Jingbi You

List of Publications by Year in Descending Order

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	Updated Progresses in Perovskite Solar Cells. *Chinese Physics Letters*, **2021**, 38, 107801	1.8	1
91	Tailoring molecular termination for thermally stable perovskite solar cells. *Journal of Semiconductors*, **2021**, 42, 112201	2.3	1
90	Emerging Low-Dimensional Crystal Structure of Metal Halide Perovskite Optoelectronic Materials and Devices. *Small Structures*, **2021**, 2, 2000133	8.7	11
89	Perovskite Light-Emitting Diodes with External Quantum Efficiency Exceeding 22% via Small-Molecule Passivation. *Advanced Materials*, **2021**, 33, e2007169	24	77
88	Broadband Photodetector Based on Inorganic Perovskite CsPbBr /GeSn Heterojunction.. *Small Methods*, **2021**, 5, e2100517	12.8	4
87	Metastable Tetragonal BiFeO3 Stabilized on Anisotropic a-Plane ZnO. *Crystal Growth and Design*, **2021**, 21, 4372-4379	3.5	1
86	Nickel oxide for inverted structure perovskite solar cells. *Journal of Energy Chemistry*, **2021**, 52, 393-411	12	46
85	Deep Ultraviolet Photodetectors Based on Carbon-Doped Two-Dimensional Hexagonal Boron Nitride. *ACS Applied Materials & Interfaces*, **2020**, 12, 27361-27367	9.5	16
84	Polymer hole-transport material improving thermal stability of inorganic perovskite solar cells. *Frontiers of Optoelectronics*, **2020**, 13, 265-271	2.8	5
83	Research progress in large-area perovskite solar cells. *Photonics Research*, **2020**, 8, A1	6	21
82	Stabilizing CsPbI Perovskite via Phenylethylammonium for Efficient Solar Cells with Open-Circuit Voltage over 1.3V. *Small*, **2020**, 16, e2005246	11	24
81	Large cation ethylammonium incorporated perovskite for efficient and spectra stable blue light-emitting diodes. *Nature Communications*, **2020**, 11, 4165	17.4	113
80	Recent Progresses on Defect Passivation toward Efficient Perovskite Solar Cells. *Advanced Energy Materials*, **2020**, 10, 1902650	21.8	283
79	Stable CsPbI3 inorganic perovskites deliver photovoltaic efficiency beyond 18%. *Science China Chemistry*, **2019**, 62, 1267-1268	7.9	
78	Stabilizing the black phase of cesium lead halide inorganic perovskite for efficient solar cells. *Science China Chemistry*, **2019**, 62, 810-821	7.9	26
77	Effects of Organic Cations on the Structure and Performance of Quasi-Two-Dimensional Perovskite-Based Light-Emitting Diodes. *Journal of Physical Chemistry Letters*, **2019**, 10, 2892-2897	6.4	36
76	Remote heteroepitaxy of atomic layered hafnium disulfide on sapphire through hexagonal boron nitride. *Nanoscale*, **2019**, 11, 9310-9318	7.7	10

