

# Shuying Cheng

## List of Publications by Year in Descending Order

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**Version:** 2024-04-25

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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	Achieving Uniform Li Plating/Stripping at Ultrahigh Currents and Capacities by Optimizing 3D Nucleation Sites and Li Se-Enriched SEI.. <i>Advanced Science</i> , <b>2022</b> , e2104689	13.6	10
63	Self-Powered Sbs Thin-Film Photodetectors with High Detectivity for Weak Light Signal Detection.. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2022</b> ,	9.5	4
62	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> , <b>2022</b> , 128, 1	2.6	1
61	10.24% Efficiency of Flexible Cu ZnSn(S,Se) Solar Cells by Pre-Evaporation Selenization Technique.. <i>Small</i> , <b>2022</b> , e2201347	11	5
60	Giant circular photogalvanic effect of the surface states in an ultra-thin Bi <sub>2</sub> Se <sub>3</sub> nanoplate grown by chemical vapor deposition. <i>Journal of Applied Physics</i> , <b>2021</b> , 129, 105303	2.5	3
59	Plasmon-enhanced upconversion luminescence of the composite films through tunable ZnO spacer. <i>Applied Physics A: Materials Science and Processing</i> , <b>2021</b> , 127, 1	2.6	4
58	Surface crack detection based on image stitching and transfer learning with pretrained convolutional neural network. <i>Structural Control and Health Monitoring</i> , <b>2021</b> , 28, e2766	4.5	2
57	10.18% PCE of organic solar cells with pyramid micron-structured PDMS. <i>Solar Energy</i> , <b>2021</b> , 220, 394-398	8	2
56	Novel symmetrical bifacial flexible CZTSSe thin film solar cells for indoor photovoltaic applications. <i>Nature Communications</i> , <b>2021</b> , 12, 3107	17.4	14
55	Numerical Study to Improve the Back Interface Contact of CZTSSe Solar Cells Using Oxygen-Doped Mo(Se <sub>1-x</sub> Ox) <sub>2</sub> . <i>Journal of Physical Chemistry C</i> , <b>2021</b> , 125, 16746-16752	3.8	3
54	Using hysteresis to predict the charge recombination properties of perovskite solar cells. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 6382-6392	13	4
53	Online Fault Diagnosis for Photovoltaic Arrays Based on Fisher Discrimination Dictionary Learning for Sparse Representation. <i>IEEE Access</i> , <b>2021</b> , 1-1	3.5	5
52	Bipolar Conduction and Giant Positive Magnetoresistance in Doped Metallic Titanium Oxide Heterostructures. <i>Advanced Materials Interfaces</i> , <b>2021</b> , 8, 2002147	4.6	2
51	In-plane magnetic field induced helicity dependent photogalvanic effect on the surface states of topological insulators (Bi <sub>x</sub> Sb <sub>1-x</sub> ) <sub>2</sub> Te <sub>3</sub> . <i>Journal of Applied Physics</i> , <b>2021</b> , 130, 085305	2.5	
50	Flexible Planar Microsupercapacitors Based on Polypyrrole Nanotubes. <i>ACS Applied Energy Materials</i> , <b>2021</b> , 4, 8857-8865	6.1	7
49	Giant photoinduced anomalous Hall effect of the topological surface states in three dimensional topological insulators Bi <sub>2</sub> Te <sub>3</sub> . <i>Applied Physics Letters</i> , <b>2020</b> , 116, 141603	3.4	3
48	Stable Lithium Metal Anode Achieved by In Situ Grown CuO Nanowire Arrays on Cu Foam. <i>Energy &amp; Fuels</i> , <b>2020</b> , 34, 7684-7691	4.1	22

47	A Robust Magnetic Tracking Approach Based on Graph Optimization. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2020</b> , 69, 7933-7940	5.2	6
46	Control of Circular Photogalvanic Effect of Surface States in the Topological Insulator BiTe via Spin Injection. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 18091-18100	9.5	8
45	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> , <b>2020</b> , 9, 289	2.6	19
44	Efficient flexible Mo foil-based Cu <sub>2</sub> ZnSn(S, Se) <sub>4</sub> solar cells from In-doping technique. <i>Solar Energy Materials and Solar Cells</i> , <b>2020</b> , 209, 110434	6.4	9
43	Six-degree-of-freedom generalized displacements measurement based on binocular vision. <i>Structural Control and Health Monitoring</i> , <b>2020</b> , 27, e2458	4.5	7
42	Improved Magnetic Guidance Approach for Automated Guided Vehicles by Error Analysis and Prior Knowledge. <i>IEEE Transactions on Intelligent Transportation Systems</i> , <b>2020</b> , 1-10	6.1	6
41	Enhanced performance of organic solar cells with multifunctional silica-coated Au nanobowtie core-shell structure. <i>Journal of Nanoparticle Research</i> , <b>2020</b> , 22, 1	2.3	
40	Mechanism of Current Shunting in Flexible Cu <sub>2</sub> Zn <sub>1-x</sub> CdxSn(S,Se) <sub>4</sub> Solar Cells. <i>Solar Rrl</i> , <b>2020</b> , 4, 1900410	7.1	11
39	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> , <b>2019</b> , 26, e2328	4.5	4
38	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> , <b>2019</b> , 66, 197-201	3.5	
37	BitFlow-Net: Toward Fully Binarized Convolutional Neural Networks. <i>IEEE Access</i> , <b>2019</b> , 7, 154617-154626	5.5	2
36	A Hierarchical Copper Oxide-Germanium Hybrid Film for High Areal Capacity Lithium Ion Batteries. <i>Frontiers in Chemistry</i> , <b>2019</b> , 7, 869	5	24
35	Self-cleaning organic solar cells based on micro/nanostructured haze films with optical enhancement effect. <i>Applied Physics Letters</i> , <b>2019</b> , 115, 213902	3.4	3
34	Helicity-dependent photocurrent of the top and bottom Dirac surface states of epitaxial thin films of three-dimensional topological insulators Sb <sub>2</sub> Te <sub>3</sub> . <i>Physical Review B</i> , <b>2019</b> , 100,	3.3	5
33	High flexible Cu <sub>2</sub> ZnSn(S,Se) <sub>4</sub> solar cells by green solution-process. <i>Solar Energy</i> , <b>2019</b> , 177, 508-516	6.8	33
32	Object tracking in the presence of shaking motions. <i>Neural Computing and Applications</i> , <b>2019</b> , 31, 5917-5934	7.34	8
31	Modification of back electrode structure by a Mo intermediate layer for flexible CZTS thin film solar cells. <i>Micro and Nano Letters</i> , <b>2018</b> , 13, 237-242	0.9	5
30	Different doping positions of Au nanorods impact on organic solar cells performance. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2018</b> , 29, 10669-10676	2.1	2

