Jingbi You

List of Publications by Year
in descending order

94 papers	36,881 citations	28242 55 h-index	39638 94 g-index
99 all docs	99 docs citations	99 times ranked	25395 citing authors

#	Article	IF	Citations
1	Amplified Spontaneous Emission with a Low Threshold from Quasiâ€2D Perovskite Films via Phase Engineering and Surface Passivation. Advanced Optical Materials, 2022, 10, .	3.6	15
2	Nickel oxide for inverted structure perovskite solar cells. Journal of Energy Chemistry, 2021, 52, 393-411.	7.1	132
3	Emerging Lowâ€Dimensional Crystal Structure of Metal Halide Perovskite Optoelectronic Materials and Devices. Small Structures, 2021, 2, 2000133.	6.9	33
4	Perovskite Lightâ€Emitting Diodes with External Quantum Efficiency Exceeding 22% via Smallâ€Molecule Passivation. Advanced Materials, 2021, 33, e2007169.	11.1	211
5	Broadband Photodetector Based on Inorganic Perovskite CsPbBr₃/GeSn Heterojunction. Small Methods, 2021, 5, e2100517.	4.6	26
6	Metastable Tetragonal BiFeO3 Stabilized on Anisotropic a-Plane ZnO. Crystal Growth and Design, 2021, 21, 4372-4379.	1.4	3
7	Updated Progresses in Perovskite Solar Cells. Chinese Physics Letters, 2021, 38, 107801.	1.3	11
8	Tailoring molecular termination for thermally stable perovskite solar cells. Journal of Semiconductors, 2021, 42, 112201.	2.0	3
9	Recent Progresses on Defect Passivation toward Efficient Perovskite Solar Cells. Advanced Energy Materials, 2020, 10, 1902650.	10.2	516
10	Stabilizing Î³â€CsPbI₃ Perovskite via Phenylethylammonium for Efficient Solar Cells with Openâ€Circuit Voltage over 1.3ÂV. Small, 2020, 16, e2005246.	5.2	67
11	Large cation ethylammonium incorporated perovskite for efficient and spectra stable blue light-emitting diodes. Nature Communications, 2020, 11, 4165.	5.8	217
12	Deep Ultraviolet Photodetectors Based on Carbon-Doped Two-Dimensional Hexagonal Boron Nitride. ACS Applied Materials & Interfaces, 2020, 12, 27361-27367.	4.0	37
13	Polymer hole-transport material improving thermal stability of inorganic perovskite solar cells. Frontiers of Optoelectronics, 2020, 13, 265-271.	1.9	10
14	Research progress in large-area perovskite solar cells. Photonics Research, 2020, 8, A1.	3.4	37
15	Compositional Engineering of Mixed-Cation Lead Mixed-Halide Perovskites for High-Performance Photodetectors. ACS Applied Materials & Interfaces, 2019, 11, 28005-28012.	4.0	27
16	Recent Progress in Highâ€efficiency Planarâ€structure Perovskite Solar Cells. Energy and Environmental Materials, 2019, 2, 93-106.	7.3	45
17	Cesium Lead Inorganic Solar Cell with Efficiency beyond 18% via Reduced Charge Recombination. Advanced Materials, 2019, 31, e1905143.	11.1	202
18	Stable Î²-CsPbI3 inorganic perovskites deliver photovoltaic efficiency beyond 18%. Science China Chemistry, 2019, 62, 1267-1268.	4.2	2

#	Article	IF	Citations
19	Stabilizing the black phase of cesium lead halide inorganic perovskite for efficient solar cells. Science China Chemistry, 2019, 62, 810-821.	4.2	40
20	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.	2.1	56
21	Remote heteroepitaxy of atomic layered hafnium disulfide on sapphire through hexagonal boron nitride. Nanoscale, 2019, 11, 9310-9318.	2.8	20
22	Two-dimensional hexagonal boronâ€“carbonâ€“nitrogen atomic layers. Nanoscale, 2019, 11, 10454-10462.	2.8	34
23	Epitaxial Liftoff of Waferâ€Scale VO₂ Nanomembranes for Flexible, Ultrasensitive Tactile Sensors. Advanced Materials Technologies, 2019, 4, 1800695.	3.0	30
24	Surface passivation of perovskite film for efficient solar cells. Nature Photonics, 2019, 13, 460-466.	15.6	3,458
25	Improved efficiency and photo-stability of methylamine-free perovskite solar cells via cadmium doping. Journal of Semiconductors, 2019, 40, 122201.	2.0	7
26	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.	2.7	53
27	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.	1.4	3
28	High-performance deep ultraviolet photodetectors based on few-layer hexagonal boron nitride. Nanoscale, 2018, 10, 5559-5565.	2.8	144
29	Interface Engineering of High-Performance Perovskite Photodetectors Based on PVP/SnO₂ Electron Transport Layer. ACS Applied Materials & Interfaces, 2018, 10, 6505-6512.	4.0	37
30	Efficient green light-emitting diodes based on quasi-two-dimensional composition and phase engineered perovskite with surface passivation. Nature Communications, 2018, 9, 570.	5.8	763
31	Addressing the stability issue of perovskite solar cells for commercial applications. Nature Communications, 2018, 9, 5265.	5.8	527
32	Composition and Interface Engineering for Efficient and Thermally Stable Pbâ€“Sn Mixed Lowâ€Bandgap Perovskite Solar Cells. Advanced Functional Materials, 2018, 28, 1804603.	7.8	87
33	Largeâ€Area Synthesis of Layered HfS_{2(1âˆ’}<i>_x</i>₎Se₂<i>_x</i> Alloys with Fully Tunable Chemical Compositions and Bandgaps. Advanced Materials, 2018, 30, e1803285.	11.1	41
34	Selective Direct Growth of Atomic Layered HfS₂ on Hexagonal Boron Nitride for High Performance Photodetectors. Chemistry of Materials, 2018, 30, 3819-3826.	3.2	51
35	Synergistic improvement of perovskite film quality for efficient solar cells via multiple chloride salt additives. Science Bulletin, 2018, 63, 726-731.	4.3	38
36	SnO₂: A Wonderful Electron Transport Layer for Perovskite Solar Cells. Small, 2018, 14, e1801154.	5.2	639

