

Shuying Cheng

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

64
papers

505
citations

13
h-index

17
g-index

68
ext. papers

753
ext. citations

4.4
avg, IF

4.07
L-index

#	Paper	IF	Citations
64	High flexible Cu ₂ ZnSn(S,Se) ₄ solar cells by green solution-process. <i>Solar Energy</i> , 2019 , 177, 508-516	6.8	33
63	An Intelligent Fault Diagnosis Approach for PV Array Based on SA-RBF Kernel Extreme Learning Machine. <i>Energy Procedia</i> , 2017 , 105, 1070-1076	2.3	28
62	Plasma enhanced multistate storage capability of single ZnO nanowire based memory. <i>Applied Physics Letters</i> , 2015 , 106, 031603	3.4	25
61	A Hierarchical Copper Oxide-Germanium Hybrid Film for High Areal Capacity Lithium Ion Batteries. <i>Frontiers in Chemistry</i> , 2019 , 7, 869	5	24
60	Stable Lithium Metal Anode Achieved by In Situ Grown CuO Nanowire Arrays on Cu Foam. <i>Energy & Fuels</i> , 2020 , 34, 7684-7691	4.1	22
59	Very-Short-Term Power Prediction for PV Power Plants Using a Simple and Effective RCC-LSTM Model Based on Short Term Multivariate Historical Datasets. <i>Electronics (Switzerland)</i> , 2020 , 9, 289	2.6	19
58	Resistive Switching of Plasma-Treated Zinc Oxide Nanowires for Resistive Random Access Memory. <i>Nanomaterials</i> , 2016 , 6,	5.4	18
57	Al-doped ZnS thin films for buffer layers of solar cells prepared by chemical bath deposition. <i>Micro and Nano Letters</i> , 2013 , 8, 211-214	0.9	16
56	Photoinduced Inverse Spin Hall Effect of Surface States in the Topological Insulator BiSe. <i>Nano Letters</i> , 2017 , 17, 7878-7885	11.5	16
55	Investigation of structural, optical and electrical properties of Cu doped In ₂ S ₃ thin films. <i>Journal of Materials Science: Materials in Electronics</i> , 2016 , 27, 5810-5817	2.1	15
54	Novel symmetrical bifacial flexible CZTSSe thin film solar cells for indoor photovoltaic applications. <i>Nature Communications</i> , 2021 , 12, 3107	17.4	14
53	A Density Peak-Based Clustering Approach for Fault Diagnosis of Photovoltaic Arrays. <i>International Journal of Photoenergy</i> , 2017 , 2017, 1-14	2.1	13
52	Efficient (Cu Ag)ZnSn(S,Se) solar cells on flexible Mo foils.. <i>RSC Advances</i> , 2018 , 8, 27686-27694	3.7	13
51	Prospects of Zn(O,S) as an alternative buffer layer for Cu ₂ ZnSnS ₄ thin-film solar cells from numerical simulation. <i>Micro and Nano Letters</i> , 2016 , 11, 386-390	0.9	13
50	Band alignment at the In ₂ S ₃ /Cu ₂ ZnSnS ₄ heterojunction interface investigated by X-ray photoemission spectroscopy. <i>Applied Physics A: Materials Science and Processing</i> , 2014 , 116, 2173-2177	2.6	12
49	A Population Classification Evolution Algorithm for the Parameter Extraction of Solar Cell Models. <i>International Journal of Photoenergy</i> , 2016 , 2016, 1-16	2.1	12
48	Mechanism of Current Shunting in Flexible Cu ₂ Zn _{1-x} CdxSn(S,Se) ₄ Solar Cells. <i>Solar Rrl</i> , 2020 , 4, 1900410	7.1	11

