

Nicolas Barreau

List of Publications by Year in descending order

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128
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2,912
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159525

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48
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128
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docs citations

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2601
citing authors

#	ARTICLE	IF	CITATIONS
1	Buffer layers and transparent conducting oxides for chalcopyrite $\text{Cu}(\text{In,Ga})(\text{S,Se})_2$ based thin film photovoltaics: present status and current developments. Progress in Photovoltaics: Research and Applications, 2010, 18, 411-433.	4.4	323
2	Indium sulfide and relatives in the world of photovoltaics. Solar Energy, 2009, 83, 363-371.	2.9	158
3	Power and pressure effects upon magnetron sputtered aluminum doped ZnO films properties. Thin Solid Films, 2010, 519, 5-10.	0.8	80
4	Atom probe study of sodium distribution in polycrystalline $\text{Cu}(\text{In,Ga})\text{Se}_2$ thin film. Acta Materialia, 2010, 58, 2634-2637.	3.8	78
5	Optical Properties of Wide Band Gap Indium Sulphide Thin Films Obtained by Physical Vapor Deposition. Physica Status Solidi A, 2001, 184, 179-186.	1.7	62
6	Evolution of the band structure of In_2S_3 buffer layer with its oxygen content. Journal of Applied Physics, 2003, 93, 5456-5459.	1.1	62
7	Study of low temperature elaborated tailored optical band gap In_2S_3 thin films. Journal of Crystal Growth, 2002, 235, 439-449.	0.7	61
8	Study of the new In_2S_3 containing Na thin films. Part II: Optical and electrical characterization of thin films. Journal of Crystal Growth, 2002, 241, 51-56.	0.7	57
9	KF post deposition treatment in co-evaporated $\text{Cu}(\text{In,Ga})\text{Se}_2$ thin film solar cells: Beneficial or detrimental effect induced by the absorber characteristics. Progress in Photovoltaics: Research and Applications, 2017, 25, 1068-1076.	4.4	57
10	Back and front contacts in kesterite solar cells: state-of-the-art and open questions. JPhys Energy, 2019, 1, 044005.	2.3	57
11	Recent studies on In_2S_3 containing oxygen thin films. Solid State Communications, 2002, 122, 445-450.	0.9	56
12	Photocathode functionalized with a molecular cobalt catalyst for selective carbon dioxide reduction in water. Nature Communications, 2020, 11, 3499.	5.8	56
13	Effects of thickness variation on properties of ZnO:Al thin films grown by RF magnetron sputtering deposition. Superlattices and Microstructures, 2015, 79, 148-155.	1.4	55
14	Reinvestigation of preferential orientation of $\text{Cu}(\text{In,Ga})\text{Se}_2$ thin films grown by the stage process. Progress in Photovoltaics: Research and Applications, 2011, 19, 527-536.	4.4	52
15	Study of the new In_2S_3 containing Na thin films Part I: Synthesis and structural characterization of the material. Journal of Crystal Growth, 2002, 241, 4-14.	0.7	51
16	Bandgap properties of the indium sulfide thin-films grown by co-evaporation. Thin Solid Films, 2009, 517, 2316-2319.	0.8	50
17	The impact of alkali elements on the degradation of CIGS solar cells. Progress in Photovoltaics: Research and Applications, 2015, 23, 537-545.	4.4	49
18	Physico-chemical characterization of In_2S_3 thin films synthesized by solid-state reaction, induced by annealing, of the constituents sequentially deposited in thin layers. Vacuum, 2000, 56, 101-106.	1.6	48

