

# Christian A Kaufmann

## List of Publications by Citations

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155  
papers

3,450  
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33  
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52  
g-index

168  
ext. papers

4,006  
ext. citations

5.7  
avg, IF

4.99  
L-index

#	Paper	IF	Citations
155	Conformal monolayer contacts with lossless interfaces for perovskite single junction and monolithic tandem solar cells. <i>Energy and Environmental Science</i> , <b>2019</b> , 12, 3356-3369	35.4	229
154	Interpretation of admittance, capacitance-voltage, and current-voltage signatures in Cu(In,Ga)Se <sub>2</sub> thin film solar cells. <i>Journal of Applied Physics</i> , <b>2010</b> , 107, 034509	2.5	215
153	21.6%-Efficient Monolithic Perovskite/Cu(In,Ga)Se <sub>2</sub> Tandem Solar Cells with Thin Conformal Hole Transport Layers for Integration on Rough Bottom Cell Surfaces. <i>ACS Energy Letters</i> , <b>2019</b> , 4, 583-590	20.1	106
152	The influence of Na on low temperature growth of CIGS thin film solar cells on polyimide substrates. <i>Thin Solid Films</i> , <b>2009</b> , 517, 2187-2190	2.2	106
151	Investigation of Cu(In,Ga)Se <sub>2</sub> thin-film formation during the multi-stage co-evaporation process. <i>Progress in Photovoltaics: Research and Applications</i> , <b>2013</b> , 21, 30-46	6.8	95
150	Experimental indication for band gap widening of chalcopyrite solar cell absorbers after potassium fluoride treatment. <i>Applied Physics Letters</i> , <b>2014</b> , 105, 063901	3.4	89
149	Transfer of Cu(In,Ga)Se <sub>2</sub> thin film solar cells to flexible substrates using an in situ process control. <i>Thin Solid Films</i> , <b>2005</b> , 480-481, 515-519	2.2	85
148	Junction formation by Zn(O,S) sputtering yields CIGSe-based cells with efficiencies exceeding 18%. <i>Progress in Photovoltaics: Research and Applications</i> , <b>2014</b> , 22, 161-165	6.8	77
147	Depth profiling of Cu(In,Ga)Se <sub>2</sub> thin films grown at low temperatures. <i>Solar Energy Materials and Solar Cells</i> , <b>2009</b> , 93, 859-863	6.4	76
146	Identifying the Real Minority Carrier Lifetime in Nonideal Semiconductors: A Case Study of Kesterite Materials. <i>Advanced Energy Materials</i> , <b>2017</b> , 7, 1700167	21.8	74
145	Comprehensive comparison of various techniques for the analysis of elemental distributions in thin films. <i>Microscopy and Microanalysis</i> , <b>2011</b> , 17, 728-51	0.5	62
144	Influence of Na on Cu(In,Ga)Se <sub>2</sub> solar cells grown on polyimide substrates at low temperature: Impact on the Cu(In,Ga)Se <sub>2</sub> /Mo interface. <i>Applied Physics Letters</i> , <b>2010</b> , 96, 092104	3.4	61
143	Surface Cu depletion of Cu(In,Ga)Se <sub>2</sub> films: An investigation by hard X-ray photoelectron spectroscopy. <i>Acta Materialia</i> , <b>2009</b> , 57, 3645-3651	8.4	60
142	Cu deficiency in multi-stage co-evaporated Cu(In,Ga)Se <sub>2</sub> for solar cells applications: Microstructure and Ga in-depth alloying. <i>Acta Materialia</i> , <b>2010</b> , 58, 3468-3476	8.4	60
141	Direct evidence for a reduced density of deep level defects at grain boundaries of Cu(In,Ga)Se <sub>2</sub> thin films. <i>Physical Review Letters</i> , <b>2010</b> , 105, 116802	7.4	59
140	Proton Radiation Hardness of Perovskite Tandem Photovoltaics. <i>Joule</i> , <b>2020</b> , 4, 1054-1069	27.8	53
139	CuIn <sub>1-x</sub> Ga <sub>x</sub> Se <sub>2</sub> -based thin-film solar cells by the selenization of sequentially evaporated metallic layers. <i>Progress in Photovoltaics: Research and Applications</i> , <b>2006</b> , 14, 145-153	6.8	53

