

# 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  
g-index

74  
all docs

74  
docs citations

74  
times ranked

6091  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Additive-Free, Low-Temperature Crystallization of Stable $\text{FAPbI}_3$ Perovskite. <i>Advanced Materials</i> , 2022, 34, e2107850.	11.1	71
3	Efficient harvesting and storage of solar energy of an all-vanadium solar redox flow battery with a $\text{MoS}_2/\text{TiO}_2$ photoelectrode. <i>Journal of Materials Chemistry A</i> , 2022, 10, 10484-10492.	5.2	11
4	Controlled Porosity in Ferroelectric $\text{BaTiO}_3$ Photoanodes. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 13147-13157.	4.0	9
5	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
6	Novel scalable aerosol-assisted CVD route for perovskite solar cells. <i>Materials Advances</i> , 2021, 2, 1606-1612.	2.6	10
7	Ambient Air-Stable $\text{CH}_3\text{NH}_3\text{PbI}_3$ Perovskite Solar Cells Using Dibutylethanolamine as a Morphology Controller. <i>ACS Applied Energy Materials</i> , 2021, 4, 4395-4407.	2.5	6
8	Influence of ZnO nanorod surface chemistry on passivation effect of $\text{TiO}_2$ shell coating. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 255107.	1.3	3
9	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
10	$\text{P}^{\text{N}}$ junction-based ZnO wearable textile nanogenerator for biomechanical energy harvesting. <i>Nano Energy</i> , 2021, 85, 105938.	8.2	38
11	Determining Out-of-Plane Hole Mobility in $\text{CuSCN}$ via the Time-of-Flight Technique To Elucidate Its Function in Perovskite Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 38499-38507.	4.0	4
12	The role of carbon dots derived underlayer in hematite photoanodes. <i>Nanoscale</i> , 2020, 12, 20220-20229.	2.8	9
13	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
14	Light-intensity and thickness dependent efficiency of planar perovskite solar cells: charge recombination versus extraction. <i>Journal of Materials Chemistry C</i> , 2020, 8, 12648-12655.	2.7	70
15	Role of Temperature and Growth Period in the Synthesis of Hydrothermally Grown $\text{TiO}_2$ Nanorods. <i>Journal of Nanoscience and Nanotechnology</i> , 2020, 20, 3873-3878.	0.9	3
16	Photocatalytic activity of 2D nanosheets of ferroelectric Dion-Jacobson compounds. <i>Journal of Materials Chemistry A</i> , 2020, 8, 6564-6568.	5.2	11
17	Low Temperature Scalable Deposition of Copper(I) Thiocyanate Films via Aerosol-Assisted Chemical Vapor Deposition. <i>Crystal Growth and Design</i> , 2020, 20, 5380-5386.	1.4	3
18	Self-adhesive electrode applied to ZnO nanorod-based piezoelectric nanogenerators. <i>Smart Materials and Structures</i> , 2019, 28, 105040.	1.8	3

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19	ZnO nanowires for solar cells: a comprehensive review. <i>Nanotechnology</i> , 2019, 30, 362001.	1.3	96
20	Influence of ferroelectric dipole on the photocatalytic activity of heterostructured BaTiO <sub>3</sub> /a-Fe <sub>2</sub> O <sub>3</sub> . <i>Nanotechnology</i> , 2019, 30, 255702.	1.3	24
21	Bi <sub>2</sub> Fe <sub>4</sub> O <sub>9</sub> 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
22	Unusual Thermal Boundary Resistance in Halide Perovskites: A Way To Tune Ultralow Thermal Conductivity for Thermoelectrics. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 47507-47515.	4.0	24
23	Optimization of 3D ZnO brush-like nanorods for dye-sensitized solar cells. <i>RSC Advances</i> , 2018, 8, 9775-9782.	1.7	16
24	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
25	Control of oxygen vacancies in ZnO nanorods by annealing and their influence on ZnO/PEDOT:PSS diode behaviour. <i>Journal of Materials Chemistry C</i> , 2018, 6, 1815-1821.	2.7	129
26	The Effect of Semiconductor Morphology on the Spatial Resolution of ZnO Based Light-Addressable Potentiometric Sensors. <i>Proceedings (mdpi)</i> , 2018, 2, 917.	0.2	1
27	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
28	Biomass-Derived Nitrogen-Doped Carbon Aerogel Counter Electrodes for Dye Sensitized Solar Cells. <i>Materials</i> , 2018, 11, 1171.	1.3	22
29	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
30	Carbon Nanodot Solar Cells from Renewable Precursors. <i>ChemSusChem</i> , 2017, 10, 1004-1013.	3.6	57
31	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
32	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
33	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
34	Enhanced Photocatalytic Activity of Heterostructured Ferroelectric BaTiO <sub>3</sub> /Li-Fe <sub>2</sub> O <sub>3</sub> and the Significance of Interface Morphology Control. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 24518-24526.	4.0	135
35	Photo-enhanced catalytic activity of spray-coated Cu <sub>2</sub> SnSe <sub>3</sub> nanoparticle counter electrode for dye-sensitised solar cells. <i>Physica Status Solidi - Rapid Research Letters</i> , 2016, 10, 739-744.	1.2	5
36	Bismuth Ferrite Enhanced ZnO Solid State Dye-sensitised Solar Cell. <i>Procedia Engineering</i> , 2016, 139, 15-21.	1.2	9

