

# Edgardo Saucedo

## List of Publications by Year in descending order

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240  
papers

8,112  
citations

43973

48  
h-index

62479

80  
g-index

243  
all docs

243  
docs citations

243  
times ranked

4742  
citing authors

#	ARTICLE	IF	CITATIONS
1	Progress and Perspectives of Thin Film Kesterite Photovoltaic Technology: A Critical Review. <i>Advanced Materials</i> , 2019, 31, e1806692.	11.1	333
2	In-depth resolved Raman scattering analysis for the identification of secondary phases: Characterization of Cu <sub>2</sub> ZnSnS <sub>4</sub> layers for solar cell applications. <i>Applied Physics Letters</i> , 2011, 98, .	1.5	287
3	Multiwavelength excitation Raman scattering study of polycrystalline kesterite Cu <sub>2</sub> ZnSnS <sub>4</sub> thin films. <i>Applied Physics Letters</i> , 2014, 104, .	1.5	249
4	Development of a Selective Chemical Etch To Improve the Conversion Efficiency of Zn-Rich Cu <sub>2</sub> ZnSnS <sub>4</sub> Solar Cells. <i>Journal of the American Chemical Society</i> , 2012, 134, 8018-8021.	6.6	242
5	Vibrational properties of stannite and kesterite type compounds: Raman scattering analysis of Cu <sub>2</sub> (Fe,Zn)SnS <sub>4</sub> . <i>Journal of Alloys and Compounds</i> , 2012, 539, 190-194.	2.8	201
6	On the formation mechanisms of Zn-rich Cu <sub>2</sub> ZnSnS <sub>4</sub> films prepared by sulfurization of metallic stacks. <i>Solar Energy Materials and Solar Cells</i> , 2013, 112, 97-105.	3.0	200
7	Detection of a ZnSe secondary phase in coevaporated Cu <sub>2</sub> ZnSnSe <sub>4</sub> thin films. <i>Applied Physics Letters</i> , 2011, 98, .	1.5	195
8	Large Efficiency Improvement in Cu <sub>2</sub> ZnSnSe <sub>4</sub> Solar Cells by Introducing a Superficial Ge Nanolayer. <i>Advanced Energy Materials</i> , 2015, 5, 1501070.	10.2	188
9	Enhanced photoelectrochemical water splitting of hematite multilayer nanowire photoanodes by tuning the surface state via bottom-up interfacial engineering. <i>Energy and Environmental Science</i> , 2017, 10, 2124-2136.	15.6	185
10	How small amounts of Ge modify the formation pathways and crystallization of kesterites. <i>Energy and Environmental Science</i> , 2018, 11, 582-593.	15.6	169
11	Inhibiting the absorber/Mo-back contact decomposition reaction in Cu <sub>2</sub> ZnSnSe <sub>4</sub> solar cells: the role of a ZnO intermediate nanolayer. <i>Journal of Materials Chemistry A</i> , 2013, 1, 8338.	5.2	151
12	Raman scattering and disorder effect in Cu <sub>2</sub> ZnSnS <sub>4</sub> . <i>Physica Status Solidi - Rapid Research Letters</i> , 2013, 7, 258-261.	1.2	136
13	Influence of compositionally induced defects on the vibrational properties of device grade Cu <sub>2</sub> ZnSnSe <sub>4</sub> absorbers for kesterite based solar cells. <i>Applied Physics Letters</i> , 2015, 106, .	1.5	135
14	Impact of Sn(S,Se) Secondary Phases in Cu <sub>2</sub> ZnSn(S,Se) <sub>4</sub> Solar Cells: a Chemical Route for Their Selective Removal and Absorber Surface Passivation. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 12744-12751.	4.0	132
15	Extrinsic Doping of Electrodeposited Zinc Oxide Films by Chlorine for Transparent Conductive Oxide Applications. <i>Chemistry of Materials</i> , 2009, 21, 534-540.	3.2	122
16	ZnSe Etching of Zn-Rich Cu <sub>2</sub> ZnSnSe <sub>4</sub> : An Oxidation Route for Improved Solar Cell Efficiency. <i>Chemistry - A European Journal</i> , 2013, 19, 14814-14822.	1.7	118
17	Secondary phases dependence on composition ratio in sprayed Cu <sub>2</sub> ZnSnS <sub>4</sub> thin films and its impact on the high power conversion efficiency. <i>Solar Energy Materials and Solar Cells</i> , 2013, 117, 246-250.	3.0	116
18	Raman scattering crystalline assessment of polycrystalline Cu <sub>2</sub> ZnSnS <sub>4</sub> thin films for sustainable photovoltaic technologies: Phonon confinement model. <i>Acta Materialia</i> , 2014, 70, 272-280.	3.8	115

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19	Optimization of CdS buffer layer for high-performance $\text{Cu}_2\text{ZnSnSe}_4$ solar cells and the effects of light soaking: elimination of crossover and red kink. <i>Progress in Photovoltaics: Research and Applications</i> , 2015, 23, 1660-1667.	4.4	110
20	Antimony-Based Ligand Exchange To Promote Crystallization in Spray-Deposited $\text{Cu}_2\text{ZnSnSe}_4$ Solar Cells. <i>Journal of the American Chemical Society</i> , 2013, 135, 15982-15985.	6.6	107
21	ZnS grain size effects on near-resonant Raman scattering: optical non-destructive grain size estimation. <i>CrystEngComm</i> , 2014, 16, 4120.	1.3	105
22	Complex Surface Chemistry of Kesterites: Cu/Zn Reordering after Low Temperature Postdeposition Annealing and Its Role in High Performance Devices. <i>Chemistry of Materials</i> , 2015, 27, 5279-5287.	3.2	99
23	Secondary phase formation in Zn-rich $\text{Cu}_2\text{ZnSnSe}_4$ -based solar cells annealed in low pressure and temperature conditions. <i>Progress in Photovoltaics: Research and Applications</i> , 2014, 22, 479-487.	4.4	97
24	Alkali doping strategies for flexible and light-weight $\text{Cu}_2\text{ZnSnSe}_4$ solar cells. <i>Journal of Materials Chemistry A</i> , 2016, 4, 1895-1907.	5.2	88
25	Secondary phase and Cu substitutional defect dynamics in kesterite solar cells: Impact on optoelectronic properties. <i>Solar Energy Materials and Solar Cells</i> , 2016, 149, 304-309.	3.0	82
26	$\text{Cu}_2\text{ZnSnSe}_4$ solar cells with 10.6% efficiency through innovative absorber engineering with Ge superficial nanolayer. <i>Progress in Photovoltaics: Research and Applications</i> , 2016, 24, 1359-1367.	4.4	77
27	The importance of back contact modification in $\text{Cu}_2\text{ZnSnSe}_4$ solar cells: The role of a thin $\text{MoO}_2$ layer. <i>Nano Energy</i> , 2016, 26, 708-721.	8.2	77
28	Impact of Na Dynamics at the $\text{Cu}_2\text{ZnSn(S,Se)}_4/\text{CdS}$ Interface During Post Low Temperature Treatment of Absorbers. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 5017-5024.	4.0	72
29	Raman scattering analysis of the surface chemistry of kesterites: Impact of post-deposition annealing and Cu/Zn reordering on solar cell performance. <i>Solar Energy Materials and Solar Cells</i> , 2016, 157, 462-467.	3.0	71
30	Raman scattering quantitative analysis of the anion chemical composition in kesterite $\text{Cu}_2\text{ZnSn}(\text{SxSe}_{1-x})_4$ solid solutions. <i>Journal of Alloys and Compounds</i> , 2015, 628, 464-470.	2.8	69
31	Boosting and Grain Growth Enhancing Ge-Doping Strategy for $\text{Cu}_2\text{ZnSnSe}_4$ Photovoltaic Absorbers. <i>Journal of Physical Chemistry C</i> , 2016, 120, 9661-9670.	1.5	69
32	Multiwavelength excitation Raman scattering study of $\text{Sb}_2\text{Se}_3$ compound: fundamental vibrational properties and secondary phases detection. <i>2D Materials</i> , 2019, 6, 045054.	2.0	69
33	Compositional optimization of photovoltaic grade $\text{Cu}_2\text{ZnSnS}_4$ films grown by pneumatic spray pyrolysis. <i>Thin Solid Films</i> , 2013, 535, 67-72.	0.8	66
34	Multiwavelength excitation Raman scattering of $\text{Cu}_2\text{ZnSn}(\text{SxSe}_{1-x})_4$ polycrystalline thin films: Vibrational properties of sulfoselenide solid solutions. <i>Applied Physics Letters</i> , 2014, 105, .	1.5	64
35	Defect characterisation in $\text{Cu}_2\text{ZnSnSe}_4$ kesterites via resonance Raman spectroscopy and the impact on optoelectronic solar cell properties. <i>Journal of Materials Chemistry A</i> , 2019, 7, 13293-13304.	5.2	63
36	Electrical properties of sprayed $\text{Cu}_2\text{ZnSnS}_4$ thin films and its relation with secondary phase formation and solar cell performance. <i>Solar Energy Materials and Solar Cells</i> , 2015, 132, 557-562.	3.0	61

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37	Formation and impact of secondary phases in Cu-poor Zn-rich $\text{Cu}_2\text{ZnSn}(\text{S}_{1-x}\text{Se}_x)_4$ ( $0 \leq x \leq 1$ ) based solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2015, 140, 289-298.	3.0	60
38	Chemistry and Dynamics of Ge in Kesterite: Toward Band-Gap-Graded Absorbers. <i>Chemistry of Materials</i> , 2017, 29, 9399-9406.	3.2	59
39	Characterization of $\text{Cu}_2\text{SnS}_3$ polymorphism and its impact on optoelectronic properties. <i>Journal of Materials Chemistry A</i> , 2017, 5, 23863-23871.	5.2	56
40	Single-Step Sulfo-Selenization Method to Synthesize $\text{Cu}_2\text{ZnSn}(\text{S}_{1-x}\text{Se}_x)_4$ Absorbers from Metallic Stack Precursors. <i>ChemPhysChem</i> , 2013, 14, 1836-1843.	1.0	54
41	Towards understanding poor performances in spray-deposited $\text{Cu}_2\text{ZnSnS}_4$ thin film solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2017, 159, 151-158.	3.0	54
42	Emerging inorganic solar cell efficiency tables (Version 1). <i>JPhys Energy</i> , 2019, 1, 032001.	2.3	54
43	Precursor Stack Ordering Effects in $\text{Cu}_2\text{ZnSnSe}_4$ Thin Films Prepared by Rapid Thermal Processing. <i>Journal of Physical Chemistry C</i> , 2014, 118, 17291-17298.	1.5	53
44	Process monitoring of chalcopyrite photovoltaic technologies by Raman spectroscopy: an application to low cost electrodeposition based processes. <i>New Journal of Chemistry</i> , 2011, 35, 453-460.	1.4	52
45	8.2% pure selenide kesterite thin-film solar cells from large-area electrodeposited precursors. <i>Progress in Photovoltaics: Research and Applications</i> , 2016, 24, 38-51.	4.4	52
46	Raman scattering and structural analysis of electrodeposited $\text{CuInSe}_2$ and S-rich quaternary $\text{CuIn}(\text{S},\text{Se})_2$ semiconductors for solar cells. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2009, 206, 1001-1004.	0.8	51
47	Optical methodology for process monitoring of chalcopyrite photovoltaic technologies: Application to low cost $\text{Cu}(\text{In},\text{Ga})(\text{S},\text{Se})_2$ electrodeposition based processes. <i>Solar Energy Materials and Solar Cells</i> , 2016, 158, 168-183.	3.0	51
48	Raman scattering analysis of electrodeposited $\text{Cu}(\text{In},\text{Ga})\text{Se}_2$ solar cells: Impact of ordered vacancy compounds on cell efficiency. <i>Applied Physics Letters</i> , 2014, 105, .	1.5	49
49	Lead iodide film deposition and characterization. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2001, 458, 406-412.	0.7	48
50	Insights into interface and bulk defects in a high efficiency kesterite-based device. <i>Energy and Environmental Science</i> , 2021, 14, 507-523.	15.6	48
51	Modified Bridgman growth of CdTe crystals. <i>Journal of Crystal Growth</i> , 2008, 310, 2067-2071.	0.7	46
52	Revealing the beneficial effects of Ge doping on $\text{Cu}_2\text{ZnSnSe}_4$ thin film solar cells. <i>Journal of Materials Chemistry A</i> , 2018, 6, 11759-11772.	5.2	46
53	Bifacial Kesterite Solar Cells on FTO Substrates. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 11516-11524.	3.2	45
54	Role of S and Se atoms on the microstructural properties of kesterite $\text{Cu}_2\text{ZnSn}(\text{S}_x\text{Se}_{1-x})_4$ thin film solar cells. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 8692-8700.	1.3	43

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55	Resonant Raman scattering of ZnS <sub>x</sub> Se <sub>1-x</sub> solid solutions: the role of S and Se electronic states. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 7632-7640.	1.3	43
56	Structural and vibrational properties of $\beta$ - and $\gamma$ -SnS polymorphs for photovoltaic applications. <i>Acta Materialia</i> , 2020, 183, 1-10.	3.8	43
57	Is It Possible To Develop Complex Se Graded Band Gap Profiles in Kesterite-Based Solar Cells?. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 32945-32956.	4.0	42
58	Evaluation of AA-CVD deposited phase pure polymorphs of SnS for thin films solar cells. <i>RSC Advances</i> , 2019, 9, 14899-14909.	1.7	42
59	Emerging inorganic solar cell efficiency tables (version 2). <i>JPhys Energy</i> , 2021, 3, 032003.	2.3	40
60	Towards high performance Cd-free CZTSe solar cells with a ZnS(O,OH) buffer layer: the influence of thiourea concentration on chemical bath deposition. <i>Journal Physics D: Applied Physics</i> , 2016, 49, 125602.	1.3	39
61	Route towards low cost-high efficiency second generation solar cells: current status and perspectives. <i>Journal of Materials Science: Materials in Electronics</i> , 2015, 26, 5562-5573.	1.1	38
62	Growth of bismuth tri-iodide platelets by the physical vapor deposition method. <i>Crystal Research and Technology</i> , 2004, 39, 912-919.	0.6	37
63	Properties of In <sub>2</sub> S <sub>3</sub> thin films deposited onto ITO/glass substrates by chemical bath deposition. <i>Journal of Physics and Chemistry of Solids</i> , 2010, 71, 1629-1633.	1.9	37
64	Bismuth Tri-Iodide Polycrystalline Films for Digital X-Ray Radiography Applications. <i>IEEE Transactions on Nuclear Science</i> , 2004, 51, 96-100.	1.2	36
65	Compositional paradigms in multinary compound systems for photovoltaic applications: a case study of kesterites. <i>Journal of Materials Chemistry A</i> , 2015, 3, 9451-9455.	5.2	34
66	Physical routes for the synthesis of kesterite. <i>JPhys Energy</i> , 2019, 1, 042003.	2.3	34
67	Toward epitaxial lead-iodide films for X-ray digital imaging. <i>IEEE Transactions on Nuclear Science</i> , 2002, 49, 2274-2278.	1.2	33
68	Photoluminescence and photoconductivity in CdTe crystals doped with Bi. <i>Journal of Applied Physics</i> , 2006, 100, 104901.	1.1	33
69	Earth-abundant absorber based solar cells onto low weight stainless steel substrate. <i>Solar Energy Materials and Solar Cells</i> , 2014, 130, 347-353.	3.0	33
70	Mercuric iodide polycrystalline films. , 2001, , .		32
71	Toward a high Cu <sub>2</sub> ZnSnS <sub>4</sub> solar cell efficiency processed by spray pyrolysis method. <i>Journal of Renewable and Sustainable Energy</i> , 2013, 5, .	0.8	32
72	Cu <sub>2</sub> ZnSnS <sub>4</sub> thin film solar cells grown by fast thermal evaporation and thermal treatment. <i>Solar Energy</i> , 2017, 141, 236-241.	2.9	32