138	Elucidating the Mechanism of an RbF Post Deposition Treatment in CIGS Thin Film Solar Cells. <i>Solar Rrl</i> , <b>2018</b> , 2, 1800156	7.1	51
137	Characterization of metastabilities in Cu(In,Ga)Se <sub>2</sub> thin-film solar cells by capacitance and current-voltage spectroscopy. <i>Journal of Applied Physics</i> , <b>2011</b> , 110, 094506	2.5	51
136	High efficiency low temperature grown Cu(In,Ga)Se <sub>2</sub> thin film solar cells on flexible substrates using NaF precursor layers. <i>Progress in Photovoltaics: Research and Applications</i> , <b>2011</b> , 19, 547-551	6.8	50
135	The effect of NaF precursors on low temperature growth of CIGS thin film solar cells on polyimide substrates. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2009</b> , 206, 1049-1053	1.6	49
134	Impact of the Ga concentration on the microstructure of CuIn <sub>1-x</sub> Ga <sub>x</sub> Se <sub>2</sub> . <i>Physica Status Solidi - Rapid Research Letters</i> , <b>2008</b> , 2, 135-137	2.5	48
133	Grain-boundary types in chalcopyrite-type thin films and their correlations with film texture and electrical properties. <i>Thin Solid Films</i> , <b>2009</b> , 517, 2545-2549	2.2	45
132	Influence of iron on defect concentrations and device performance for Cu(In,Ga)Se <sub>2</sub> solar cells on stainless steel substrates. <i>Progress in Photovoltaics: Research and Applications</i> , <b>2012</b> , 20, 568-574	6.8	44
131	Properties of CuInS <sub>2</sub> thin films grown by a two-step process without H <sub>2</sub> S. <i>Solar Energy Materials and Solar Cells</i> , <b>1997</b> , 49, 349-356	6.4	43
130	Cu(In,Ga)Se <sub>2</sub> superstrate solar cells: prospects and limitations. <i>Progress in Photovoltaics: Research and Applications</i> , <b>2015</b> , 23, 1228-1237	6.8	41
129	Generation-dependent charge carrier transport in Cu(In,Ga)Se <sub>2</sub> /CdS/ZnO thin-film solar-cells. <i>Journal of Applied Physics</i> , <b>2013</b> , 113, 044515	2.5	40
128	Origin of defects in CuIn <sub>1-x</sub> Ga <sub>x</sub> Se <sub>2</sub> solar cells with varied Ga content. <i>Thin Solid Films</i> , <b>2009</b> , 517, 2244-2247	4.7	37
127	Lift-off process and rear-side characterization of CuGaSe <sub>2</sub> chalcopyrite thin films and solar cells. <i>Journal of Applied Physics</i> , <b>2005</b> , 97, 094915	2.5	37
126	Recrystallization of Cu(In,Ga)Se <sub>2</sub> thin films studied by X-ray diffraction. <i>Acta Materialia</i> , <b>2013</b> , 61, 4347-4353	4.3	36
125	Evolution of opto-electronic properties during film formation of complex semiconductors. <i>Scientific Reports</i> , <b>2017</b> , 7, 45463	4.9	35
124	Increased homogeneity and open-circuit voltage of Cu(In,Ga)Se <sub>2</sub> solar cells due to higher deposition temperature. <i>Solar Energy Materials and Solar Cells</i> , <b>2011</b> , 95, 1028-1030	6.4	35
123	Formation of the physical vapor deposited CdS/Cu(In,Ga)Se <sub>2</sub> interface in highly efficient thin film solar cells. <i>Applied Physics Letters</i> , <b>2006</b> , 88, 143510	3.4	33
122	Impact of Na on MoSe <sub>2</sub> formation at the CIGSe/Mo interface in thin-film solar cells on polyimide foil at low process temperatures. <i>Acta Materialia</i> , <b>2014</b> , 63, 54-62	8.4	32
121	Reliable wet-chemical cleaning of natively oxidized high-efficiency Cu(In,Ga)Se <sub>2</sub> thin-film solar cell absorbers. <i>Journal of Applied Physics</i> , <b>2014</b> , 116, 233502	2.5	32

