

Fang-Yang Liu

List of Publications by Year in descending order

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44444

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docs citations

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times ranked

8430
citing authors

#	ARTICLE	IF	CITATIONS
1	Sulfur vacancy engineering of MoS ₂ via phosphorus incorporation for improved electrocatalytic N ₂ reduction to NH ₃ . Applied Catalysis B: Environmental, 2022, 300, 120733.	10.8	85
2	Highly Efficient Electrocatalytic N ₂ Reduction to Ammonia over Metallic 1T Phase of MoS ₂ Enabled by Active Sites Separation Mechanism. Advanced Science, 2022, 9, e2103583.	5.6	31
3	Dual-layer vermiculite nanosheet based hybrid film to suppress dendrite growth in lithium metal batteries. Journal of Energy Chemistry, 2022, 69, 205-210.	7.1	23
4	Low-Cost Fabrication of Sb ₂ S ₃ Solar Cells: Direct Evaporation from Raw Stibnite Ore. Solar Rrl, 2022, 6, .	3.1	11
5	11.39% efficiency Cu ₂ ZnSn(S,Se) ₄ solar cells from scrap brass. SusMat, 2022, 2, 206-211.	7.8	2
6	Synergistic defect- and interfacial-engineering of a Bi ₂ S ₃ -based nanoplate network for high-performance photoelectrochemical solar water splitting. Journal of Materials Chemistry A, 2022, 10, 7830-7840.	5.2	13
7	Regeneration of Al-doped LiNi _{0.5} Co _{0.2} Mn _{0.3} O ₂ cathode material by simulated hydrometallurgy leachate of spent lithium-ion batteries. Transactions of Nonferrous Metals Society of China, 2022, 32, 593-603.	1.7	15
8	Ultra-fine Sb ₂ S ₃ particles encapsulated in activated-carbon: A high-performance anode for Li-ion batteries. Journal of Alloys and Compounds, 2022, 907, 164469.	2.8	3
9	Perovskite Quantum Dot Solar Cells Fabricated from Recycled Lead-Acid Battery Waste. , 2022, 4, 120-127.		7
10	Nanoscale interface engineering of inorganic Solid-State electrolytes for High-Performance alkali metal batteries. Journal of Colloid and Interface Science, 2022, 621, 41-66.	5.0	12
11	The integration structure enhances performance of perovskite solar cells. Science Bulletin, 2021, 66, 310-313.	4.3	2
12	Perovskite-based tandem solar cells. Science Bulletin, 2021, 66, 621-636.	4.3	91
13	A two-dimension laminar composite protective layer for dendrite-free lithium metal anode. Journal of Energy Chemistry, 2021, 56, 391-394.	7.1	26
14	Enhanced photoelectrochemical degradation of tetracycline hydrochloride with FeOOH and Au nanoparticles decorated WO ₃ . Chemical Engineering Journal, 2021, 407, 127195.	6.6	59
15	Stable alkali metal anodes enabled by crystallographic optimization – a review. Journal of Materials Chemistry A, 2021, 9, 20957-20984.	5.2	32
16	Anode Electrolysis of Manganese Dioxide in Photoelectrochemical Cells. Jom, 2021, 73, 2479.	0.9	1
17	Ambient air-processed Cu ₂ ZnSn(S,Se) ₄ solar cells with over 12% efficiency. Science Bulletin, 2021, 66, 880-883.	4.3	27
18	Enhancing the performance of Cu ₂ ZnSnS ₄ solar cell fabricated via successive ionic layer adsorption and reaction method by optimizing the annealing process. Solar Energy, 2021, 220, 204-210.	2.9	7

