

CdTe monograin powders technology

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

CdTe: CdCl₂: O₂ annealing process

Hiie, Jaan Thin solid films 2003 / p. 90-93 : ill <https://www.sciencedirect.com/science/article/pii/S0040609003002050>

Chemistry of CdCl₂: O₂ flux for CdTe solar cell technology

Hiie, Jaan; Valdna, Vello; Kois, Julia; Danilson, Mati; Mikli, Valdek Proceedings of the 19th EPVSECE conference 2004 / p. 927

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

Complex defects in Cl doped ZnTe and CdTe

Valdna, Vello Materials Research Society symposia proceedings series 1997 / p. 585-591: ill

Conductive polymer back contact in CdTe based solar cell

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

Conductive polymer PEDOT:PSS back contact for CdTe solar cell

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

Conductivity conversion in CdTe layers

Valdna, Vello; Buschmann, Felix; Mellikov, Enn Journal of crystal growth 1996 / p. 164-167: ill

Conductivity of evaporated CdTe films

Nirk, Tiit Tallinna Tehnikaülikooli Toimetised 1994 / lk. 13-19: ill

Configuration-coordinate model and the defect states of semiconductors, CdTe in particular

Hjelt, Kari; Collan, Heikki; Krustok, Jüri; Mädasson, Jaan Annual report 1994 / Optoelectronics Laboratory, Helsinki University of Technology 1995 / p. 50-51

Deep center luminescence in p-type CdTe

Krustok, Jüri; Valdna, Vello; Hjelt, Kari; Collan, Heikki Journal of applied physics 1996 / 3, p. 1757-1762: ill

Deep-level photoluminescence of doped CdTe in 0,8 eV region

Krustok, Jüri; Lõo, A.; Piibe, Toomas Journal of physics and chemistry of solids 1991 / 8, p. 1037-1038

Defect structure of silver-doped cadmium telluride

Nirk, Tiit Tallinna Tehnikaülikooli Toimetised 1994 / lk. 3-12: ill

Defects in chlorine doped CdTe thin films

Valdna, Vello; Hiie, Jaan; Gavrilov, Aleksei Abstracts POLYSE 2000 / p. 36

Defects in chlorine-doped CdTe thin films

Valdna, Vello; Hiie, Jaan; Gavrilov, Aleksei Solid state phenomena 2001 / p. 155-160 : ill

Development organic back contact for thin-film CdS/CdTe solar cell

Khrypunov, G.; Bereznev, Sergei; Meriuts, A.; Kopach, G.; Kovtun, N.; Deyneko, N. Physics and chemistry of solid state 2010 / 1, p. 248-251 : ill

Does the low-temperature Arrhenius plot of the photoluminescence intensity in CdTe point towards an erroneous activation energy?

Krustok, Jüri; Collan, Heikki; Hjelt, Kari Journal of applied physics 1997 / 3, p. 1442-1445: ill

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

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

Effect of the vacuum annealing on p-type CdTe

Valdna, Vello Physica scripta 1997 / p. 315-318: ill

Efficiency limits of CdTe thin film solar cells

Valdna, Vello; Hiie, Jaan Seventeenth European Photovoltaic Solar Energy Conference : proceedings of the International Conference held in Munich, Germany, 22-26 October, 2001. Volume II 2002 / p. 1233-1235 : ill

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

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

Formation of photosensitivity in CdSexTe1-x monograin powders

Altosaar, Mare; Krustok, Jüri; Mädasson, Jaan; Mellikov, Enn; Kuk, 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 structure of the CdTe film, recrystallized on Mo/glass substrate under high temperature and mechanical pressure

Mikli, Valdek; Hiie, Jaan; Valdna, Vello; Viljus, Mart; Traksmäa, Rainer; Kallavus, Urve Thin solid films 2009 / 7, p. 2252-2255 : ill

Growth of CdTe monograin powders

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

High temperature electrical conductivity in ZnS:Cu ceramics and in CdSe-CdTe polycrystalline solid solutions

