Yi Zhang

List of Publications by Year
in descending order

169 papers	4,597 citations	94433 37 h-index	144013 57 g-index
171 all docs	171 docs citations	171 times ranked	3798 citing authors

#	Article	IF	Citations
1	Luminescence and energy transfer of a color tunable phosphor: Dy3+-, Tm3+-, and Eu3+-coactivated KSr4(BO3)3 for warm white UV LEDs. Journal of Materials Chemistry, 2012, 22, 6463.	6.7	191
2	Cation Substitution in Earthâ€Abundant Kesterite Photovoltaic Materials. Advanced Science, 2018, 5, 1700744.	11.2	161
3	10% Efficiency Cu2ZnSn(S,Se)4 thin film solar cells fabricated by magnetron sputtering with enlarged depletion region width. Solar Energy Materials and Solar Cells, 2016, 149, 242-249.	6.2	153
4	A Temporary Barrier Effect of the Alloy Layer During Selenization: Tailoring the Thickness of MoSe₂ for Efficient Cu₂ZnSnSe₄ Solar Cells. Advanced Energy Materials, 2015, 5, 1402178.	19.5	137
5	Tailoring the defects and carrier density for beyond 10% efficient CZTSe thin film solar cells. Solar Energy Materials and Solar Cells, 2017, 159, 447-455.	6.2	129
6	Structure and magnetic properties of Mn-doped ZnO nanoparticles. Journal of Applied Physics, 2005, 97, 086106.	2.5	93
7	Promising Sb₂(S,Se)₃ Solar Cells with High Open Voltage by Application of a TiO₂/CdS Double Buffer Layer. Solar Rrl, 2018, 2, 1800208.	5.8	83
8	Over 6% Certified Sb₂(S,Se)₃ Solar Cells Fabricated via In Situ Hydrothermal Growth and Postselenization. Advanced Electronic Materials, 2019, 5, 1800683.	5.1	78
9	Effects of the doping element on crystal structure and magnetic properties of Sm(Co,M)7 compounds (M=Si, Cu, Ti, Zr, and Hf). Intermetallics, 2005, 13, 710-716.	3.9	77
10	Band-gap-graded Cu₂ZnSn(S,Se)₄ drives highly efficient solar cells. Energy and Environmental Science, 2022, 15, 693-704.	30.8	74
11	Defectâ€Induced Selfâ€Reduction and Antiâ€Thermal Quenching in NaZn(PO₃)₃:Mn²⁺ Red Phosphor. Advanced Optical Materials, 2021, 9, 2100870.	7.3	69
12	Path towards high-efficient kesterite solar cells. Journal of Energy Chemistry, 2018, 27, 1040-1053.	12.9	68
13	Effect of substrate temperature on the structural and electrical properties of CIGS films based on the one-stage co-evaporation process. Semiconductor Science and Technology, 2010, 25, 055007.	2.0	67
14	Structure and photoluminescence properties of a rare-earth free red-emitting Mn²⁺-activated KMgBO₃. Dalton Transactions, 2014, 43, 13845-13851.	3.3	67
15	Boosting V_{OC} of antimony chalcogenide solar cells: A review on interfaces and defects. Nano Select, 2021, 2, 1818-1848.	3.7	66
16	Investigation of Quinquethiophene Derivatives with Different End Groups for High Open Circuit Voltage Solar Cells. Advanced Energy Materials, 2013, 3, 639-646.	19.5	65
17	Growth of Cu₂ZnSnSe₄ Film under Controllable Se Vapor Composition and Impact of Low Cu Content on Solar Cell Efficiency. ACS Applied Materials & Interfaces, 2016, 8, 10283-10292.	8.0	65
18	Structure Determination of Novel Orthoborate NaMgBO3:â€‰ A Promising Birefringent Crystal. Inorganic Chemistry, 2007, 46, 5207-5211.	4.0	58

#	Article	IF	Citations
19	Structure and photoluminescence properties of KSr_4(BO_3)_3:Eu^3+ red-emitting phosphor. Optical Materials Express, 2012, 2, 92.	3.0	58
20	Crystal structure and magnetic properties of SmCo7âˆ'xHfx compounds. Applied Physics Letters, 2004, 85, 5299-5301.	3.3	57
