

Joe Briscoe

List of Publications by Year in descending order

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73
papers

3,661
citations

172207

29
h-index

128067

60
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74
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74
docs citations

74
times ranked

6091
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of Ferroelectricity on Solar-Light-Driven Photocatalytic Activity of BaTiO ₃ Influence on the Carrier Separation and Stern Layer Formation. Chemistry of Materials, 2013, 25, 4215-4223.	3.2	458
2	Piezoelectric nanogenerators – a review of nanostructured piezoelectric energy harvesters. Nano Energy, 2015, 14, 15-29.	8.2	437
3	A Self-Powered ZnO Nanorod/CuSCN UV Photodetector Exhibiting Rapid Response. Advanced Materials, 2013, 25, 867-871.	11.1	376
4	Biomass-Derived Carbon Quantum Dot Sensitizers for Solid-State Nanostructured Solar Cells. Angewandte Chemie - International Edition, 2015, 54, 4463-4468.	7.2	315
5	Measurement techniques for piezoelectric nanogenerators. Energy and Environmental Science, 2013, 6, 3035.	15.6	158
6	Enhanced Photocatalytic Activity of Heterostructured Ferroelectric BaTiO ₃ /Li-Fe ₂ O ₃ and the Significance of Interface Morphology Control. ACS Applied Materials & Interfaces, 2017, 9, 24518-24526.	4.0	135
7	Control of oxygen vacancies in ZnO nanorods by annealing and their influence on ZnO/PEDOT:PSS diode behaviour. Journal of Materials Chemistry C, 2018, 6, 1815-1821.	2.7	129
8	Non-volatile electrically-driven repeatable magnetization reversal with no applied magnetic field. Nature Communications, 2013, 4, 1453.	5.8	111
9	The Future of Using Earth-Abundant Elements in Counter Electrodes for Dye-Sensitized Solar Cells. Advanced Materials, 2016, 28, 3802-3813.	11.1	98
10	ZnO nanowires for solar cells: a comprehensive review. Nanotechnology, 2019, 30, 362001.	1.3	96
11	Nanostructured p-n Junctions for Kinetic-to-Electrical Energy Conversion. Advanced Energy Materials, 2012, 2, 1261-1268.	10.2	94
12	Additive-Free, Low-Temperature Crystallization of Stable FAPbI ₃ Perovskite. Advanced Materials, 2022, 34, e2107850.	11.1	71
13	Light-intensity and thickness dependent efficiency of planar perovskite solar cells: charge recombination versus extraction. Journal of Materials Chemistry C, 2020, 8, 12648-12655.	2.7	70
14	Acoustic Enhancement of Polymer/ZnO Nanorod Photovoltaic Device Performance. Advanced Materials, 2014, 26, 263-268.	11.1	67
15	Surface passivation effect by fluorine plasma treatment on ZnO for efficiency and lifetime improvement of inverted polymer solar cells. Journal of Materials Chemistry A, 2016, 4, 11844-11858.	5.2	62
16	Carbon Nanodot Solar Cells from Renewable Precursors. ChemSusChem, 2017, 10, 1004-1013.	3.6	57
17	Improved performance of p-n junction-based ZnO nanogenerators through CuSCN-passivation of ZnO nanorods. Journal of Materials Chemistry A, 2014, 2, 10945.	5.2	54
18	Influence of anneal atmosphere on ZnO-nanorod photoluminescent and morphological properties with self-powered photodetector performance. Journal of Applied Physics, 2013, 113, .	1.1	53

