 ap

Multiple role of fluxing agent in the recrystallization process

Hiie, Jaan; Altosaar, Mare; Mellikov, Enn; Meissner, Dieter; Brammer, T. 2nd World Conference and Exhibition on Photovoltaic Solar Energy Conversion, 6-10 July 1998 1998 / p. 732-734: ill

Multiple role of fluxing agent in the recrystallization process

Hiie, Jaan; Altosaar, Mare; Mellikov, Enn; Meissner, Dieter; Brammer, T. Proceedings of the 2nd World Conference on Photovoltaic Solar Energy Conversion : Jerusalem, Israel, July 4-9, 1999. Vol. 1 2000 / p. 732-734

Naatriumiga legerimise mõju monoterapulbrilise CuInSe₂ omadustele

Timmo, Kristi; Altosaar, Mare; Raudoja, Jaan; Danilson, Mati; Grossberg, Maarja XXIX Eesti keemiapäevad : teaduskonverentsi ettekannete teesid = 29th Estonian Chemistry Days : abstracts of scientific conference 2005 / lk. 111-112

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

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

Photoconductive CdS and CdS_xSe_{1-x} and CdS_xTe_{1-x} powders and layers for microwave optoelectronic antennas

Hiie, Jaan; Altosaar, Mare; Krunk, Malle; Mellikov, Enn International Conference Advanced Optical Materials and Devices, Riga, 1996 1996 / p. 195

Photoconductive ternary CdS_xSe_{1-x} and CdS_xTe_{1-x} powders and layers for microwave detectors

Hiie, Jaan; Altosaar, Mare; Krunk, Malle; Mellikov, Enn Book of Abstracts of the 11th International Conference on Ternary & Multinary Compounds, 8-12 September 1997, Salford, England 1997 / p. 1.44

Photoconductivity formation in CdTe in the annealing process

Hiie, Jaan; Valdna, Vello; Altosaar, Mare; Mellikov, Enn International Conference Advanced Optical Materials and Devices, Riga, 1996 1996 / p. 197

Photoconductivity formation in CdTe in the annealing process

Hiie, Jaan; Valdna, Vello; Mellikov, Enn; Altosaar, Mare Optical organic and semiconductor inorganic materials 1997 / p. 123-129

Photoelectrochemical properties and band positions of Cd-substituted tetrahedrite Cu₁₀Cd₂Sb₄S₁₃ monograin materials grown in molten CdI₂ and LiI

Ghisani, Fairouz; Timmo, Kristi; Altosaar, Mare; Oueslati, Souhaib; Pilvet, Maris; Kauk-Kuusik, Marit Thin Solid Films 2022 / art. 139030 <https://doi.org/10.1016/j.tsf.2021.139030> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Photoelectrochemistry of CdS_xTe_{1-x}

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

Photoluminescence and Raman study of Cu₂ZnSn(S_xS_{1-x})₄ monograins for photovoltaic applications

Grossberg, Maarja; Krustok, Jüri; Raudoja, Jaan; Timmo, Kristi; Altosaar, Mare; Raadik, Taavi Thin solid films 2011 / p. 7403-7406 : ill

Photoluminescence properties of stoichiometric CuInSe₂ crystals

Krustok, Jüri; Jagomägi, Andri; Raudoja, Jaan; Altosaar, Mare Solar energy materials and solar cells 2003 / p. 401-408 : ill

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

Point defects in Cl and Na doped CdTe

Altosaar, Mare; Kukk, Peeter-Enn; Mellikov, Enn Thin solid films 2000 / p. 443-445

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](#)

Powder materials and technologies for solar cells

Mellikov, Enn; Hiie, Jaan; Altosaar, Mare International journal of materials & product technology 2007 / 3/4, p. 291-311 : ill

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

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

Päikeseelementide uued materjalid ja konstruktsioonid : kommentaar Eesti Vabariigi teaduse aastapreemia pälvinud tööde tsükli

Mellikov, Enn; Altosaar, Mare; Bereznev, Sergei; Öpik, Andres Tallinna Tehnikaülikooli aastaraamat 2006 2007 / lk. 262-267 : ill