120	Annihilation of structural defects in chalcogenide absorber films for high-efficiency solar cells. <i>Energy and Environmental Science</i> , <b>2016</b> , 9, 1818-1827	35.4	32
119	Formation of CuInSe <sub>2</sub> and CuGaSe <sub>2</sub> Thin-Films Deposited by Three-Stage Thermal Co-Evaporation: A Real-Time X-Ray Diffraction and Fluorescence Study. <i>Advanced Energy Materials</i> , <b>2013</b> , 3, 1381-1387	21.8	31
118	Investigation of coevaporated Cu(In,Ga)Se <sub>2</sub> thin films in highly efficient solar cell devices. <i>Thin Solid Films</i> , <b>2007</b> , 515, 6217-6221	2.2	30
117	Capacitance profiling in the CIGS solar cells. <i>Thin Solid Films</i> , <b>2007</b> , 515, 6229-6232	2.2	28
116	Towards the growth of Cu <sub>2</sub> ZnSn <sub>1-x</sub> GexS <sub>4</sub> thin films by a single-stage process: Effect of substrate temperature and composition. <i>Solar Energy Materials and Solar Cells</i> , <b>2015</b> , 139, 1-9	6.4	27
115	Well-Controlled Dielectric Nanomeshes by Colloidal Nanosphere Lithography for Optoelectronic Enhancement of Ultrathin Cu(In,Ga)Se Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 31646-31652	9.5	27
114	Raman scattering analysis of Cu-poor Cu(In,Ga)Se <sub>2</sub> cells fabricated on polyimide substrates: Effect of Na content on microstructure and phase structure. <i>Thin Solid Films</i> , <b>2011</b> , 519, 7300-7303	2.2	27
113	Adjusting the Ga grading during fast atmospheric processing of Cu(In,Ga)Se <sub>2</sub> solar cell absorber layers using elemental selenium vapor. <i>Progress in Photovoltaics: Research and Applications</i> , <b>2017</b> , 25, 341-357	6.8	25
112	Na incorporation into Cu(In,Ga)Se <sub>2</sub> thin-film solar cell absorbers deposited on polyimide: Impact on the chemical and electronic surface structure. <i>Journal of Applied Physics</i> , <b>2012</b> , 111, 034903	2.5	25
111	Time resolved photoluminescence on Cu(In, Ga)Se <sub>2</sub> absorbers: Distinguishing degradation and trap states. <i>Applied Physics Letters</i> , <b>2017</b> , 110, 122104	3.4	24
110	Effectiveness of an RbF Post Deposition Treatment of CIGS Solar Cells in Dependence on the Cu Content of the Absorber Layer. <i>IEEE Journal of Photovoltaics</i> , <b>2019</b> , 9, 1839-1845	3.7	24
109	Efficient and Stable TiO <sub>2</sub> :Pt/Cu(In,Ga)Se <sub>2</sub> Composite Photoelectrodes for Visible Light Driven Hydrogen Evolution. <i>Advanced Energy Materials</i> , <b>2015</b> , 5, 1402148	21.8	24
108	High emissivity coatings based on polysilazanes for flexible Cu(In,Ga)Se <sub>2</sub> thin-film solar cells. <i>Solar Energy Materials and Solar Cells</i> , <b>2014</b> , 123, 97-103	6.4	23
107	Three-dimensional structure of the buffer/absorber interface in CdS/CuGaSe <sub>2</sub> based thin film solar cells. <i>Applied Physics Letters</i> , <b>2009</b> , 95, 173502	3.4	23
106	Investigation of the potassium fluoride post deposition treatment on the CIGSe/CdS interface using hard X-ray photoemission spectroscopy - a comparative study. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 14129-38	3.6	23
105	Real-time study of Ga diffusion processes during the formation of Cu(In,Ga)Se <sub>2</sub> : The role of Cu and Na content. <i>Solar Energy Materials and Solar Cells</i> , <b>2013</b> , 116, 102-109	6.4	22
104	In vacuo XPS investigation of Cu(In,Ga)Se <sub>2</sub> surface after RbF post-deposition treatment. <i>Thin Solid Films</i> , <b>2018</b> , 665, 143-147	2.2	22
103	Electronic properties of grain boundaries in Cu(In,Ga)Se <sub>2</sub> thin films with various Ga-contents. <i>Solar Energy Materials and Solar Cells</i> , <b>2012</b> , 103, 86-92	6.4	21