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19	Bi ₂ O _{2.33} Nanostructure-Based Photoanodes for Photoelectrochemical Determination of Trace Soluble Sulfides. ACS Applied Nano Materials, 2021, 4, 5778-5784.	2.4	8
20	Magnetron sputtering Al-Sc alloying layer gifts long cycle life for lithium metal batteries. Materials Letters, 2021, 294, 129705.	1.3	1
21	Boosting the Electrochemical Performance of All-Solid-State Batteries with Sulfide Li ₆ PS ₅ Cl Solid Electrolyte Using Li ₂ WO ₄ -Coated LiCoO ₂ Cathode. Advanced Materials Interfaces, 2021, 8, 2100624.	1.9	20
22	Sb ₂ S ₃ nanorods/porous-carbon composite from natural stibnite ore as high-performance anode for lithium-ion batteries. Transactions of Nonferrous Metals Society of China, 2021, 31, 2051-2061.	1.7	14
23	A Green Lead Recycling Strategy from Used Lead Acid Batteries for Efficient Inverted Perovskite Solar Cells. Journal of Physical Chemistry Letters, 2021, 12, 9595-9601.	2.1	6
24	Porous Heteroatom-Doped Ti ₃ C ₂ T _x MXene Microspheres Enable Strong Adsorption of Sodium Polysulfides for Long-Life Room-Temperature Sodium-Sulfur Batteries. ACS Nano, 2021, 15, 16207-16217.	7.3	46
25	Sulfurized polyacrylonitrile cathodes with electrochemical and structural tuning for high capacity all-solid-state lithium-sulfur batteries. Sustainable Energy and Fuels, 2021, 5, 5603-5614.	2.5	8
26	Insights on the Properties of the O-Doped Argyrodite Sulfide Solid Electrolytes (Li ₆ PS ₅ ClO _x , x=0-1). ACS Applied Materials & Interfaces, 2021, 13, 54924-54935.	4.0	32
27	A comprehensive hydrometallurgical recycling approach for the environmental impact mitigation of EoL solar cells. Journal of Environmental Chemical Engineering, 2021, 9, 106830.	3.3	17
28	Preparation and characterization of a novel and recyclable InVO ₄ /ZnFe ₂ O ₄ composite for methylene blue removal by adsorption and visible-light photocatalytic degradation. Applied Surface Science, 2020, 501, 144006.	3.1	55
29	Carbon quantum dots sensitized Bi ₂ O ₃ photoanode with enhanced photoelectrocatalytic properties. Chemical Physics Letters, 2020, 739, 137025.	1.2	9
30	Emerging inorganic compound thin film photovoltaic materials: Progress, challenges and strategies. Materials Today, 2020, 41, 120-142.	8.3	81
31	Advances in kesterite Cu ₂ ZnSn(S, Se) ₄ solar cells. Science Bulletin, 2020, 65, 698-701.	4.3	49
32	Defect Control for 12.5% Efficiency Cu ₂ ZnSnSe ₄ Kesterite Thin-Film Solar Cells by Engineering of Local Chemical Environment. Advanced Materials, 2020, 32, e2005268.	11.1	133
33	Electrochemical behavior simulation of high specific energy power lithium-ion batteries based on numerical model. Ionics, 2020, 26, 5513-5523.	1.2	6
34	Reductive acid leaching of valuable metals from spent lithium-ion batteries using hydrazine sulfate as reductant. Transactions of Nonferrous Metals Society of China, 2020, 30, 2256-2264.	1.7	26
35	Transition metal dichalcogenides in alliance with Ag ameliorate the interfacial connection between Li anode and garnet solid electrolyte. Journal of Power Sources, 2020, 468, 228379.	4.0	13
36	A Stable and Efficient Photocathode Using an Sb ₂ S ₃ Absorber in a Near-Neutral Electrolyte for Water Splitting. ACS Applied Energy Materials, 2020, 3, 6188-6194.	2.5	29