Lott, Kalju; Nirk, Tiit; Gorokhova, Elena; Ryzhikov, Engels Polyse'98 : Polycrystalline Semiconductors, September 13-18, 1998, Stadtgarten, Schwäbisch Gmünd, Germany : final program and abstracts 1998 / p. P31

High temperature properties of CdTe crystals, doped by Sb

Fochuk, P.; Grill, R.; Nykonyuk, Y.; **Krustok, Jüri;** Armani, N.; Zakharuk, Z.; **Grossberg, Maarja;** Panchuk, O. IEEE transactions on nuclear science 2007 / 4, p. 763-768

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

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

Implications of the negative capacitance observed at forward bias in nanocomposite and polycrystalline solar cells

Mora-Sero, Ivan; Bisquert, Juan; **Oja Acik, Ilona** Nano letters 2006 / 4, p. 640-650 <https://pubs.acs.org/doi/10.1021/nl052295q>

Influence of copper and oxygen on the optoelectronic properties of chlorine doped CdTe thin films

Valdna, Vello Thin solid films 2001 / p. 192-194 : ill

Influence of the secondary thermal annealing on the properties of CdTe/CdS:CdCl₂:O₂ structure

Yang, Wangjun; Spalatu, Nicolae; Maticiuc, Natalia; Krunks, Malle; Hiie, Jaan Proceedings of 13th International Conference of Young Scientists on Energy Issues : CYSENI 2016 : May 26-27 2016, Kaunas, Lithuania 2016 / p. VII-220 - VII-225 : ill

1.4 eV photoluminescence in chlorine-doped polycrystalline CdTe

Hjelt, Kari; Collan, Heikki; **Krustok, Jüri; Mädasson, Jaan** Annual report 1994 / Optoelectronics Laboratory, Helsinki University of Technology 1995 / p. 47-48

1.4 eV photoluminescence in chlorine-doped polycrystalline CdTe with a high density of defects

Krustok, Jüri; Mädasson, Jaan; Collan, Heikki; Hjelt, Kari Journal of materials science 1997 / p. 1545-1550: ill
<https://link.springer.com/article/10.1023/A:1018526622440>

Optoelectronic properties of chlorine and oxygen doped CdTe thin films

Valdna, Vello Solar energy materials and solar cells 2005 / p. 369-373 : ill

Oxygen codopant in Cl doped CdTe thin films

Valdna, Vello E-MRS Spring Meeting 2002 : June 18-21, 2002. Symposium B, Thin Film Chalcogenide Photovoltaic Materials 2002 / p. B-26

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

Photoluminescence from deep acceptor - deep donor complexes in CdTe

Krustok, Jüri; Collan, Heikki; Hjelt, Kari; **Mädasson, Jaan**; **Valdna, Vello** ICL'96, Prague : International Conference on Luminescence and Optical Spectroscopy of Condensed Matter, Prague, Czech Republic, 18-23 August 1996 1996 / p. 1-17

Photoluminescence from deep acceptor - deep donor complexes in CdTe

Krustok, Jüri; Collan, Heikki; Hjelt, Kari; **Mädasson, Jaan**; **Valdna, Vello** Journal of luminescence 1997 / p. 103-105: ill

Photoluminescence properties of Z-bands in CdTe

Krustok, Jüri; **Mädasson, Jaan**; **Hiie, Jaan** Physica status solidi (a) 1998 / p. 517-525: ill

Photoluminescence study of the 1.1 eV deep emission band in p-type CdTe

Hjelt, Kari; Collan, Heikki; **Krustok, Jüri**; **Valdna, Vello** Proceedings of the XXX Annual Conference of the Finnish Physical Society : March 21-23, 1996, Espoo, Finland 1996 / 8.29