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19	Optical properties of large band gap In_2S_3 compounds obtained by physical vapour deposition. <i>Optical Materials</i> , 2005, 27, 647-653.	1.7	48
20	Coevaporated KInSe_2 : A Fast Alternative to KF Postdeposition Treatment in High-Efficiency $\text{Cu}(\text{In,Ga})\text{Se}_2$ Thin Film Solar Cells. <i>IEEE Journal of Photovoltaics</i> , 2016, 6, 1316-1320.	1.5	46
21	Recrystallization of $\text{Cu}(\text{In,Ga})\text{Se}_2$ thin films studied by X-ray diffraction. <i>Acta Materialia</i> , 2013, 61, 4347-4353.	3.8	43
22	Physical and chemical degradation behavior of sputtered aluminum doped zinc oxide layers for $\text{Cu}(\text{In,Ga})\text{Se}_2$ solar cells. <i>Thin Solid Films</i> , 2014, 550, 530-540.	0.8	43
23	Recrystallization of CIGSe layers grown by three-step processes: A model based on grain boundary migration. <i>Acta Materialia</i> , 2010, 58, 5572-5577.	3.8	41
24	Band alignment at $\text{In}_2\text{S}_3/\text{TCO}$ interface. <i>Applied Surface Science</i> , 2002, 195, 222-228.	3.1	38
25	7.6% CZGSe Solar Cells Thanks to Optimized CdS Chemical Bath Deposition. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2018, 215, 1800043.	0.8	36
26	Fast chemical bath deposition of $\text{Zn}(\text{O,S})$ buffer layers for $\text{Cu}(\text{In,Ga})\text{Se}_2$ solar cells. <i>Thin Solid Films</i> , 2011, 519, 7575-7578.	0.8	35
27	Investigation of In_2S_3 growth on different transparent conductive oxides. <i>Applied Surface Science</i> , 2000, 161, 20-26.	3.1	34
28	Influence of Mo back contact porosity on coevaporated $\text{Cu}(\text{In,Ga})\text{Se}_2$ thin film properties and related solar cell. <i>Progress in Photovoltaics: Research and Applications</i> , 2013, 21, 332-343.	4.4	34
29	Sn Substitution by Ge: Strategies to Overcome the Open-Circuit Voltage Deficit of Kesterite Solar Cells. <i>ACS Applied Energy Materials</i> , 2020, 3, 5830-5839.	2.5	32
30	A study of bulk $\text{Na}_x\text{Cu}_{1-x}\text{In}_5\text{S}_8$ and its impact on the $\text{Cu}(\text{In,Ga})\text{Se}_2/\text{In}_2\text{S}_3$ interface of solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2006, 90, 1840-1848.	3.0	31
31	Atom probe study of Cu-poor to Cu-rich transition during $\text{Cu}(\text{In,Ga})\text{Se}_2$ growth. <i>Applied Physics Letters</i> , 2011, 99, .	1.5	30
32	Evaluation of different buffer materials for solar cells with wide-gap $\text{Cu}_2\text{ZnGeS}_4$ absorbers. <i>RSC Advances</i> , 2017, 7, 40105-40110.	1.7	28
33	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> , 2019, 200, 109997.	3.0	26
34	MoS_2 textured films grown on glass substrates through sodium sulfide based compounds. <i>Journal Physics D: Applied Physics</i> , 2002, 35, 1197-1204.	1.3	25
35	Influence of Na on grain boundary and properties of $\text{Cu}(\text{In,Ga})\text{Se}_2$ solar cells. <i>Progress in Photovoltaics: Research and Applications</i> , 2017, 25, 367-375.	4.4	25
36	Dependence of ZnO:Al properties on the substrate to target position in RF sputtering. <i>Thin Solid Films</i> , 2008, 516, 7094-7097.	0.8	24

