

Shuying Cheng

List of Publications by Year in descending order

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67
papers

1,033
citations

430442

18
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28
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all docs

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docs citations

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times ranked

1086
citing authors

#	ARTICLE	IF	CITATIONS
1	Achieving Uniform Li Plating/Stripping at Ultrahigh Currents and Capacities by Optimizing 3D Nucleation Sites and Li ₂ Se-Enriched SEI. <i>Advanced Science</i> , 2022, 9, e2104689.	5.6	77
2	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.	1.8	50
3	Novel symmetrical bifacial flexible CZTSSe thin film solar cells for indoor photovoltaic applications. <i>Nature Communications</i> , 2021, 12, 3107.	5.8	49
4	An Intelligent Fault Diagnosis Approach for PV Array Based on SA-RBF Kernel Extreme Learning Machine. <i>Energy Procedia</i> , 2017, 105, 1070-1076.	1.8	46
5	High flexible Cu ₂ ZnSn(S,Se) ₄ solar cells by green solution-process. <i>Solar Energy</i> , 2019, 177, 508-516.	2.9	45
6	Stable Lithium Metal Anode Achieved by <i>in Situ</i> Grown CuO Nanowire Arrays on Cu Foam. <i>Energy & Fuels</i> , 2020, 34, 7684-7691.	2.5	36
7	A Hierarchical Copper Oxide-Germanium Hybrid Film for High Areal Capacity Lithium Ion Batteries. <i>Frontiers in Chemistry</i> , 2020, 7, 869.	1.8	35
8	Self-Powered Sb ₂ S ₃ Thin-Film Photodetectors with High Detectivity for Weak Light Signal Detection. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 12385-12394.	4.0	34
9	Plasma enhanced multistate storage capability of single ZnO nanowire based memory. <i>Applied Physics Letters</i> , 2015, 106, .	1.5	30
10	Photoinduced Inverse Spin Hall Effect of Surface States in the Topological Insulator Bi ₂ Se ₃ . <i>Nano Letters</i> , 2017, 17, 7878-7885.	4.5	29
11	10.24% Efficiency of Flexible Cu ₂ ZnSn(S,Se) ₄ Solar Cells by Pre-Evaporation Selenization Technique. <i>Small</i> , 2022, 18, e2201347.	5.2	28
12	Resistive Switching of Plasma-Treated Zinc Oxide Nanowires for Resistive Random Access Memory. <i>Nanomaterials</i> , 2016, 6, 16.	1.9	25
13	Using hysteresis to predict the charge recombination properties of perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2021, 9, 6382-6392.	5.2	25
14	Mechanism of Current Shunting in Flexible Cu ₂ ZnSnS ₄ /CdSn(S,Se) ₄ Solar Cells. <i>Solar Rrl</i> , 2020, 4, 1900410.	3.1	23
15	Investigation of structural, optical and electrical properties of Cu doped In_2S_3 thin films. <i>Journal of Materials Science: Materials in Electronics</i> , 2016, 27, 5810-5817.	1.1	22
16	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.	3.0	22
17	Prospects of Zn(O,S) as an alternative buffer layer for Cu ₂ ZnSn ₄ thin-film solar cells from numerical simulation. <i>Micro and Nano Letters</i> , 2016, 11, 386-390.	0.6	21
18	A Density Peak-Based Clustering Approach for Fault Diagnosis of Photovoltaic Arrays. <i>International Journal of Photoenergy</i> , 2017, 2017, 1-14.	1.4	21