21	Phase-selective hydrothermal synthesis of Cu₂ZnSnS₄ nanocrystals: the effect of the sulphur precursor. CrystEngComm, 2014, 16, 4306-4313.	2.6	54
22	Modified Back Contact Interface of CZTSe Thin Film Solar Cells: Elimination of Double Layer Distribution in Absorber Layer. Advanced Science, 2018, 5, 1700645.	11.2	51
23	An efficient Li⁺-doping strategy to optimize the band alignment of a Cu₂ZnSn(S,Se)₄/CdS interface by a Se&LiF co-selenization process. Journal of Materials Chemistry A, 2020, 8, 22065-22074.	10.3	51
24	Ab initio structure determination of novel borate NaSrBO3. Journal of Solid State Chemistry, 2006, 179, 1219-1224.	2.9	50
25	Substrate structured Sb2S3 thin film solar cells fabricated by rapid thermal evaporation method. Solar Energy, 2019, 182, 64-71.	6.1	49
26	Advances in kesterite Cu2ZnSn(S, Se)4 solar cells. Science Bulletin, 2020, 65, 698-701.	9.0	49
27	Nâ€Type Surface Design for pâ€Type CZTSSe Thin Film to Attain High Efficiency. Advanced Materials, 2021, 33, e2104330.	21.0	49
28	Interfaces of high-efficiency kesterite Cu 2 ZnSnS(e) 4 thin film solar cells. Chinese Physics B, 2018, 27, 018803.	1.4	48
29	Optical spectra of Ln3+(Nd3+, Sm3+, Dy3+, Ho3+, Er3+)-doped Y3GaO6. Journal of Luminescence, 2005, 111, 61-68.	3.1	47
30	Efficient Optimization of the Performance of Mn²⁺â€Doped Kesterite Solar Cell: Machine Learning Aided Synthesis of High Efficient Cu₂(Mn,Zn)Sn(S,Se)₄ Solar Cells. Solar Rrl, 2018, 2, 1800198.	5.8	46
31	A thermodynamic assessment of the copperâ€“gallium system. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2008, 32, 447-453.	1.6	45
32	Structure, morphology and properties of thinned Cu(In, Ga)Se₂films and solar cells. Semiconductor Science and Technology, 2012, 27, 035022.	2.0	45
33	On the growth process of Cu2ZnSn(S,Se)4 absorber layer formed by selenizing Cuâ€“ZnSâ€“SnS precursors and its photovoltaic performance. Solar Energy Materials and Solar Cells, 2015, 132, 363-371.	6.2	45
34	Sm³⁺ and Eu³⁺ codoped SrBi₂B₂O₇: a red-emitting phosphor with improved thermal stability. RSC Advances, 2017, 7, 1146-1153.	3.6	43
35	Coexistence of self-reduction from Mn⁴⁺to Mn²⁺and elastico-mechanoluminescence in diphase KZn(PO₃)₃:Mn²⁺. Journal of Materials Chemistry C, 2019, 7, 7096-7103.	5.5	43
36	Interfacial Engineering of Wideâ€Bandgap Perovskites for Efficient Perovskite/CZTSSe Tandem Solar Cells. Advanced Functional Materials, 2022, 32, 2107359.	14.9	43

#	ARTICLE	IF	CITATIONS
37	Impact of the Electronâ€Transport Layer on the Performance of Solutionâ€Processed Smallâ€Molecule Organic Solar Cells. ChemSusChem, 2014, 7, 2358-2364.	6.8	40
38	Synthesis and performance of Cu2ZnSnS4 semiconductor as photocathode for solar water splitting. Journal of Alloys and Compounds, 2016, 688, 923-932.	5.5	38
39	Hole-selective NiO:Cu contact for NiO/Si heterojunction solar cells. Journal of Alloys and Compounds, 2018, 747, 563-570.	5.5	38
40	Site occupancy and photoluminescence of Sm^3+ in KSr_4(BO_3)_3:Sm^3+ phosphors. Optical Materials Express, 2014, 4, 1535.	3.0	37
41	Carbon concentration dependent grain growth of Cu₂ZnSnS₄ thin films. RSC Advances, 2015, 5, 20178-20185.	3.6	37
42	Insight into the role of post-annealing in air for high efficient Cu2ZnSn(S,Se)4 solar cells. Solar Energy Materials and Solar Cells, 2018, 182, 228-236.	6.2	37
43	Tailoring Mo(S,Se)2 structure for high efficient Cu2ZnSn(S,Se)4 solar cells. Solar Energy Materials and Solar Cells, 2018, 176, 302-309.	6.2	37