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37	Preparation of Sb ₂ O ₃ /Sb ₂ S ₃ /FeOOH composite photoanodes for enhanced photoelectrochemical water oxidation. Transactions of Nonferrous Metals Society of China, 2020, 30, 1625-1634.	1.7	14
38	Device Postannealing Enabling over 12% Efficient Solution-Processed Cu ₂ ZnSnS ₄ Solar Cells with Cd ²⁺ Substitution. Advanced Materials, 2020, 32, e2000121.	11.1	201
39	Simulation and parameter identification based on electrochemical-thermal coupling model of power lithium ion-battery. Journal of Alloys and Compounds, 2020, 844, 156003.	2.8	35
40	Integrated Photorechargeable Energy Storage System: Next-Generation Power Source Driving the Future. Advanced Energy Materials, 2020, 10, 1903930.	10.2	128
41	Quasi-Vertically-Orientated Antimony Sulfide Inorganic Thin-Film Solar Cells Achieved by Vapor Transport Deposition. ACS Applied Materials & Interfaces, 2020, 12, 22825-22834.	4.0	50
42	Sol-gel solution-processed Cu ₂ SrSnS ₄ thin films for solar energy harvesting. Thin Solid Films, 2020, 697, 137828.	0.8	14
43	High open-circuit voltage CuSbS ₂ solar cells achieved through the formation of epitaxial growth of CdS/CuSbS ₂ hetero-interface by post-annealing treatment. Progress in Photovoltaics: Research and Applications, 2019, 27, 37-43.	4.4	26
44	Improving the crystallization and carrier recombination of Cu ₂ ZnSnS ₄ thin film deposited on Mo-coated soda-lime glass by extra sodium doping through solution process. Materials Letters, 2019, 254, 50-53.	1.3	8
45	Amorphous Sb ₂ S ₃ Anodes by Reactive Radio Frequency Magnetron Sputtering for High-Performance Lithium-Ion Half/Full Cells. Energy Technology, 2019, 7, 1900928.	1.8	15
46	Photoelectrochemical Determination of Cu ²⁺ Using a WO ₃ /CdS Heterojunction Photoanode. ACS Applied Materials & Interfaces, 2019, 11, 37541-37549.	4.0	65
47	High-performance wide-bandgap copolymers with dithieno[3,2- <i>b</i> :2',3'- <i>d</i>]pyridin-5(4- <i>H</i>)-one units. Materials Chemistry Frontiers, 2019, 3, 399-402.	3.2	18
48	Cyclic Voltammetry Analysis of Co-Electrodeposition Mechanism of rGO-Sb ₂ Se ₃ Thin Films Photocathode. Journal of the Electrochemical Society, 2019, 166, D421-D426.	1.3	3
49	A two-terminal all-inorganic perovskite/organic tandem solar cell. Science Bulletin, 2019, 64, 885-887.	4.3	76
50	CsPb _{2.69} Br _{0.31} solar cells from low-temperature fabrication. Materials Chemistry Frontiers, 2019, 3, 1139-1142.	3.2	19
51	CsPb _{2.25} Br _{0.75} solar cells with 15.9% efficiency. Science Bulletin, 2019, 64, 507-510.	4.3	62
52	Rapid sintering of ceramic solid electrolytes LiZr ₂ (PO ₄) ₃ and Li _{1.2} Ca _{0.1} Zr _{1.9} (PO ₄) ₃ using a microwave sintering process at low temperatures. Ceramics International, 2019, 45, 11068-11072.	2.3	13
53	The effect of different Cu/Sn ratios on the properties of monoclinic Cu ₂ SnS ₃ thin films and solar cells fabricated by the sol-gel method. Journal of Materials Science: Materials in Electronics, 2019, 30, 4378-4384.	1.1	4
54	Solution-processed ultrathin SnO ₂ passivation of Absorber/Buffer Heterointerface and Grain Boundaries for High Efficiency Kesterite Cu ₂ ZnSnS ₄ Solar Cells. , 2019, , .		0