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37	Nondestructive depth-resolved spectroscopic investigation of the heavily intermixed In ₂ S ₃ /Cu(In,Ga)Se ₂ interface. Applied Physics Letters, 2010, 96, 184101.	1.5	24
38	The impact of atmospheric species on the degradation of CIGS solar cells. Solar Energy Materials and Solar Cells, 2015, 141, 49-56.	3.0	24
39	Red-blue effect in Cu(In,Ga)Se ₂ -based devices revisited. Thin Solid Films, 2013, 535, 302-306.	0.8	23
40	Impact of Annealing-Induced Intermixing on the Electronic Level Alignment at the In ₂ S ₃ /Cu(In,Ga)Se ₂ Thin-Film Solar Cell Interface. ACS Applied Materials & Interfaces, 2016, 8, 2120-2124.	4.0	23
41	Influence of the atmospheric species water, oxygen, nitrogen and carbon dioxide on the degradation of aluminum doped zinc oxide layers. Thin Solid Films, 2014, 565, 149-154.	0.8	21
42	Minimizing metastabilities in Cu(In,Ga)Se ₂ /(CBD)Zn(S,O,OH)/ZnO-based solar cells. Progress in Photovoltaics: Research and Applications, 2015, 23, 462-469.	4.4	21
43	Structural and photoluminescence characterization of vertically aligned multiwalled carbon nanotubes coated with ZnO by magnetron sputtering. Thin Solid Films, 2012, 520, 4816-4819.	0.8	20
44	Nanostructuring and band gap emission enhancement of ZnO film via electrochemical anodization. Thin Solid Films, 2014, 571, 168-174.	0.8	20
45	Influence of deposition pressure and selenisation on damp heat degradation of the Cu(In,Ga)Se ₂ back contact molybdenum. Surface and Coatings Technology, 2014, 252, 157-167.	2.2	20
46	Microstructural characterization of chemical bath deposited and sputtered Zn(O,S) buffer layers. Thin Solid Films, 2013, 535, 175-179.	0.8	19
47	Structural properties of In ₂ Se ₃ precursor layers deposited by spray pyrolysis and physical vapor deposition for CuInSe ₂ thin-film solar cell applications. Thin Solid Films, 2015, 587, 112-116.	0.8	19
48	Stability of CIGS solar cells under illumination with damp heat and dry heat: A comparison. Solar Energy Materials and Solar Cells, 2017, 166, 262-268.	3.0	19
49	Chemical crystallographic investigation on Cu ₂ S-In ₂ S ₃ -Ga ₂ S ₃ ternary system. Thin Solid Films, 2018, 665, 46-50.	0.8	19
50	Wide band gap kesterite absorbers for thin film solar cells: potential and challenges for their deployment in tandem devices. Sustainable Energy and Fuels, 2019, 3, 2246-2259.	2.5	19
51	Evidence of the Ambipolar Behavior of Mo ₆ Cluster Iodides in All-Inorganic Solar Cells: A New Example of Nanoarchitectonic Concept. ACS Applied Materials & Interfaces, 2022, 14, 1347-1354.	4.0	19
52	Optical properties of PZT thin films deposited on a ZnO buffer layer. Optical Materials, 2007, 29, 1871-1877.	1.7	18
53	Persistent Photoconductivity in Polycrystalline Cu(In,Ga)Se ₂ ; Thin Films: Experiment Versus Theoretical Predictions. IEEE Journal of Photovoltaics, 2015, 5, 1206-1211.	1.5	18
54	Defects characterization in thin films photovoltaics materials by correlated high-frequency modulated and time resolved photoluminescence: An application to Cu(In,Ga)Se ₂ . Thin Solid Films, 2019, 669, 520-524.	0.8	18