Päikeseenergeetika materjalid

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

Päikeseenergeetika materjalide alased uuringud Tallinna Tehnikaülikoolis

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

Pyrite as promising monograin layer solar cell absorber material for in-situ solar cell fabrication on the Moon

Kristmann, Katriin; Raadik, Taavi; Altosaar, Mare; Grossberg-Kuusk, Maarja; Krustok, Jüri; Pilvet, Maris; Mikli, Valdek; Kauk-Kuusik, Marit; Makaya, Advenit Acta Astronautica 2022 / P. 420-424 <https://doi.org/10.1016/j.actaastro.2022.07.043> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Pyrite as prospective absorber material for monograin layer solar cell

Kristmann, Katriin; Altosaar, Mare; Raudoja, Jaan; Krustok, Jüri; Pilvet, Maris; Mikli, Valdek; Grossberg, Maarja; Danilson, Mati; Raadik, Taavi Thin Solid Films 2022 / art. 139068 : ill <https://doi.org/10.1016/j.tsf.2021.139068> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Pyrite as prospective monograin layer solar cell absorber material for in-situ solar cell fabrication on the Moon

Kristmann, Katriin; Raadik, Taavi; Altosaar, Mare; Grossberg, Maarja; Krustok, Jüri; Pilvet, Maris; Mikli, Valdek; Kauk-Kuusik, Marit IAC 2021 congress proceedings 2021 / p. 1-6 : ill <https://deepzone3.ttu.ee/~juri.krustok/PDF-s/IAC-21.C3.4.7.x64087.pdf> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

Pyrite FeS₂ solar cells fabrication for lunar base energy production

Kristmann, Katriin; Raadik, Taavi; Altosaar, Mare; Grossberg-Kuusk, Maarja; Krustok, Jüri; Pilvet, Maris; Mikli, Valdek; Kauk-Kuusik, Marit; Makaya, Advenit IAC 2022 congress proceedings 2022 / art. 190266 [Pyrite FeS₂ solar cells fabrication for lunar base energy production](#) [Conference proceedings at Scopus](#) [Article at Scopus](#)

Radiative and nonradiative recombination centers in Cl and Na doped CdTe

Altosaar, Mare; Kukk, Peeter-Enn Journal of materials science 2000 / p. 1135-1138 <https://link.springer.com/article/10.1023/A:1004715931935>

Radiative recombination in Cu₂ZnSnSe₄ monograins studied by photoluminescence spectroscopy

Grossberg, Maarja; Krustok, Jüri; Timmo, Kristi; Altosaar, Mare Thin solid films 2009 / 7, p. 2489-2492 : ill <https://www.sciencedirect.com/science/article/abs/pii/S0040609008014053>

Rapid thermal processing of Kesterite thin films

Ganchev, Maxim; Spasova, Stanka; Raadik, Taavi; Mere, Arvo; Altosaar, Mare; Mellikov, Enn Coatings 2023 / art. 1449 <https://doi.org/10.3390/coatings13081449> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Reaction enthalpies of CZTSe synthesis in KI

Leinemann, Inga; Kaljuvee, Tiit; Tõnsuaadu, Kaia; Altosaar, Mare Book of abstracts : 2nd Central and Eastern European

Reaction enthalpies of $\text{Cu}_2\text{ZnSnSe}_4$ 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 <https://doi.org/10.1007/s10973-014-4339-5> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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

Reaction pathway to CZTSe formation in CdI_2 : Part 2: Chemical reactions and enthalpies in mixtures of CdI_2 -CuSe-SnSe and CdI_2 -CuSe-SnSe-ZnSe

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

Reaction pathway to $\text{Cu}_2\text{ZnSnSe}_4$ formation in CdI_2 : part 1. Chemical reactions and enthalpies in mixtures of CdI_2 -ZnSe, CdI_2 -SnSe, and CdI_2 -CuSe

Leinemann, Inga; Nkwusi, Godswill; Timmo, Kristi; Volobujeva, Olga; Danilson, Mati; Raudoja, Jaan vt.ka Mäddasson, 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](#)