47	Achieving Uniform Li Plating/Stripping at Ultrahigh Currents and Capacities by Optimizing 3D Nucleation Sites and Li Se-Enriched SEI.. <i>Advanced Science</i> , 2022 , e2104689	13.6	10
46	Efficient flexible Mo foil-based Cu ₂ ZnSn(S, Se) ₄ solar cells from In-doping technique. <i>Solar Energy Materials and Solar Cells</i> , 2020 , 209, 110434	6.4	9
45	Defects and Resistive Switching of Zinc Oxide Nanorods with Copper Addition Grown by Hydrothermal Method. <i>Journal of Electronic Materials</i> , 2014 , 43, 2676-2682	1.9	9
44	Improved performance of inverted organic solar cells by using La-doped TiO ₂ film as electron transport layer. <i>Journal of Materials Science: Materials in Electronics</i> , 2017 , 28, 2272-2278	2.1	8
43	Control of Circular Photogalvanic Effect of Surface States in the Topological Insulator BiTe via Spin Injection. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 18091-18100	9.5	8
42	Effects of Sulfurization Temperature on Properties of CZTS Films by Vacuum Evaporation and Sulfurization Method. <i>International Journal of Photoenergy</i> , 2013 , 2013, 1-6	2.1	8
41	Object tracking in the presence of shaking motions. <i>Neural Computing and Applications</i> , 2019 , 31, 5917-5934	2.34	8
40	Tuning of Rashba/Dresselhaus Spin Splittings by Inserting Ultra-Thin InAs Layers at Interfaces in Insulating GaAs/AlGaAs Quantum Wells. <i>Nanoscale Research Letters</i> , 2016 , 11, 477	5	7
39	Influence of Sulfurization Temperature on Photoelectric Properties Cu ₂ SnS ₃ Thin Films Deposited by Magnetron Sputtering. <i>Advances in Materials Science and Engineering</i> , 2013 , 2013, 1-4	1.5	7
38	Six-degree-of-freedom generalized displacements measurement based on binocular vision. <i>Structural Control and Health Monitoring</i> , 2020 , 27, e2458	4.5	7
37	Flexible Planar Microsupercapacitors Based on Polypyrrole Nanotubes. <i>ACS Applied Energy Materials</i> , 2021 , 4, 8857-8865	6.1	7
36	A Robust Magnetic Tracking Approach Based on Graph Optimization. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2020 , 69, 7933-7940	5.2	6
35	Upconversion improvement in KLaF ₄ :Yb ³⁺ /Er ³⁺ nanoparticles by doping Al ³⁺ ions. <i>Applied Physics A: Materials Science and Processing</i> , 2017 , 123, 1	2.6	6
34	Design and Realization of Home Appliances Control System Based on the Android Smartphone 2012 ,		6
33	Improved Magnetic Guidance Approach for Automated Guided Vehicles by Error Analysis and Prior Knowledge. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2020 , 1-10	6.1	6
32	Modification of back electrode structure by a Mo intermediate layer for flexible CZTS thin film solar cells. <i>Micro and Nano Letters</i> , 2018 , 13, 237-242	0.9	5
31	Comparing molybdenum oxide thin films prepared by magnetron sputtering and thermal evaporation applied in organic solar cells. <i>Journal of Materials Science: Materials in Electronics</i> , 2016 , 27, 3245-3249	2.1	5
30	Helicity-dependent photocurrent of the top and bottom Dirac surface states of epitaxial thin films of three-dimensional topological insulators Sb ₂ Te ₃ . <i>Physical Review B</i> , 2019 , 100,	3.3	5