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55	Beyond 10% efficiency Cu ₂ ZnSnS ₄ solar cells enabled by modifying the heterojunction interface chemistry. <i>Journal of Materials Chemistry A</i> , 2019, 7, 27289-27296.	5.2	46
56	Catalytic effects of NH ₄ ⁺ on hydrogen evolution and manganese electrodeposition on stainless steel. <i>Transactions of Nonferrous Metals Society of China</i> , 2019, 29, 2430-2439.	1.7	10
57	Study on the Adhesion Force Between Ga-Doped ZnO Thin Films and Polymer Substrates. <i>Journal of Nanoscience and Nanotechnology</i> , 2019, 19, 240-244.	0.9	7
58	Fabrication of Sb ₂ S ₃ thin films by sputtering and post-annealing for solar cells. <i>Ceramics International</i> , 2019, 45, 3044-3051.	2.3	64
59	Construction of In ₂ Se ₃ /MoS ₂ heterojunction as photoanode toward efficient photoelectrochemical water splitting. <i>Chemical Engineering Journal</i> , 2019, 358, 752-758.	6.6	42
60	Graphene-Sb ₂ Se ₃ thin films photoelectrode synthesized by in situ electrodeposition. <i>Materials Letters</i> , 2018, 224, 109-112.	1.3	20
61	Efficiency Enhancement of Kesterite Cu ₂ ZnSnS ₄ Solar Cells via Solution-Processed Ultrathin Tin Oxide Intermediate Layer at Absorber/Buffer Interface. <i>ACS Applied Energy Materials</i> , 2018, 1, 154-160.	2.5	53
62	The effect of thermal evaporated MoO ₃ intermediate layer as primary back contact for kesterite Cu ₂ ZnSnS ₄ solar cells. <i>Thin Solid Films</i> , 2018, 648, 39-45.	0.8	34
63	Minority lifetime and efficiency improvement for CZTS solar cells via Cd ion soaking and post treatment. <i>Journal of Alloys and Compounds</i> , 2018, 750, 328-332.	2.8	31
64	Flexible kesterite Cu ₂ ZnSnS ₄ solar cells with sodium-doped molybdenum back contacts on stainless steel substrates. <i>Solar Energy Materials and Solar Cells</i> , 2018, 182, 14-20.	3.0	49
65	Boosting the kesterite Cu ₂ ZnSnS ₄ solar cells performance by diode laser annealing. <i>Solar Energy Materials and Solar Cells</i> , 2018, 175, 71-76.	3.0	27
66	Understanding the effect of Cadmium alloying in high-efficiency sulphide kesterite Cu ₂ Zn _x Cd _{1-x} SnS ₄ solar cell by PDS and HRSTEM. , 2018, , .		3
67	Sb ₂ O ₃ /Sb ₂ S ₃ Heterojunction Composite Thin Film Photoanode Prepared via Chemical Bath Deposition and Post-Sulfidation. <i>Journal of the Electrochemical Society</i> , 2018, 165, H1052-H1058.	1.3	10
68	ALD ZnSnO buffer layer for enhancing heterojunction interface quality of CZTS solar cells. , 2018, , .		0
69	Boosting the efficiency of kesterite Cu ₂ ZnSnS ₄ solar cells by optimizing the heterojunction interface quality. , 2018, , .		0
70	Towards 9% sulfide CZTS solar cells fabricated by a sol-gel process. , 2018, , .		5
71	Enhanced Heterojunction Interface Quality To Achieve 9.3% Efficient Cd-Free Cu ₂ ZnSnS ₄ Solar Cells Using Atomic Layer Deposition ZnSnO Buffer Layer. <i>Chemistry of Materials</i> , 2018, 30, 7860-7871.	3.2	66
72	Thermal-evaporated selenium as a hole-transporting material for planar perovskite solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2018, 185, 130-135.	3.0	22

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73	In situ growth of CuSbS ₂ thin films by reactive co-sputtering for solar cells. <i>Materials Science in Semiconductor Processing</i> , 2018, 84, 101-106.	1.9	13
74	Self-assembled Nanometer-Scale ZnS Structure at the CZTS/ZnCdS Heterointerface for High-Efficiency Wide Band Gap Cu ₂ ZnSnS ₄ Solar Cells. <i>Chemistry of Materials</i> , 2018, 30, 4008-4016.	3.2	37
75	The Role of Hydrogen from ALD Al ₂ O ₃ in Kesterite Cu ₂ ZnSnS ₄ Solar Cells: Grain Surface Passivation. <i>Advanced Energy Materials</i> , 2018, 8, 1701940.	10.2	68
76	Hydrogen evolution behavior of aluminum cathode in comparison with stainless steel for electrowinning of manganese in sulfate solution. <i>Hydrometallurgy</i> , 2018, 179, 245-253.	1.8	10
77	Effect of sulfurization temperature on the properties of CuIn(S,Se) ₂ thin films fabricated from electrodeposited CuInSe ₂ precursors. <i>Superlattices and Microstructures</i> , 2018, 122, 614-623.	1.4	3
78	Solution-Processed Trigonal Cu ₂ BaSnS ₄ Thin-Film Solar Cells. <i>ACS Applied Energy Materials</i> , 2018, 1, 3420-3427.	2.5	54
79	Cu ₂ ZnSnS ₄ solar cells with over 10% power conversion efficiency enabled by heterojunction heat treatment. <i>Nature Energy</i> , 2018, 3, 764-772.	19.8	623
80	Bioinspired fiber-like porous Cu/N/C electrocatalyst facilitating electron transportation toward oxygen reaction for metal-air batteries. <i>Nanoscale</i> , 2018, 10, 15819-15825.	2.8	30
81	Famatinite Cu ₃ Sb ₄ nanocrystals as hole transporting material for efficient perovskite solar cells. <i>Journal of Materials Chemistry C</i> , 2018, 6, 7989-7993.	2.7	20
82	Room-temperature deposition of flexible transparent conductive Ga-doped ZnO thin films by magnetron sputtering on polymer substrates. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 6093-6098.	1.1	6
83	Realization of nanostructured N-doped p-type Bi ₂ O ₃ thin films. <i>Materials Letters</i> , 2017, 193, 228-231.	1.3	16
84	In situ growth of Sb ₂ S ₃ thin films by reactive sputtering on n-Si(100) substrates for top sub-cell of silicon based tandem solar cells. <i>Materials Letters</i> , 2017, 195, 186-189.	1.3	25
85	Effects of Illumination on the Electrochemical Behavior of Selenium Electrodeposition on ITO Substrates. <i>Journal of the Electrochemical Society</i> , 2017, 164, H225-H231.	1.3	6
86	Spatial Grain Growth and Composition Evolution during Sulfurizing Metastable Wurtzite Cu ₂ ZnSnS ₄ Nanocrystal-Based Coatings. <i>Chemistry of Materials</i> , 2017, 29, 2110-2121.	3.2	11
87	Study on the adhesive mechanism between the Ga doped ZnO thin film and the polycarbonate substrate. <i>Materials Science in Semiconductor Processing</i> , 2017, 66, 105-108.	1.9	7
88	Colloidal synthesis and characterization of single-crystalline Sb ₂ Se ₃ nanowires. <i>RSC Advances</i> , 2017, 7, 24589-24593.	1.7	11
89	Light-Bias-Dependent External Quantum Efficiency of Kesterite Cu ₂ ZnSnS ₄ Solar Cells. <i>ACS Photonics</i> , 2017, 4, 1684-1690.	3.2	20
90	Beyond 11% Efficient Sulfide Kesterite Cu ₂ ZnCdSnS ₄ Solar Cell: Effects of Cadmium Alloying. <i>ACS Energy Letters</i> , 2017, 2, 930-936.	8.8	249

