

Jingbi You

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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.

92
papers

30,320
citations

52
h-index

99
g-index

99
ext. papers

33,629
ext. citations

14.1
avg, IF

7.38
L-index

#	Paper	IF	Citations
92	Photovoltaics. Interface engineering of highly efficient perovskite solar cells. <i>Science</i> , 2014 , 345, 542-6	33.3	5272
91	A polymer tandem solar cell with 10.6% power conversion efficiency. <i>Nature Communications</i> , 2013 , 4, 1446	17.4	2456
90	Surface passivation of perovskite film for efficient solar cells. <i>Nature Photonics</i> , 2019 , 13, 460-466	33.9	2262
89	Solution-processed hybrid perovskite photodetectors with high detectivity. <i>Nature Communications</i> , 2014 , 5, 5404	17.4	1749
88	Improved air stability of perovskite solar cells via solution-processed metal oxide transport layers. <i>Nature Nanotechnology</i> , 2016 , 11, 75-81	28.7	1614
87	Tandem polymer solar cells featuring a spectrally matched low-bandgap polymer. <i>Nature Photonics</i> , 2012 , 6, 180-185	33.9	1299
86	Enhanced electron extraction using SnO ₂ for high-efficiency planar-structure HC(NH ₂) ₂ PbI ₃ -based perovskite solar cells. <i>Nature Energy</i> , 2017 , 2,	62.3	1231
85	Low-temperature solution-processed perovskite solar cells with high efficiency and flexibility. <i>ACS Nano</i> , 2014 , 8, 1674-80	16.7	1216
84	25th anniversary article: a decade of organic/polymeric photovoltaic research. <i>Advanced Materials</i> , 2013 , 25, 6642-71	24	978
83	Planar-Structure Perovskite Solar Cells with Efficiency beyond 21. <i>Advanced Materials</i> , 2017 , 29, 1703852	24	741
82	An efficient triple-junction polymer solar cell having a power conversion efficiency exceeding 11%. <i>Advanced Materials</i> , 2014 , 26, 5670-7	24	718
81	Dual plasmonic nanostructures for high performance inverted organic solar cells. <i>Advanced Materials</i> , 2012 , 24, 3046-52	24	604
80	Moisture assisted perovskite film growth for high performance solar cells. <i>Applied Physics Letters</i> , 2014 , 105, 183902	3.4	598
79	Efficient green light-emitting diodes based on quasi-two-dimensional composition and phase engineered perovskite with surface passivation. <i>Nature Communications</i> , 2018 , 9, 570	17.4	580
78	Ultra-bright and highly efficient inorganic based perovskite light-emitting diodes. <i>Nature Communications</i> , 2017 , 8, 15640	17.4	557
77	Systematic investigation of benzodithiophene- and diketopyrrolopyrrole-based low-bandgap polymers designed for single junction and tandem polymer solar cells. <i>Journal of the American Chemical Society</i> , 2012 , 134, 10071-9	16.4	504
76	Recent Advances in the Inverted Planar Structure of Perovskite Solar Cells. <i>Accounts of Chemical Research</i> , 2016 , 49, 155-65	24.3	472