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55	The path towards efficient wide band gap thin-film kesterite solar cells with transparent back contact for viable tandem application. <i>Solar Energy Materials and Solar Cells</i> , 2021, 219, 110824.	3.0	17
56	The effect of damp heat-illumination exposure on CIGS solar cells: A combined XRD and electrical characterization study. <i>Solar Energy Materials and Solar Cells</i> , 2016, 157, 943-952.	3.0	16
57	High Efficiency Solar Cell Based on Full PVD Processed $\text{Cu}(\text{In,Ga})\text{Se}_2/\text{CdIn}_2\text{S}_3$ Heterojunction. <i>Solar Rrl</i> , 2017, 1, 1700140.	3.1	16
58	Influence of sodium compounds at the $\text{Cu}(\text{In,Ga})\text{Se}_2/(\text{PVD})\text{In}_2\text{S}_3$ interface on solar cell properties. <i>Thin Solid Films</i> , 2007, 515, 6076-6079.	0.8	15
59	Investigation of $\text{Cu}(\text{In,Ga})\text{Se}_2/\text{In}_2\text{S}_3$ diffuse interface by Raman scattering. <i>Thin Solid Films</i> , 2011, 519, 7553-7555.	0.8	14
60	Influence of Cu off-stoichiometry on wide band gap CIGSe solar cells. <i>Thin Solid Films</i> , 2011, 519, 7228-7231.	0.8	14
61	Photoluminescence as a tool for investigations of the junction region in $\text{Cu}(\text{In,Ga})\text{Se}_2$ -based solar cells. <i>Thin Solid Films</i> , 2011, 519, 7328-7331.	0.8	14
62	Characteristics of Photoconductive MoS_2 Films Grown on NaCl Substrates by a Sequential Process. <i>Physica Status Solidi A</i> , 2001, 187, 427-437.	1.7	13
63	Structural study and electronic band structure investigations of the solid solution $\text{Na}_x\text{Cu}_{1-x}\text{In}_5\text{S}_8$ and its impact on the $\text{Cu}(\text{In,Ga})\text{Se}_2/\text{In}_2\text{S}_3$ interface of solar cells. <i>Thin Solid Films</i> , 2007, 515, 6020-6023.	0.8	13
64	Systematic study of the complex structure of N1 Deep Level Transient Spectroscopy signal in $\text{Cu}(\text{In,Ga})\text{Se}_2$ based heterojunctions. <i>Thin Solid Films</i> , 2011, 519, 7485-7488.	0.8	13
65	Influence of Mo/ MoSe_2 microstructure on the damp heat stability of the $\text{Cu}(\text{In,Ga})\text{Se}_2$ back contact molybdenum. <i>Thin Solid Films</i> , 2016, 612, 381-392.	0.8	13
66	Influence of absorber copper concentration on the $\text{Cu}(\text{In,Ga})\text{Se}_2/(\text{PVD})\text{In}_2\text{S}_3$ and $\text{Cu}(\text{In,Ga})\text{Se}_2/(\text{CBD})\text{CdS}$ based solar cells performance. <i>Thin Solid Films</i> , 2009, 517, 2407-2410.	0.8	12
67	Investigation of intergrain compounds in sputtered Mo films applied in $\text{CuIn}_{1-x}\text{Ga}_x\text{Se}_2$ -based solar cell. <i>Surface and Coatings Technology</i> , 2012, 211, 29-32.	2.2	12
68	Degradation of CIGS solar cells due to the migration of alkali-elements. , 2015, , .		12
69	Impact of KF Post-Deposition Treatment on Aging of the $\text{Cu}(\text{In,Ga})\text{Se}_2$ Surface and Its Interface with CdS. <i>ACS Applied Energy Materials</i> , 2018, 1, 2681-2688.	2.5	12
70	Propagation mechanism of reverse bias induced defects in $\text{Cu}(\text{In,Ga})\text{Se}_2$ solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2020, 205, 110249.	3.0	12
71	Electronic Structure of the $\text{CdS}/\text{Cu}(\text{In,Ga})\text{Se}_2$ Interface of KF- and RbF-Treated Samples by Kelvin Probe and Photoelectron Yield Spectroscopy. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 7745-7755.	4.0	12
72	Performance of $\text{CuIn}_{1-x}\text{Ga}_x\text{Se}_2/(\text{PVD})\text{In}_2\text{S}_3$ solar cells versus gallium content. <i>Thin Solid Films</i> , 2007, 515, 6028-6031.	0.8	11