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37	Numerical Study to Improve the Back Interface Contact of CZTSSe Solar Cells Using Oxygen-Doped Mo(Se _{1-x} , O _x) ₂ . Journal of Physical Chemistry C, 2021, 125, 16746-16752.	1.5	10
38	Design and Realization of Home Appliances Control System Based on the Android Smartphone. , 2012, , .		9
39	Influence of Sulfurization Temperature on Photoelectric Properties Cu ₂ SnS ₃ Thin Films Deposited by Magnetron Sputtering. Advances in Materials Science and Engineering, 2013, 2013, 1-4.	1.0	9
40	Influence of oxidization temperature on Zn(O,S) films deposited by electron beam evaporation. Crystal Research and Technology, 2016, 51, 354-359.	0.6	8
41	Tuning of Rashba/Dresselhaus Spin Splittings by Inserting Ultra-Thin InAs Layers at Interfaces in Insulating GaAs/AlGaAs Quantum Wells. Nanoscale Research Letters, 2016, 11, 477.	3.1	8
42	Object tracking in the presence of shaking motions. Neural Computing and Applications, 2019, 31, 5917-5934.	3.2	8
43	10.18% PCE of organic solar cells with pyramid micron-structured PDMS. Solar Energy, 2021, 220, 394-399.	2.9	8
44	Comparing molybdenum oxide thin films prepared by magnetron sputtering and thermal evaporation applied in organic solar cells. Journal of Materials Science: Materials in Electronics, 2016, 27, 3245-3249.	1.1	7
45	Upconversion improvement in KLaF ₄ :Yb ³⁺ /Er ³⁺ nanoparticles by doping Al ³⁺ ions. Applied Physics A: Materials Science and Processing, 2017, 123, 1.	1.1	7
46	Modification of back electrode structure by a Mo intermediate layer for flexible CZTS thin film solar cells. Micro and Nano Letters, 2018, 13, 237-242.	0.6	7
47	Optimal data collection of multi-radio multi-channel multi-power wireless sensor networks for structural monitoring applications: A simulation study. Structural Control and Health Monitoring, 2019, 26, e2328.	1.9	7
48	Giant photoinduced anomalous Hall effect of the topological surface states in three dimensional topological insulators Bi ₂ Te ₃ . Applied Physics Letters, 2020, 116, 141603.	1.5	7
49	Observation of current-induced spin polarization in the topological insulator Bi_2Te_3 via circularly polarized photoconductive differential current. Physical Review B, 2021, 104, .		
50	Plasmon-enhanced upconversion luminescence of the composite films through tunable ZnO spacer. Applied Physics A: Materials Science and Processing, 2021, 127, 1.	1.1	5
51	Solution processable reduced graphene oxide decorated ATO electrode for organic solar cells. Applied Physics A: Materials Science and Processing, 2014, 117, 1095-1101.	1.1	4
52	Optical and Electrical Properties of Ag-Doped In ₂ S ₃ Thin Films Prepared by Thermal Evaporation. Advances in Materials Science and Engineering, 2014, 2014, 1-4.	1.0	4
53	Power conversion efficiency enhancement of polymer solar cells using MoO ₃ /TFB as hole transport layer. Applied Physics A: Materials Science and Processing, 2015, 120, 857-861.	1.1	4
54	Self-cleaning organic solar cells based on micro/nanostructured haze films with optical enhancement effect. Applied Physics Letters, 2019, 115, .	1.5	4

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55	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, .	1.1	3
56	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.	1.1	3
57	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.	1.0	2
58	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.	1.1	2
59	BitFlow-Net: Toward Fully Binarized Convolutional Neural Networks. <i>IEEE Access</i> , 2019, 7, 154617-154626.	2.6	2
60	Bipolar Conduction and Giant Positive Magnetoresistance in Doped Metallic Titanium Oxide Heterostructures. <i>Advanced Materials Interfaces</i> , 2021, 8, 2002147.	1.9	2
61	Thermally evaporated SnS:Cu thin films for solar cells. , 2011, , .		1
62	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.	3.1	1
63	Influence of thickness on structural and optical properties of evaporated SnS films. , 2011, , .		0
64	Fully Binarized Convolutional Neural Network for Accelerating Edge Vision Computing. , 2018, , .		0
65	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.	2.2	0
66	Enhanced performance of organic solar cells with multifunctional silica-coated Au nanobowtie core-shell structure. <i>Journal of Nanoparticle Research</i> , 2020, 22, 1.	0.8	0
67	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.	1.1	0