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91	Fabrication of Cu ₂ ZnSnS ₄ thin film solar cells by annealing of reactively sputtered precursors. Journal of Alloys and Compounds, 2017, 701, 55-62.	2.8	15
92	Hybrid Ag Nanowire@ITO as Transparent Conductive Electrode for Pure Sulfide Kesterite Cu ₂ ZnSnS ₄ Solar Cells. Journal of Physical Chemistry C, 2017, 121, 20597-20604.	1.5	14
93	Low-Temperature Solution Processed Random Silver Nanowire as a Promising Replacement for Indium Tin Oxide. ACS Applied Materials & Interfaces, 2017, 9, 34093-34100.	4.0	23
94	Polytype 1T/2H MoS ₂ heterostructures for efficient photoelectrocatalytic hydrogen evolution. Chemical Engineering Journal, 2017, 330, 102-108.	6.6	116
95	Characterization of Bi ₂ S ₃ thin films synthesized by an improved successive ionic layer adsorption and reaction (SILAR) method. Materials Letters, 2017, 209, 479-482.	1.3	11
96	Facile synthesis and photoelectrochemical characterization of Sb ₂ O ₃ nanoprism arrays. Journal of Alloys and Compounds, 2017, 727, 469-474.	2.8	22
97	Beyond 8% ultrathin kesterite Cu ₂ ZnSnS ₄ solar cells by interface reaction route controlling and self-organized nanopattern at the back contact. NPG Asia Materials, 2017, 9, e401-e401.	3.8	118
98	Boost Voc of pure sulfide kesterite solar cell via a double CZTS layer stacks. Solar Energy Materials and Solar Cells, 2017, 160, 7-11.	3.0	65
99	Fabrication of Efficient Cu ₂ ZnSnS ₄ Solar Cells by Sputtering Single Stoichiometric Target. Coatings, 2017, 7, 19.	1.2	16
100	Towards 10% State-of-the-Art Pure Sulfide Cu ₂ ZnSnS ₄ Solar Cell by modifying the Interface Chemistry. , 2017, , .		0
101	Fabrication of Cu ₂ ZnSn(S,Se) ₄ thin film solar cells by selenization of reactively sputtered precursors. Materials Letters, 2016, 182, 336-339.	1.3	5
102	Nanoscale Microstructure and Chemistry of Cu ₂ ZnSnS ₄ /CdS Interface in Kesterite Cu ₂ ZnSnS ₄ Solar Cells. Advanced Energy Materials, 2016, 6, 1600706.	10.2	113
103	The current status and future prospects of kesterite solar cells: a brief review. Progress in Photovoltaics: Research and Applications, 2016, 24, 879-898.	4.4	316
104	Over 9% Efficient Kesterite Cu ₂ ZnSnS ₄ Solar Cell Fabricated by Using Zn@CdS Buffer Layer. Advanced Energy Materials, 2016, 6, 1600046.	10.2	322
105	Large Voc improvement and 9.2% efficient pure sulfide Cu ₂ ZnSnS ₄ solar cells by heterojunction interface engineering. , 2016, , .		3
106	The electrochemical behavior of tellurium on stainless steel substrate in alkaline solution and the illumination effects. Journal of Electroanalytical Chemistry, 2016, 771, 17-22.	1.9	15
107	Shape and stoichiometry control of bismuth selenide nanocrystals in colloidal synthesis. RSC Advances, 2016, 6, 47840-47843.	1.7	10
108	Understanding the Key Factors of Enhancing Phase and Compositional Controllability for 6% Efficient Pure-Sulfide Cu ₂ ZnSnS ₄ Solar Cells Prepared from Quaternary Wurtzite Nanocrystals. Chemistry of Materials, 2016, 28, 3649-3658.	3.2	32

