

Characterization of sprayed CuInS₂ films annealed in hydrogen sulfide atmosphere

Krunk, Malle; Mere, Arvo; Katerski, Atanas; Mikli, Valdek; Krustok, Jüri Thin solid films 2006 / p. 434-438 : ill

Characterization of sprayed large grain CuInS₂ as absorbers for solar cells

Krunk, Malle; Mere, Arvo; Kijatkina, Olga; Rebane, Helen; Mikli, Valdek 20-th NSM : Tampere, 2003 2003

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

Composition and structure of CuInS₂ films prepared by spray pyrolysis

Krunk, Malle; Mikli, Valdek; Bijakina, Olga; Rebane, Helen; Mere, Arvo; Varema, Tiit; Mellikov, Enn Thin solid films 2000 / p. 61-64 : ill

Composition and structure of CuInS₂ films prepared by spray pyrolysis

Krunk, Malle; Mikli, Valdek; Bijakina, Olga; Rebane, Helen; Mere, Arvo; Varema, Tiit; Mellikov, Enn EMRS Spring Meeting : Strasbourg, June 1-4, 1999 : book of abstracts 1999 / p. O-13 <https://www.sciencedirect.com/science/article/abs/pii/S0040609099008354>

Composition of CuInS₂ thin films prepared by spray pyrolysis

Krunk, Malle; Kijatkina, Olga; Rebane, Helen; Oja, Ilona; Mikli, Valdek; Mere, Arvo Thin solid films 2002 / p. 71-75 : ill

Composition of CuInS₂ thin films prepared by spray pyrolysis

Krunk, Malle; Kijatkina, Olga; Rebane, Helen; Oja, Ilona; Mikli, Valdek; Mere, Arvo E-MRS 2001 Spring Meeting : book of abstracts 2001 / p. P-4

Constant phase element response of impedance spectra of high vacuum evaporated CuIn₃Se₅ photoabsorber layers [Electronic resource]

Laes, Kristjan; Bereznev, Sergei; Land, Raul; Öpik, Andres International Materials Research Congress IMRC XIX, Cancun, Mexico – August 2010, Symposium 15 – Photovoltaics, Solar energy materials and technologies : abstracts 2010 / p. 21 [CD-ROM]

Cost-effective sprayed CuInS₂ films for solar cells

Krunk, Malle; Kijatkina, Olga; Blums, J.; Oja, Ilona; Mere, Arvo; Mellikov, Enn Seventeenth European Photovoltaic Solar Energy Conference : proceedings of the International Conference held in Munich, Germany, 22-26 October, 2001. Volume II 2002 / p. 1211-1214 : ill

Crystal quality studies of CuInS₂ films prepared by spray pyrolysis

Oja, Ilona; Nanu, M.; Katerski, Atanas; Krunk, Malle; Mere, Arvo; Raudoja, Jaan; Goossens, A. Thin solid films 2005 / p. 82-86 : ill

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

CuInS₂ kilede koostise uurimine XPS meetodil

Katerski, Atanas; Danilson, Mati; Mere, Arvo; Krunk, Malle XXXI Eesti keemiapäevad : [28. aprill 2010, Tallinn] : teaduskonverentsi teesid = 31st Estonian Chemistry Days : abstracts of scientific conference 2010 / lk. 41

CuInS₂ sprayed films on different metal oxide underlayers

Kijatkina, Olga; Krunk, Malle; Mere, Arvo; Mahrov, B.; Dloczik, L. EMRS 2002, B/PI 2002 / p. 11

CuInS₂ sprayed films on different metal oxide underlayers

Kijatkina, Olga; Krunk, Malle; Mere, Arvo; Mahrov, B.; Dloczik, L. Thin solid films 2003 / p. 105-109 : ill

CuInS₂ thin films: formation by spray pyrolysis and properties

Krunk, Malle; Bijakina, Olga; Mikli, Valdek; Mellikov, Enn The Fourth Baltic Symposium on Atomic Layer Epitaxy, Tartu, Estonia, October 10-11, 1997 : abstracts 1997 / p. 30

