Annealing effect on CdS films : transition from glass to ITO
Maticiuc, Natalia; **Hiie, Jaan** IOP conference series : materials science and engineering 2013 / p. 1-4 : ill https://doi.org/10.1088/1757-899X/49/1/012061 Conference Proceedings at Scopus Article at Scopus Article at WOS

Combinative solution processing and Li doping approach to develop p-type NiO thin films with enchanced electrical properties
Oluwabi, Abayomi Titilope; **Spalatu, Nicolae**; Maticiuc, Natalia; **Katerski, Atanas**; **Mere, Arvo**; **Krunks, Malle**; **Oja Acik, Ilona** Frontiers in materials 2023 / 12 p. : ill https://doi.org/10.3389/fmats.2023.1060420 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Comparative study of CdS films annealed in neutral, oxidizing and reducing atmospheres
Maticiuc, Natalia; **Kukk, Mart**; **Spalatu, Nicolae**; **Potlog, Tamara**; **Krunks, Malle**; **Valdna, Vello**; **Hiie, Jaan** Energy procedia 2014 / p. 77-84 : ill https://doi.org/10.1016/j.egypro.2013.12.012 Conference proceedings at Scopus Article at Scopus Article at WOS

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 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Effect of CdCl2 vapor phase pretreatment annealing on the properties of CSS CdS and CdTe/CdS thin film solar cells
Spalatu, Nicolae; **Hiie, Jaan**; **Valdna, Vello**; **Krunks, Malle**; Caraman, Mihail; **Mikli, Valdek**; **Maticiuc, Natalia** 2014 Spring Meeting Lille, France : May 26-30. Symposium A, Thin film chalcogenide photovoltaic materials 2014 / p. 17

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 https://doi.org/10.1016/j.tsf.2014.11.003 Conference Proceedings at Scopus Article at Scopus Conference Proceedings at WOS Article at WOS

Electrical characterization of CdS films, annealed in reducing, neutral and oxidizing ambients of H2, N2, and air
Graf, Aleksandr; **Maticiuc, Natalia**; **Gavrilov, Aleksei**; **Hiie, Jaan** EMRS 2014 Spring Meeting : Lille, France, May 26-30. Symposium A, Thin film chalcogenide photovoltaic materials 2014 / p. 22

Electrodeposited nanostructured CdSe/CdS matrix for hybrid solar cells [Online resource]
Maricheva, Jelena; **Bereznev, Sergei**; **Maticiuc, Natalia**; **Volobujeva, Olga**; **Kois, Julia** Tartu Ülikooli ASTRA projekt PER ASPERA : Funktsionaalsed materjalid ja tehnoloogiad : [7-8 märts 2017, Tartu : teesid] 2017 / [1] p. : ill http://fmtdk.ut.ee/teesid/

Electrodeposition of cadmium chalcogenide films for hybrid solar cells = Kaadmiumkalkogeniidkilede elektrokeemiline sadestamine kasutamiseks hübriid-päikesepatareides
Maricheva, Jelena 2017 http://www.ester.ee/record=b4747305*est https://digi.lib.ttu.ee/i/?9117

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 https://doi.org/10.1016/j.apsusc.2015.01.172 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Impact of vacuum and nitrogen annealing on HVE SnS photoabsorber films
Revathi, Naidu; **Loorits, Mihkel**; **Kärber, Erki**; **Volobujeva, Olga**; **Raudoja, Jaan**; **Maticiuc, Natalia**; **Bereznev, Sergei**; **Mellikov, Enn** Materials science in semiconductor processing 2017 / p. 252-257 : ill https://doi.org/10.1016/j.mssp.2017.08.004 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Improved electrodeposition of CdS layers in presence of activating H2SeO3 microadditive
Maricheva, Jelena; **Bereznev, Sergei**; **Naidu, Revathi**; **Maticiuc, Natalia**; **Mikli, Valdek**; **Kois, Julia** Materials science in semiconductor processing 2016 / p. 14-19 : ill https://doi.org/10.1016/j.mssp.2016.06.013 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Incorporation of plasmonic Au nanoparticles inside the CdTe thin film absorber
Maticiuc, Natalia; **Spalatu, Nicolae**; **Katerski, Atanas**; Repan, T.; **Hiie, Jaan** NANOSMAT Conference, 22-25 September 2013, Granada, Spain : abstracts book 2013 / p. 341-342

Influence of annealing in H2 atmosphere on the electrical properties of thin film CdS
Maticiuc, Natalia; **Hiie, Jaan**; **Potlog, Tamara**; **Valdna, Vello**; **Gavrilov, Aleksei** MRS proceedings 2011 / p. d14-05

Influence of PH on the hydroxide impurities in chemically deposited CDS thin film
Üürike, Marvin; **Maticiuc, Natalia**; **Volobujeva, Olga**; **Spalatu, Nicolae**; **Hiie, Jaan** The 14th International Conference of Young