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109	Synthesis of Cu ₂ ZnSnS ₄ thin film from mixed solution of Cu ₂ SnS ₃ nanoparticles and Zn ions. Transactions of Nonferrous Metals Society of China, 2016, 26, 2102-2108.	1.7	0
110	Influence of sodium incorporation on kesterite Cu ₂ ZnSnS ₄ solar cells fabricated on stainless steel substrates. Solar Energy Materials and Solar Cells, 2016, 157, 565-571.	3.0	48
111	Photoelectrochemical properties of Bi ₂ S ₃ thin films deposited by successive ionic layer adsorption and reaction (SILAR) method. Journal of Alloys and Compounds, 2016, 686, 684-692.	2.8	33
112	In situ growth of SnS absorbing layer by reactive sputtering for thin film solar cells. RSC Advances, 2016, 6, 4108-4115.	1.7	53
113	Boosting the efficiency of pure sulfide CZTS solar cells using the In/Cd-based hybrid buffers. Solar Energy Materials and Solar Cells, 2016, 144, 700-706.	3.0	101
114	Highly efficient perovskite solar cells with precursor composition-dependent morphology. Solar Energy Materials and Solar Cells, 2016, 145, 231-237.	3.0	29
115	Fabrication of earth-abundant Cu ₂ ZnSn(S,Se) ₄ light absorbers by a sol-gel and selenization route for thin film solar cells. RSC Advances, 2016, 6, 6562-6570.	1.7	14
116	Efficient Planar Perovskite Solar Cells with Reduced Hysteresis and Enhanced Open Circuit Voltage by Using PW ₁₂ â€TiO ₂ as Electron Transport Layer. ACS Applied Materials & Interfaces, 2016, 8, 8520-8526.	4.0	40
117	MoS ₂ nanodot decorated In ₂ S ₃ nanoplates: a novel heterojunction with enhanced photoelectrochemical performance. Chemical Communications, 2016, 52, 1867-1870.	2.2	46
118	Modification of absorber quality and Mo-back contact by a thin Bi intermediate layer for kesterite Cu ₂ ZnSnS ₄ solar cells. Solar Energy Materials and Solar Cells, 2016, 144, 537-543.	3.0	54
119	Epitaxial Cu ₂ ZnSnS ₄ thin film on Si (111) 4Â° substrate. Applied Physics Letters, 2015, 106, .	1.5	41
120	Back contact-absorber interface modification by inserting carbon intermediate layer and conversion efficiency improvement in Cu ₂ ZnSn(S,Se) ₄ solar cell. Physica Status Solidi - Rapid Research Letters, 2015, 9, 687-691.	1.2	20
121	Cu ₂ ZnSnS ₄ thin film solar cells from coated nanocrystals ink. Journal of Materials Science: Materials in Electronics, 2015, 26, 1932-1939.	1.1	16
122	Kesterite Cu ₂ ZnSn(S,Se) ₄ Solar Cells with beyond 8% Efficiency by a Sol-Gel and Selenization Process. ACS Applied Materials & Interfaces, 2015, 7, 14376-14383.	4.0	72
123	Characterization of porous bismuth oxide (Bi ₂ O ₃) nanoplates prepared by chemical bath deposition and post annealing. RSC Advances, 2015, 5, 65591-65594.	1.7	38
124	Rapid thermal annealed Molybdenum back contact for Cu ₂ ZnSnS ₄ thin film solar cells. Applied Physics Letters, 2015, 106, .	1.5	24
125	Fabrication of Cu ₂ ZnSnS ₄ thin film solar cells by sulfurization of electrodeposited stacked binary Cuâ€Zn and Cuâ€Sn alloy layers. Materials Letters, 2015, 155, 44-47.	1.3	15
126	Improvement of <i>J</i> _{sc} in a Cu ₂ ZnSnS ₄ Solar Cell by Using a Thin Carbon Intermediate Layer at the Cu ₂ ZnSnS ₄ /Mo Interface. ACS Applied Materials & Interfaces, 2015, 7, 22868-22873.	4.0	78