75	High-efficiency robust perovskite solar cells on ultrathin flexible substrates. <i>Nature Communications</i> , 2016 , 7, 10214	17.4	444
74	Solvent-controlled growth of inorganic perovskite films in dry environment for efficient and stable solar cells. <i>Nature Communications</i> , 2018 , 9, 2225	17.4	427
73	10.2% power conversion efficiency polymer tandem solar cells consisting of two identical sub-cells. <i>Advanced Materials</i> , 2013 , 25, 3973-8	24	403
72	SnO : A Wonderful Electron Transport Layer for Perovskite Solar Cells. <i>Small</i> , 2018 , 14, e1801154	11	395
71	A selenium-substituted low-bandgap polymer with versatile photovoltaic applications. <i>Advanced Materials</i> , 2013 , 25, 825-31	24	370
70	Interfacial Degradation of Planar Lead Halide Perovskite Solar Cells. <i>ACS Nano</i> , 2016 , 10, 218-24	16.7	357
69	The optoelectronic role of chlorine in CH ₃ NH ₃ PbI ₃ (Cl)-based perovskite solar cells. <i>Nature Communications</i> , 2015 , 6, 7269	17.4	354
68	Perovskite solar cells: film formation and properties. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 9032-9050	3	327
67	Addressing the stability issue of perovskite solar cells for commercial applications. <i>Nature Communications</i> , 2018 , 9, 5265	17.4	322
66	Plasmonic polymer tandem solar cell. <i>ACS Nano</i> , 2011 , 5, 6210-7	16.7	304
65	Metal oxide nanoparticles as an electron-transport layer in high-performance and stable inverted polymer solar cells. <i>Advanced Materials</i> , 2012 , 24, 5267-72	24	299
64	Recent Progresses on Defect Passivation toward Efficient Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2020 , 10, 1902650	21.8	283
63	Recent trends in polymer tandem solar cells research. <i>Progress in Polymer Science</i> , 2013 , 38, 1909-1928	29.6	232
62	Make perovskite solar cells stable. <i>Nature</i> , 2017 , 544, 155-156	50.4	221
61	Spin-Coated Small Molecules for High Performance Solar Cells. <i>Advanced Energy Materials</i> , 2011 , 1, 771-775	21.8	221
60	Surface Plasmon and Scattering-Enhanced Low-Bandgap Polymer Solar Cell by a Metal Grating Back Electrode. <i>Advanced Energy Materials</i> , 2012 , 2, 1203-1207	21.8	152
59	Cesium Lead Inorganic Solar Cell with Efficiency beyond 18% via Reduced Charge Recombination. <i>Advanced Materials</i> , 2019 , 31, e1905143	24	138
58	Enhanced Proton Conduction in Polymer Electrolyte Membranes as Synthesized by Polymerization of Protic Ionic Liquid-Based Microemulsions. <i>Chemistry of Materials</i> , 2009 , 21, 1480-1484	9.6	134

57	Integrated perovskite/bulk-heterojunction toward efficient solar cells. <i>Nano Letters</i> , 2015 , 15, 662-8	11.5	129
56	Active layer-incorporated, spectrally tuned Au/SiO ₂ core/shell nanorod-based light trapping for organic photovoltaics. <i>ACS Nano</i> , 2013 , 7, 3815-22	16.7	124
55	Large cation ethylammonium incorporated perovskite for efficient and spectra stable blue light-emitting diodes. <i>Nature Communications</i> , 2020 , 11, 4165	17.4	113
54	High-performance deep ultraviolet photodetectors based on few-layer hexagonal boron nitride. <i>Nanoscale</i> , 2018 , 10, 5559-5565	7.7	95
53	A high-performance photodetector based on an inorganic perovskite/ZnO heterostructure. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 6115-6122	7.1	79
52	Effects of hydrogen plasma treatment on the electrical and optical properties of ZnO films: identification of hydrogen donors in ZnO. <i>ACS Applied Materials & Interfaces</i> , 2010 , 2, 1780-4	9.5	79
51	Perovskite Light-Emitting Diodes with External Quantum Efficiency Exceeding 22% via Small-Molecule Passivation. <i>Advanced Materials</i> , 2021 , 33, e2007169	24	77
50	Synthesis of highly fluorescent InP/ZnS small-core/thick-shell tetrahedral-shaped quantum dots for blue light-emitting diodes. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 8243-8249	7.1	73
49	Recent progress in stability of perovskite solar cells. <i>Journal of Semiconductors</i> , 2017 , 38, 011002	2.3	68
48	Delivery of intact transcription factor by using self-assembled supramolecular nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 3058-62	16.4	63
47	Polymerization of Ionic Liquid-Based Microemulsions: A Versatile Method for the Synthesis of Polymer Electrolytes. <i>Macromolecules</i> , 2008 , 41, 3389-3392	5.5	62
46	Composition and Interface Engineering for Efficient and Thermally Stable PbSn Mixed Low-Bandgap Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2018 , 28, 1804603	15.6	62
45	Unraveling film transformations and device performance of planar perovskite solar cells. <i>Nano Energy</i> , 2015 , 12, 494-500	17.1	61
44	Synthesis of Large-Sized Single-Crystal Hexagonal Boron Nitride Domains on Nickel Foils by Ion Beam Sputtering Deposition. <i>Advanced Materials</i> , 2015 , 27, 8109-15	24	60
43	Highly Efficient Electron-Selective Layer Free Perovskite Solar Cells by Constructing Effective p/n Heterojunction. <i>Solar Rrl</i> , 2017 , 1, 1600027	7.1	59
42	Aligned Growth of Millimeter-Size Hexagonal Boron Nitride Single-Crystal Domains on Epitaxial Nickel Thin Film. <i>Small</i> , 2017 , 13, 1604179	11	55
41	A Selenophene Containing Benzodithiophene-alt-thienothiophene Polymer for Additive-Free High Performance Solar Cell. <i>Macromolecules</i> , 2015 , 48, 562-568	5.5	52
40	Nickel oxide for inverted structure perovskite solar cells. <i>Journal of Energy Chemistry</i> , 2021 , 52, 393-411	12	46