29	Online Fault Diagnosis for Photovoltaic Arrays Based on Fisher Discrimination Dictionary Learning for Sparse Representation. <i>IEEE Access</i> , 2021 , 1-1	3.5	5
28	10.24% Efficiency of Flexible Cu ZnSn(S,Se) Solar Cells by Pre-Evaporation Selenization Technique.. <i>Small</i> , 2022 , e2201347	11	5
27	Optimal data collection of multi-radio multi-channel multi-power wireless sensor networks for structural monitoring applications: A simulation study. <i>Structural Control and Health Monitoring</i> , 2019 , 26, e2328	4.5	4
26	Power conversion efficiency enhancement of polymer solar cells using MoO ₃ /TFB as hole transport layer. <i>Applied Physics A: Materials Science and Processing</i> , 2015 , 120, 857-861	2.6	4
25	Efficient All-Inorganic Sb ₂ S ₃ Solar Cells with Matched Energy Levels Using Sb ₂ Se ₃ as Hole Transport Layers. <i>Solar Rrl</i> , 2101017	7.1	4
24	Plasmon-enhanced upconversion luminescence of the composite films through tunable ZnO spacer. <i>Applied Physics A: Materials Science and Processing</i> , 2021 , 127, 1	2.6	4
23	Influence of oxidization temperature on Zn(O,S) films deposited by electron beam evaporation. <i>Crystal Research and Technology</i> , 2016 , 51, 354-359	1.3	4
22	Using hysteresis to predict the charge recombination properties of perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 6382-6392	13	4
21	Self-Powered SbS Thin-Film Photodetectors with High Detectivity for Weak Light Signal Detection.. <i>ACS Applied Materials & Interfaces</i> , 2022 ,	9.5	4
20	Giant photoinduced anomalous Hall effect of the topological surface states in three dimensional topological insulators Bi ₂ Te ₃ . <i>Applied Physics Letters</i> , 2020 , 116, 141603	3.4	3
19	Solution processable reduced graphene oxide decorated ATO electrode for organic solar cells. <i>Applied Physics A: Materials Science and Processing</i> , 2014 , 117, 1095-1101	2.6	3
18	Optical and Electrical Properties of Ag-Doped In ₂ S ₃ Thin Films Prepared by Thermal Evaporation. <i>Advances in Materials Science and Engineering</i> , 2014 , 2014, 1-4	1.5	3
17	Giant circular photogalvanic effect of the surface states in an ultra-thin Bi ₂ Se ₃ nanoplate grown by chemical vapor deposition. <i>Journal of Applied Physics</i> , 2021 , 129, 105303	2.5	3
16	Numerical Study to Improve the Back Interface Contact of CZTSSe Solar Cells Using Oxygen-Doped Mo(Se _{1-x} O _x) ₂ . <i>Journal of Physical Chemistry C</i> , 2021 , 125, 16746-16752	3.8	3
15	Self-cleaning organic solar cells based on micro/nanostructured haze films with optical enhancement effect. <i>Applied Physics Letters</i> , 2019 , 115, 213902	3.4	3
14	Different doping positions of Au nanorods impact on organic solar cells performance. <i>Journal of Materials Science: Materials in Electronics</i> , 2018 , 29, 10669-10676	2.1	2
13	BitFlow-Net: Toward Fully Binarized Convolutional Neural Networks. <i>IEEE Access</i> , 2019 , 7, 154617-154626	6.5	2
12	Depleted Sb ₂ S ₃ Thin Film Photoconductive Detectors with Fast Response Speed and High Polarization Sensitivity. <i>Advanced Materials Interfaces</i> , 2101504	4.6	2

11	Efficiency Improvement of Flexible Cu ₂ ZnSn(S,Se) ₄ Solar Cells by Window Layer Interface Engineering. <i>ACS Applied Energy Materials</i> ,	6.1	2
10	Surface crack detection based on image stitching and transfer learning with pretrained convolutional neural network. <i>Structural Control and Health Monitoring</i> , 2021 , 28, e2766	4.5	2
9	10.18% PCE of organic solar cells with pyramid micron-structured PDMS. <i>Solar Energy</i> , 2021 , 220, 394-398	3.8	2
8	Bipolar Conduction and Giant Positive Magnetoresistance in Doped Metallic Titanium Oxide Heterostructures. <i>Advanced Materials Interfaces</i> , 2021 , 8, 2002147	4.6	2
7	Characterisation and properties of Cu ₂ ZnSnS ₄ thin films synthesised by sputtering from an alloy target. <i>Materials Research Innovations</i> , 2017 , 21, 97-101	1.9	1
6	Thermally evaporated SnS:Cu thin films for solar cells 2011 ,		1
5	Observation of Extrinsic Photo-Induced Inverse Spin Hall Effect in a GaAs/AlGaAs Two-Dimensional Electron Gas. <i>Nanoscale Research Letters</i> , 2018 , 13, 320	5	1
4	Upconversion luminescence enhancement of the composite films by coupling local surface plasmon effect and photonic crystals effect. <i>Applied Physics A: Materials Science and Processing</i> , 2022 , 128, 1	2.6	1
3	A Highly Digital ADC With Enhanced Accuracy Using a Simple Ripple-Transferring Replica Pseudo PLL Technique. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2019 , 66, 197-201	3.5	
2	Enhanced performance of organic solar cells with multifunctional silica-coated Au nanobowtie core-shell structure. <i>Journal of Nanoparticle Research</i> , 2020 , 22, 1	2.3	
1	In-plane magnetic field induced helicity dependent photogalvanic effect on the surface states of topological insulators (Bi _x Sb _{1-x}) ₂ Te ₃ . <i>Journal of Applied Physics</i> , 2021 , 130, 085305	2.5	