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73	Characterization of $(\text{In}_{1-x}\text{Al}_x)\text{S}_2\text{S}_3$ thin films grown by co-evaporation. Journal of Crystal Growth, 2010, 312, 502-506.	0.7	11
74	Oxygen effect in radio frequency magnetron sputtered aluminium doped zinc oxide films. Thin Solid Films, 2014, 562, 70-74.	0.8	11
75	Influence of post-deposition selenium supply on $\text{Cu}(\text{In,Ga})\text{Se}_2$ -based solar cell properties. Thin Solid Films, 2015, 582, 43-46.	0.8	11
76	Impact of DC-power during Mo back contact sputtering on the alkali distribution in $\text{Cu}(\text{In,Ga})\text{Se}_2$ -based thin film solar cells. Thin Solid Films, 2015, 582, 304-307.	0.8	11
77	In_2S_3 for photovoltaic devices: investigation of the native point defects with ab initio first-principle calculations. Theoretical Chemistry Accounts, 2018, 137, 1.	0.5	11
78	Electrostatic potential fluctuations and light-soaking effects in $\text{Cu}(\text{In,Ga})\text{Se}_2$ solar cells. Progress in Photovoltaics: Research and Applications, 2020, 28, 919-934.	4.4	11
79	Enhancement of near-band edge photoluminescence of ZnO film buffered with TiN. Thin Solid Films, 2013, 538, 71-77.	0.8	10
80	Accelerated performance degradation of CIGS solar cell determined by in-situ monitoring. Proceedings of SPIE, 2014, , .	0.8	10
81	Positron Annihilation Studies on the Damp Heat Degradation of ZnO:Al Transparent Conductive Oxide Layers for CIGS Solar Cells. IEEE Journal of Photovoltaics, 2018, 8, 1847-1851.	1.5	10
82	Improved CuGaSe_2 absorber properties through a modified co-evaporation process. Thin Solid Films, 2020, 709, 138224.	0.8	10
83	Comparative study of $\text{Cu}(\text{In,Ga})\text{Se}_2/(\text{PVD})\text{In}_2\text{S}_3$ and $\text{Cu}(\text{In,Ga})\text{Se}_2/(\text{CBD})\text{CdS}$ heterojunction based solar cells by admittance spectroscopy, current-voltage and spectral response measurements. Thin Solid Films, 2009, 517, 2423-2426.	0.8	9
84	Influence of Ga content on defects in $\text{CuIn}_x\text{Ga}_{1-x}\text{Se}_2$ based solar cell absorbers investigated by sub gap modulated photocurrent and admittance spectroscopy. Thin Solid Films, 2011, 519, 7312-7316.	0.8	9
85	Composition and structural study of solution-processed $\text{Zn}(\text{S},\text{O},\text{OH})$ thin films grown using H_2O_2 based deposition route. Thin Solid Films, 2013, 535, 171-174.	0.8	9
86	Crystal Chemistry, Optical-Electronic Properties, and Electronic Structure of $\text{Cd}_{1-x}\text{In}_{2+2x/3}\text{S}_4$ Compounds (0 ≤ x ≤ 1), Potential Buffer in CIGS-Based Thin-Film Solar Cells. Inorganic Chemistry, 2018, 57, 12624-12631.	1.9	9
87	Improvement of the properties of commercial SnO_2 by Cd treatment. Thin Solid Films, 2003, 427, 386-390.	0.8	8
88	Electronic structure of $\text{Na}_x\text{Cu}_2\text{S}_3$. Physical Review B, 2008, 78, .	1.9	8
89	Layered Quaternary Compounds in the $\text{Cu}_2\text{In}_2\text{S}_3\text{Ga}_2\text{S}_3$ system. Inorganic Chemistry, 2020, 59, 4546-4553.	1.9	8
90	Effect of ammonium sulfide treatments on the surface properties of $\text{Cu}_2\text{ZnSnSe}_4$ thin films. Thin Solid Films, 2017, 633, 135-140.	0.8	7

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91	Material Property Changes in Defects Caused by Reverse Bias Exposure of CIGS Solar Cells. IEEE Journal of Photovoltaics, 2019, 9, 1868-1872.	1.5	7
92	Numerical modelling of the performance-limiting factors in CZGSe solar cells. Journal Physics D: Applied Physics, 2020, 53, 385102.	1.3	7
93	Composition-Dependent Passivation Efficiency at the CdS/CuIn _{1-x} Ga _x Se ₂ Interface. Advanced Materials, 2020, 32, 1907763.	11.1	7
94	Evolution and role of vacancy clusters at grain boundaries of ZnO:Al during accelerated degradation of Cu(In,Ga)Se ₂ solar cells revealed by positron annihilation. Physical Review Materials, 2018, 2, .	0.9	7
95	Finding Relevant Parameters for the Thin-film Photovoltaic Cells Production Process with the Application of Data Mining Methods. Molecular Informatics, 2017, 36, 1600161.	1.4	6
96	Influence of Sulfur Evaporation during or after KF-Post Deposition Treatment On Cu(In,Ga)Se ₂ /CdS Interface Formation. ACS Applied Materials & Interfaces, 2020, 12, 46953-46962.	4.0	6
97	In-situ investigation of CdI_n S_4 : A possible substitute for CdS in $Cu(In,Ga)Se_2$ devices deposited by the co-evaporation without recrystallisation. Thin Solid Films, 2015, 582, 47-50.	0.9	6
98	Influence of indium/gallium gradients on the Cu(In,Ga)Se ₂ devices deposited by the co-evaporation without recrystallisation. Thin Solid Films, 2015, 582, 47-50.	0.8	5
99	Detrimental copper-selenide bulk precipitation in CuIn _{1-x} Ga _x Se ₂ thin-film solar cells. A possible reason for the limited performance at large x?. Thin Solid Films, 2020, 712, 138297.	0.8	5
100	Direct Synthesis of ZnO Nanowires on Nanopatterned Surface by Magnetron Sputtering. Chemical Vapor Deposition, 2011, 17, 337-341.	1.4	4
101	Study of the electronic properties of wide band gap CIGSe solar cells: Influence of copper off-stoichiometry. Journal of Non-Crystalline Solids, 2012, 358, 2428-2430.	1.5	4
102	In-situ monitoring of the accelerated performance degradation of thin film solar cells. , 2015, , .		4
103	&em>In Situ&em> Monitoring of the Accelerated Performance Degradation of Solar Cells and Modules: A Case Study for Cu(In,Ga)Se ₂ Solar Cells. Journal of Visualized Experiments, 2018, , .	0.2	4
104	Carbon Dioxide Reduction to Methanol with a Molecular Cobalt-Loaded Porous Carbon Electrode Assisted by a CIGS Photovoltaic Cell**. ChemPhotoChem, 2021, 5, 705-710.	1.5	4
105	Analysis and optimization of thin film photovoltaic materials and device fabrication by real time spectroscopic ellipsometry. Proceedings of SPIE, 2007, 6651, 89.	0.8	3
106	Characterization of Indium Sulfide Thin Films Containing Copper. Materials Research Society Symposia Proceedings, 2009, 1165, 1.	0.1	3
107	High excitation photoluminescence effects as a probing tool for the growth of Cu(In,Ga)Se ₂ . , 2015, , .		3
108	Notice of Removal Co-evaporated KInSe ₂ : A fast alternative to KF post deposition treatment in high efficiency Cu(In,Ga)Se ₂ thin film solar cells. , 2017, , .		3