39	Selective Direct Growth of Atomic Layered HfS ₂ on Hexagonal Boron Nitride for High Performance Photodetectors. <i>Chemistry of Materials</i> , 2018 , 30, 3819-3826	9.6	40
38	Improving Structural Order for a High-Performance Diketopyrrolopyrrole-Based Polymer Solar Cell with a Thick Active Layer. <i>Advanced Energy Materials</i> , 2014 , 4, 1300739	21.8	39
37	10.5% efficient polymer and amorphous silicon hybrid tandem photovoltaic cell. <i>Nature Communications</i> , 2015 , 6, 6391	17.4	38
36	Effects of Organic Cations on the Structure and Performance of Quasi-Two-Dimensional Perovskite-Based Light-Emitting Diodes. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 2892-2897	6.4	36
35	Epitaxial growth of HfS ₂ on sapphire by chemical vapor deposition and application for photodetectors. <i>2D Materials</i> , 2017 , 4, 031012	5.9	36
34	Magnetic Properties of FePt Nanoparticles Prepared by a Micellar Method. <i>Nanoscale Research Letters</i> , 2009 , 5, 1-6	5	32
33	High performance low band gap polymer solar cells with a non-conventional acceptor. <i>Chemical Communications</i> , 2012 , 48, 7616-8	5.8	31
32	Catalyst-free growth of two-dimensional hexagonal boron nitride few-layers on sapphire for deep ultraviolet photodetectors. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 14999-15006	7.1	30
31	Recent Progress in High-efficiency Planar-structure Perovskite Solar Cells. <i>Energy and Environmental Materials</i> , 2019 , 2, 93-106	13	29
30	Stabilizing the black phase of cesium lead halide inorganic perovskite for efficient solar cells. <i>Science China Chemistry</i> , 2019 , 62, 810-821	7.9	26
29	Large-Area Synthesis of Layered HfS ₂ Se Alloys with Fully Tunable Chemical Compositions and Bandgaps. <i>Advanced Materials</i> , 2018 , 30, e1803285	24	26
28	Interface Engineering of High-Performance Perovskite Photodetectors Based on PVP/SnO Electron Transport Layer. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 6505-6512	9.5	24
27	Stabilizing FAPbI ₃ Perovskite via Phenylethylammonium for Efficient Solar Cells with Open-Circuit Voltage over 1.3V. <i>Small</i> , 2020 , 16, e2005246	11	24
26	Synergistic improvement of perovskite film quality for efficient solar cells via multiple chloride salt additives. <i>Science Bulletin</i> , 2018 , 63, 726-731	10.6	24
25	Localized-Surface-Plasmon Enhanced the 357 nm Forward Emission from ZnMgO Films Capped by Pt Nanoparticles. <i>Nanoscale Research Letters</i> , 2009 , 4, 1121-1125	5	23
24	Research progress in large-area perovskite solar cells. <i>Photonics Research</i> , 2020 , 8, A1	6	21
23	Two-dimensional hexagonal boron-carbon-nitrogen atomic layers. <i>Nanoscale</i> , 2019 , 11, 10454-10462	7.7	20
22	Compositional Engineering of Mixed-Cation Lead Mixed-Halide Perovskites for High-Performance Photodetectors. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 28005-28012	9.5	18