Recrystallization of CIS powders in molten fluxes

Altosaar, Mare; Hiie, Jaan; Mellikov, Enn; Mäddasson, Jaan International Conf. on Ternary and Quaternary Compounds : book of abstracts 1995 / p. POI 50

Recrystallization of CIS powders in molten fluxes

Altosaar, Mare; Hiie, Jaan; Mellikov, Enn; Mäddasson, Jaan Crystal research and technology 1996 / p. 505-508: ill

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

Selection of processing conditions for solution growth of CdTe and CuInSe_2 monograin powders on the base of phase diagrams

Altosaar, Mare; Hiie, Jaan; Mellikov, Enn 24th Estonian Chemistry Days : abstracts of scientific conference 1998 / p. 11

Selenization of molybdenum as contact material in solar cells = Molübdeeni kui päikesepatarei kontaktmaterjali seleniseerimine

Kaupmees, Liina 2011

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>

Solubility of CuInSe_2 in potassium iodide

Kauk, Marit; Timmo, Kristi; Altosaar, Mare; Raudoja, Jaan Conference on Knowledge-based Materials and Technologies for Sustainable Chemistry : 1-5 June 2005, Tallinn, Estonia : abstract book 2005 / p. 90

Sprayed CuInS_2 thin films for solar cells : the effect of solution composition and post-deposition treatments

Krunks, Malle; Bijakina, Olga; Mikli, Valdek; Rebane, Helen; Varema, Tiit; Altosaar, Mare; Mellikov, Enn 11th International Photovoltaic Science and Engineering Conference : Sept. 20-24/1999, Hokkaido, Japan : technical digest 1999 / p. 845-846: ill <https://www.sciencedirect.com/science/article/pii/S0927024800003810>

Sprayed CuInS_2 thin films for solar cells : the effect of solution composition and post-deposition treatments

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

Study of composition reproducibility of electrochemically co-deposited CuInSe_2 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 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> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Study of Cu₂CdGeSe₄ monograin powders synthesized by molten salt method for photovoltaic applications
Kauk-Kuusik, Marit; Li, Xiaofeng; Pilvet, Maris; Timmo, Kristi; Grossberg, Maarja; Raadik, Taavi; Danilson, Mati; Mikli, Valdek; Altosaar, Mare; Krustok, Jüri; Raudoja, Jaan Thin solid films 2018 / p. 15-19 <https://doi.org/10.1016/j.tsf.2018.09.025> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Study of Cu₂ZnSnSe₄ monograin formation in molten KI starting from binary chalcogenides
Klavina, Inga; Kaljuvee, Tiit; Timmo, Kristi; Raudoja, Jaan; Traksmaa, Rainer; Altosaar, Mare; Meissner, Dieter Thin solid films 2011 / p. 7399-7402 <https://www.sciencedirect.com/science/article/pii/S0040609011004305>

Study of InSI and ZnS thin films deposited by ultrasonic spray pyrolysis and chemical deposition = Ultraheli pihustuspürolüüsi ja keemilise sadestamise meetodil kasvatatud InSI ja ZnS õhukeste kilede uurimine
Ernits, Kaia 2009 <https://digi.lib.ttu.ee/i/?452> https://www.ester.ee/record=b2524289*est

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-on-different-mo-substrates/6D15F02E62EBCA61287DCEDEB7FA9DDD>

SuInSe₂ pinna keemiline söövitamine
Kauk, Marit; Tsarjova, Tatjana; Altosaar, Mare; Raudoja, Jaan XXVIII Eesti keemiapäevad : teaduskonverentsi ettekannete teesid = 28th Estonian Chemistry Days : abstracts of scientific conference 2002 / lk. 52-53

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

Surface degreasing and activation as important factors for Cu electroplating on ITO substrates
Altosaar, Mare; Varema, Tiit; Mellikov, Enn Proceedings of the 2nd International Conference, 27-29th April 2000, Tallinn, Estonia / DAAAM International Vienna, DAAAM National Estonia 2000 / p. 233-235 : ill

