Xianzhong Lin

List of Publications by Year
in descending order

35 papers	1,093 citations	394286 19 h-index	414303 32 g-index
36 all docs	36 docs citations	36 times ranked	1727 citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Effect of Selfâ€Seed Inducing on the Growth Mechanism and Photovoltaic Performance of Cu₂ZnSnSe₄ Thin Films. Solar Rrl, 2022, 6, .	3.1	9
3	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
4	A Universal and Facile Method of Tailoring the Thickness of Mo(S_{<i>x</i>},Se_{1â^’<i>x</i>})₂, Contributing to Highly Efficient Flexible Cu₂ZnSn(S,Se)₄ Solar Cells. Solar Rrl, 2021, 5, 2100598.	3.1	13
5	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
6	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
7	9.63% efficient flexible Cu₂ZnSn(S,Se)₄ solar cells fabricated <i>via</i> scalable doctor-blading under ambient conditions. Journal of Materials Chemistry A, 2021, 9, 25062-25072.	5.2	15
8	Surprising Efficiency Enhancement of Cu₂ZnSn(S,Se)₄ Solar Cells with Abnormal Zn/Sn Ratios. Solar Rrl, 2020, 4, 2000325.	3.1	25
9	Europium (II)â€Doped Allâ€Inorganic CsPbBr₃ Perovskite Solar Cells with Carbon Electrodes. Solar Rrl, 2020, 4, 2000390.	3.1	41
10	Improvement of Cu₂ZnSn(S,Se)₄ Solar Cells by Adding <i>N</i>,<i>N</i>â€Dimethylformamide to the Dimethyl Sulfoxideâ€Based Precursor Ink. ChemSusChem, 2019, 12, 1692-1699.	3.6	26
11	Recent progress in inkjet-printed solar cells. Journal of Materials Chemistry A, 2019, 7, 13873-13902.	5.2	102
12	Inkjet-printed CZTSSe absorbers and influence of sodium on device performance. Solar Energy Materials and Solar Cells, 2018, 180, 373-380.	3.0	19
13	Single molecular precursor ink for AgBiS₂ thin films: synthesis and characterization. Journal of Materials Chemistry C, 2018, 6, 7642-7651.	2.7	20
14	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
15	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
16	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
17	Solution-processed In₂S₃buffer layer for chalcopyrite thin film solar cells. EPJ Photovoltaics, 2016, 7, 70303.	0.8	9
18	Thermosensitive Cu₂Oâ€“PNIPAM coreâ€“shell nanoreactors with tunable photocatalytic activity. Journal of Materials Chemistry A, 2016, 4, 9677-9684.	5.2	46

#	Article	IF	Citations
19	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
20	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
21	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
22	Challenges for the Development of Inkjet Printed Cu_2(Zn,Sn)(S,Se)_4 Thin Film Solar Cell. , 2016, , .		0
23	Defect study of Cu2ZnSn(SxSe1âˆ'x)4 thin film absorbers using photoluminescence and modulated surface photovoltage spectroscopy. Applied Physics Letters, 2015, 106, .	1.5	30
24	Inkjetâ€Printed Cu₂ZnSn(S, Se)₄ Solar Cells. Advanced Science, 2015, 2, 1500028.	5.6	65
25	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
26	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
27	In situ monitoring of electrophoretic deposition of Cu2ZnSnS4 nanocrystals. RSC Advances, 2013, 3, 5845.	1.7	18
28	Cu2ZnSn(S,Se)4 from CuxSnSy nanoparticle precursors on ZnO nanorod arrays. Thin Solid Films, 2013, 535, 380-383.	0.8	11
29	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
30	Correlation between processing conditions of Cu2ZnSn(SxSe1âˆ'x)4 and modulated surface photovoltage. Applied Physics Letters, 2013, 102, .	1.5	13
31	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
32	One-step solution-based synthesis and characterization of kuramite Cu3SnS4 nanocrystals. RSC Advances, 2012, 2, 9798.	1.7	42
33	Synthesis of Cu2ZnxSnySe1+x+2y nanocrystals with wurtzite-derived structure. RSC Advances, 2012, 2, 9894.	1.7	40
34	A General Strategy To Fabricate Simple Polyoxometalate Nanostructures: Electrochemistry-Assisted Laser Ablation in Liquid. ACS Nano, 2011, 5, 4748-4755.	7.3	74
35	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