44	Engineering CIGS grains qualities to achieve high efficiency in ultrathin Cu(In Ga1âˆ')Se2 solar cells with a single-gradient band gap profile. Results in Physics, 2019, 12, 704-711.	4.1	37
45	ZnS thin film deposited with chemical bath deposition process directed by different stirring speeds. Applied Surface Science, 2010, 256, 6871-6875.	6.1	36
46	Structure Determination and Relative Properties of Novel Chiral Orthoborate KMgBO₃. Inorganic Chemistry, 2010, 49, 2715-2720.	4.0	36
47	Pulse electro-deposition of copper on molybdenum for Cu(In,Ga)Se2 and Cu2ZnSnSe4 solar cell applications. Journal of Power Sources, 2016, 326, 211-219.	7.8	36
48	Influence of negative ion resputtering on Al-doped ZnO thin films prepared by mid-frequency magnetron sputtering. Applied Surface Science, 2010, 256, 1694-1697.	6.1	35
49	Site occupancy and photoluminescence properties of Eu³⁺-activated Ba₂ZnB₂O₆ phosphor. RSC Advances, 2014, 4, 64244-64251.	3.6	35
50	Formation of the front-gradient bandgap in the Ag doped CZTSe thin films and solar cells. Journal of Energy Chemistry, 2019, 35, 188-196.	12.9	35
51	Self-Reduction-Related Defects, Long Afterglow, and Mechanoluminescence in Centrosymmetric Li₂ZnGeO₄:Mn²⁺. Inorganic Chemistry, 2021, 60, 18432-18441.	4.0	33
52	Na-doping-induced modification of the Cu2ZnSn(S,Se)4/CdS heterojunction towards efficient solar cells. Journal of Energy Chemistry, 2021, 57, 618-626.	12.9	32
53	Thinâ€Film Solar Cells: Cation Substitution in Earthâ€Abundant Kesterite Photovoltaic Materials (Adv. Sci.) Tj ETQq1 1 0.784314 rgBT	11.2	31
54	Band bending near grain boundaries of Cu2ZnSn(S,Se)4 thin films and its effect on photovoltaic performance. Nano Energy, 2018, 51, 37-44.	16.0	30

#	Article	IF	Citations
55	Crystal structure, magnetic and electrical-transport properties of rare-earth-doped Sr2FeMoO6. Physica B: Condensed Matter, 2006, 381, 233-238.	2.7	29
56	Effect of Na on lower open circuit voltage of flexible CIGS thin-film solar cells prepared by the low-temperature process. Physica Scripta, 2012, 85, 055806.	2.5	29
57	Restraining the Band Fluctuation of CBDâ€Zn(O,S) Layer: Modifying the Heteroâ€Junction Interface for High Performance Cu₂ZnSnSe₄ Solar Cells With Cdâ€Free Buffer Layer. Solar Rrl, 2017, 1, 1700075.	5.8	29
58	The Na2Oâ€"SrOâ€"B2O3 diagram in the B-rich part and the crystal structure of NaSrB5O9. Journal of Solid State Chemistry, 2007, 180, 1470-1475.	2.9	28
59	Adjustment of alkali element incorporations in Cu(In,Ga)Se2 thin films with wet chemistry Mo oxide as a hosting reservoir. Solar Energy Materials and Solar Cells, 2018, 174, 16-24.	6.2	28
60	Intrinsic and extrinsic defects build a novel mechanoluminescent phosphor Na₂MgGeO₄:Mn²⁺. Journal of Materials Chemistry C, 2021, 9, 3513-3521.	5.5	28
61	The influence of cracked selenium flux on CIGS thin film growth and device performance prepared by two-step selenization processes. Solar Energy Materials and Solar Cells, 2015, 139, 108-114.	6.2	27
62	Abnormal luminescent property of Mn²⁺ in Î±-LiZnBO₃:Mn²⁺. Dalton Transactions, 2015, 44, 1427-1434.	3.3	27
63	Over 10% Efficient Pure CZTSe Solar Cell Fabricated by Electrodeposition with Ge Doping. Solar Rrl, 2020, 4, 2000059.	5.8	27
64	Experimental Relation between Stranskiâˆ'Krastanov Growth of DIP/F₁₆CoPc Heterostructures and the Reconstruction of the Organic Interface. Journal of Physical Chemistry C, 2009, 113, 4234-4239.	3.1	26