Surface degreasing and activation as important factors for Cu electroplating on ITO substrates
Altosaar, Mare; Varema, Tiit; Mellikov, Enn Integrity, Reliability, Failure 1999 : July 19-22, Porto, Portugal : book of abstracts 1999 / p. 234-235

Synthesis and characterization of pyrite FeS₂ solar cell absorber crystals and modifying their surface
Kristmann, Katriin; Raadik, Taavi; Altosaar, Mare; Mikli, Valdek; Danilson, Mati Graduate School of Functional Materials and Technology (GSFMT) Scientific Conference : abstracts 2022 / 29 l. [Graduate School of Functional Materials and Technology \(GSFMT\) Scientific Conference 2022](#)

Synthesis and characterization of tetrahedrite absorber materials for photovoltaic application
Ghisani, Fairouz; Timmo, Kristi; Altosaar, Mare Graduate School of Functional Materials and Technology (GSFMT) Scientific Conference : abstracts 2022 / 17 l. [Graduate School of Functional Materials and Technology \(GSFMT\) Scientific Conference 2022](#)

Synthesis and characterization of tetrahedrite Cu₁₀Cd₂Sb₄S₁₃ monograin material for photovoltaic application
Ghisani, Fairouz; Timmo, Kristi; Altosaar, Mare; Raudoja, Jaan; Mikli, Valdek; Pilvet, Maris; Kauk-Kuusik, Marit; Grossberg, Maarja Materials science in semiconductor processing 2020 / art. 104973 <https://doi.org/10.1016/j.mssp.2020.104973> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Synthesis and characterization of tetrahedrite Cu₁₀Cd₂Sb₄S₁₃ monograin material for photovoltaic application [Online resource]

Ghisani, Fairouz; Timmo, Kristi; Altosaar, Mare; Raudoja, Jaan Tartu Ülikooli ASTRA projekt PER ASPERA : Funktsionaalsed materjalid ja tehnoloogiad : [4.-5. veebr. 2019, Tartu : teesid] 2019 / 1 p <http://fntdk.ut.ee/teesid-2019/>

Synthesis and characterization of tetrahedrite Cu₁₀Cd₂Sb₄S₁₃ monograin powders for photovoltaic applications = Tetraedriitsete Cu₁₀Cd₂Sb₄S₁₃ monoterapulbrite süntees ja iseloomustamine kasutamiseks päikesepatareides
Ghisani, Fairouz 2022 <https://doi.org/10.23658/taltech.45/2022> <https://digikogu.taltech.ee/et/Item/916bb43a-3742-40c3-b91a-06a06cafd299> https://www.ester.ee/record=b5507330*est

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 Materials Research Society symposium proceedings 2014 / 6 p. : ill <https://doi.org/10.1557/opl.2014.245> [Conference proceedings at Scopus](#) [Article at Scopus](#)

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

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

Kumar, Suresh 2018 <https://digi.lib.ttu.ee/i/?10626> https://www.ester.ee/record=b5151482*est

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

Kumar, Suresh; Kasubosula, Bharath; Looirts, 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> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

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>

Tailoring composition and properties of CuInSe₂ materials for solar cell application

Kauk, Marit; Timmo, Kristi; Kaupmees, Liina; Altosaar, Mare; Raudoja, Jaan The Fourth International Conference on Advanced Optical Materials and Devices : (AOMD-4) : Tartu, Estonia, July 6-9, 2004 : abstracts 2004 / p. 44

Tailoring II/VI semiconductor materials properties to photochemical requirements

Wirts, C.; Kuk, Peeter-Enn; Altosaar, Mare 10th International Conf. on Photochemical Conversion and Storage of Solar Energy, Interlaken, Schweiz, July 24-29, 1995 : book of abstracts 1995

Tailoring II/VI semiconductor materials properties to photoelectrochemical requirements

Wirts, C.; Altosaar, Mare; Varema, Tiit; Mellikov, Enn; Meissner, Dieter 10th International Conference on Photochemical Conversion and Storage of Solar Energy (IPS-10) : book of abstracts, Interlaken, Switzerland, 1994 1994 / p. 387-388