75	Two-dimensional hexagonal boron-carbon-nitrogen atomic layers. *Nanoscale*, **2019**, 11, 10454-10462	7.7	20
74	Epitaxial Liftoff of Wafer-Scale VO2 Nanomembranes for Flexible, Ultrasensitive Tactile Sensors. *Advanced Materials Technologies*, **2019**, 4, 1800695	6.8	14
73	Surface passivation of perovskite film for efficient solar cells. *Nature Photonics*, **2019**, 13, 460-466	33.9	2262
72	Compositional Engineering of Mixed-Cation Lead Mixed-Halide Perovskites for High-Performance Photodetectors. *ACS Applied Materials & Interfaces*, **2019**, 11, 28005-28012	9.5	18
71	Recent Progress in High-efficiency Planar-structure Perovskite Solar Cells. *Energy and Environmental Materials*, **2019**, 2, 93-106	13	29
70	Cesium Lead Inorganic Solar Cell with Efficiency beyond 18% via Reduced Charge Recombination. *Advanced Materials*, **2019**, 31, e1905143	24	138
69	Improved efficiency and photo-stability of methylamine-free perovskite solar cells via cadmium doping. *Journal of Semiconductors*, **2019**, 40, 122201	2.3	4
68	Catalyst-free growth of two-dimensional hexagonal boron nitride few-layers on sapphire for deep ultraviolet photodetectors. *Journal of Materials Chemistry C*, **2019**, 7, 14999-15006	7.1	30
67	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
66	High-performance deep ultraviolet photodetectors based on few-layer hexagonal boron nitride. *Nanoscale*, **2018**, 10, 5559-5565	7.7	95
65	Interface Engineering of High-Performance Perovskite Photodetectors Based on PVP/SnO Electron Transport Layer. *ACS Applied Materials & Interfaces*, **2018**, 10, 6505-6512	9.5	24
64	Efficient green light-emitting diodes based on quasi-two-dimensional composition and phase engineered perovskite with surface passivation. *Nature Communications*, **2018**, 9, 570	17.4	580
63	Solvent-controlled growth of inorganic perovskite films in dry environment for efficient and stable solar cells. *Nature Communications*, **2018**, 9, 2225	17.4	427
62	Addressing the stability issue of perovskite solar cells for commercial applications. *Nature Communications*, **2018**, 9, 5265	17.4	322
61	Composition and Interface Engineering for Efficient and Thermally Stable PbSn Mixed Low-Bandgap Perovskite Solar Cells. *Advanced Functional Materials*, **2018**, 28, 1804603	15.6	62
60	Large-Area Synthesis of Layered HfS Se Alloys with Fully Tunable Chemical Compositions and Bandgaps. *Advanced Materials*, **2018**, 30, e1803285	24	26
59	Selective Direct Growth of Atomic Layered HfS2 on Hexagonal Boron Nitride for High Performance Photodetectors. *Chemistry of Materials*, **2018**, 30, 3819-3826	9.6	40
58	Synergistic improvement of perovskite film quality for efficient solar cells via multiple chloride salt additives. *Science Bulletin*, **2018**, 63, 726-731	10.6	24

57	SnO : A Wonderful Electron Transport Layer for Perovskite Solar Cells. *Small*, **2018**, 14, e1801154	11	395
56	Highly Efficient Electron-Selective Layer Free Perovskite Solar Cells by Constructing Effective p-i Heterojunction. *Solar Rrl*, **2017**, 1, 1600027	7.1	59
55	Recent progress in stability of perovskite solar cells. *Journal of Semiconductors*, **2017**, 38, 011002	2.3	68
54	Enhanced piezoelectric response of the two-tetragonal-phase-coexisted BiFeO 3 epitaxial film. *Solid State Communications*, **2017**, 252, 68-72	1.6	5
53	Aligned Growth of Millimeter-Size Hexagonal Boron Nitride Single-Crystal Domains on Epitaxial Nickel Thin Film. *Small*, **2017**, 13, 1604179	11	55
52	Ultra-bright and highly efficient inorganic based perovskite light-emitting diodes. *Nature Communications*, **2017**, 8, 15640	17.4	557
51	Planar-Structure Perovskite Solar Cells with Efficiency beyond 21. *Advanced Materials*, **2017**, 29, 1703852	24	741
50	Make perovskite solar cells stable. *Nature*, **2017**, 544, 155-156	50.4	221
49	Synthesis of highly fluorescent InP/ZnS small-core/thick-shell tetrahedral-shaped quantum dots for blue light-emitting diodes. *Journal of Materials Chemistry C*, **2017**, 5, 8243-8249	7.1	73
48	Epitaxial growth of HfS 2 on sapphire by chemical vapor deposition and application for photodetectors. *2D Materials*, **2017**, 4, 031012	5.9	36
47	A high-performance photodetector based on an inorganic perovskite–ZnO heterostructure. *Journal of Materials Chemistry C*, **2017**, 5, 6115-6122	7.1	79
46	Enhanced electron extraction using SnO2 for high-efficiency planar-structure HC(NH2)2PbI3-based perovskite solar cells. *Nature Energy*, **2017**, 2,	62.3	1231
45	Improved air stability of perovskite solar cells via solution-processed metal oxide transport layers. *Nature Nanotechnology*, **2016**, 11, 75-81	28.7	1614
44	High-efficiency robust perovskite solar cells on ultrathin flexible substrates. *Nature Communications*, **2016**, 7, 10214	17.4	444
43	Recent Advances in the Inverted Planar Structure of Perovskite Solar Cells. *Accounts of Chemical Research*, **2016**, 49, 155-65	24.3	472
42	Interfacial Degradation of Planar Lead Halide Perovskite Solar Cells. *ACS Nano*, **2016**, 10, 218-24	16.7	357
41	Inverted Planar Structure of Perovskite Solar Cells **2016**, 307-324		1
40	Unraveling film transformations and device performance of planar perovskite solar cells. *Nano Energy*, **2015**, 12, 494-500	17.1	61