65	Crystal Structure of High-Temperature Phase Î²-NaSrBO₃ and Photoluminescence of Î²-NaSrBO₃:Ce³⁺. Inorganic Chemistry, 2016, 55, 6487-6495.	4.0	25
66	Interstitial oxygen defect induced mechanoluminescence in KCa(PO₃)₃:Mn²⁺. Journal of Materials Chemistry C, 2020, 8, 6587-6594.	5.5	25
67	Defects and Surface Electrical Property Transformation Induced by Elemental Interdiffusion at the pâ€"n Heterojunction via High-Temperature Annealing. ACS Applied Materials & Interfaces, 2021, 13, 12211-12220.	8.0	25
68	Development of textured back reflector for nâ€"iâ€"p flexible silicon thin film solar cells. Solar Energy Materials and Solar Cells, 2010, 94, 709-714.	6.2	24
69	Effects of metal ion concentration on electrodeposited CuZnSn film and its application in kesterite Cu₂ZnSnS₄ solar cells. RSC Advances, 2015, 5, 65114-65122.	3.6	23
70	Barrier effect of AlN film in flexible Cu(In,Ga)Se2 solar cells on stainless steel foil and solar cell. Journal of Alloys and Compounds, 2015, 627, 1-6.	5.5	21
71	Controllable Growth of Ga Film Electrodeposited from Aqueous Solution and Cu(In,Ga)Se₂ Solar Cells. ACS Applied Materials & Interfaces, 2017, 9, 18682-18690.	8.0	21
72	Roomâ€Temperature Surface Sulfurization for Highâ€Performance Kesterite CZTSe Solar Cells. Solar Rrl, 2019, 3, 1800236.	5.8	21

#	Article	IF	Citations
73	Defect Control for Highâ€Efficiency Cu₂ZnSn(S,Se)₄ Solar Cells by Atomic Layer Deposition of Al₂O₃ on Precursor Film. Solar Rrl, 2021, 5, 2100181.	5.8	21
74	Structures of the Î¶ and Î¶â€² phases in the Agâ€"Ga system. Journal of Alloys and Compounds, 2005, 399, 155-159.	5.5	20
75	Thermodynamic assessment of the Agâ€"Ga system. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2006, 30, 316-322.	1.6	20
76	New Insight into the Role of the Interfacial Molecular Structure on Growth and Scaling in Organic Heterostructures. Journal of Physical Chemistry C, 2010, 114, 13752-13758.	3.1	20
77	Controlled synthesis of hierarchical zeolitic imidazolate framework-GIS (ZIF-GIS) architectures. CrystEngComm, 2012, 14, 8280.	2.6	20
78	Energy transfer between Ce^3+ and Tb^3+ and the enhanced luminescence of a green phosphor SrB_2O_4:Ce^3+, Tb^3+, Na^+. Optical Materials Express, 2016, 6, 1172.	3.0	20
79	Analysis of the structure and abnormal photoluminescence of a red-emitting LiMgBO₃:Mn²⁺ phosphor. Dalton Transactions, 2018, 47, 13094-13105.	3.3	20
80	Synergistic effect of Na and Se on CZTSe solar cells through a soft chemical process. Solar Energy Materials and Solar Cells, 2019, 198, 35-43.	6.2	20
81	High-efficiency ultra-thin Cu2ZnSnS4 solar cells by double-pressure sputtering with spark plasma sintered quaternary target. Journal of Energy Chemistry, 2021, 61, 186-194.	12.9	20
82	Remarkable Sb₂Se₃ Solar Cell with a Carbon Electrode by Tailoring Film Growth during the VTD Process. ACS Applied Energy Materials, 2021, 4, 13335-13346.	5.1	20
83	Oxygen vacancy content drives self-reduction and anti-thermal quenching. Journal of Materials Chemistry C, 2022, 10, 4317-4326.	5.5	20
84	Characterization and photoluminescence of AlN:Eu films. Optical Materials, 2006, 28, 1029-1036.	3.6	19
85	Crystal structure and photoluminescence of Tb3+ doped Y3GaO6. Journal of Alloys and Compounds, 2006, 425, 278-283.	5.5	18