Tailoring II/VI semiconductor materials properties to photoelectrochemical requirements

Wirts, C.; Altosaar, Mare; Varema, Tiit; Mellikov, Enn; Meissner, Dieter Tenth Int. Conf. on Photochemical Conversion and Storage of Solar Energy, (IPS-10) : book of abstracts. Interlaken, 1995 1995

Tailoring the composition and properties of CuInSe₂ materials for solar cell application

Kauk, Marit; Altosaar, Mare; Raudoja, Jaan; Timmo, Kristi; Grossberg, Maarja; Varema, Tiit; Ernits, Kaia Proceedings of SPIE 2005 / Optical materials and applications, p. 224

Teaduspreemia tehnikateaduste alal teadustöö "Päikeseelementide uued materjalid ja konstruktsioonid" eest : Enn

Mellikov (kollektiivi juht), Mare Altosaar, Sergei Bereznev, Andres Õpik

Mellikov, Enn; Altosaar, Mare; Bereznev, Sergei; Õpik, Andres Eesti Vabariigi teaduspreemiad 2006 2006 / lk. 58-68 : fot., ill

Teaduspreemia tehnikateaduste alal töö "Pooljuhtmaterjalid päikeseenergeetikale ja optoelektronikale" eest

Mellikov, Enn; Altosaar, Mare; Krunks, Malle; Krustok, Jüri; Valdna, Vello Eesti Vabariigi teaduspreemiad 1998 1998 / lk. 32-39: fotod

Technology of CdTe monograin powders

Altosaar, Mare; Hiie, Jaan; Mellikov, Enn; Varema, Tiit; Kuk, Peeter-Enn; Meissner, Dieter Proceedings of the Estonian Academy of Sciences. Engineering 1996 / 1, p. 89-97: ill

The effect of Ag alloying of Cu₂(Zn,Cd)SnS₄ on the monograin powder properties and solar cell performance

Timmo, Kristi; Altosaar, Mare; Pilvet, Maris; Mikli, Valdek; Grossberg, Maarja; Danilson, Mati; Raadik, Taavi; Josepson, Raavo; Krustok, Jüri; Kauk-Kuusik, Marit Journal of materials chemistry A 2019 / p. 24281-24291 : ill <https://doi.org/10.1039/C9TA07768E> [TTÜ teadlased tõstsid uue põlvkonna päikesepaneelide tõhusust](#) [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

The effect of sodium doping to CuInSe₂ monograin powder properties

Timmo, Kristi; Altosaar, Mare; Raudoja, Jaan; Mellikov, Enn; Varema, Tiit; Danilson, Mati; Grossberg, Maarja Thin solid films 2007 / 15, p. 5887-5890

The influence of doping with donor type impurities on the properties of CuInSe₂

Kauk, Marit; Altosaar, Mare; Raudoja, Jaan; Timmo, Kristi; Varema, Tiit; Danilson, Mati; Grossberg, Maarja; Mellikov, Enn

The nature of recombination centres in silver and chlorine doped CdS phosphors

Krustok, Jüri; Mädasson, Jaan; Altosaar, Mare; Kuk, Peeter-Enn Journal of physics and chemistry of solids 1990 / 9, p. 1013

The performance of CuInSe₂ monograin layer solar cells with variable indium content

Kauk, Marit; Altosaar, Mare; Raudoja, Jaan; Jagomägi, Andri; Danilson, Mati; Varema, Tiit Thin solid films 2007 / 15, p. 5880-5883

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 structure of recombination centres in A₂B₆ compounds

Erm, Ants; Kuk, Peeter-Enn; Krustok, Jüri; Mädasson, Jaan; Altosaar, Mare Seventh EC Photovoltaic Solar Energy Conference : proceedings of the international conference, held at Sevilla, Spain, 27 - 31 October 1986 1987 / p. 24-25
https://www.ester.ee/record=b2527611*est