CuInS₂ õhukesed kiled fotoelementidele pihustus-pürolüüsi meetodil

Krunk, Malle; Bijakina, Olga; Varema, Tiit; Mere, Arvo; Mikli, Valdek XXV Eesti keemiapäevad : teaduskonverentsi ettekannete referaadid = 25th Estonian Chemistry Days : abstracts of scientific conference 1999 / lk. 60-61

CuInS₂/PEDOT photovoltaic structure

Bereznev, Sergei; Konovalov, Igor; Kois, Julia; Mellikov, Enn; Öpik, Andres Organic and Polymeric Materials and Devices : symposium held April 22-25, 2003, San Francisco, California, USA 2003 / p. 243-248 : ill <https://link.springer.com/article/10.1557/PROC->

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

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 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 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

CuInSe₂ thin films deposited by UV laser ablation

Tverjanovich, Andrey; Borisov, Evgeny N.; Vasilieva, E.S.; Tolochko, O.V.; Vahhi, I.E.; **Bereznev, Sergei**; Tveryanovich, Yuri S. Solar energy materials & solar cells 2006 / p. 3624-3632 : ill

CuInSe₂/polyaniline photovoltaic structure

Bereznev, Sergei; Kois, Julia; Mellikov, Enn; Öpik, Andres Proceedings of Baltic Polymer Symposium 2001 : Oct. 11-12 in Tallinn 2001 / p. 148-154 : ill

CuInSe₂/polypyrrole photovoltaic structure prepared by electrodeposition

Bereznev, Sergei; Kois, Julia; Mellikov, Enn; Öpik, Andres; Meissner, Dieter Seventeenth European Photovoltaic Solar Energy Conference : proceedings of the International Conference held in Munich, Germany, 22-26 October, 2001. Volume I 2002 / p. 160-163 : ill

CuInSe₂/polypyrrole (polyaniline) photovoltaic structures

Bereznev, Sergei; Kois, Julia; Mellikov, Enn; Öpik, Andres; Meissner, Dieter Proceedings of the 14th Workshop on Quantum Solar Energy Conversion : QUANTSOL 2002, March 17-23, 2002, Rauris, Österreich 2002 / [2] p. : ill

Development of sprayed CuInS₂ thin film absorber for nanostructured solar cell

Katerski, Atanas; Kärber, Erki; Krunks, Malle; Mikli, Valdek; Mere, Arvo Materials Research Society symposium proceedings 2012 https://www.researchgate.net/publication/271903084_Development_of_sprayed_CuInS2_thin_film_absorber_for_nanostructured_solar_cell

Device characteristics of CuInSe₂ based solar cells

Krustok, Jüri; Danilson, Mati; Jagomägi, Andri; Grossberg, Maarja; Raudoja, Jaan Proceedings of SPIE 2005 / Optical materials and applications, p. 236-242

Device characteristics of CuInSe₂ based solar cells

Krustok, Jüri; Danilson, Mati; Jagomägi, Andri; Grossberg, Maarja; Raudoja, Jaan The Fourth International Conference on Advanced Optical Materials and Devices : (AOMD-4) : Tartu, Estonia, July 6-9, 2004 : abstracts 2004 / p. 45

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 composite layers based on dyes with different type of conductivity on photovoltaic properties of CIS films

Verbitsky, Anatoly; Vertsimakha, Yaroslav; Studzinsky, Sergei; **Bereznev, Sergei; Kois, Julia** Molecular crystals and liquid crystals 2007 / p. 123-133 <https://www.tandfonline.com/doi/full/10.1080/15421400701221245>

Effect of H₂S treatment on properties of CuInS₂ thin films deposited by chemical spray pyrolysis at low temperature

Kärber, Erki; Katerski, Atanas; Oja Acik, Ilona; Mikli, Valdek; Mere, Arvo; Krunks, Malle Thin solid films 2011 / p. 7180-7183 : ill

Effect of polymer layer deposition and annealing on photovoltaic properties of CuInS₂/polymer structures

Verbitsky, Anatoly; Vertsimakha, Yaroslav; Studzinsky, Sergei; **Bereznev, Sergei; Golovtsov, Igor; Kois, Julia; Öpik, Andres**; Lytyn, Oksana Proceedings of the Estonian Academy of Sciences 2009 / 1, p. 18-23 : ill

Effect of the growth temperature on chemical composition of spray-deposited CuInS₂ thin films