#	Article	IF	Citations
37	Solvent-controlled growth of inorganic perovskite films in dry environment for efficient and stable solar cells. Nature Communications, 2018, 9, 2225.	5.8	526
38	Efficient and Stable of Perovskite Optoelectronic Devices. , 2018, , .		0
39	Highly Efficient Electronâ€Selective Layer Free Perovskite Solar Cells by Constructing Effective pâ€“n Heterojunction. Solar Rrl, 2017, 1, 1600027.	3.1	82
40	Recent progress in stability of perovskite solar cells. Journal of Semiconductors, 2017, 38, 011002.	2.0	89
41	Enhanced piezoelectric response of the two-tetragonal-phase-coexisted BiFeO 3 epitaxial film. Solid State Communications, 2017, 252, 68-72.	0.9	9
42	Aligned Growth of Millimeterâ€Size Hexagonal Boron Nitride Singleâ€Crystal Domains on Epitaxial Nickel Thin Film. Small, 2017, 13, 1604179.	5.2	76
43	Ultra-bright and highly efficient inorganic based perovskite light-emitting diodes. Nature Communications, 2017, 8, 15640.	5.8	669
44	Planarâ€Structure Perovskite Solar Cells with Efficiency beyond 21%. Advanced Materials, 2017, 29, 1703852.	11.1	1,003
45	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.	2.7	93
46	Epitaxial growth of HfS ₂ on sapphire by chemical vapor deposition and application for photodetectors. 2D Materials, 2017, 4, 031012.	2.0	43
47	A high-performance photodetector based on an inorganic perovskiteâ€“ZnO heterostructure. Journal of Materials Chemistry C, 2017, 5, 6115-6122.	2.7	107
48	Enhanced electron extraction using SnO2 for high-efficiency planar-structure HC(NH2)2PbI3-based perovskite solar cells. Nature Energy, 2017, 2, .	19.8	1,633
49	Make perovskite solar cells stable. Nature, 2017, 544, 155-156.	13.7	304
50	Efficient and stable of perovskite solar cells. , 2016, , .		0
51	Inverted Planar Structure of Perovskite Solar Cells. , 2016, , 307-324.		2
52	High-efficiency robust perovskite solar cells on ultrathin flexible substrates. Nature Communications, 2016, 7, 10214.	5.8	534
53	Recent Advances in the Inverted Planar Structure of Perovskite Solar Cells. Accounts of Chemical Research, 2016, 49, 155-165.	7.6	559
54	Interfacial Degradation of Planar Lead Halide Perovskite Solar Cells. ACS Nano, 2016, 10, 218-224.	7.3	427