Thin films by laser ablation

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

Õhukeste CuInSe₂ kilede saamine elektrokeemiliselt sadestatud elementidest

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

XPS study of CZTSSe monograin powders

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

Влияние акцепторов на рекомбинационные потоки в вырожденном сульфиде кадмия

Moin, M.; Fridrih, E.; Hvostov, V.; Altosaar, Mare; Erm, Ants; Kuk, Peeter-Enn Український фізичний журнал : науковий журнал = Украинский физический журнал = Ukrainian Journal of Physics 1982 / с. 1688-1692 : илл https://www.ester.ee/record=b1361425*est

Высокотемпературная проводимость сульфида кадмия

Kuk, Peeter-Enn; Varema, Tiit; Voogne, Maie; Aarna, Heiti; Altosaar, Mare; Erm, Ants Всесоюзное совещание "Реальная структура неорганических жаростойких и жаропрочных материалов, 9-12 октября 1979 : тезисы докладов 1979 / с. 328-329

Дефектный состав порошкового сульфида кадмия с примесью серебра и хлора

Mädasson, Jaan; Krustok, Jüri; Altosaar, Mare Дефекты структуры и свойства керамики : четвертое Всесоюзное совещание по химии твердого тела, 11-13 июня 1985 г. : тезисы докладов 1985 / с. 132

Дефектообразование в халькогенидах цинка и кадмия

Altosaar, Mare; Krustok, Jüri; Kuk, Peeter-Enn; Mädasson, Jaan; Tomson, A.; Erm, Ants Термодинамика и материаловедение полупроводников : четвертая всесоюзная конференция, 1989 г. : тезисы докладов 1989 / с. 247

Дефекты в примесном сульфиде кадмия

Erm, Ants; Altosaar, Mare; Kuk, Peeter-Enn; Moin, M. Журнал неорганической химии 1981 / с. 889-891 : илл
https://www.ester.ee/record=b1443384*est

Дефекты в примесном сульфиде кадмия

Erm, Ants; Varema, Tiit; Altosaar, Mare; Kuk, Peeter-Enn Четвертая Всесоюзная конференция по физико-химическим основам легирования полупроводниковых материалов, Москва, 16-18 окт. 1979 г. : тезисы докладов 1979 / с. 177

Кинетика квазихимических реакций в полупроводниках типа A₂B₆

Kuk, Peeter-Enn; Rändur, Õie; Palmre, Õie; Varema, Tiit; Altosaar, Mare Тезисы докладов 2го Всесоюзного совещания по химии твердого тела. Ч. 2 1978 / с. 29

Малобааритные приемники излучения

Altosaar, Mare; Valdna, Vello; Varvas, Jüri; Hiie, Jaan "Фотометрические измерения и их метрологическое обеспечение", 1. всесоюзная научно-техническая конференция : тезисы докладов 1974 / с. 9 https://www.ester.ee/record=b3927829*est

Малозернистые фотонные датчики

Mellikov, Enn; Varema, Tiit; Hiie, Jaan; Altosaar, Mare Труды Координационного совещания социалистических стран по физическим проблемам оптоэлектроники ("Оптоэлектроника-89"), 16-20 октября 1989 г. 1989 / с. 44

Механизм и кинетика роста и активации микрокристаллов сульфида кадмия

Altosaar, Mare; Hiie, Jaan Физика, химия и технические применения полупроводников А2В6 : тезисы докладов IV всесоюзного совещания (Одесса, 16-19 ноября 1976 г.) 1976 / с. 11 https://www.ester.ee/record=b2969209*est

Нестабильность и старение поликристаллических CdS и CdSe фоторезисторов

Valdna, Vello; Altosaar, Mare; Varvas, Jüri Полупроводниковые материалы. 2 1972 / с. 97-108 : илл https://www.ester.ee/record=b1476073*est <https://digikogu.taltech.ee/et/Item/75bd57ba-4543-4614-ab7c-3230cb13e005>