29	Efficient (Cu Ag )ZnSn(S,Se) solar cells on flexible Mo foils.. <i>RSC Advances</i> , <b>2018</b> , 8, 27686-27694	3.7	13
28	Observation of Extrinsic Photo-Induced Inverse Spin Hall Effect in a GaAs/AlGaAs Two-Dimensional Electron Gas. <i>Nanoscale Research Letters</i> , <b>2018</b> , 13, 320	5	1
27	Characterisation and properties of Cu <sub>2</sub> ZnSnS <sub>4</sub> thin films synthesised by sputtering from an alloy target. <i>Materials Research Innovations</i> , <b>2017</b> , 21, 97-101	1.9	1
26	An Intelligent Fault Diagnosis Approach for PV Array Based on SA-RBF Kernel Extreme Learning Machine. <i>Energy Procedia</i> , <b>2017</b> , 105, 1070-1076	2.3	28
25	Improved performance of inverted organic solar cells by using La-doped TiO <sub>2</sub> film as electron transport layer. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2017</b> , 28, 2272-2278	2.1	8
24	A Density Peak-Based Clustering Approach for Fault Diagnosis of Photovoltaic Arrays. <i>International Journal of Photoenergy</i> , <b>2017</b> , 2017, 1-14	2.1	13
23	Upconversion improvement in KLaF <sub>4</sub> :Yb <sup>3+</sup> /Er <sup>3+</sup> nanoparticles by doping Al <sup>3+</sup> ions. <i>Applied Physics A: Materials Science and Processing</i> , <b>2017</b> , 123, 1	2.6	6
22	Photoinduced Inverse Spin Hall Effect of Surface States in the Topological Insulator BiSe. <i>Nano Letters</i> , <b>2017</b> , 17, 7878-7885	11.5	16
21	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> , <b>2016</b> , 11, 477	5	7
20	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> , <b>2016</b> , 27, 3245-3249	2.1	5
19	Investigation of structural, optical and electrical properties of Cu doped In <sub>2</sub> S <sub>3</sub> thin films. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2016</b> , 27, 5810-5817	2.1	15
18	A Population Classification Evolution Algorithm for the Parameter Extraction of Solar Cell Models. <i>International Journal of Photoenergy</i> , <b>2016</b> , 2016, 1-16	2.1	12
17	Resistive Switching of Plasma-Treated Zinc Oxide Nanowires for Resistive Random Access Memory. <i>Nanomaterials</i> , <b>2016</b> , 6,	5.4	18
16	Prospects of Zn(O,S) as an alternative buffer layer for Cu <sub>2</sub> ZnSnS <sub>4</sub> thin-film solar cells from numerical simulation. <i>Micro and Nano Letters</i> , <b>2016</b> , 11, 386-390	0.9	13
15	Influence of oxidization temperature on Zn(O,S) films deposited by electron beam evaporation. <i>Crystal Research and Technology</i> , <b>2016</b> , 51, 354-359	1.3	4
14	Power conversion efficiency enhancement of polymer solar cells using MoO <sub>3</sub> /TFB as hole transport layer. <i>Applied Physics A: Materials Science and Processing</i> , <b>2015</b> , 120, 857-861	2.6	4
13	Plasma enhanced multistate storage capability of single ZnO nanowire based memory. <i>Applied Physics Letters</i> , <b>2015</b> , 106, 031603	3.4	25
12	Defects and Resistive Switching of Zinc Oxide Nanorods with Copper Addition Grown by Hydrothermal Method. <i>Journal of Electronic Materials</i> , <b>2014</b> , 43, 2676-2682	1.9	9

11	Band alignment at the In <sub>2</sub> S <sub>3</sub> /Cu <sub>2</sub> ZnSnS <sub>4</sub> heterojunction interface investigated by X-ray photoemission spectroscopy. <i>Applied Physics A: Materials Science and Processing</i> , <b>2014</b> , 116, 2173-2177	2.6	12
10	Solution processable reduced graphene oxide decorated ATO electrode for organic solar cells. <i>Applied Physics A: Materials Science and Processing</i> , <b>2014</b> , 117, 1095-1101	2.6	3
9	Optical and Electrical Properties of Ag-Doped In <sub>2</sub> S <sub>3</sub> Thin Films Prepared by Thermal Evaporation. <i>Advances in Materials Science and Engineering</i> , <b>2014</b> , 2014, 1-4	1.5	3
8	Al-doped ZnS thin films for buffer layers of solar cells prepared by chemical bath deposition. <i>Micro and Nano Letters</i> , <b>2013</b> , 8, 211-214	0.9	16
7	Influence of Sulfurization Temperature on Photoelectric Properties Cu <sub>2</sub> SnS <sub>3</sub> Thin Films Deposited by Magnetron Sputtering. <i>Advances in Materials Science and Engineering</i> , <b>2013</b> , 2013, 1-4	1.5	7
6	Effects of Sulfurization Temperature on Properties of CZTS Films by Vacuum Evaporation and Sulfurization Method. <i>International Journal of Photoenergy</i> , <b>2013</b> , 2013, 1-6	2.1	8
5	Design and Realization of Home Appliances Control System Based on the Android Smartphone <b>2012</b> ,		6
4	Thermally evaporated SnS:Cu thin films for solar cells <b>2011</b> ,		1
3	Efficient All-Inorganic Sb <sub>2</sub> S <sub>3</sub> Solar Cells with Matched Energy Levels Using Sb <sub>2</sub> Se <sub>3</sub> as Hole Transport Layers. <i>Solar Rrl</i> ,2101017	7.1	4
2	Depleted Sb <sub>2</sub> S <sub>3</sub> Thin Film Photoconductive Detectors with Fast Response Speed and High Polarization Sensitivity. <i>Advanced Materials Interfaces</i> ,2101504	4.6	2
1	Efficiency Improvement of Flexible Cu <sub>2</sub> ZnSn(S,Se) <sub>4</sub> Solar Cells by Window Layer Interface Engineering. <i>ACS Applied Energy Materials</i> ,	6.1	2