Preparation and properties of CdTe films on Mo/glass substrates

Valdna, Vello; **Grossberg, Maarja**; **Hiie, Jaan**; **Kallavus, Urve**; **Mikli, Valdek**; **Traksmäa, Rainer**; **Viljus, Mart** Thin-film compound semiconductor photovoltaics - 2009 2009 / p. M08-24
https://www.researchgate.net/publication/231763435_Preparation_and_Properties_of_CdTe_Films_on_MoGlass_Substrates

Properties of the CdCl₂ air-annealed CSS CdTe thin films

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

Properties of the CdCl₂ air-annealed CSS CdTe thin films

Spalatu, Nicolae; **Hiie, Jaan**; **Valdna, Vello**; **Maticiu, Natalia**; **Krunks, Malle**; **Mikli, Valdek** TÜ ja TTÜ doktorikool "Funktsionaalsed materjalid ja tehnoloogiad" : 04.-05. märts 2014, Tartu 2014 / [1] p

Recrystallization of CdTe film under conditions of high temperature and mechanical pressure

Mikli, Valdek; **Hiie, Jaan**; **Viljus, Mart**; **Nisumäa, Reet**; **Traksmäa, Rainer**; **Kallavus, Urve** Thin solid films 2008 / 20, p. 7041-7045 : ill

Recrystallization of CdTe under conditions of high temperature and pressure

Mikli, Valdek; **Hiie, Jaan** Nanostructured and advanced materials 2005 / p. 351-354

Selection of processing conditions for solution growth of CdTe and CuInSe₂ 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

Structural and optoelectronic properties of CdCl₂ activated CdTe thin films modified by multiple thermal annealing

Spalatu, Nicolae; **Krunks, Malle**; **Hiie, Jaan** Thin solid films 2017 / p. 106-111 : ill <http://dx.doi.org/10.1016/j.tsf.2016.09.042>

Study of the edge and exciton emission in CdTe:Cu:Cl powder samples

Krustok, Jüri; **Mädasson, Jaan**; Hjelt, Kari; Collan, Heikki Journal of materials science letters 1995 / p. 1490-1492: ill

Study of the edge and exciton emission in the CdTe:Cu:Cl powder samples

Hjelt, Kari; Collan, Heikki; **Krustok, Jüri**; **Mädasson, Jaan** Annual report 1994 / Optoelectronics Laboratory, Helsinki University of Technology 1995 / p. 49

Synthesis and optical properties of Ga₂O₃ nanowires grown on GaS substrate

Leontie, Liviu; Sprincean, Veaceslav; Untila, Dumitru; **Spalatu, Nicolae** Thin solid films 2019 / art. 137502, 6 p. : ill
<https://doi.org/10.1016/j.tsf.2019.137502> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Technology of CdTe monograin powders

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

Temperature dependent electroreflectance study of CdTe solar cells

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

The impedance spectroscopy of hybrid CdTe / PEDOT-PSS interface

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

Thermal analysis of CdTe : CdCl₂ : O₂ annealing process

Hiie, Jaan; Valdna, Vello Seventeenth European Photovoltaic Solar Energy Conference : proceedings of the International Conference held in Munich, Germany, 22-26 October, 2001. Volume II 2002 / p. 1240-1242 : ill

Модель точечных дефектов кристаллической решетки теллурида кадмия

Nirk, Tiit; Nei, Toomas Математическое моделирование физических процессов в полупроводниках и полупроводниковых приборах : Тезисы докладов III всесоюзного совещания (Паланга, 5-9 сент. 1989 г.). 1989 / с. 75-76

Особенности температурного поведения полосы 0,81 эВ фотолюминесценции теллурида кадмия

Krustok, Jüri; Piibe, Toomas; Лыо А.Э. Физика и техника полупроводников 1991 / 7, с. 1257-1259: ил

Фотоэлектрические свойства твердых растворов селенотеллуридов кадмия

Valdna, Vello; Voronin, A.I.; **Mere, Arvo** Tallinna Tehnikaülikooli Toimetised 1990 / lk. 30-39: ill