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73	Ultra-thin CdS for highly performing chalcogenides thin film based solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2016, 158, 138-146.	3.0	31
74	Turning Earth Abundant Kesterite-Based Solar Cells Into Efficient Protected Water-Splitting Photocathodes. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 13425-13433.	4.0	31
75	In-situ tuning of the zinc content of pulsed-laser-deposited CZTS films and its effect on the photoconversion efficiency of p-CZTS/n-Si heterojunction photovoltaic devices. <i>Applied Surface Science</i> , 2020, 507, 145003.	3.1	31
76	High efficiency CIGS based solar cells with electrodeposited ZnO:Cl as transparent conducting oxide front contact. <i>Progress in Photovoltaics: Research and Applications</i> , 2011, 19, 537-546.	4.4	30
77	Key role of Cu <sup>2+</sup> -Se binary phases in electrodeposited CuInSe <sub>2</sub> precursors on final distribution of Cu <sup>2+</sup> -S phases in CuIn(S,Se) <sub>2</sub> absorbers. <i>Thin Solid Films</i> , 2009, 517, 2268-2271.	0.8	29
78	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> , 2011, 519, 7300-7303.	0.8	29
79	Rear Band gap Grading Strategies on Sn <sup>2+</sup> -Ge-Alloyed Kesterite Solar Cells. <i>ACS Applied Energy Materials</i> , 2020, 3, 10362-10375.	2.5	29
80	Transition-Metal Oxides for Kesterite Solar Cells Developed on Transparent Substrates. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 33656-33669.	4.0	29
81	Growth and properties of CdTe:Bi-doped crystals. <i>Journal of Crystal Growth</i> , 2006, 291, 416-423.	0.7	28
82	Characterization of Cu <sub>2</sub> ZnSnSe <sub>4</sub> solar cells prepared from electrochemically co-deposited Cu <sup>2+</sup> -Zn <sup>2+</sup> -Sn alloy. <i>Solar Energy Materials and Solar Cells</i> , 2015, 132, 21-28.	3.0	28
83	Cu <sub>2</sub> ZnSnSe <sub>4</sub> -Based Solar Cells With Efficiency Exceeding 10% by Adding a Superficial Ge Nanolayer: The Interaction Between Ge and Na. <i>IEEE Journal of Photovoltaics</i> , 2016, 6, 754-759.	1.5	28
84	Efficient Sb <sub>2</sub> Se <sub>3</sub> /CdS planar heterojunction solar cells in substrate configuration with (hk0) oriented Sb <sub>2</sub> Se <sub>3</sub> thin films. <i>Solar Energy Materials and Solar Cells</i> , 2020, 215, 110603.	3.0	28
85	CZTS solar cells and the possibility of increasing VOC using evaporated Al <sub>2</sub> O <sub>3</sub> at the CZTS/CdS interface. <i>Solar Energy</i> , 2020, 198, 696-703.	2.9	28
86	Assessment of absorber composition and nanocrystalline phases in CuInS <sub>2</sub> based photovoltaic technologies by ex-situ/in-situ resonant Raman scattering measurements. <i>Solar Energy Materials and Solar Cells</i> , 2011, 95, S83-S88.	3.0	27
87	Advanced characterization of electrodeposition-based high efficiency solar cells: Non-destructive Raman scattering quantitative assessment of the anion chemical composition in Cu(In,Ga)(S,Se) <sub>2</sub> absorbers. <i>Solar Energy Materials and Solar Cells</i> , 2015, 143, 212-217.	3.0	26
88	Towards Low Cost and Sustainable Thin Film Thermoelectric Devices Based on Quaternary Chalcogenides. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	26
89	Trap and recombination centers study in sprayed Cu <sub>2</sub> ZnSnS <sub>4</sub> thin films. <i>Journal of Applied Physics</i> , 2014, 116, 134503.	1.1	25
90	Heavy metal doping of CdTe crystals. <i>IEEE Transactions on Nuclear Science</i> , 2004, 51, 3105-3110.	1.2	23