102	Surface Cu-depletion of Cu(In,Ga)Se <sub>2</sub> thin films: Further experimental evidence for a defect-induced surface reconstruction. <i>Journal of Applied Physics</i> , <b>2010</b> , 107, 113540	2.5	21
101	Effect of Na presence during CuInSe <sub>2</sub> growth on stacking fault annihilation and electronic properties. <i>Applied Physics Letters</i> , <b>2015</b> , 107, 152103	3.4	20
100	Effects of KF and RbF post deposition treatments on the growth of the CdS buffer layer on CIGS thin films - a comparative study. <i>Solar Energy Materials and Solar Cells</i> , <b>2019</b> , 200, 109997	6.4	19
99	Perovskite/CIGS Tandem Solar Cells: From Certified 24.2% toward 30% and Beyond. <i>ACS Energy Letters</i> , <b>2022</b> , 7, 1298-1307	20.1	19
98	Correlating the Local Defect-Level Density with the Macroscopic Composition and Energetics of Chalcopyrite Thin-Film Surfaces. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 13062-72	9.5	18
97	Characterization of flexible thin film CIGSe solar cells grown on different metallic foil substrates. <i>Energy Procedia</i> , <b>2010</b> , 2, 109-117	2.3	18
96	Advantageous light management in Cu(In,Ga)Se <sub>2</sub> superstrate solar cells. <i>Solar Energy Materials and Solar Cells</i> , <b>2016</b> , 150, 76-81	6.4	18
95	Glow discharge optical emission spectrometry for quantitative depth profiling of CIGS thin-films. <i>Journal of Analytical Atomic Spectrometry</i> , <b>2019</b> , 34, 1233-1241	3.7	17
94	Effect of Cu excess on three-stage CuGaSe <sub>2</sub> thin films using in-situ process controls. <i>Thin Solid Films</i> , <b>2007</b> , 515, 5862-5866	2.2	17
93	Sudden stress relaxation in compound semiconductor thin films triggered by secondary phase segregation. <i>Physical Review B</i> , <b>2015</b> , 92,	3.3	16
92	Nanoscale investigations of the electronic surface properties of Cu(In,Ga)Se <sub>2</sub> thin films by scanning tunneling spectroscopy. <i>Solar Energy Materials and Solar Cells</i> , <b>2011</b> , 95, 1537-1543	6.4	16
91	Ion beam analysis of Cu(In,Ga)Se <sub>2</sub> thin film solar cells. <i>Applied Surface Science</i> , <b>2015</b> , 356, 631-638	6.7	15
90	Thin-film silazane/alumina high emissivity double layer coatings for flexible Cu(In,Ga)Se <sub>2</sub> solar cells. <i>Solar Energy Materials and Solar Cells</i> , <b>2015</b> , 132, 296-302	6.4	15
89	An overview of technological aspects of Cu(In,Ga)Se <sub>2</sub> solar cell architectures incorporating ZnO nanorod arrays. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2015</b> , 212, 76-87	1.6	14
88	Heat Induced Passivation of CuInSe <sub>2</sub> Surfaces: A Strategy to Optimize the Efficiency of Chalcopyrite Thin Film Solar Cells?. <i>Advanced Materials Interfaces</i> , <b>2014</b> , 1, 1300040	4.6	14
87	Grazing-incidence x-ray fluorescence analysis for non-destructive determination of In and Ga depth profiles in Cu(In,Ga)Se <sub>2</sub> absorber films. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 113904	3.4	14
86	Cationic point defects in CuGaSe <sub>2</sub> from a structural perspective. <i>Applied Physics Letters</i> , <b>2012</b> , 101, 101907	9.4	14
85	Spray pyrolysis of barrier layers for flexible thin film solar cells on steel. <i>Solar Energy Materials and Solar Cells</i> , <b>2011</b> , 95, 504-509	6.4	13