Katerski, Atanas; Danilson, Mati; Mere, Arvo; Krunk, Malle Energy procedia 2010 / p. 103-107 : ill

Electrical properties of sprayed CuInS₂ films for solar cells

Mere, Arvo; Kijatkina, Olga; Rebane, Helen; Krunk, Jüri; Krunk, Malle Journal of physics and chemistry of solids 2003 / Issues 9/10, p. 2025-2029 : ill

Electrical, optical and structural properties of sprayed CuInS₂ films for solar cells

Mere, Arvo; Kijatkina, Olga; Rebane, Helen; Krunk, Malle ICTMC13 : 13th International Conference on Ternary and Multinary Compounds, Paris, 2002, October 14th-18th : book of abstracts 2002 / p. 212

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 CuInSe₂

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

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

Kois, Julia 2006

Electrochemical etching of copper indium diselenide surface

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

Electrodeposited (Cu-In-Se)/polypyrrole PV structures

Bereznev, Sergei; Kois, Julia; Golovtsov, Igor; Öpik, Andres; Mellikov, Enn Thin solid films 2006 / p. 425-429 : ill

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>

Electrodeposition of CuInSe₂ thin films onto Mo-glass substrates

Kois, Julia; Bereznev, Sergei; Mellikov, Enn; Öpik, Andres Thin solid films 2006 / p. 420-424 : ill

Energy of excitons in CuInS₂ single crystals

Yakushev, M.V.; Mudryi, A.V.; Victorov, I.V.; Krunk, Jüri; Mellikov, Enn Applied physics letters 2006 / 1, [3] p

Erratum: Origin of the deep center photoluminescence in CuGaSe₂ and CuInS₂ crystals (J.Appl. Phys. 86, 364(1999))

Krunk, Jüri; Schön, J.H.; Collan, Heikki; Yakushev, M.; Mäddasson, Jaan; Bucher, E. Journal of applied physics 2001 / 12, p. 8357-8358

Flexible Cu(In,Ga)Se₂ on Al foils and the effects of Al during chemical bath deposition

Bremaud, D.; Rudmann, D.; Kaelin, M.; Ernits, Kaia; Bilger, G.; Döbeli, M.; Zogg, H.; Tiwari, A.N. Thin solid films 2007 / 15, p. 5857-5861 <https://www.sciencedirect.com/science/article/pii/S0040609006016087>

Formation and recrystallization of CuInS₂ films in spray pyrolytic process

Krunk, Malle; Bijakina, Olga; Mikli, Valdek; Varema, Tiit 24th Estonian Chemistry Days : abstracts of scientific conference 1998 / p. 33

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 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 CuInS₂ in spray pyrolysis as simulated by thermal analysis

Krunk, Malle; Leskelä, Tuula; Niinistö, Lauri Japanese journal of applied physics 2000 / p. 181-186

Formation of CuInS₂ thin films by chemical spray pyrolysis

Krunk, Malle; Bijakina, Olga; Mellikov, Enn; Varema, Tiit Ternary and Multinary Compounds : proceedings of the 11th International Conference on Ternary and Multinary Compounds, ICTMC-11, University of Salford, 8-12 September 1997 1998 / p. 325-328: ill

Formation of CuInS₂ thin films by chemical spray pyrolysis

Krunk, Malle; Bijakina, Olga; Mellikov, Enn; Varema, Tiit Book of Abstracts of the 11th International Conference on Ternary & Multinary Compounds, 8-12 September 1997, Salford, England 1997 / p. 2.28

Glass/ITO/In(O,S)/CuIn(S,Se)₂ solar cell with conductive polymer window

Kois, Julia; Bereznev, Sergei; Raudoja, Jaan; Mellikov, Enn; Öpik, Andres The Fourth International Conference on Advanced Optical Materials and Devices : (AOMD-4) : Tartu, Estonia, July 6-9, 2004 : abstracts 2004 / p. 44

<https://www.sciencedirect.com/science/article/abs/pii/S0927024804003836>

Glass/ITO/In(O,S)/CuIn(S,Se)₂ solar cell with conductive polymer window layer

Kois, Julia; Bereznev, Sergei; Raudoja, Jaan; Mellikov, Enn; Öpik, Andres Solar energy materials and solar cells 2005 / p. 657-665 : ill <https://www.sciencedirect.com/science/article/abs/pii/S0927024804003836>