21	Deep Ultraviolet Photodetectors Based on Carbon-Doped Two-Dimensional Hexagonal Boron Nitride. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 27361-27367	9.5	16
20	Effects of crystalline quality on the ultraviolet emission and electrical properties of the ZnO films deposited by magnetron sputtering. <i>Applied Surface Science</i> , 2009 , 255, 5876-5880	6.7	15
19	Epitaxial Liftoff of Wafer-Scale VO ₂ Nanomembranes for Flexible, Ultrasensitive Tactile Sensors. <i>Advanced Materials Technologies</i> , 2019 , 4, 1800695	6.8	14
18	Comparison and combination of several stress relief methods for cubic boron nitride films deposited by ion beam assisted deposition. <i>Surface and Coatings Technology</i> , 2009 , 203, 1452-1456	4.4	12
17	Enhanced electroluminescence from ZnO-based heterojunction light-emitting diodes by hydrogen plasma treatment. <i>Physica Status Solidi - Rapid Research Letters</i> , 2011 , 5, 74-76	2.5	11
16	Emerging Low-Dimensional Crystal Structure of Metal Halide Perovskite Optoelectronic Materials and Devices. <i>Small Structures</i> , 2021 , 2, 2000133	8.7	11
15	Remote heteroepitaxy of atomic layered hafnium disulfide on sapphire through hexagonal boron nitride. <i>Nanoscale</i> , 2019 , 11, 9310-9318	7.7	10
14	Immiscible solvents enabled nanostructure formation for efficient polymer photovoltaic cells. <i>Nanotechnology</i> , 2014 , 25, 295401	3.4	6
13	Enhanced piezoelectric response of the two-tetragonal-phase-coexisted BiFeO ₃ epitaxial film. <i>Solid State Communications</i> , 2017 , 252, 68-72	1.6	5
12	Polymer hole-transport material improving thermal stability of inorganic perovskite solar cells. <i>Frontiers of Optoelectronics</i> , 2020 , 13, 265-271	2.8	5
11	Plastic solar cells: breaking the 10% commercialization barrier 2012 ,		5
10	Reduction of ordering temperature of self-assembled FePt nanoparticles by addition of Au and Ag. <i>Journal of Nanoscience and Nanotechnology</i> , 2011 , 11, 10548-52	1.3	4
9	Broadband Photodetector Based on Inorganic Perovskite CsPbBr ₃ /GeSn Heterojunction.. <i>Small Methods</i> , 2021 , 5, e2100517	12.8	4
8	Improved efficiency and photo-stability of methylamine-free perovskite solar cells via cadmium doping. <i>Journal of Semiconductors</i> , 2019 , 40, 122201	2.3	4
7	Amplified Spontaneous Emission with a Low Threshold from Quasi-2D Perovskite Films via Phase Engineering and Surface Passivation. <i>Advanced Optical Materials</i> , 2021 , 2102563	8.1	3
6	Updated Progresses in Perovskite Solar Cells. <i>Chinese Physics Letters</i> , 2021 , 38, 107801	1.8	1
5	Tailoring molecular termination for thermally stable perovskite solar cells. <i>Journal of Semiconductors</i> , 2021 , 42, 112201	2.3	1
4	Metastable Tetragonal BiFeO ₃ Stabilized on Anisotropic a-Plane ZnO. <i>Crystal Growth and Design</i> , 2021 , 21, 4372-4379	3.5	1

- 3 Inverted Planar Structure of Perovskite Solar Cells **2016**, 307-324 1
- 2 Controlled Growth of Unidirectionally Aligned Hexagonal Boron Nitride Domains on Single Crystal Ni (111)/MgO Thin Films. *Crystal Growth and Design*, **2019**, 19, 453-459 3-5 1
- 1 Stable CsPbI_3 inorganic perovskites deliver photovoltaic efficiency beyond 18%. *Science China Chemistry*, **2019**, 62, 1267-1268 7-9