Scientists on Energy Issues : Kaunas, Lithuania, May 25-26, 2017 2017 / p. X-316 - X-323 : ill
http://cyseni.com/archives/proceedings/Proceedings_of_CYSENI_2017.pdf

Influence of selenous acid microadditive on electrochemical formation of CdS thin films
Maricheva, Jelena; **Bereznev, Sergei**; **Maticiuc, Natalia**; **Volobujeva, Olga**; **Kois, Julia** Electrochimica acta 2017 / p. 280-286 : ill https://doi.org/10.1016/j.electacta.2017.05.035 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Influence of technological conditions on the properties of CBD CdS layers
Maticiuc, Natalia; **Hiie, Jaan**; Potlog, Tamara CAS 2012 proceedings. Volume 1 : 2012 International Semiconductor Conference : October 15-17, Sinaia, Romania 2012 / p. 187-190 : ill https://ibn.idsi.md/vizualizare_articol/192476

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

Issues with application of CBD CdS in CdS/i-ZnO/ZnO:Al window layer
Maticiuc, Natalia; Potlog, Tamara; **Hiie, Jaan** 17th International Conference on II-VI Compounds and Related Materials : Paris, 13-18 September 2015 : conference book 2015 / p. 372 : ill http://ii-vi-2015.sciencesconf.org/conference/ii-vi-2015/pages/ConferenceBook_IIVI2015_web_1.pdf

Keemiliselt sadestatud kaadmiumsulfiidi kilede lõõmutamisel toimuvad struktuursed muutused
Põldme, Nils; **Hiie, Jaan**; **Mikli, Valdek**; **Raadik, Taavi**; **Valdna, Vello**; **Mere, Arvo**; **Gavrilov, Aleksei**; Maticiuc, Natalia; Potlog, Tamara; Quinci, Frederico; Lughi, Vanni; Sergo, Valter XXXI Eesti keemiapäevad : [28. aprill 2010, Tallinn] : teaduskonverentsi teesid = 31st Estonian Chemistry Days : abstracts of scientific conference 2010 / lk. 65

Mechanism of changes in the properties of chemically deposited CdS thin films induced by thermal annealing = Keemiliselt sadestatud CdS õhukeste kilede omaduste muutumise mehhanism termilisel lõõmutamisel
Maticiuc, Natalia 2015 https://www.ester.ee/record=b4518170*est

One-stage pulsed laser deposition of conductive zinc oxysulfide layers
Bereznev, Sergei; Kocharyan, Hrachya; **Maticiuc, Natalia**; **Naidu, Revathi**; **Volobujeva, Olga**; Tverjanovich, Andrey; **Kois, Julia** Applied surface science 2017 / p. 722-727 : ill https://doi.org/10.1016/j.apsusc.2017.07.078 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Plasmonic effect of Au NPs on CSS CdS/CdTe solar cell characteristics
Spalatu, Nicolae; **Maticiuc, Natalia**; **Katerski, Atanas**; **Krunks, Malle**; **Mikli, Valdek**; **Hiie, Jaan** Science and Applications of Thin Films, SATF 2014 : Cesme, Izmir, Turkey, September 15-19 : abstract book 2014 / p. 371

Plasmonic effect of spray-deposited Au nanoparticles on the performance of CSS CdS/CdTe solar cells
Spalatu, Nicolae; **Hiie, Jaan**; **Maticiuc, Natalia**; **Krunks, Malle**; **Katerski, Atanas**; **Mikli, Valdek**; Sildos, Ilmo Applied surface science 2015 / p. 69-73 : ill https://doi.org/10.1016/j.apsusc.2015.04.065 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Plasmonic modification of CdTe thin films by gold nanoparticles : methods, difficulties and solutions
Maticiuc, Natalia; **Spalatu, Nicolae**; **Katerski, Atanas**; **Hiie, Jaan**; **Mikli, Valdek**; **Krunks, Malle**; Dolgov, Leonid; Sildos, Ilmo Microelectronic engineering 2014 / p. 173-178 : ill https://doi.org/10.1016/j.mee.2014.07.016 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

A post-deposition annealing approach for organic residues control in TiO2 and its impact on Sb2Se3/TiO2 device performance
Koltsov, Mykhailo; **Krautmann, Robert**; **Katerski, Atanas**; Maticiuc, Natalia; **Krunks, Malle**; **Oja Acik, Ilona**; **Spalatu, Nicolae** Faraday Discussions 2022 / p. 273-286 https://doi.org/10.1039/D2FD00064D Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Properties of the CdCl2 air-annealed CSS CdTe thin films
Spalatu, Nicolae; **Hiie, Jaan**; **Valdna, Vello**; Caraman, Mihail; **Maticiuc, Natalia**; **Mikli, Valdek**; **Potlog, Tamara**; **Krunks, Malle**; Lughi, Vanni Energy procedia 2014 / p. 85-95 : ill https://doi.org/10.1016/j.egypro.2013.12.013 Conference proceedings at Scopus Article at Scopus Article at WOS