86	Role of Intrinsic Surface States in Efficiency Attenuation of GaNâ€Based Microâ€Lightâ€Emittingâ€Diodes. Physica Status Solidi - Rapid Research Letters, 2021, 15, 2000487.	2.4	18
87	Interface Etching Leads to the Inversion of the Conduction Band Offset between the CdS/Sb₂Se₃ Heterojunction and High-Efficient Sb₂Se₃ Solar Cells. ACS Applied Energy Materials, 2022, 5, 2531-2541.	5.1	18
88	Structural, magnetic and transport properties of double perovskite compounds (Sr2â^'3xLa2xBax)FeMoO6. Physica B: Condensed Matter, 2005, 370, 228-235.	2.7	17
89	Remarkable Cd-free Sb₂Se₃ solar cell yield achieved by interface band-alignment and growth orientation screening. Journal of Materials Chemistry A, 2021, 9, 26963-26975.	10.3	17
90	Visible and infrared emissions from c-axis oriented AlN:Er films grown by magnetron sputtering. Journal of Applied Physics, 2006, 99, 053515.	2.5	16

#	ARTICLE	IF	CITATIONS
91	Effect of different thermo-treatment at relatively low temperatures on the properties of indiumâ€'tin-oxide thin films. Thin Solid Films, 2017, 636, 702-709.	1.8	16
92	Promising Cd-free double buffer layer in CZTSSe thin film solar cells. Science China Materials, 2021, 64, 288-295.	6.3	16
93	Construction of a novel mechanoluminescent phosphor Li₂MgGeO₄:<i>x</i>Mn²⁺ by defect control. Dalton Transactions, 2021, 50, 8803-8810.	3.3	16
94	Influence of V substitution for Fe on the transport and magnetic properties of Sr2FeMoO6. Solid State Communications, 2005, 133, 223-227.	1.9	15
95	Nanoscale Surface Electrical Properties Tailored by Roomâ€Temperature Sulfurization for Highâ€Efficient CZTSe Solar Cells. Advanced Materials Interfaces, 2020, 7, 2000564.	3.7	15
96	Effect of MoS2 interlayer on performances of copper-barium-tin-sulfur thin film solar cells via theoretical simulation. Solar Energy, 2021, 223, 384-397.	6.1	15
97	Li2S doping into CZTSe drives the large improvement of VOC of solar cell. Journal of Energy Chemistry, 2021, 62, 637-644.	12.9	15
98	Subsolidus phase relations of the Cuâ€"Gaâ€"N system. Journal of Alloys and Compounds, 2007, 438, 158-164.	5.5	14
99	Reactive Mechanism of Cu2ZnSnSe4 Thin Films Prepared by Reactive Annealing of the Cu/Zn Metal Layer in a SnSex + Se Atmosphere. Crystals, 2019, 9, 10.	2.2	14
100	A Novel Metal Precursor Structure for Electrodepositing Ultrathin CIGSe Thin-Film Solar Cell with High Efficiency. ACS Applied Materials & Interfaces, 2020, 12, 24403-24410.	8.0	14
101	Intense green elastico-mechanoluminescence from KZn(PO3)3:Tb3+. Applied Physics Letters, 2020, 116, .	3.3	14
102	Interface Modification Uncovers the Potential Application of SnO₂/TiO₂ Double Electron Transport Layer in Efficient Cadmiumâ€Free Sb₂Se₃ Devices. Advanced Materials Interfaces, 2022, 9, .	3.7	14
103	Comparative study of the role of Ga in CIGS solar cells with different thickness. Thin Solid Films, 2016, 598, 189-194.	1.8	13
104	A Precursor Stacking Strategy to Boost Open-Circuit Voltage of Cu₂ZnSnS₄Thin-Film Solar Cells. IEEE Journal of Photovoltaics, 2018, 8, 856-863.	2.5	13
105	Efficiency Enhancement of CIGS Solar Cells via Recombination Passivation. ACS Applied Energy Materials, 2020, 3, 9459-9467.	5.1	13
106	Tuning the Work Function of the Metal Back Contact toward Efficient Cu₂ZnSnSe₄ Solar Cells. Solar Rrl, 2021, 5, .	5.8	13
107	Intense Luminescence and Good Thermal Stability in a Mn²⁺-Activated Mg-Based Phosphor with Self-Reduction. Inorganic Chemistry, 2022, 61, 5495-5501.	4.0	13
108	Optical properties of (Y1âˆ'xTmx)3GaO6 and subsolidus phase relation of Y2O3â€"Ga2O3â€"Tm2O3. Journal of Solid State Chemistry, 2005, 178, 1064-1070.	2.9	12

#	Article	IF	Citations
109	Phase relations of the Agâ€“Gaâ€“N system. Journal of Alloys and Compounds, 2007, 429, 184-191.	5.5	12
110	Influence of Cu on Ga diffusion during post-selenizing the electrodeposited Cu/In/Ga metallic precursor process. Solar Energy Materials and Solar Cells, 2018, 182, 92-97.	6.2	11
111	Double interface modification promotes efficient Sb2Se3 solar cell by tailoring band alignment and light harvest. Journal of Energy Chemistry, 2022, 70, 191-200.	12.9	11
112	Phase stability, crystal structure, and magnetic properties of NdCo7âˆ’xHfx compounds. Physica B: Condensed Matter, 2004, 353, 98-103.	2.7	10
113	Crystallographic and magnetic studies on iron-rich mixed rare-earth intermetallics (Nd/Tb)2(Fe/Al)17. Journal of Alloys and Compounds, 2006, 407, 1-7.	5.5	10
114	Structure refinement and one-center luminescence of Eu3+ activated ZnBi2B2O7 under UV excitation. Journal of Alloys and Compounds, 2015, 648, 500-506.	5.5	10
115	Back contact modification of the optoelectronic device with transition metal dichalcogenide VSe2 film drives solar cell efficiency. Journal of Materiomics, 2021, 7, 470-477.	5.7	10
116	Photoluminescence and characteristics of terbium-doped AlN film prepared by magnetron sputtering. Applied Surface Science, 2005, 245, 391-399.	6.1	9
117	Insight into band alignment of Zn(O,S)/CZTSe solar cell by simulation. Chinese Physics B, 2019, 28, 048801.	1.4	9
118	A promising photovoltaic material Cu2MnSn(S,Se)4: Film growth and its application in solar cell. Solar Energy Materials and Solar Cells, 2021, 219, 110788.	6.2	9
119	Band alignment tuning at Mo/CZTS back contact interface through surface oxidation states control of Mo substrate. Solar Energy Materials and Solar Cells, 2021, 229, 111141.	6.2	9
120	Influence of rare earth mixing on structural and magnetic properties of Nd2âˆ’xErxFe17 compounds. Journal of Alloys and Compounds, 2006, 419, 15-20.	5.5	8
121	Hole doping effects in (Sr2-xNax)FeMoO6 double perovskite. Applied Physics A: Materials Science and Processing, 2006, 84, 459-463.	2.3	8
122	Preferred orientation of Cu(In,Ga)Se₂ thin film deposited on stainless steel substrate. Progress in Photovoltaics: Research and Applications, 2013, 21, 838-848.	8.1	8
123	Modified co-evaporation process for fabrication of 4 cm Ã— 4 cm large area flexible CIGS thin film solar cells on polyimide substrate. Materials Research Express, 2015, 2, 046403.	1.6	8
124	Two-step growth of VSe₂ films and their photoelectric properties*. Chinese Physics B, 2019, 28, 058101.	1.4	8
125	Optimizing the thickness of sputtering-Zn(O, S) buffer layer for all-dry Cd-free CIGS solar cells. Materials Research Express, 2019, 6, 086431.	1.6	8
126	Oxygen Promotes the Formation of MoSe₂ at the Interface of Cu₂ZnSnSe₄/Mo. Journal of Physical Chemistry Letters, 2021, 12, 4447-4452.	4.6	8

#	Article	IF	Citations
127	Optimization of the Selenization Pressure Enabling Efficient Cu₂ZnSn(S,Se)₄ Solar Cells. Solar Rrl, 2022, 6, .	5.8	8
128	Crystal structure and magnetic properties of PrCo6.8ÂxCuxHf0.2compounds. Journal Physics D: Applied Physics, 2004, 37, 1881-1884.	2.8	7