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91	C<sup>sc>ZTS</sup>e solar cells developed on polymer substrates: Effects of low-temperature processing. Progress in Photovoltaics: Research and Applications, 2018, 26, 55-68.	4.4	23
92	Sputtered ZnSnO Buffer Layers for Kesterite Solar Cells. ACS Applied Energy Materials, 2020, 3, 1883-1891.	2.5	23
93	Efficient Se-Rich Sb <sub>2</sub> Se <sub>3</sub> /CdS Planar Heterojunction Solar Cells by Sequential Processing: Control and Influence of Se Content. Solar Rrl, 2020, 4, 2000141.	3.1	23
94	CuIn <sub>1-x</sub> Al <sub>x</sub> Se <sub>2</sub> thin film solar cells with depth gradient composition prepared by selenization of evaporated metallic precursors. Solar Energy Materials and Solar Cells, 2015, 132, 245-251.	3.0	22
95	Electrodeposition based synthesis of S-rich CuIn(S,Se) <sub>2</sub> layers for photovoltaic applications: Raman scattering analysis of electrodeposited CuInSe <sub>2</sub> precursors. Thin Solid Films, 2009, 517, 2163-2166.	0.8	21
96	Temperature dependent electrical characterization of thin film Cu <sub>2</sub> ZnSnSe <sub>4</sub> solar cells. Journal Physics D: Applied Physics, 2016, 49, 085101.	1.3	21
97	CdS/ZnS Bilayer Thin Films Used As Buffer Layer in 10%-Efficient Cu <sub>2</sub> ZnSnSe <sub>4</sub> Solar Cells. ACS Applied Energy Materials, 2020, 3, 6815-6823.	2.5	21
98	New ways for purifying lead iodide appropriate as spectrometric grade material. IEEE Transactions on Nuclear Science, 2002, 49, 1974-1977.	1.2	20
99	Investigation of the origin of deep levels in CdTe doped with Bi. Journal of Applied Physics, 2008, 103, 094901.	1.1	20
100	Electrochemical synthesis of CuIn(S,Se) <sub>2</sub> alloys with graded composition for high efficiency solar cells. Applied Physics Letters, 2009, 94, 061915.	1.5	20
101	Cu <sub>2</sub> ZnSnS <sub>4</sub> thin films grown by flash evaporation and subsequent annealing in Ar atmosphere. Thin Solid Films, 2013, 535, 62-66.	0.8	20
102	Optical modeling and optimizations of Cu <sub>2</sub> ZnSnSe <sub>4</sub> solar cells using the modified transfer matrix method. Optics Express, 2016, 24, A1201.	1.7	20
103	Ge doped Cu <sub>2</sub> ZnSnS <sub>4</sub> : An investigation on absorber recrystallization and opto-electronic properties of solar cell. Solar Energy Materials and Solar Cells, 2019, 198, 44-52.	3.0	20
104	Atomic layer deposition of vanadium oxide films for crystalline silicon solar cells. Materials Advances, 2022, 3, 337-345.	2.6	20
105	Optical and electrical properties of In-doped Cu <sub>2</sub> ZnSnSe <sub>4</sub> . Solar Energy Materials and Solar Cells, 2016, 151, 44-51.	3.0	19
106	Discrepancy between integral and local composition in off-stoichiometric Cu <sub>2</sub> ZnSnSe <sub>4</sub> kesterites: A pitfall for classification. Applied Physics Letters, 2017, 110, .	1.5	19
107	Lead iodide platelets: correlation between surface, optical, and electrical properties with X- and $\gamma$ -ray spectrometric performance. IEEE Transactions on Nuclear Science, 2002, 49, 3300-3305.	1.2	18
108	Optimization of CBD-CdS physical properties for solar cell applications considering a MIS structure. Materials and Design, 2016, 99, 254-261.	3.3	18