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127	Exploring the application of metastable wurtzite nanocrystals in pure-sulfide Cu ₂ ZnSnS ₄ solar cells by forming nearly micron-sized large grains. Journal of Materials Chemistry A, 2015, 3, 23185-23193.	5.2	32
128	Photoelectrochemically deposited Sb ₂ Se ₃ thin films: deposition mechanism and characterization. RSC Advances, 2015, 5, 85592-85597.	1.7	35
129	Kesterite Cu ₂ ZnSnS ₄ thin film solar cells by a facile DMF-based solution coating process. Journal of Materials Chemistry C, 2015, 3, 10783-10792.	2.7	61
130	Cu ₂ ZnSnS ₄ thin film solar cell fabricated by co-electrodeposited metallic precursor. Journal of Materials Science: Materials in Electronics, 2015, 26, 204-210.	1.1	10
131	Optimization of precursor deposition for evaporated Cu ₂ ZnSnS ₄ solar cells. Applied Physics A: Materials Science and Processing, 2015, 118, 893-899.	1.1	7
132	Effects of potassium doping on solution processed kesterite Cu ₂ ZnSnS ₄ thin film solar cells. Applied Physics Letters, 2014, 105, .	1.5	101
133	Transmission electron microscopy analysis of secondary phases in Cu ₂ ZnSnS ₄ thin film solar cells. Materials Research Society Symposia Proceedings, 2014, 1670, 83.	0.1	0
134	Cu ₂ ZnSnS ₄ thin film solar cell fabricated by magnetron sputtering and sulfurization. Materials Research Society Symposia Proceedings, 2014, 1638, 1.	0.1	1
135	In situ prepared Cu ₂ ZnSnS ₄ ultrathin film counter electrode in dye-sensitized solar cells. Materials Letters, 2014, 121, 241-243.	1.3	19
136	Al/Pb lightweight grids prepared by molten salt electroless plating for application in lead-acid batteries. Journal of Power Sources, 2014, 256, 294-300.	4.0	13
137	Dynamic analysis on metal selenide electrodeposition. Journal of Solid State Electrochemistry, 2014, 18, 1833-1845.	1.2	0
138	Improving the conversion efficiency of Cu ₂ ZnSnS ₄ solar cell by low pressure sulfurization. Applied Physics Letters, 2014, 104, .	1.5	40
139	Impact of rapid thermal annealing of Mo coated soda lime glass substrate on device performance of evaporated Cu ₂ ZnSnS ₄ thin film solar cells. Materials Letters, 2014, 125, 40-43.	1.3	20
140	Band alignments of different buffer layers (CdS, Zn(O,S), and In ₂ S ₃) on Cu ₂ ZnSnS ₄ . Applied Physics Letters, 2014, 104, .	1.5	148
141	Enhancing the Cu ₂ ZnSnS ₄ solar cell efficiency by back contact modification: Inserting a thin TiB ₂ intermediate layer at Cu ₂ ZnSnS ₄ /Mo interface. Applied Physics Letters, 2014, 104, .	1.5	131
142	Boosting Cu ₂ ZnSnS ₄ solar cells efficiency by a thin Ag intermediate layer between absorber and back contact. Applied Physics Letters, 2014, 104, .	1.5	113
143	Fabrication of Cu ₂ ZnSnS ₄ solar cells with 5.1% efficiency via thermal decomposition and reaction using a non-toxic sol-gel route. Journal of Materials Chemistry A, 2014, 2, 500-509.	5.2	249
144	Improving Cu ₂ ZnSnS ₄ (CZTS) solar cell performance by an ultrathin ZnO intermediate layer between CZTS absorber and Mo back contact. Physica Status Solidi - Rapid Research Letters, 2014, 8, 966-970.	1.2	48

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