84	Gallium gradients in chalcopyrite thin films: Depth profile analyses of films grown at different temperatures. <i>Journal of Applied Physics</i> , <b>2011</b> , 110, 093509	2.5	12
83	Elemental depth profiling of Cu(In,Ga)Se <sub>2</sub> thin films by reference-free grazing incidence X-ray fluorescence analysis. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2010</b> , 268, 277-281	1.2	12
82	Solar cells based on CCSVT-grown CuGaSe <sub>2</sub> absorber and device properties. <i>Thin Solid Films</i> , <b>2005</b> , 480-481, 341-346	2.2	12
81	Diffusion-induced grain boundary migration as mechanism for grain growth and defect annihilation in chalcopyrite thin films. <i>Acta Materialia</i> , <b>2016</b> , 111, 377-384	8.4	12
80	Investigation of Cu-poor and Cu-rich Cu(In,Ga)Se <sub>2</sub> /CdS interfaces using hard X-ray photoelectron spectroscopy. <i>Thin Solid Films</i> , <b>2015</b> , 582, 366-370	2.2	11
79	Microscopic mobilities and cooling dynamics of photoexcited carriers in polycrystalline CuInSe <sub>2</sub> . <i>Physical Review B</i> , <b>2014</b> , 89,	3.3	11
78	The Importance of Sodium Control in CIGSe Superstrate Solar Cells. <i>IEEE Journal of Photovoltaics</i> , <b>2015</b> , 5, 378-381	3.7	11
77	Chalcopyrite Thin-Film Materials and Solar Cells <b>2012</b> , 399-422		11
76	Niobium-doped TiO <sub>2</sub> films as window layer for chalcopyrite solar cells. <i>Physica Status Solidi (B): Basic Research</i> , <b>2008</b> , 245, 1849-1857	1.3	11
75	Metastability of solar cells based on evaporated chalcopyrite absorber layers prepared with varying selenium flux. <i>Thin Solid Films</i> , <b>2013</b> , 535, 340-342	2.2	10
74	Mesoporous silica nanocomposite antireflective coating for Cu(In,Ga)Se <sub>2</sub> thin film solar cells. <i>Solar Energy Materials and Solar Cells</i> , <b>2015</b> , 134, 359-363	6.4	10
73	Examination of growth kinetics of copper rich Cu(In,Ga)Se <sub>2</sub> -films using synchrotron energy dispersive X-ray diffractometry. <i>Solar Energy Materials and Solar Cells</i> , <b>2011</b> , 95, 250-253	6.4	10
72	The influence of sodium on the point defect characteristics in off stoichiometric CuInSe <sub>2</sub> . <i>Journal of Physics and Chemistry of Solids</i> , <b>2016</b> , 98, 309-315	3.9	9
71	Investigating sulfur distribution and corresponding bandgap grading in Cu(In,Ga)(S,Se) <sub>2</sub> absorber layers processed by fast atmospheric chalcogenization of metal precursors. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 703, 600-604	5.7	8
70	Evaluation of recombination losses in thin film solar cells using an LED sun simulator [The effect of RbF post-deposition on CIGS solar cells. <i>EPJ Photovoltaics</i> , <b>2018</b> , 9, 9	0.7	8
69	Lateral phase separation in Cu-In-Ga precursor and Cu(In,Ga)Se <sub>2</sub> absorber thin films. <i>Solar Energy Materials and Solar Cells</i> , <b>2017</b> , 162, 120-126	6.4	7
68	Influence of Cu(In,Ga)(Se,S) <sub>2</sub> surface treatments on the properties of 3000cm <sup>2</sup> large area modules with atomic layer deposited Zn(O,S) buffers. <i>Thin Solid Films</i> , <b>2015</b> , 574, 28-31	2.2	7
67	In-depth elemental characterization of Cu(In,Ga)Se <sub>2</sub> thin film solar cells by means of RBS and PIXE techniques. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>2014</b> , 331, 93-95	1.2	7