Growth and recrystallization of CuInS₂ films in spray pyrolytic process

Krunk, Malle; Mikli, Valdek; Bijakina, Olga; Mellikov, Enn Applied surface science 1999 / p. 356-361: ill

Growth and recrystallization of CuInS₂ films in spray pyrolytic process

Krunk, Malle; Mikli, Valdek; Bijakina, Olga; Varema, Tiit; Mellikov, Enn Ninth International Conference on Solid Films and Surfaces : ICSFS-9 : July 6th - 10th, 1998, Copenhagen, Denmark : final program & the book of abstracts 1998 / p. P1.CG.13

<https://ui.adsabs.harvard.edu/abs/1999ApSS..142..356K/abstract>

Growth of Cu-rich/poor CuInS₂ thin films by the sequential modulated flux deposition technique

Bollero, Alberto; **Grossberg, Maarja; Raadik, Taavi;** Trigo, Juan Francisco; Herrero, Jose; Gutierrez, Ma Teresa Thin-film compound semiconductor photovoltaics - 2009 2009 / p. M02-06

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

High-temperature self disorder in CuInSe₂

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

High-temperature selfdisorders in CuInSe₂

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

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

Hübriidsetes 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 CuInS₂ and organic buffer-sensitizer layers

Bereznev, Sergei; Koeppe, R.; Konovalov, Igor; Kois, Julia; Günes, S.; Öpik, Andres; Mellikov, Enn; Sarıci, N.S. Thin solid films 2006 / 15, p. 5759-5762 : ill

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

Inx(OH)ySz as recombination barrier in TiO2/inorganic absorber heterojunctions

Wienke, J.; **Krunk, Malle**; Lenzmann, F. Semiconductor science and technology 2003 / p. 876-880 : ill <https://iopscience.iop.org/article/10.1088/0268-1242/18/9/311>

Materials and technologies for photovoltaic applications from Estonia

Mellikov, Enn; Altosaar, Mare; Bereznev, Sergei; Kauk, Marit; Kois, Julia; Krustok, Jüri; Krunk, 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

Microwave assisted synthesis of CuInSe2 nanopowder

Gertsin, A.; Muradova, Galina; Shoka, A.; Kim, Dongsoo; **Bereznev, Sergei**; Tverjanovich, Andrey; **Kois, Julia; Öpik, Andres**; Tveryanovich, Yuri S. Hybrid and Organic Photovoltaic Conference (HOPV09) : 10-13 May 2009, Benidorm, Spain : book of abstracts 2009 / p. 79

Morphology and composition of electrochemically deposited CuInSe2 layers

Kaupmees, Liina Conference on Knowledge-based Materials and Technologies for Sustainable Chemistry : 1-5 June 2005, Tallinn, Estonia : abstract book 2005 / p. 91

Nanostructured solar cell by spray pyrolysis : effect of titania barrier layer on the cell performance

Oja Acik, Ilona; Katerski, Atanas; Mere, Arvo; Aarik, Jaan; Aidla, Aleks; **Dedova, Tatjana; Krunk, Malle** Thin solid films 2009 / p. 2443-2447 : ill <https://doi.org/10.1016/j.tsf.2008.11.018>

One-step electrochemical deposition of CuInSe2 absorber layers

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

Optical properties of high quality Cu2ZnSnSe4 thin films

Luckert, F.; Hamilton, D. I.; Yakushev, M. V.; Beattie, N. S.; Zoppi, G.; Moynihan, M.; Forbes, I.; Karotki, A. V.; Mudryi, A. V.; **Grossberg, Maarja; Krustok, Jüri**; Martin, R. W. Applied physics letters 2011 / p. 062104 [3 p.] : 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

Photoluminescence and tetragonal distortion in CuInSe2

Krustok, Jüri; Raudoja, Jaan; Collan, Heikki Abstracts E-MRS-IUMRS 2000 / p. N-22

Photoluminescence and tetragonal distortion in CuInSe2

Yakushev, M. A.; Martin, R. W.; **Krustok, Jüri** Abstracts E-MRS-IUMRS 2000 / p. N-23