Properties of the CdCl2 air-annealed CSS CdTe thin films
Spalatu, Nicolae; **Hiie, Jaan**; **Valdna, Vello**; **Maticiuc, Natalia**; **Krunks, Malle**; **Mikli, Valdek** TÜ ja TTÜ doktorikool "Funktsionaalsed materjalid ja tehnoloogiad" : 04.-05. märts 2014, Tartu 2014 / [1] p

Properties of the CdCl2:O2 treated CSS CdTe thin films
Spalatu, Nicolae; Caraman, Mihail; **Maticiuc, Natalia**; **Hiie, Jaan**; **Valdna, Vello**; **Mikli, Valdek**; Lughi, Vanni E-MRS 2013 Spring Meeting. Symposium D, Advanced inorganic materials and structures for photovoltaics : poster session II 2013 / p. 19

Reversibility of CdS film properties depending on the nature of annealing gas
Maticiuc, Natalia; **Hiie, Jaan**; **Spalatu, Nicolae**; **Valdna, Vello** E-MRS 2013 Spring Meeting. Symposium D, Advanced inorganic materials and structures for photovoltaics : poster session II 2013 / p. 15-16

The role of Cl in the chemical bath on the properties of CdS thin films
Maticiuc, Natalia; **Hiie, Jaan**; **Raadik, Taavi**; **Graf, Aleksandr**; **Gavrilov, Aleksei** Thin solid films 2013 / p. 184-187 : ill https://doi.org/10.1016/j.tsf.2012.11.107 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Structural and optical properties of cadmium sulfide thin films modified by hydrogen annealing
Maticiuc, Natalia; **Hiie, Jaan**; **Mikli, Valdek**; Potlog, Tamara; **Valdna, Vello** Materials science in semiconductor processing 2014 / p. 169-174 : ill https://doi.org/10.1016/j.mssp.2014.04.031 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Structural and optical properties of ZnTe thin films
Potlog, Tamara; **Maticiuc, Natalia**; Mirzac, A.; Dumitriu, P.; Scortescu, D. CAS 2012 proceedings. Volume 2 : 2012 International Semiconductor Conference : October 15-17, Sinaia, Romania 2012 / p. 321-324 : ill
https://ieeexplore.ieee.org/abstract/document/6400772/keywords#keywords

Structural changes in CBD CdS: effect of rapid thermal annealing
Hiie, Jaan; Quinci, Frederico; Lughi, Vanni; Maticiuc, Natalia; Potlog, Tamara; **Mere, Arvo**; **Valdna, Vello**; **Gavrilov, Aleksei** "Thin film chalcogenide photovoltaic materials" (Symposium M, EMRS 2010 Spring Meeting) : 7-11 June 2010, Strasbourg, France 2010

Structural changes in chemically deposited CdS : effect of thermal annealing
Maticiuc, Natalia; Potlog, Tamara; **Hiie, Jaan**; **Mikli, Valdek**; **Põldme, Meeme**; **Raadik, Taavi**; **Valdna, Vello**; **Mere, Arvo**; **Gavrilov, Aleksei**; Sergo, V.; Quinci, Frederico; Lughi, Vanni Moldavian journal of the physical sciences 2010 / 3/4, p. 275-279
https://www.researchgate.net/publication/281997353_Structural_changes_in_chemically_deposited_CdS_Effect_of_thermal_annealing

Structural reproducibility of CdTe thin films deposited on different substrates by close space sublimation method
Potlog, Tamara; Spalatu, Nicolae; Maticiuc, Natalia; **Hiie, Jaan**; **Valdna, Vello**; **Mikli, Valdek**; **Mere, Arvo** Physica status solidi (a) : applications and materials science 2012 / p. 272-276 : ill https://ibn.idsi.md/ro/vizualizare_articol/188177

ZnO/NiO heterostructures with enhanced photocatalytic activity obtained by ultrasonic spraying of a NiO shell onto ZnO nanorods
Chen, Zengjun; **Dedova, Tatjana**; **Spalatu, Nicolae**; Maticiuc, Natalia; Rusu, Marin; **Katerski, Atanas**; **Oja Acik, Ilona**; Unold, Thomas; **Krunks, Malle** Colloids and surfaces A : physicochemical and engineering aspects 2022 / art. 129366
https://doi.org/10.1016/j.colsurfa.2022.129366 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Vesinikus lõõmutamise mõju CdS kilede omadustele
Maticiuc, Natalia; Potlog, Tamara; **Hiie, Jaan** XXXII Eesti Keemiapäevad : teaduskonverentsi teesid 2011 / lk. 61

XPS study of OH impurity in solution processed CdS thin films
Maticiuc, Natalia; **Katerski, Atanas**; **Danilson, Mati**; **Krunks, Malle**; **Hiie, Jaan** Solar energy materials and solar cells 2017 / p. 211-216 : ill https://doi.org/10.1016/j.solmat.2016.10.040 Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS