

### **A PL study of CIGS thin films implanted with He and D ions**

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### **Ageing of kesterite solar cells 1 : Degradation processes and their influence on solar cell parameters**

**Neubauer, Christian**; **Samiepour, Ali**; **Oueslati, Souhaib**; **Danilson, Mati**; **Meissner, Dieter** Thin solid films 2019 / p. 595-599 : ill  
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### **Ageing of kesterite solar cells 2 : Impact on photocurrent generation**

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### **Analysis of the edge emission of highly conductive CuGaTe<sub>2</sub>**

**Krustok, Jüri**; **Grossberg, Maarja**; **Jagomägi, Andri**; **Danilson, Mati**; **Raudoja, Jaan** Thin solid films 2007 / 15, p. 6192-6195  
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### **Atomic layer deposition of high-k dielectrics on carbon nanoparticles**

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### **CdTe:CdCl<sub>2</sub>:O<sub>2</sub> annealing process**

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

### **Characterisation of ultrasonically sprayed In<sub>x</sub>S<sub>y</sub> buffer-layers for Cu(In,Ga)Se<sub>2</sub> solar cells**

**Ernits, Kaia**; Bremaud, D.; **Mellikov, Enn** Thin solid films 2007 / 15, p. 6051-6054  
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### **Characterization of sprayed CuInS<sub>2</sub> films annealed in hydrogen sulfide atmosphere**

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### **Characterization of tetrahedrite Cu<sub>10</sub>Cd<sub>2</sub>Sb<sub>4</sub>S<sub>13</sub> monograin materials grown in molten CdI<sub>2</sub> 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](#)  
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### **Characterization of the chemical bath deposited In(OH)<sub>x</sub>S<sub>y</sub> films : effect of the growth conditions**

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### **Comparative study of nanostructured CdS thin films prepared by CBD and spray pyrolysis : annealing effect**

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

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### **Composition and structure of CuInS<sub>2</sub> films prepared by spray pyrolysis**

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

### **Composition of CuInS<sub>2</sub> thin films prepared by spray pyrolysis**

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### **Compositionally tunable structure and optical properties of Cu<sub>1.85</sub>(Cd<sub>x</sub>Zn<sub>1-x</sub>)<sub>1.1</sub>SnS<sub>4.1</sub> (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 <http://dx.doi.org/10.1016/j.tsf.2014.10.091>

### **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

### **Crystal quality studies of CuInS<sub>2</sub> films prepared by spray pyrolysis**

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**CuInS<sub>2</sub> sprayed films on different metal oxide underlayers**

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**Effect of absorber surface modification on the optoelectronic properties of Cu<sub>2</sub>CdGeSe<sub>4</sub> solar cells**

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**Effect of CdCl<sub>2</sub> annealing treatment on structural and optoelectronic properties of close spaced sublimation CdTe/CdS thin film solar cells vs deposition conditions**

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**Effect of germanium incorporation on the properties of kesterite Cu<sub>2</sub>ZnSn(S,Se)<sub>4</sub> monograins**

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**Effect of H<sub>2</sub>S treatment on properties of CuInS<sub>2</sub> thin films deposited by chemical spray pyrolysis at low temperature**

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**Effects of selenisation temperature on photoluminescence and photoluminescence excitation spectra of ZnO/CdS/Cu<sub>2</sub>ZnSnSe<sub>4</sub>/Mo/glass**

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

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**Electrodeposited ZnO morphology transformations under the influence of SeO<sub>2</sub> additive: Rods, disks, nanosheets network**

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**Electronic and structural characterisation of Cu<sub>3</sub>BiS<sub>3</sub> thin films for the absorber layer of sustainable photovoltaics**

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**Flexible Cu(In,Ga)Se<sub>2</sub> on Al foils and the effects of Al during chemical bath deposition**

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**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; Traksmaa, Rainer; Kallavus, Urve** Thin solid films 2009 / 7, p. 2252-2255 : ill

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**Growth mechanism of pulse electrodeposited cadmium sulfide and zinc sulfide thin films with tartaric acid and glycerol as additives**

**Boosagulla, Divya; Mandati, Sreekanth; Allikayala, Ramachandraiah; Sarada, Bulusu V.** Thin Solid Films 2021 / art. #139011 <https://doi.org/10.1016/j.tsf.2021.139011>

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

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

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**Influence of order-disorder in Cu<sub>2</sub>ZnSnS<sub>4</sub> 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>

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**Investigation of potential and compositional fluctuations in CuGa<sub>3</sub>Se<sub>5</sub> crystals using photoluminescence spectroscopy**

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**Kesterite monograins for solar cells and water splitting applications**

**Oueslati, Souhaib; Pilvet, Maris; Grossberg, Maarja; Kauk-Kuusik, Marit; Krustok, Jüri; Meissner, Dieter** Thin solid films 2021 / art. 138981 <https://doi.org/10.1016/j.tsf.2021.138981> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### Low temperature air-annealing of Cu(InGa)Se<sub>2</sub> single crystals

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### Monograin layer solar cells

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### 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; Krunks, Malle** Thin solid films 2009 / p. 2443-2447 : ill <https://doi.org/10.1016/j.tsf.2008.11.018>

### Optical and structural properties of orthorhombic and tetragonal polymorphs of Cu<sub>2</sub>CdGeSe<sub>4</sub>

**Grossberg, Maarja; Raadik, Taavi; Krustok, Jüri; Kauk-Kuusik, Marit; Timmo, Kristi; Kaupmees, Reelika; Mikli, Valdek; Mere, Arvo** Thin solid films 2018 / p. 44-47 <https://doi.org/10.1016/j.tsf.2018.09.031> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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### Phase composition of selenized Cu<sub>2</sub>ZnSnSe<sub>4</sub> 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

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

**Jarkov, Aleksandr; Bereznev, Sergei; Volobujeva, Olga; Traksmaa, Rainer; Tverjanovich, Andrey; Öpik, Andres; Mellikov, Enn** Thin solid films 2013 / p. 198-201 : ill

### Photoelectrochemical properties and band positions of Cd-substituted tetrahedrite Cu<sub>10</sub>Cd<sub>2</sub>Sb<sub>4</sub>S<sub>13</sub> monograin materials grown in molten CdI<sub>2</sub> and Lil

**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](#)

### Photoluminescence and Raman spectroscopy of polycrystalline AgInTe<sub>2</sub>

**Jagomägi, Andri; Krustok, Jüri; Raudoja, Jaan; Grossberg, Maarja; Oja, Ilona; Krunks, Malle; Danilson, Mati** Thin solid films 2005 / p. 246-249 : ill

### Photoluminescence and Raman spectroscopy of polycrystalline AgInTe<sub>2</sub>

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### Photoluminescence and Raman study of Cu<sub>2</sub>ZnSn(SexS<sub>1-x</sub>)<sub>4</sub> monograins for photovoltaic applications

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

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**Krustok, Jüri; Raudoja, Jaan; Collan, Heikki** Thin solid films 2001 / p. 195-197

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### Point defects in Cl and Na doped CdTe

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### Post-deposition thermal treatment of sprayed SnS films

**Polivtseva, Svetlana; Katerski, Atanas; Kärber, Erki; Oja Acik, Ilona; Mere, Arvo; Mikli, Valdek; Krunks, Malle** Thin solid films 2017 / p. 179-184 : ill <https://doi.org/10.1016/j.tsf.2017.01.014>

### Post-growth annealing effect on the performance of Cu<sub>2</sub>ZnSnSe<sub>4</sub> monograin layer solar cells

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### Preparation of Cu(In,Ga) Se<sub>2</sub> 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>

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

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

#### **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](#)

#### **Radiative recombination in Cu<sub>2</sub>ZnSnSe<sub>4</sub> monograins studied by photoluminescence spectroscopy**

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#### **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

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

#### **Shallow defect density determination in CuIn<sub>3</sub>Se<sub>5</sub> thin film photoabsorber by impedance spectroscopy**

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