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19	Enhanced quantum dot deposition on ZnO nanorods for photovoltaics through layer-by-layer processing. <i>Journal of Materials Chemistry</i> , 2011, 21, 2517.	6.7	51
20	Filtration effects of graphene nanoplatelets in resin infusion processes: Problems and possible solutions. <i>Composites Science and Technology</i> , 2017, 139, 138-145.	3.8	48
21	Ammonia Gas Sensor Response of a Vertical Zinc Oxide Nanorod-Gold Junction Diode at Room Temperature. <i>ACS Sensors</i> , 2020, 5, 3568-3575.	4.0	47
22	Avoiding ambient air and light induced degradation in high-efficiency polymer solar cells by the use of hydrogen-doped zinc oxide as electron extraction material. <i>Nano Energy</i> , 2017, 34, 500-514.	8.2	45
23	P ⁿ junction-based ZnO wearable textile nanogenerator for biomechanical energy harvesting. <i>Nano Energy</i> , 2021, 85, 105938.	8.2	38
24	Bi ₂ Fe ₄ O ₉ thin films as novel visible-light-active photoanodes for solar water splitting. <i>Journal of Materials Chemistry A</i> , 2019, 7, 9537-9541.	5.2	35
25	In situ antimony doping of solution-grown ZnO nanorods. <i>Chemical Communications</i> , 2009, , 1273.	2.2	34
26	Robust Inorganic Hole Transport Materials for Organic and Perovskite Solar Cells: Insights into Materials Electronic Properties and Device Performance. <i>Solar Rrl</i> , 2021, 5, 2000555.	3.1	34
27	Improved CuSCN/ZnO diode performance with spray deposited CuSCN. <i>Thin Solid Films</i> , 2013, 531, 404-407.	0.8	33
28	Enhanced performance with bismuth ferrite perovskite in ZnO nanorod solid state solar cells. <i>Nanoscale</i> , 2014, 6, 7072-7078.	2.8	31
29	Light-Addressable Potentiometric Sensors Using ZnO Nanorods as the Sensor Substrate for Bioanalytical Applications. <i>Analytical Chemistry</i> , 2018, 90, 8708-8715.	3.2	30
30	A simple, low-cost CVD route to high-quality CH ₃ NH ₃ Pb ₃ perovskite thin films. <i>CrystEngComm</i> , 2015, 17, 7486-7489.	1.3	28
31	Extremely thin absorber solar cells based on nanostructured semiconductors. <i>Materials Science and Technology</i> , 2011, 27, 1741-1756.	0.8	27
32	Chemical Protection of ZnO Nanorods at Ultralow pH To Form a Hierarchical BiFeO ₃ /ZnO Core-Shell Structure. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 152-157.	4.0	25
33	Influence of ferroelectric dipole on the photocatalytic activity of heterostructured BaTiO ₃ /a-Fe ₂ O ₃ . <i>Nanotechnology</i> , 2019, 30, 255702.	1.3	24
34	Unusual Thermal Boundary Resistance in Halide Perovskites: A Way To Tune Ultralow Thermal Conductivity for Thermoelectrics. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 47507-47515.	4.0	24
35	Biomass-Derived Nitrogen-Doped Carbon Aerogel Counter Electrodes for Dye Sensitized Solar Cells. <i>Materials</i> , 2018, 11, 1171.	1.3	22
36	Aerosol Assisted Solvent Treatment: A Universal Method for Performance and Stability Enhancements in Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2021, 11, 2101420.	10.2	21

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37	Aerosol assisted chemical vapour deposition of conformal ZnO compact layers for efficient electron transport in perovskite solar cells. <i>Materials Letters</i> , 2018, 217, 251-254.	1.3	20
38	Optimization of 3D ZnO brush-like nanorods for dye-sensitized solar cells. <i>RSC Advances</i> , 2018, 8, 9775-9782.	1.7	16
39	Measured efficiency of a ZnO nanostructured diode piezoelectric energy harvesting device. <i>Applied Physics Letters</i> , 2012, 101, 093902.	1.5	14
40	Passivation of Zinc Oxide Nanowires for Improved Piezoelectric Energy Harvesting Devices. <i>Journal of Physics: Conference Series</i> , 2013, 476, 012131.	0.3	13
41	Optimization of sputtered ZnO transparent conductive seed layer for flexible ZnO-nanorod-based devices. <i>Thin Solid Films</i> , 2017, 634, 169-174.	0.8	11
42	Photocatalytic activity of 2D nanosheets of ferroelectric Dionâ€“Jacobson compounds. <i>Journal of Materials Chemistry A</i> , 2020, 8, 6564-6568.	5.2	11
43	Efficient harvesting and storage of solar energy of an all-vanadium solar redox flow battery with a MoS ₂ @TiO ₂ photoelectrode. <i>Journal of Materials Chemistry A</i> , 2022, 10, 10484-10492.	5.2	11
44	Novel scalable aerosol-assisted CVD route for perovskite solar cells. <i>Materials Advances</i> , 2021, 2, 1606-1612.	2.6	10
45	ZnO nanorod surface modification with PDDA/PSS Bi-layer assembly for performance improvement of ZnO piezoelectric energy harvesting devices. <i>Journal of Sol-Gel Science and Technology</i> , 2015, 73, 544-549.	1.1	9
46	Bismuth Ferrite Enhanced ZnO Solid State Dye-sensitised Solar Cell. <i>Procedia Engineering</i> , 2016, 139, 15-21.	1.2	9
47	The role of carbon dots â€“ derived underlayer in hematite photoanodes. <i>Nanoscale</i> , 2020, 12, 20220-20229.	2.8	9
48	Overcoming Nanoscale Inhomogeneities in Thin-Film Perovskites via Exceptional Post-annealing Grain Growth for Enhanced Photodetection. <i>Nano Letters</i> , 2022, 22, 979-988.	4.5	9
49	Controlled Porosity in Ferroelectric BaTiO ₃ Photoanodes. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 13147-13157.	4.0	9
50	Improved Stability of Polymer Solar Cells in Ambient Air via Atomic Layer Deposition of Ultrathin Dielectric Layers. <i>Advanced Materials Interfaces</i> , 2017, 4, 1700231.	1.9	8
51	Investigating the source of deep-level photoluminescence in ZnO nanorods using optically detected x-ray absorption spectroscopy. <i>Journal of Applied Physics</i> , 2013, 114, 153517.	1.1	7
52	Ambient Air-Stable CH ₃ NH ₃ PbI ₃ Perovskite Solar Cells Using Dibutylethanolamine as a Morphology Controller. <i>ACS Applied Energy Materials</i> , 2021, 4, 4395-4407.	2.5	6
53	Photo-enhanced catalytic activity of spray-coated Cu ₂ SnSe ₃ nanoparticle counter electrode for dye-sensitised solar cells. <i>Physica Status Solidi - Rapid Research Letters</i> , 2016, 10, 739-744.	1.2	5
54	Piezoelectric Enhancement of Hybrid Organic/Inorganic Photovoltaic Device. <i>Journal of Physics: Conference Series</i> , 2013, 476, 012009.	0.3	4