39	10.5% efficient polymer and amorphous silicon hybrid tandem photovoltaic cell. *Nature Communications*, **2015**, 6, 6391	17.4	38
38	Perovskite solar cells: film formation and properties. *Journal of Materials Chemistry A*, **2015**, 3, 9032-9050	13	327
37	The optoelectronic role of chlorine in CH3NH3PbI3(Cl)-based perovskite solar cells. *Nature Communications*, **2015**, 6, 7269	17.4	354
36	Integrated perovskite/bulk-heterojunction toward efficient solar cells. *Nano Letters*, **2015**, 15, 662-8	11.5	129
35	Synthesis of Large-Sized Single-Crystal Hexagonal Boron Nitride Domains on Nickel Foils by Ion Beam Sputtering Deposition. *Advanced Materials*, **2015**, 27, 8109-15	24	60
34	A Selenophene Containing Benzodithiophene-alt-thienothiophene Polymer for Additive-Free High Performance Solar Cell. *Macromolecules*, **2015**, 48, 562-568	5.5	52
33	Low-temperature solution-processed perovskite solar cells with high efficiency and flexibility. *ACS Nano*, **2014**, 8, 1674-80	16.7	1216
32	Solution-processed hybrid perovskite photodetectors with high detectivity. *Nature Communications* , **2014**, 5, 5404	17.4	1749
31	Photovoltaics. Interface engineering of highly efficient perovskite solar cells. *Science*, **2014**, 345, 542-6	33.3	5272
30	Immiscible solvents enabled nanostructure formation for efficient polymer photovoltaic cells. *Nanotechnology*, **2014**, 25, 295401	3.4	6
29	An efficient triple-junction polymer solar cell having a power conversion efficiency exceeding 11%. *Advanced Materials*, **2014**, 26, 5670-7	24	718
28	Improving Structural Order for a High-Performance Diketopyrrolopyrrole-Based Polymer Solar Cell with a Thick Active Layer. *Advanced Energy Materials*, **2014**, 4, 1300739	21.8	39
27	Moisture assisted perovskite film growth for high performance solar cells. *Applied Physics Letters*, **2014**, 105, 183902	3.4	598
26	A selenium-substituted low-bandgap polymer with versatile photovoltaic applications. *Advanced Materials*, **2013**, 25, 825-31	24	370
25	25th anniversary article: a decade of organic/polymeric photovoltaic research. *Advanced Materials*, **2013**, 25, 6642-71	24	978
24	A polymer tandem solar cell with 10.6% power conversion efficiency. *Nature Communications*, **2013**, 4, 1446	17.4	2456
23	Recent trends in polymer tandem solar cells research. *Progress in Polymer Science*, **2013**, 38, 1909-1928	29.6	232
22	10.2% power conversion efficiency polymer tandem solar cells consisting of two identical sub-cells. *Advanced Materials*, **2013**, 25, 3973-8	24	403