О причинах разброса параметров таблеточных фоторезисторов из селенида кадмия

Altosaar, Mare; Valdna, Vello Физическая химия соединений АIIВVI 1981 / с. 19-26 : илл https://www.ester.ee/record=b1533413*est <https://digikogu.taltech.ee/et/Item/dceb76ed-f60b-4ce9-b87e-618a41d25bb8>

Образование anomalно мелких локализованных дырочных состояний в сильнолегированном CdS

Moin, M.; Altosaar, Mare; Erm, Ants 5-я республиканская конференция молодых ученых-химиков : [тезисы докладов] 1983 / с. 240 https://www.ester.ee/record=b1312297*est

Определение квазихимических параметров точечных дефектов в полупроводниковых соединениях

Kukk, Peeter-Enn; Aarna, Heiti; Altosaar, Mare; Mädaßon, Jaan; Mellikov, Enn; Aarna, Agu Eesti NSV Teaduste Akadeemia toimetised. Keemia = Proceedings of Academy of Sciences of the Estonian SSR. Chemistry = Известия Академии наук Эстонской ССР. Химия 1985 / с. 247-252 https://www.ester.ee/record=b1264984*est <https://www.etera.ee/zoom/19218/view?page=1&p=separate&view=0,0,2465,3986>

Определение природы центров рекомбинации полупроводников физико-химическими методами

Altosaar, Mare; Kukk, Peeter-Enn; Mellikov, Enn; Moin, M. II республиканская конференция по фотоэлектрическим явлениям в полупроводниках, (Одесса, сентябрь 1982 г.) : тезисы докладов 1982 / с. [18-19]

Определение растворенной в решетке CdS меди по электрическим измерениям

Altosaar, Mare; Nirk, M. II республиканская конференция молодых ученых-химиков, 17-19 мая 1977 : тезисы докладов. Часть 2 1977 / с. 116-117 https://www.ester.ee/record=b1308855*est

Особенности легирования монокристаллического селенида кадмия хлором и медью

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

Полупроводниковые материалы

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

Полупроводниковые материалы

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

Полупроводниковые материалы

Raukas, Maie; Nirk, Tiit; Varvas, Jüri; Nei, Toomas; Kerm, Karin; Lippmaa, J.; Õpik, Andres; Ahven, Tarmo; Altosaar, Mare; Varema, Tiit; Valdna, Vello; Mellikov, Enn; Lott, Kalju; Törn, Leo 1989 https://www.ester.ee/record=b1213709*est

Получение твердых растворов сульфидов цинка и кадмия и некоторые их люминесцентные и фотоэлектрические свойства

Varvas, Jüri; Altosaar, Mare; Nõges, Märt; Kukk, Peeter-Enn Полупроводниковые материалы. 1 1969 / с. 3-11 : илл https://www.ester.ee/record=b1346474*est <https://digikogu.taltech.ee/et/Item/da24f532-932d-41c5-8925-a52dfa4b18c8/>

Получены дефекты в KPT

Altosaar, Mare VI Всесоюзное совещание по химии и технологии молибдена и вольфрама, 13-15 сентября 1988 г. : тезисы докладов 1988 / с. [73]

Природа красной полосы люминесценции в CdS : Ag : Cl

Krustok, Jüri; Mädaßon, Jaan; Altosaar, Mare Электрофизические свойства полупроводниковых и диэлектрических материалов 1986 / с. 23-30

Процессы дефектообразования в примесном сульфиде кадмия

Mädaßon, Jaan; Altosaar, Mare; Tomson, A.; Kukk, Peeter-Enn Электрофизические свойства полупроводниковых и

Процессы образования центров свечения в сульфиде кадмия

Kukk, Peeter-Enn; Erm, Ants; Altosaar, Mare; Varema, Tiit XXVII Всесоюзное совещание по люминесценции (кристаллофосфоры) : Эзерниеки (Латвийская ССР), 13-16 мая 1980 г. : тезисы докладов 1980 / с. 199
https://www.ester.ee/record=b1677311*est

Распределение Cu между твердой фазой CdS и расплавом CdCl₂ + CdS

Altosaar, Mare; Kukk, Peeter-Enn Неорганические материалы Известия Академии наук СССР. Неорганические материалы 1982 / с. 1475-1478 : илл https://www.ester.ee/record=b1611497*est