129	Triangle islands and cavities on the surface of evaporated Cu(In, Ga)Se2 absorber layer. Applied Surface Science, 2012, 258, 9747-9750.	6.1	7
130	The role of growth temperature and Se flux on Cu(In,Ga)Se2thin film deposited on a stainless steel substrate and solar cell. Semiconductor Science and Technology, 2012, 27, 065007.	2.0	7
131	The influence of pre-heating temperature on the CIGS thin film growth and device performance prepared in cracked-Se atmosphere. Semiconductor Science and Technology, 2015, 30, 105012.	2.0	7
132	Enhancing Surface Properties for Electrodeposited Cu(In,Ga)Se₂ Films by (NH₄)₂S Solution at Room Temperature. ACS Applied Energy Materials, 2021, 4, 3822-3831.	5.1	7
133	Enhancing the Photovoltaic Performance of Cu₂ZnSn(S,Se)₄ Solar Cells with Ba Trace Doping: Large Chemical Mismatch Cation Incorporation. Solar Rrl, 2021, 5, 2100607.	5.8	7
134	Efficiency improvement of electrodeposition-processed Cu(In,Ga)Se2 solar cell with widen surface bandgap by spin-coating In2S3 thin film. Applied Surface Science, 2022, 578, 152063.	6.1	7
135	Crystal structure and magnetic properties of Nd4Ga2O9 and Sm4Ga2O9. Journal of Alloys and Compounds, 2004, 381, 26-31.	5.5	6
136	Low-temperature preparation of flexible a-Si:H solar cells with hydrogenated nanocrystalline silicon p layer. Vacuum, 2012, 86, 1477-1481.	3.5	6
137	The effects of sodium on the growth of Cu(In,Ga)Se₂ thin films using low-temperature three-stage process on polyimide substrate. Journal Physics D: Applied Physics, 2014, 47, 045105.	2.8	6
138	Modified crystal quality of Cu(In,Ga)Se2 solar cells: Elimination of island-shaped indium layer by pulse current electrodeposition method. Journal of Alloys and Compounds, 2018, 766, 178-185.	5.5	6
139	Current improvement in substrate structured Sb2S3 solar cells with MoSe2 interlayer. Chinese Physics B, 2020, 29, 058801.	1.4	6
140	Effect of Cu content in CIGSe absorber on MoSe2 formation during post-selenization process. Materials Science in Semiconductor Processing, 2021, 121, 105275.	4.0	6
141	Investigation on the Structure and Morphology of CZTSe Solar Cells by Adjusting Cuâ€"Ge Buffer Layers. ACS Applied Energy Materials, 2021, 4, 11793-11801.	5.1	6
142	Thermodynamic analysis of Mg-doped p-type GaN semiconductor. Journal of Alloys and Compounds, 2006, 422, 279-282.	5.5	5
143	CuInSe ₂ Films Prepared by a Plasma-Assisted Selenization Process in Different Working Pressures. Chinese Physics Letters, 2010, 27, 028101.	3.3	5
144	Improvement of the recombination and infrared light losses by rear surface chemical polishing in silicon heterojunction solar cells. Applied Physics A: Materials Science and Processing, 2017, 123, 1.	2.3	5

#	ARTICLE	IF	CITATIONS
145	New Solution-Processed Surface Treatment to Improve the Photovoltaic Properties of Electrodeposited Cu(In,Ga)Se₂ (CIGSe) Solar Cells. ACS Applied Materials & Interfaces, 2021, 13, 25451-25460.	8.0	5
146	Effects of iron substitution on magnetic properties of SmCo6.8ÂxFexHf0.2compounds. Journal of Physics Condensed Matter, 2004, 16, 4963-4969.	1.8	4
147	Recent Progress on Cu 2 BaSn(S x Se 1â€“ x) 4 : From Material to Solar Cell Applications. Physica Status Solidi (A) Applications and Materials Science, 2020, 217, 2000060.	1.8	4
148	Formation, structure and magnetic properties of TbFe12â^'xMox (x=0.5â€"3.0) compounds. Physica B: Condensed Matter, 2005, 369, 56-63.	2.7	3
