

Towards low-cost, environmentally friendly printed ch

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Phase-dependent photocatalytic H ₂ evolution of copper zinc tin sulfide under visible light. <i>Chemical Communications</i> , 2014, 50, 12726-12729.	2.2	28
2	Solution-deposited CuIn(S,Se) ₂ absorber layers from metal chalcogenides. , 2015, , .		0
4	An efficient descriptor model for designing materials for solar cells. <i>Npj Computational Materials</i> , 2015, 1, .	3.5	39
6	Preparation of a CuInS ₂ Nanoparticle Ink and Application in a Selenization-Free, Solution-Processed Superstrate Solar Cell. <i>European Journal of Inorganic Chemistry</i> , 2015, 2015, 5793-5800.	1.0	14
7	Low-temperature and hysteresis-free electron-transporting layers for efficient, regular, and planar structure perovskite solar cells. <i>Advanced Energy Materials</i> , 2015, 5, 1501056.	10.2	69
8	A comprehensive study on the mechanism behind formation and depletion of Cu ₂ ZnSn ₄ (CZTS) phases. <i>CrystEngComm</i> , 2015, 17, 6972-6984.	1.3	37
9	Ternary and quaternary wurtzite-type oxide semiconductors: new materials and their properties. , 2015, , .		0
10	Colloidal synthesis of zincblende Cu ₃ InZnSnS ₆ nanocrystals and their optical property. <i>Materials Letters</i> , 2015, 157, 131-134.	1.3	5
11	Formation of porous SnS nanoplate networks from solution and their application in hybrid solar cells. <i>Chemical Communications</i> , 2015, 51, 10198-10201.	2.2	41
12	Facile Preparation of Molybdenum Bronzes as an Efficient Hole Extraction Layer in Organic Photovoltaics. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 13590-13596.	4.0	15
13	A facile one-step method to reduce surface impurities in solution-processed CuInS ₂ nanocrystal solar cells. <i>Journal of Materials Chemistry A</i> , 2015, 3, 14116-14120.	5.2	7
14	Kesterite Cu ₂ ZnSn ₄ as a Low-Cost Inorganic Hole-Transporting Material for High-Efficiency Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 28466-28473.	4.0	147
15	Dark and photo-conductivity of doctor-bladed CZTS films above room temperature. <i>Journal Physics D: Applied Physics</i> , 2015, 48, 455109.	1.3	32
16	A simple chemical route for composition graded Cu(In,Ga)S ₂ thin film solar cells: multi-stage paste coating. <i>RSC Advances</i> , 2015, 5, 103439-103444.	1.7	7
17	Growth and characterization of CuInS ₂ nanoparticles prepared using sonochemical synthesis. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2015, 48, 87-94.	2.7	14
18	Scalable synthesis of CuInS ₂ nanocrystal inks for photovoltaic applications. <i>Journal of Materials Chemistry A</i> , 2015, 3, 4470-4476.	5.2	15
19	A Universal Interface Layer Based on an Amine-Functionalized Fullerene Derivative with Dual Functionality for Efficient Solution Processed Organic and Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2015, 5, 1401692.	10.2	144
21	Assessing the Use of BiCuOS for Photovoltaic Application: From DFT to Macroscopic Simulation. <i>Journal of Physical Chemistry C</i> , 2015, 119, 17585-17595.	1.5	31