Растворимость меди в сульфиде кадмия

Altosaar, Mare; Kerm, Karin Второе Всесоюзное совещание по химии твердого тела, 11-13 мая 1978 г. : Тезисы докладов. Ч. 1 1978 / с. 86-87

Растворимость хлора в CdS и структура точечных дефектов CdS:Cl

Altosaar, Mare; Kukk, Peeter-Enn; Hiie, Jaan Журнал неорганической химии 1983 / с. 69-75 : ил
https://www.ester.ee/record=b1443384*est

Рентгеноприемники на основе AlIBVI с использованием переизлучающих люминофоров

Altosaar, Mare; Varema, Tiit; Valdna, Vello; Mellikov, Enn Электронные материалы 1989 / с. 51-57

Рост крупнозернистого сульфида кадмия в присутствии повышенных концентраций плавня хлористого кадмия

Altosaar, Mare; Hiie, Jaan Полупроводниковые материалы. 3 1976 / с. 71-79 : илл https://www.ester.ee/record=b1403374*est
<https://digikogu.taltech.ee/et/Item/5f8fd05c-ff69-4315-9d64-1d9c9611667b>

Узкодисперсные порошки CdS и CdSe заданными гранулометрическими, морфологическими и электро-физическими свойствами

Mellikov, Enn; Hiie, Jaan; Altosaar, Mare; Varvas, Jüri Получение и свойства полупроводниковых соединений типа A II B VI и A IV B VI и твердых растворов на их основе : Тезисы докладов первой всесоюзной научно-технической конференции, МИСиС 1-4 февр. 1977 / с. 42-43

Физико-химические основы легирования CdS хлоридом кадмия

Hiie, Jaan; Altosaar, Mare; Mellikov, Enn; Kerm, Karin Легирование полупроводников : [сборник статей] 1982 / с. 59-62 : ил
https://www.ester.ee/record=b1680571*est

Физико-химические основы легирования CdS хлоридом кадмия

Hiie, Jaan; Altosaar, Mare; Mellikov, Enn Четвертая Всесоюзная конференция по физико-химическим основам легирования полупроводниковых материалов, Москва, 16-18 окт. 1979 г. : Тезисы докладов 1979 / с. 58

Формирование дефектной структуры в монозернистых порошках сульфида и селенида кадмия : автореферат ... кандидата химических наук (02.00.04)

Altosaar, Mare 1983 https://www.ester.ee/record=b1514334*est

Фотолюминесценция сульфида кадмия, легированного серебром и хлором

Krustok, Jüri; Mädasson, Jaan; Altosaar, Mare; Kukk, Peeter-Enn V всесоюзное совещание "Синтез, свойства, исследования, технология и применение люминофоров", Ставрополь, 16-18 окт. 1985 г. : тезисы докладов. Ч. 1. 1985 / с. 20-21

Центры рекомбинации в легированном серебром и хлором сульфиде кадмия

Krustok, Jüri; Mädasson, Jaan; Altosaar, Mare; Tomson, A.; Kukk, Peeter-Enn Электрофизические свойства полупроводниковых и диэлектрических материалов 1988 / с. 29-36

Центры рекомбинации в сильно легированном медью и хлором сульфиде кадмия

Kukk, Peeter-Enn; Erm, Ants; Altosaar, Mare; Mellikov, Enn Український фізичний журнал : науковий журнал = Украинский физический журнал = Ukrainian Journal of Physics 1981 / с. 990-994 : илл https://www.ester.ee/record=b1361425*est

Центры свечения в халькогенидах цинка и кадмия

Kukk, Peeter-Enn; Krustok, Jüri; Mädasson, Jaan; Tomson, A.; Altosaar, Mare; Erm, Ants Всесоюзное совещание "Синтез, свойства, исследования, технология и применение люминофоров" (Ставрополь, 16-18 окт. 1985 г.) : тезисы докладов 1985 / с. 27-28