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109	Engineering of effective back-contact barrier of CZTSe: Nanoscale Ge solar cells – MoSe <sub>2</sub> defects implication. <i>Solar Energy</i> , 2019, 194, 114-120.	2.9	18
110	Defects in CdTe polycrystalline films grown by physical vapour deposition. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2002, 91-92, 525-528.	1.7	17
111	Physical properties of Bi doped CdTe thin films grown by CSVT and their influence on the CdS/CdTe solar cells PV-properties. <i>Thin Solid Films</i> , 2007, 515, 5819-5823.	0.8	17
112	Pneumatically sprayed Cu <sub>2</sub> ZnSnS <sub>4</sub> films under Ar and H <sub>2</sub> atmosphere. <i>Journal Physics D: Applied Physics</i> , 2014, 47, 245101.	1.3	17
113	Investigation on limiting factors affecting Cu <sub>2</sub> ZnGeSe <sub>4</sub> efficiency: Effect of annealing conditions and surface treatment. <i>Solar Energy Materials and Solar Cells</i> , 2020, 216, 110701.	3.0	17
114	Does Sb <sub>2</sub> Se <sub>3</sub> Admit Nonstoichiometric Conditions? How Modifying the Overall Se Content Affects the Structural, Optical, and Optoelectronic Properties of Sb <sub>2</sub> Se <sub>3</sub> Thin Films. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 11222-11234.	4.0	17
115	Effect of post annealing thermal heating on Cu <sub>2</sub> ZnSnS <sub>4</sub> solar cells processed by sputtering technique. <i>Solar Energy</i> , 2022, 237, 196-202.	2.9	17
116	Comparison between sublimation and evaporation as process for growing lead iodide polycrystalline films. , 2001, 4507, 99.		16
117	Simulation and characterization of CdTe:Bi crystals grown by the Markov method. <i>Journal of Crystal Growth</i> , 2005, 275, e471-e477.	0.7	16
118	Study of the physical properties of Bi doped CdTe thin films deposited by close space vapour transport. <i>Thin Solid Films</i> , 2008, 516, 3818-3823.	0.8	16
119	Combined Raman scattering/photoluminescence analysis of Cu(In,Ga)Se <sub>2</sub> electrodeposited layers. <i>Solar Energy</i> , 2014, 103, 89-95.	2.9	16
120	Chemically and morphologically distinct grain boundaries in Ge-doped Cu <sub>2</sub> ZnSnSe <sub>4</sub> solar cells revealed with STEM-EELS. <i>Materials and Design</i> , 2017, 122, 102-109.	3.3	16
121	Insights into the Formation Pathways of Cu <sub>2</sub> ZnSnSe <sub>4</sub> Using Rapid Thermal Processes. <i>ACS Applied Energy Materials</i> , 2018, 1, 1981-1989.	2.5	16
122	Optimization of ink-jet printed precursors for Cu <sub>2</sub> ZnSn(S,Se) <sub>4</sub> solar cells. <i>Journal of Alloys and Compounds</i> , 2018, 735, 2462-2470.	2.8	16
123	CdTe polycrystalline films for X-ray digital imaging applications. <i>Thin Solid Films</i> , 2005, 471, 304-309.	0.8	15
124	Towards In-reduced photovoltaic absorbers: Evaluation of zinc-blende CuInSe <sub>2</sub> -ZnSe solid solution. <i>Solar Energy Materials and Solar Cells</i> , 2017, 160, 26-33.	3.0	15
125	Cu-Sn-S system: Vibrational properties and coexistence of the Cu <sub>2</sub> SnS <sub>3</sub> , Cu <sub>3</sub> SnS <sub>4</sub> and Cu <sub>4</sub> SnS <sub>4</sub> compounds. <i>Scripta Materialia</i> , 2020, 186, 180-184.	2.6	15
126	Some structural aspects of PbxCd <sub>1-x</sub> Te bulk material. <i>EPJ Applied Physics</i> , 2004, 27, 427-430.	0.3	14



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127	Physical properties of Bi doped CdTe thin films grown by the CSVT method. Solar Energy Materials and Solar Cells, 2006, 90, 2228-2234.	3.0	14
128	A study of the optical absorption in CdTe by photoacoustic spectroscopy. Journal of Materials Science, 2007, 42, 7176-7179.	1.7	14
129	Effect of rapid thermal annealing on the Mo back contact properties for Cu <sub>2</sub> ZnSnSe <sub>4</sub> solar cells. Journal of Alloys and Compounds, 2016, 675, 158-162.	2.8	14
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