Photoluminescence of Sc-annealed CuInSe2 powders

Krustok, Jüri; Mäddasson, Jaan; Hjelt, Kari Journal of physics and chemistry of solids 1993

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

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; Öpik, Andres; Mellikov, Enn**; Tveryanovich, Yuri S. Proceedings of the Estonian Academy of Sciences 2009 / 1, p. 24-28 : ill

Polypyrrole electrodeposition on inorganic semiconductors CuInSe2 and CuInS2 for photovoltaic applications

Bereznev, Sergei; Konovalov, Igor; **Kois, Julia; Mellikov, Enn; Öpik, Andres** 21st Discussion Conference of P.M.M./9th International Conference ERPOS : Electrical and Related Properties of Polymers and Other Organic Solids : Prague, 14-18 July 2002 : programme booklet. Volume K 76 2002 / p. 96

Polypyrrole electrodeposition on inorganic semiconductors CuInSe2 and CuInS2 for photovoltaic applications

Bereznev, Sergei; Konovalov, Igor; **Kois, Julia; Mellikov, Enn; Öpik, Andres** 21st Discussion Conference of P.M.M./9th International Conference ERPOS : Electrical and Related Properties of Polymers and Other Organic Solids : Prague, 14-18 July 2002 2002 / [6] p. : ill

Polypyrrole electrodeposition on inorganic semiconductors CuInSe2 and CuInS2 for photovoltaic applications

Bereznev, Sergei; Konovalov, Igor; **Kois, Julia; Mellikov, Enn; Öpik, Andres** Electronic Phenomena in Organic Solids : Prague, Czech Republic, July 14-18, 2002 2004 / p. 287-292 : ill

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 impedance spectroscopy of hybrid structures based on CuIn_{1-x}Se_{1-x} photoabsorber = Hübriidsete CuIn_{1-x}Se_{1-x} fotoabsorberstruktuuride valmistamine ja impedantsispektroskoopia
Laes, Kristjan 2010 https://www.ester.ee/record=b2580322*est

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>

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

Properties of ZnO-nanorod/In₂Se₃/CuInSe₂ solar cell and the constituent layers deposited by chemical spray method = Keemilise pihustuse meetodil sadestatud ZnO-nanovarras/In₂Se₃/CuInSe₂ päikesepatarei ja selle koostisosade omadused
Kärber, Erki 2014 https://www.ester.ee/record=b3073760*est

PVD of highly photosensitive n-CuIn₅Se₈ films for hybrid PV structures
Adhikari, Nirmal; **Bereznev, Sergei**; **Volobujeva, Olga**; **Raadik, Taavi**; **Traksmäe, Rainer**; **Õpik, 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**; **Traksmäe, Rainer**; Tverjanovich, Andrey; **Õpik, 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**; **Traksmäe, Rainer**; Dahal, R.K.; Tverjanovich, Andrey; **Õpik, Andres** Baltic Polymer Symposium 2012 : Liepaja, Latvia, September 19-22 : programme and proceedings 2012 / p. 29

Selection of processing conditions for solution growth of CdTe and CuInSe₂ monograin powders on the base of phase diagrams
Altosaar, Mare; **Hiie, Jaan**; **Melikov, Enn** 24th Estonian Chemistry Days : abstracts of scientific conference 1998 / p. 11

SEM analysis and selenization of Cu-In alloy films produced by co-sputtering of metals
Volobujeva, Olga; **Altosaar, Mare**; **Raudoja, Jaan**; **Melikov, 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>

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**; **Õpik, Andres** Thin solid films 2009 / p. 2286-2290 : ill

Solubility of CuInSe₂ 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 CuInS₂ thin films for solar cells : the effect of solution composition and post-deposition treatments
Krunks, Malle; **Bijakina, Olga**; **Mikli, Valdek**; **Rebane, Helen**; **Varema, Tiit**; **Altosaar, Mare**; **Melikov, Enn** Solar cells and solar cell materials 2001 / 1, p. 93-98

Structural and optical properties of sprayed CuInS₂ films
Krunks, Malle; **Bijakina, Olga**; **Varema, Tiit**; **Mikli, Valdek**; **Melikov, Enn** Thin solid films 1999 / p. 125-130: ill

