Xianzhong Lin

List of Publications by Year
in descending order

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35	1,093	394286	414303
papers	citations	19	32
		h-index	g-index

36	36	36	1727
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Recent progress in inkjet-printed solar cells. Journal of Materials Chemistry A, 2019, 7, 13873-13902.	5.2	102
2	Structural and optical properties of Cu2ZnSnS4 thin film absorbers from ZnS and Cu3SnS4 nanoparticle precursors. Thin Solid Films, 2013, 535, 10-13.	0.8	98
3	A General Strategy To Fabricate Simple Polyoxometalate Nanostructures: Electrochemistry-Assisted Laser Ablation in Liquid. ACS Nano, 2011, 5, 4748-4755.	7.3	74
4	11.3% efficiency Cu(In,Ga)(S,Se)₂ thin film solar cells via drop-on-demand inkjet printing. Energy and Environmental Science, 2016, 9, 2037-2043.	15.6	71
5	Synthesis of CuO Nanocrystals and Sequential Assembly of Nanostructures with Shape-Dependent Optical Absorption upon Laser Ablation in Liquid. Journal of Physical Chemistry C, 2009, 113, 17543-17547.	1.5	66
6	Inkjetâ€Printed Cu₂ZnSn(S, Se)₄ Solar Cells. Advanced Science, 2015, 2, 1500028.	5.6	65
7	Cu₂ZnSnS₄ Thin Films Generated from a Single Solution Based Precursor: The Effect of Na and Sb Doping. Chemistry of Materials, 2016, 28, 4991-4997.	3.2	65
8	Thermosensitive Cu₂Oâ€“PNIPAM coreâ€“shell nanoreactors with tunable photocatalytic activity. Journal of Materials Chemistry A, 2016, 4, 9677-9684.	5.2	46
9	One-step solution-based synthesis and characterization of kuramite Cu3SnS4 nanocrystals. RSC Advances, 2012, 2, 9798.	1.7	42
10	Europium (II)â€Doped Allâ€Inorganic CsPbBr₃ Perovskite Solar Cells with Carbon Electrodes. Solar Rrl, 2020, 4, 2000390.	3.1	41
11	Synthesis of Cu2ZnxSnySe1+x+2y nanocrystals with wurtzite-derived structure. RSC Advances, 2012, 2, 9894.	1.7	40
12	Synthesis of Dispersible Mesoporous Nitrogen-Doped Hollow Carbon Nanoplates with Uniform Hexagonal Morphologies for Supercapacitors. ACS Applied Materials & Interfaces, 2016, 8, 29628-29636.	4.0	37
13	Cu2ZnSn(S, Se)4 thin film absorbers based on ZnS, SnS and Cu3SnS4 nanoparticle inks: Enhanced solar cells performance by using a two-step annealing process. Solar Energy Materials and Solar Cells, 2015, 132, 221-229.	3.0	33
14	Research Progress on the Application of Lanthanide-Ion-Doped Phosphor Materials in Perovskite Solar Cells. ACS Sustainable Chemistry and Engineering, 2021, 9, 1035-1060.	3.2	33
15	Defect study of Cu2ZnSn(SxSe1â^'x)4 thin film absorbers using photoluminescence and modulated surface photovoltage spectroscopy. Applied Physics Letters, 2015, 106, .	1.5	30
16	Improvement of Cu₂ZnSn(S,Se)₄ Solar Cells by Adding N,Nâ€Dimethylformamide to the Dimethyl Sulfoxideâ€Based Precursor Ink. ChemSusChem, 2019, 12, 1692-1699.	3.6	26
17	Single Molecular Precursor Solution for CuIn(S,Se)₂ Thin Films Photovoltaic Cells: Structure and Device Characteristics. ACS Applied Materials & Interfaces, 2017, 9, 2301-2308.	4.0	25
18	Surprising Efficiency Enhancement of Cu₂ZnSn(S,Se)₄ Solar Cells with Abnormal Zn/Sn Ratios. Solar Rrl, 2020, 4, 2000325.	3.1	25

#	Article	IF	Citations
19	Single molecular precursor ink for AgBiS₂ thin films: synthesis and characterization. Journal of Materials Chemistry C, 2018, 6, 7642-7651.	2.7	20
20	Inkjet-printed CZTSSe absorbers and influence of sodium on device performance. Solar Energy Materials and Solar Cells, 2018, 180, 373-380.	3.0	19
21	Lattice positions of Sn in Cu2ZnSnS4 nanoparticles and thin films studied by synchrotron X-ray absorption near edge structure analysis. Applied Physics Letters, 2013, 102, .	1.5	18
22	In situ monitoring of electrophoretic deposition of Cu2ZnSnS4 nanocrystals. RSC Advances, 2013, 3, 5845.	1.7	18
23	9.63% efficient flexible Cu₂ZnSn(S,Se)₄ solar cells fabricated via scalable doctor-blading under ambient conditions. Journal of Materials Chemistry A, 2021, 9, 25062-25072.	5.2	15
24	Correlation between processing conditions of Cu2ZnSn(SxSe1â^'x)4 and modulated surface photovoltage. Applied Physics Letters, 2013, 102, .	1.5	13
25	A Universal and Facile Method of Tailoring the Thickness of Mo(S_x,Se_{1â^'x})₂, Contributing to Highly Efficient Flexible Cu₂ZnSn(S,Se)₄ Solar Cells. Solar Rrl, 2021, 5, 2100598.	3.1	13
26	Cu2ZnSn(S,Se)4 from CuxSnSy nanoparticle precursors on ZnO nanorod arrays. Thin Solid Films, 2013, 535, 380-383.	0.8	11
27	Cu₂O@PNIPAM coreâ€“shell microgels as novel inkjet materials for the preparation of CuO hollow porous nanocubes gas sensing layers. Journal of Materials Chemistry C, 2018, 6, 7249-7256.	2.7	10
28	Solution-processed In₂S₃buffer layer for chalcopyrite thin film solar cells. EPJ Photovoltaics, 2016, 7, 70303.	0.8	9
29	Effect of Selfâ€Seed Inducing on the Growth Mechanism and Photovoltaic Performance of Cu₂ZnSnSe₄ Thin Films. Solar Rrl, 2022, 6, .	3.1	9
30	Highly efficient Cu2ZnSn(S,Se)4 bifacial solar cell via a composition gradient strategy through the molecular ink. Science China Materials, 2022, 65, 612-619.	3.5	7
31	Bifacial Cu₂ZnSn(S,Se)₄ Thin Film Solar Cell Based on Molecular Ink and Rapid Thermal Processing. Advanced Materials Interfaces, 2021, 8, 2100971.	1.9	6
32	Fabrication of [hk1]-oriented Sb2S3 thin films from Sb-S molecular precursor ink based on alcohol solvent. Materials Letters, 2021, 300, 130227.	1.3	6
33	Air-stable solution processed Cu2ZnSn(Sx,Se(1-x))4 thin film solar cells: influence of ink precursors and preparation process. Materials Research Society Symposia Proceedings, 2013, 1538, 107-114.	0.1	0
34	Challenges for the Development of Inkjet Printed Cu_2(Zn,Sn)(S,Se)_4 Thin Film Solar Cell. , 2016, , .		0
35	Low bandâ€gap CuIn(S,Se) ₂ thin film solar cells using molecular ink with 9.5% efficiency. Physica Status Solidi C: Current Topics in Solid State Physics, 2017, 14, 1600169.	0.8	0