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22	Transport properties of solution processed Cu ₂ SnS ₃ /AZnO heterostructure for low cost photovoltaics. <i>Solar Energy Materials and Solar Cells</i> , 2015, 143, 152-158.	3.0	38
23	Wurtzite-derived ternary In ₂ O ₃ semiconductors. <i>Science and Technology of Advanced Materials</i> , 2015, 16, 024902.	2.8	23
24	Elucidating the Excited State Properties of CuInS ₂ Nanocrystals upon Phase Transformation: Quasi-Quantum Dots Versus Bulk Behavior. <i>Advanced Electronic Materials</i> , 2015, 1, 1500040.	2.6	5
25	A Nonvacuum Approach for Fabrication of Cu ₂ ZnSnSe ₄ /In ₂ S ₃ Thin Film Solar Cell and Optoelectronic Characterization. <i>Journal of Physical Chemistry C</i> , 2015, 119, 12226-12235.	1.5	76
26	Inkjet-Printed Cu ₂ ZnSn(S, Se) ₄ Solar Cells. <i>Advanced Science</i> , 2015, 2, 1500028.	5.6	65
27	Flow-enhanced solution printing of all-polymer solar cells. <i>Nature Communications</i> , 2015, 6, 7955.	5.8	221
28	Topochemical Solid-State Reactivity: Redox-Induced Direct Structural Transformation from CuSe ₂ to CuInSe ₂ . <i>Chemistry of Materials</i> , 2015, 27, 7179-7186.	3.2	18
29	High-density Cu-In intermetallic nanocrystal layers: towards high-efficiency printable CuInSe ₂ solar cells. <i>Journal of Materials Chemistry A</i> , 2015, 3, 15889-15896.	5.2	9
30	Low-Temperature Solution-Processed Kesterite Solar Cell Based on in Situ Deposition of Ultrathin Absorber Layer. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 21100-21106.	4.0	28
31	Kesterite Cu ₂ ZnSn ₄ thin film solar cells by a facile DMF-based solution coating process. <i>Journal of Materials Chemistry C</i> , 2015, 3, 10783-10792.	2.7	61
32	Chalcogenization-Derived Band Gap Grading in Solution-Processed CuIn _x Ga _{1-x} (Se,S) ₂ Thin-Film Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 27391-27396.	4.0	34
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37	Recent developments in the synthesis of nanostructured chalcopyrite materials and their applications: a review. <i>RSC Advances</i> , 2016, 6, 60643-60656.	1.7	47
38	Ge-alloyed CZTSe thin film solar cell using molecular precursor adopting spray pyrolysis approach. <i>RSC Advances</i> , 2016, 6, 37621-37627.	1.7	37
39	Impact of Minor Phases on the Performances of CZTSSe Thin-Film Solar Cells. <i>Chemistry of Materials</i> , 2016, 28, 3540-3563.	3.2	112

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40	Development of Cu ₂ SnS ₃ (CTS) thin film solar cells by physical techniques: A status review. <i>Solar Energy Materials and Solar Cells</i> , 2016, 153, 84-107.	3.0	139
41	11.3% efficiency Cu(In,Ga)(S,Se) ₂ thin film solar cells via drop-on-demand inkjet printing. <i>Energy and Environmental Science</i> , 2016, 9, 2037-2043.	15.6	71
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46	High-Pressure Preparation of High-Density Cu ₂ ZnSnS ₄ Materials. <i>Chinese Physics Letters</i> , 2016, 33, 076101.	1.3	2
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48	Solar photovoltaics: current state and trends. <i>Physics-Uspekhi</i> , 2016, 59, 727-772.	0.8	79
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57	Structural, optical, electrical properties, and strain/stress of electrochemically deposited highly doped ZnO layers and nanostructured ZnO antireflective coatings for cost-effective photovoltaic device technology. <i>Thin Solid Films</i> , 2016, 605, 215-231.	0.8	16

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78	Different ligand exchange solvents effect on the densification of $\text{CuIn}_{0.7}\text{Ga}_{0.3}\text{Se}_2$ prepared using the heating-up method. <i>Applied Surface Science</i> , 2017, 426, 1148-1157.	3.1	4
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80	3-D architecture between indium tin oxide nano-rods and a solution processed CuInGaS_2 absorber layer for thin film solar cells. <i>Thin Solid Films</i> , 2017, 636, 506-511.	0.8	1
81	Correlation between product purity and process parameters for the synthesis of $\text{Cu}_2\text{ZnSnS}_4$ nanoparticles using microwave irradiation. <i>Journal of Nanoparticle Research</i> , 2017, 19, 1.	0.8	7
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