#	Article	IF	Citations
55	Improved air stability of perovskite solar cells via solution-processed metal oxide transport layers. Nature Nanotechnology, 2016, 11, 75-81.	15.6	1,890
56	Synthesis of Largeâ€Sized Singleâ€Crystal Hexagonal Boron Nitride Domains on Nickel Foils by Ion Beam Sputtering Deposition. Advanced Materials, 2015, 27, 8109-8115.	11.1	74
57	A Selenophene Containing Benzodithiophene-<i>alt</i>-thienothiophene Polymer for Additive-Free High Performance Solar Cell. Macromolecules, 2015, 48, 562-568.	2.2	59
58	Unraveling film transformations and device performance of planar perovskite solar cells. Nano Energy, 2015, 12, 494-500.	8.2	65
59	10.5% efficient polymer and amorphous silicon hybrid tandem photovoltaic cell. Nature Communications, 2015, 6, 6391.	5.8	45
60	Perovskite solar cells: film formation and properties. Journal of Materials Chemistry A, 2015, 3, 9032-9050.	5.2	392
61	The optoelectronic role of chlorine in CH3NH3PbI3(Cl)-based perovskite solar cells. Nature Communications, 2015, 6, 7269.	5.8	404
62	Integrated Perovskite/Bulk-Heterojunction toward Efficient Solar Cells. Nano Letters, 2015, 15, 662-668.	4.5	145
63	Moisture assisted perovskite film growth for high performance solar cells. Applied Physics Letters, 2014, 105, .	1.5	667
64	Low-Temperature Solution-Processed Perovskite Solar Cells with High Efficiency and Flexibility. ACS Nano, 2014, 8, 1674-1680.	7.3	1,320
65	Solution-processed hybrid perovskite photodetectors with high detectivity. Nature Communications, 2014, 5, 5404.	5.8	2,214
66	Interface engineering of highly efficient perovskite solar cells. Science, 2014, 345, 542-546.	6.0	5,936
67	Immiscible solvents enabled nanostructure formation for efficient polymer photovoltaic cells. Nanotechnology, 2014, 25, 295401.	1.3	8
68	An Efficient Tripleâ€Junction Polymer Solar Cell Having a Power Conversion Efficiency Exceeding 11%. Advanced Materials, 2014, 26, 5670-5677.	11.1	752
69	Improving Structural Order for a Highâ€Performance Diketopyrrolopyrroleâ€Based Polymer Solar Cell with a Thick Active Layer. Advanced Energy Materials, 2014, 4, 1300739.	10.2	43
70	A Seleniumâ€Substituted Lowâ€Bandgap Polymer with Versatile Photovoltaic Applications. Advanced Materials, 2013, 25, 825-831.	11.1	396
71	25th Anniversary Article: A Decade of Organic/Polymeric Photovoltaic Research. Advanced Materials, 2013, 25, 6642-6671.	11.1	1,055
72	A polymer tandem solar cell with 10.6% power conversion efficiency. Nature Communications, 2013, 4, 1446.	5.8	2,612

#	Article	IF	Citations
73	Recent trends in polymer tandem solar cells research. Progress in Polymer Science, 2013, 38, 1909-1928.	11.8	246
74	10.2% Power Conversion Efficiency Polymer Tandem Solar Cells Consisting of Two Identical Subâ€Cells. Advanced Materials, 2013, 25, 3973-3978.	11.1	419
75	Active Layer-Incorporated, Spectrally Tuned Au/SiO₂ Core/Shell Nanorod-Based Light Trapping for Organic Photovoltaics. ACS Nano, 2013, 7, 3815-3822.	7.3	134
76	Plastic solar cells: breaking the 10% commercialization barrier. Proceedings of SPIE, 2012, , .	0.8	5
77	High performance low band gap polymer solar cells with a non-conventional acceptor. Chemical Communications, 2012, 48, 7616.	2.2	33
78	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, 10071-10079.	6.6	530
79	Tandem polymer solar cells featuring a spectrally matched low-bandgap polymer. Nature Photonics, 2012, 6, 180-185.	15.6	1,374
80	Dual Plasmonic Nanostructures for High Performance Inverted Organic Solar Cells. Advanced Materials, 2012, 24, 3046-3052.	11.1	654
81	Metal Oxide Nanoparticles as an Electronâ€Transport Layer in Highâ€Performance and Stable Inverted Polymer Solar Cells. Advanced Materials, 2012, 24, 5267-5272.	11.1	333
82	Surface Plasmon and Scatteringâ€Enhanced Lowâ€Bandgap Polymer Solar Cell by a Metal Grating Back Electrode. Advanced Energy Materials, 2012, 2, 1203-1207.	10.2	160
83	Reduction of Ordering Temperature of Self-Assembled FePt Nanoparticles by Addition of Au and Ag. Journal of Nanoscience and Nanotechnology, 2011, 11, 10548-10552.	0.9	4
84	Plasmonic Polymer Tandem Solar Cell. ACS Nano, 2011, 5, 6210-6217.	7.3	326
85	Enhanced electroluminescence from ZnOâ€based heterojunction lightâ€emitting diodes by hydrogen plasma treatment. Physica Status Solidi - Rapid Research Letters, 2011, 5, 74-76.	1.2	11
86	Spinâ€Coated Small Molecules for High Performance Solar Cells. Advanced Energy Materials, 2011, 1, 771-775.	10.2	233
87	Delivery of Intact Transcription Factor by Using Selfâ€Assembled Supramolecular Nanoparticles. Angewandte Chemie - International Edition, 2011, 50, 3058-3062.	7.2	66
88	Magnetic Properties of FePt Nanoparticles Prepared by a Micellar Method. Nanoscale Research Letters, 2010, 5, 1-6.	3.1	34
89	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, 1780-1784.	4.0	91
90	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.	3.1	16

#	Article	IF	Citations
91	Localized-Surface-Plasmon Enhanced the 357 nm Forward Emission from ZnMgO Films Capped by Pt Nanoparticles. Nanoscale Research Letters, 2009, 4, 1121-1125.	3.1	26
92	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.	2.2	12
93	Enhanced Proton Conduction in Polymer Electrolyte Membranes as Synthesized by Polymerization of Protic Ionic Liquid-Based Microemulsions. Chemistry of Materials, 2009, 21, 1480-1484.	3.2	142
94	Polymerization of Ionic Liquid-Based Microemulsions: A Versatile Method for the Synthesis of Polymer Electrolytes. Macromolecules, 2008, 41, 3389-3392.	2.2	66