149	Crystal structure and spin reorientation transition of Tb1â^'xYxFe11Mo compounds. Journal Physics D: Applied Physics, 2006, 39, 615-620.	2.8	3
150	Electrodeposition of Cu thin film assisted by Cu nanoparticles for Cu2ZnSnSe4 solar cell applications. Applied Physics A: Materials Science and Processing, 2019, 125, 1.	2.3	3
151	Crystal structure and magnetic properties of Nd1â^'xYxCo6.8Zr0.2 compounds. Journal of Alloys and Compounds, 2005, 394, 69-74.	5.5	2
152	Pulsed rapid thermal process for tailoring the surface sulfurization of CIGSe thin film at low temperature. Solar Energy Materials and Solar Cells, 2021, 221, 110871.	6.2	2
153	Crystal structure and magnetic properties of Nd1â^'xYxCo6.86Hf0.14 compounds. Journal of Magnetism and Magnetic Materials, 2005, 292, 178-185.	2.3	1
154	Structure and magnetic phase diagram of mixed rare-earth Nd1â^'xTbxFe10.5Mo1.5 compounds. Journal of Magnetism and Magnetic Materials, 2006, 302, 467-472.	2.3	1
155	Structural study of nonlinear optical borates K1â^'xNaxSr4(BO3)3 (xâ‰0.5). Powder Diffraction, 2010, 25, S11-S16.	0.2	1
156	Finite element simulation and experimental research on ZnO:Al by magnetron sputtering. Thin Solid Films, 2011, 520, 887-890.	1.8	1
157	Dynamic scaling and optical properties of Zn(S, O, OH) thin film grown by chemical bath deposition. Chinese Physics B, 2011, 20, 116802.	1.4	1
158	Morphology Modification of Sn and Zn Metal Thin Films Applied for CZTSe Solar Cell: the Effect of Pulse Current Electrodeposition. , 2018, , .		1
159	Lowâ€Temperature Growth of Submicron Cu(In, Ga)Se₂ Solar Cells Based on Molybdenum Oxide Back Interface Layer. Physica Status Solidi (A) Applications and Materials Science, 2019, 216, 1800378.	1.8	1
160	Pulse Selenization in Cu(In,Ga)Se2 Solar Cells: A Promising Approach to Achieve High Efficiency by Electrodeposition. ACS Applied Energy Materials, 2021, 4, 8322-8329.	5.1	1
161	Optimization of Zn 1â€“ x Sn x O Buffer Layer for Application in CZTSe Solar Cells with H 2 â€Assisted Reactive Sputtering. Physica Status Solidi (A) Applications and Materials Science, 0, , 2100585.	1.8	1
162	Structural analysis of Cu(In1-xGax)Se2 multi-layer thin film solar cells. Wuli Xuebao/Acta Physica Sinica, 2012, 61, 228801.	0.5	1

#	ARTICLE	IF	CITATIONS
163	Al-doped ZnO thin films with excellent optoelectronic properties prepared using H2-assisted reactive magnetron sputtering at low temperatures for potential application in photovoltaic devices. Journal of Materials Science: Materials in Electronics, 2022, 33, 10267-10277.	2.2	1
164	Wide bandgap CIGS thin films via Ag-PDT to ameliorate the interface quality of CIGS/CdS heterojunction. Journal of Materials Science: Materials in Electronics, 2022, 33, 11055.	2.2	1
165	Li+ doping induced zero-thermal quenching in Cs3Zn6â€“â€“B9O21:xEu3+,yLi+ (0 â‰ x â‰ 0.10, 0.06 â‰ y â‰ 0.16). Journal of Rare Earths, 2023, 41, 1478-1486.	4.8	1
166	Artificial twin-layer configurations of Zn(O,S) films by radio frequency sputtering in all dry processed eco-friendly Cu(In,Ga)Se₂ solar cells. Journal Physics D: Applied Physics, 2018, 51, 105502.	2.8	0
167	Modifying the Hetero-junction Interface of Cu<inf>2</inf>ZnSnSe<inf>4</inf> Solar Cells. , 2018, , .		0
168	Research on sodium incorporation methods of growing Cu(In-Ga)Se2 thin film by low-temperature deposition. Wuli Xuebao/Acta Physica Sinica, 2012, 61, 198801.	0.5	0
169	10.1063/1.5134712.1. , 2020, , .		0