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55	Dye-Sensitized Solar Cells: The Future of Using Earth-Abundant Elements in Counter Electrodes for Dye-Sensitized Solar Cells (Adv. Mater. 20/2016). Advanced Materials, 2016, 28, 3976-3976.	11.1	4
56	Determining Out-of-Plane Hole Mobility in CuSCN via the Time-of-Flight Technique To Elucidate Its Function in Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2021, 13, 38499-38507.	4.0	4
57	Nanostructured Zinc Oxide Piezoelectric Energy Generators Based on Semiconductor P-N Junctions. Materials Research Society Symposia Proceedings, 2012, 1439, 151-156.	0.1	3
58	Self-adhesive electrode applied to ZnO nanorod-based piezoelectric nanogenerators. Smart Materials and Structures, 2019, 28, 105040.	1.8	3
59	Role of Temperature and Growth Period in the Synthesis of Hydrothermally Grown TiO ₂ Nanorods. Journal of Nanoscience and Nanotechnology, 2020, 20, 3873-3878.	0.9	3
60	Low Temperature Scalable Deposition of Copper(I) Thiocyanate Films via Aerosol-Assisted Chemical Vapor Deposition. Crystal Growth and Design, 2020, 20, 5380-5386.	1.4	3
61	Influence of ZnO nanorod surface chemistry on passivation effect of TiO ₂ shell coating. Journal Physics D: Applied Physics, 2021, 54, 255107.	1.3	3
62	ZnO Nanostructured Diodes - Enhancing Energy Generation through Scavenging Vibration. Materials Research Society Symposia Proceedings, 2013, 1556, 1.	0.1	2
63	Correlation Between Stem Cell Differentiation and the Topography of Zinc Oxide Nanorods. Journal of Bionanoscience, 2015, 9, 73-76.	0.4	2
64	Layer-by-layer CdTe Nanoparticle Absorbers for ZnO Nanorod Solar Cells - The Influence of Annealing on Cell Performance. Materials Research Society Symposia Proceedings, 2010, 1260, 1.	0.1	1
65	Influence of Annealing on Composition and Optical Properties of CdTe Nanoparticle Layer-by-Layer Films. Journal of Nanoscience and Nanotechnology, 2011, 11, 5270-5273.	0.9	1
66	Nanostructured Materials. SpringerBriefs in Materials, 2014, , 19-55.	0.1	1
67	The Effect of Semiconductor Morphology on the Spatial Resolution of ZnO Based Light-Addressable Potentiometric Sensors. Proceedings (mdpi), 2018, 2, 917.	0.2	1
68	Antimony Doped ZnO Nanorods - A Change From n to p Type?. Materials Research Society Symposia Proceedings, 2010, 1256, 1.	0.1	0
69	Effect of Transparent Electrode on the Performance of Bulk Heterojunction Solar Cells. Materials Research Society Symposia Proceedings, 2010, 1270, 1.	0.1	0
70	ZnO Nanorods – A Backbone for PV's. Ferroelectrics, 2011, 420, 19-24.	0.3	0
71	ZnO nanogenerators: energy generation through scavenging vibration, advantages of using a diode. Proceedings of SPIE, 2013, , .	0.8	0
72	Renewable Solar Cells. ChemistryViews, 0, , .	0.0	0

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73	Additive-Enhanced Aerosol Treatment for Improved Perovskite Solar Cells and Photodetectors. , 0 , , .		0