66	Buffer-free Cu(In,Ga)Se <sub>2</sub> -solar cells by near-surface ion implantation. <i>Solar Energy Materials and Solar Cells</i> , <b>2013</b> , 116, 43-48	6.4	7
65	Enhanced Efficiency of CIGS Thin Film Solar Cells on Polyimide Substrates. <i>Materials Research Society Symposia Proceedings</i> , <b>2009</b> , 1165, 1		7
64	High-Efficient ZnO/PVD-CdS/Cu(In,Ga)Se <sub>2</sub> Thin Film Solar Cells: Formation of the Buffer-Absorber Interface and Transport Properties. <i>Materials Research Society Symposia Proceedings</i> , <b>2005</b> , 865, 14251		7
63	Advanced characterization and in-situ growth monitoring of Cu(In,Ga)Se <sub>2</sub> thin films and solar cells. <i>Solar Energy</i> , <b>2018</b> , 170, 102-112	6.8	7
62	Electrostatic potential fluctuations and light-soaking effects in Cu(In,Ga)Se <sub>2</sub> solar cells. <i>Progress in Photovoltaics: Research and Applications</i> , <b>2020</b> , 28, 919-934	6.8	6
61	Limitation of Current Transport across the Heterojunction in Cu(In,Ga)Se <sub>2</sub> Solar Cells Prepared with Alkali Fluoride Postdeposition Treatment. <i>Solar Rrl</i> , <b>2020</b> , 4, 1900560	7.1	6
60	Laser-induced local phase transformation of CIGSe for monolithic serial interconnection: Analysis of the material properties. <i>Solar Energy Materials and Solar Cells</i> , <b>2016</b> , 157, 636-643	6.4	6
59	Application of PLD to the production of plasmonic structures containing Ag nanoparticles based on chalcopyrite solar cells. <i>Energy Procedia</i> , <b>2011</b> , 10, 38-42	2.3	6
58	Controlled variation of the information depth by angle dependent soft X-ray emission spectroscopy: A study on polycrystalline Cu(In,Ga)Se <sub>2</sub> . <i>Applied Surface Science</i> , <b>2008</b> , 255, 2474-2477	6.7	6
57	Structural changes of CIGS during deposition investigated by spectroscopic light scattering: A study on Ga concentration and Se pressure. <i>Solar Energy Materials and Solar Cells</i> , <b>2006</b> , 90, 3377-3384	6.4	6
56	Chemical Bath Deposition of Indium Oxyhydroxysulfide Thin Films: Effect of the Bath on Film Composition. <i>Journal of the Electrochemical Society</i> , <b>2002</b> , 149, C1	3.9	6
55	Correlating facet orientation, defect-level density and dipole layer formation at the surface of polycrystalline CuInSe <sub>2</sub> thin films. <i>Acta Materialia</i> , <b>2020</b> , 200, 463-470	8.4	6
54	Properties of Co-Evaporated RbInSe <sub>2</sub> Thin Films. <i>Physica Status Solidi - Rapid Research Letters</i> , <b>2018</b> , 13, 1800564	2.5	6
53	Amorphous oxides as electron transport layers in Cu(In,Ga)Se <sub>2</sub> superstrate devices. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2017</b> , 214, 1600870	1.6	5
52	Stacking fault reduction during annealing in Cu-poor CuInSe <sub>2</sub> thin film solar cell absorbers analyzed by in situ XRD and grain growth modeling. <i>Journal of Applied Physics</i> , <b>2019</b> , 125, 035303	2.5	5
51	New approach for an industrial low-temperature roll-to-roll Cl(G)Se hybrid sputter coevaporation deposition process. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2020</b> , 38, 033201	2.9	5
50	Reversible correlation between subnanoscale structure and Cu content in co-evaporated Cu(In,Ga)Se <sub>2</sub> thin films. <i>Acta Materialia</i> , <b>2018</b> , 153, 8-14	8.4	5
49	Luminescence properties of Ga-graded Cu(In,Ga)Se <sub>2</sub> thin films. <i>Thin Solid Films</i> , <b>2012</b> , 520, 3657-3662	2.2	5