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37	The Future of Using Earth-Abundant Elements in Counter Electrodes for Dye-Sensitized Solar Cells. <i>Advanced Materials</i> , 2016, 28, 3802-3813.	11.1	98
38	Surface passivation effect by fluorine plasma treatment on ZnO for efficiency and lifetime improvement of inverted polymer solar cells. <i>Journal of Materials Chemistry A</i> , 2016, 4, 11844-11858.	5.2	62
39	Dye-Sensitized Solar Cells: The Future of Using Earth-Abundant Elements in Counter Electrodes for Dye-Sensitized Solar Cells ( <i>Adv. Mater.</i> 20/2016). <i>Advanced Materials</i> , 2016, 28, 3976-3976.	11.1	4
40	Biomass-Derived Carbon Quantum Dot Sensitizers for Solid-State Nanostructured Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 4463-4468.	7.2	315
41	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
42	Piezoelectric nanogenerators – a review of nanostructured piezoelectric energy harvesters. <i>Nano Energy</i> , 2015, 14, 15-29.	8.2	437
43	A simple, low-cost CVD route to high-quality $\text{CH}_3\text{NH}_3\text{PbI}_3$ perovskite thin films. <i>CrystEngComm</i> , 2015, 17, 7486-7489.	1.3	28
44	Chemical Protection of ZnO Nanorods at Ultralow pH To Form a Hierarchical $\text{BiFeO}_3/\text{ZnO}$ Core-Shell Structure. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 152-157.	4.0	25
45	Correlation Between Stem Cell Differentiation and the Topography of Zinc Oxide Nanorods. <i>Journal of Bionanoscience</i> , 2015, 9, 73-76.	0.4	2
46	Nanostructured Materials. <i>SpringerBriefs in Materials</i> , 2014, , 19-55.	0.1	1
47	Acoustic Enhancement of Polymer/ZnO Nanorod Photovoltaic Device Performance. <i>Advanced Materials</i> , 2014, 26, 263-268.	11.1	67
48	Improved performance of p-n junction-based ZnO nanogenerators through CuSCN-passivation of ZnO nanorods. <i>Journal of Materials Chemistry A</i> , 2014, 2, 10945.	5.2	54
49	Enhanced performance with bismuth ferrite perovskite in ZnO nanorod solid state solar cells. <i>Nanoscale</i> , 2014, 6, 7072-7078.	2.8	31
50	Measurement techniques for piezoelectric nanogenerators. <i>Energy and Environmental Science</i> , 2013, 6, 3035.	15.6	158
51	Improved CuSCN-ZnO diode performance with spray deposited CuSCN. <i>Thin Solid Films</i> , 2013, 531, 404-407.	0.8	33
52	A Self-Powered ZnO-Nanorod/CuSCN UV Photodetector Exhibiting Rapid Response. <i>Advanced Materials</i> , 2013, 25, 867-871.	11.1	376
53	Non-volatile electrically-driven repeatable magnetization reversal with no applied magnetic field. <i>Nature Communications</i> , 2013, 4, 1453.	5.8	111
54	Influence of anneal atmosphere on ZnO-nanorod photoluminescent and morphological properties with self-powered photodetector performance. <i>Journal of Applied Physics</i> , 2013, 113, .	1.1	53

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55	Effect of Ferroelectricity on Solar-Light-Driven Photocatalytic Activity of BaTiO <sub>3</sub> Influence on the Carrier Separation and Stern Layer Formation. Chemistry of Materials, 2013, 25, 4215-4223.	3.2	458
56	ZnO Nanostructured Diodes - Enhancing Energy Generation through Scavenging Vibration. Materials Research Society Symposia Proceedings, 2013, 1556, 1.	0.1	2
57	ZnO nanogenerators: energy generation through scavenging vibration, advantages of using a diode. Proceedings of SPIE, 2013, , .	0.8	0
58	Investigating the source of deep-level photoluminescence in ZnO nanorods using optically detected x-ray absorption spectroscopy. Journal of Applied Physics, 2013, 114, 153517.	1.1	7
59	Passivation of Zinc Oxide Nanowires for Improved Piezoelectric Energy Harvesting Devices. Journal of Physics: Conference Series, 2013, 476, 012131.	0.3	13
60	Piezoelectric Enhancement of Hybrid Organic/Inorganic Photovoltaic Device. Journal of Physics: Conference Series, 2013, 476, 012009.	0.3	4
61	Nanostructured Zinc Oxide Piezoelectric Energy Generators Based on Semiconductor P-N Junctions. Materials Research Society Symposia Proceedings, 2012, 1439, 151-156.	0.1	3
62	Measured efficiency of a ZnO nanostructured diode piezoelectric energy harvesting device. Applied Physics Letters, 2012, 101, 093902.	1.5	14
63	Nanostructured p-n Junctions for Kinetic Electrical Energy Conversion. Advanced Energy Materials, 2012, 2, 1261-1268.	10.2	94
64	Extremely thin absorber solar cells based on nanostructured semiconductors. Materials Science and Technology, 2011, 27, 1741-1756.	0.8	27
65	Enhanced quantum dot deposition on ZnO nanorods for photovoltaics through layer-by-layer processing. Journal of Materials Chemistry, 2011, 21, 2517.	6.7	51
66	ZnO Nanorods - A Backbone for PV's. Ferroelectrics, 2011, 420, 19-24.	0.3	0
67	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
68	Antimony Doped ZnO Nanorods - A Change From n to p Type?. Materials Research Society Symposia Proceedings, 2010, 1256, 1.	0.1	0
69	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
70	Effect of Transparent Electrode on the Performance of Bulk Heterojunction Solar Cells. Materials Research Society Symposia Proceedings, 2010, 1270, 1.	0.1	0
71	In situ antimony doping of solution-grown ZnO nanorods. Chemical Communications, 2009, , 1273.	2.2	34
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