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109	Epitaxial growth of CIGSe layers on GaP/Si(001) pseudo-substrate for tandem CIGSe/Si solar cells. Solar Energy Materials and Solar Cells, 2021, 233, 111385.	3.0	3
110	Surface Off-Stoichiometry of CuInS ₂ Thin-Film Solar Cell Absorbers. IEEE Journal of Photovoltaics, 2013, 3, 828-832.	1.5	2
111	In-situ analysis of the degradation of Cu(In, Ga)Se ₂ solar cells. , 2013, , .		2
112	Development of co-evaporated In ₂ S ₃ buffer layer for Cu ₂ ZnSnSe ₄ thin film solar cells. , 2015, , .		2
113	Damp heat related degradation mechanisms within CIGS solar cells. , 2016, , .		2
114	The influence of atmospheric species on the degradation of aluminum doped zinc oxide and Cu(In,Ga)Se ₂ solar cells. Proceedings of SPIE, 2014, , .	0.8	1
115	The exposure of CIGS solar cells to different electrical biases in a damp-heat illumination environment. , 2016, , .		1
116	Temperature Dependence of the Internal Quantum Efficiency of Cu(In,Ga)Se ₂ -Based Solar Cells. IEEE Journal of Photovoltaics, 2018, 8, 1868-1874.	1.5	1
117	Stability of unpackaged CIGS solar cells under illumination with damp heat, dry heat and dry cold followed by cycling. , 2017, , .		1
118	Modeling of photoluminescence of graded band-gap Cu(In, Ga)Se ₂ -Based solar cells. , 2013, , .		0
119	Impact of maximum copper content during the 3-stage process on CdS thickness tolerance in Cu(In,Ga)Se ₂ -based solar cell. Materials Research Society Symposia Proceedings, 2013, 1538, 33-38.	0.1	0
120	Impact of the Cu-poor to Cu-rich transition speed and Mo back contact porosity on the electrical and structural properties of CIGS-based solar cells. , 2013, , .		0
121	Surface off-stoichiometry of CuInS ₂ thin-film solar cell absorbers. , 2013, , .		0
122	The impact of selenisation on damp heat degradation of the CIGS back contact molybdenum. , 2013, , .		0
123	Depth resolved preferential orientation of Cu(In,Ga)Se ₂ thin films based on the 112 peak model. , 2015, , .		0
124	Dependence of defect signature on conductivity of polycrystalline Cu(In,Ga)Se ₂ layers by photocurrent spectroscopy. , 2015, , .		0
125	The impact of atmospheric species on the degradation of CIGS solar cells and molybdenum films. , 2015, , .		0
126	Oxygen annealing and Zn/HCl etching effects on CZTS devices. , 2018, , .		0

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127	Innovative approaches in thin-film photovoltaic cells. , 2018, , 595-632.		0
128	17.2% efficiency $\text{CuIn}_{1-x}\text{Ga}_x\text{Se}_2$ thin-film based mini-module thanks to alternative architecture yielding 81% fill factor. EPJ Photovoltaics, 2019, 10, 4.	0.8	0