Study of composition reproducibility of electrochemically co-deposited CuInSe₂ films onto ITO
Kaupmees, Liina; **Altosaar, Mare**; **Volobujeva, Olga**; **Melikov, Enn** Thin solid films 2007 / 15, p. 5891-5894
<https://www.sciencedirect.com/science/article/pii/S0040609006016427>

Study of spray-deposited CuInS₂ in ETA solar cells
Lenzmann, F.; Dlodczik, L.; Grasso, C.; **Kijatkina, Olga**; Mahrov, B.; Rühle, S. EMRS 2002, France. B/PIII 2002 / p. 35

Synthesis of CuInSe₂ nanopowder in polyethylene glycol

Tverjanovich, Andrey; **Bereznev, Sergei**; Gertsin, A.; Muradova, Galina; Shoka, A.; Kim, Dongsoo; **Kois, Julia**; **Õpik, Andres**; Tveryanovich, Yuri S. Baltic Polymer Symposium 2009 : Ventspils, Latvia, September 22-25, 2009 : programme and proceedings 2009 / p. 102

Synthesis of CuInSe₂ nanopowder in polyethylene glycol

Tverjanovich, Andrey; **Bereznev, Sergei**; Gertsin, Andrejs; Muradova, Galina; Shoka, Andrejs; Kim, Dongsoo; **Kois, Julia**; **Õpik, Andres**; Tveryanovich, Yuri S. Scientific journal of Riga Technical University. Series 1, Material science and applied chemistry 2010 / p. 79-83 : ill <https://ortus.rtu.lv/science/en/publications/8070>

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 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

Temperature-resolved photoluminescence studies of CuInSe₂

Krustok, Jüri; **Mädasson, Jaan**; Hjelt, Kari; Collan, Heikki Solid state communications 1995 / 10, p. 889-892

Terahertz radiation from nonstoichiometric CuInSe₂ films excited by femtosecond laser pulses

Adomavicius, Ramunas; Krotkus, Arunas; **Kois, Julia**; **Bereznev, Sergei**; **Mellikov, Enn** Applied physics letters 2005 / 19, [3] p <https://doi.org/10.1063/1.2126796>

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

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

The impedance spectroscopy of well-oriented CuIn₃Se₅ films prepared by high vacuum evaporation technique

Laes, Kristjan; **Bereznev, Sergei**; Tverjanovich, Andrey; **Õpik, Andres** EMRS-2009 Spring Meeting, Strasbourg, France, 8-12 of June 2009, Symposium B 2009 / p. 46

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** Physica status solidi (c) 2008 / 2, p. 609-611 : ill <https://onlinelibrary.wiley.com/doi/abs/10.1002/pssc.200776831>

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

Thermoanalytical study of a precursor for CuInS₂ thin films deposited by chemical spray pyrolysis

Oja Acik, Ilona; **Otto, Kairi**; **Tõnsuaadu, Kaia**; **Katerski, Atanas**; Niinistö, L.; **Krunks, Malle** ESTAC10 : 10th European Symposium on Thermal Analysis and Calorimetry : August 22-27, 2010, Rotterdam, The Netherland : abstract book 2010 / p. 175

A thermoanalytical study of CuInS₂ formation in spray pyrolysis process

Krunks, Malle; Leskelä, Tuula; Niinistö, Lauri Twelfth International Conference on Ternary and Multinary Compounds : March 13-17, 2000 : National Tsing Hua University, Hsinchu, Taiwan : abstract[s] 2000 / p. Th-A1-1

Õhukeste CuInSe₂ kilede saamine elektrokeemiliselt sadestatud elementidest

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

Дефектная структура монокристаллов селенида кадмия, легированных медью и индием

Õpik, Andres; **Varvas, Jüri**; **Türn, Leo**; Martinaitis, A. Четвертая Всесоюзная конференция по физико-химическим основам легирования полупроводниковых материалов, Москва, 16-18 окт. 1979 г. : Тезисы докладов 1979 / с. 176

Свойства поверхности CuInS₂ и влияние на них органических слоев

Verbitsky, Anatoly; Vertsimakha, Yaroslav; Lutsyk, P.N.; Studzinsky, Sergei; **Bereznev, Sergei**; **Kois, Julia** Физика и техника полупроводников 2006 / 2, с. 202-206 : ил