48	Composition-dependent nanostructure of Cu(In,Ga)Se <sub>2</sub> powders and thin films. <i>Thin Solid Films</i> , <b>2015</b> , 582, 356-360	2.2	5
47	CuGaSe <sub>2</sub> -Based Solar Cells with High Open Circuit Voltage. <i>Materials Research Society Symposia Proceedings</i> , <b>2007</b> , 1012, 1		5
46	Depth-resolved analysis of the effect of RbF post deposition treatment on CIGSe with two different Cu concentrations. <i>Solar Energy Materials and Solar Cells</i> , <b>2021</b> , 226, 111071	6.4	5
45	Cu(In,Ga)Se <sub>2</sub> surface treatment with Na and NaF: A combined photoelectron spectroscopy and surface photovoltage study in ultra-high vacuum. <i>Applied Surface Science</i> , <b>2018</b> , 444, 436-441	6.7	4
44	Grain boundary assisted photocurrent collection in thin film solar cells. <i>EPJ Photovoltaics</i> , <b>2015</b> , 6, 60101o.7		4
43	Hard x-ray photoelectron spectroscopy of chalcopyrite solar cell components. <i>Applied Physics Letters</i> , <b>2012</b> , 100, 092108	3.4	4
42	The role of the spray pyrolysed Al <sub>2</sub> O <sub>3</sub> barrier layer in achieving high efficiency solar cells on flexible steel substrates. <i>Applied Physics A: Materials Science and Processing</i> , <b>2011</b> , 104, 407-413	2.6	4
41	Influence of Mo Back-Contact Oxidation on Properties of CIGSe <sub>2</sub> Thin Film Solar Cells on Glass Substrates. <i>Japanese Journal of Applied Physics</i> , <b>2012</b> , 51, 10NC02	1.4	4
40	Microscopic investigation of the CdS buffer layer growth on Cu(In,Ga)Se <sub>2</sub> absorbers. <i>Journal of Vacuum Science &amp; Technology B</i> , <b>2008</b> , 26, 901		4
39	CGS-Thin Films Solar Cells on Transparent Back Contact <b>2006</b> ,		4
38	Design of a window layer for flexible Cu(In,Ga)Se <sub>2</sub> thin film solar cell devices. <i>Materials Research Society Symposia Proceedings</i> , <b>2005</b> , 865, 751		4
37	A Device Model for Rb-Conditioned Chalcopyrite Solar Cells. <i>IEEE Journal of Photovoltaics</i> , <b>2021</b> , 11, 232-240	3.7	4
36	In situ investigation of as grown Cu(In,Ga)Se <sub>2</sub> thin films by means of photoemission spectroscopy. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2019</b> , 37, 031510	2.9	3
35	Bifacial Cu(In,Ga)Se <sub>2</sub> solar cells with submicron absorber thickness: back-contact passivation and light management <b>2015</b> ,		3
34	Controlling the thermal impact of ns laser pulses for the preparation of the P2 interconnect by local phase transformation in CIGSe <b>2015</b> ,		3
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