21	Active layer-incorporated, spectrally tuned Au/SiO2 core/shell nanorod-based light trapping for organic photovoltaics. *ACS Nano*, **2013**, 7, 3815-22	16.7	124
20	High performance low band gap polymer solar cells with a non-conventional acceptor. *Chemical Communications*, **2012**, 48, 7616-8	5.8	31
19	Systematic investigation of benzodithiophene- and diketopyrrolopyrrole-based low-bandgap polymers designed for single junction and tandem polymer solar cells. *Journal of the American Chemical Society*, **2012**, 134, 10071-9	16.4	504
18	Tandem polymer solar cells featuring a spectrally matched low-bandgap polymer. *Nature Photonics*, **2012**, 6, 180-185	33.9	1299
17	Dual plasmonic nanostructures for high performance inverted organic solar cells. *Advanced Materials*, **2012**, 24, 3046-52	24	604
16	Metal oxide nanoparticles as an electron-transport layer in high-performance and stable inverted polymer solar cells. *Advanced Materials*, **2012**, 24, 5267-72	24	299
15	Surface Plasmon and Scattering-Enhanced Low-Bandgap Polymer Solar Cell by a Metal Grating Back Electrode. *Advanced Energy Materials*, **2012**, 2, 1203-1207	21.8	152
14	Plastic solar cells: breaking the 10% commercialization barrier **2012**,		5
13	Reduction of ordering temperature of self-assembled FePt nanoparticles by addition of Au and Ag. *Journal of Nanoscience and Nanotechnology*, **2011**, 11, 10548-52	1.3	4
12	Plasmonic polymer tandem solar cell. *ACS Nano*, **2011**, 5, 6210-7	16.7	304
11	Enhanced electroluminescence from ZnO-based heterojunction light-emitting diodes by hydrogen plasma treatment. *Physica Status Solidi - Rapid Research Letters*, **2011**, 5, 74-76	2.5	11
10	Spin-Coated Small Molecules for High Performance Solar Cells. *Advanced Energy Materials*, **2011**, 1, 771-775	21.8	221
9	Delivery of intact transcription factor by using self-assembled supramolecular nanoparticles. *Angewandte Chemie - International Edition*, **2011**, 50, 3058-62	16.4	63
8	Effects of hydrogen plasma treatment on the electrical and optical properties of ZnO films: identification of hydrogen donors in ZnO. *ACS Applied Materials & Interfaces*, **2010**, 2, 1780-4	9.5	79
7	Effects of crystalline quality on the ultraviolet emission and electrical properties of the ZnO films deposited by magnetron sputtering. *Applied Surface Science*, **2009**, 255, 5876-5880	6.7	15
6	Localized-Surface-Plasmon Enhanced the 357 nm Forward Emission from ZnMgO Films Capped by Pt Nanoparticles. *Nanoscale Research Letters*, **2009**, 4, 1121-1125	5	23
5	Comparison and combination of several stress relief methods for cubic boron nitride films deposited by ion beam assisted deposition. *Surface and Coatings Technology*, **2009**, 203, 1452-1456	4.4	12
4	Enhanced Proton Conduction in Polymer Electrolyte Membranes as Synthesized by Polymerization of Protic Ionic Liquid-Based Microemulsions. *Chemistry of Materials*, **2009**, 21, 1480-1484	9.6	134

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3	Magnetic Properties of FePt Nanoparticles Prepared by a Micellar Method. *Nanoscale Research Letters*, **2009**, 5, 1-6	5	32
2	Polymerization of Ionic Liquid-Based Microemulsions: A Versatile Method for the Synthesis of Polymer Electrolytes. *Macromolecules*, **2008**, 41, 3389-3392	5.5	62
1	Amplified Spontaneous Emission with a Low Threshold from Quasi-2D Perovskite Films via Phase Engineering and Surface Passivation. *Advanced Optical Materials*,2102563	8.1	3