

Yiming Bai

List of Publications by Year in descending order

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papers

1,020
citations

361413

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454955

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53
times ranked

1490
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent Advances of Monolithic $\text{All}^{\text{sc}}\text{Perovskite}^{\text{sc}}$ Tandem Solar Cells: From Materials to Devices. Chinese Journal of Chemistry, 2022, 40, 856-871.	4.9	11
2	Balance PCE, AVT and CRI for good eye comfort semi-transparent organic photovoltaics via Ga_2O_3 or In_2O_3 electron collection layers. Organic Electronics, 2022, , 106572.	2.6	2
3	Ternary blend strategy in benzotriazole-based organic photovoltaics for indoor application. Green Energy and Environment, 2021, 6, 920-928.	8.7	23
4	Efficient organic solar cells with low-temperature in situ prepared Ga_2O_3 or In_2O_3 electron collection layers. Science China Materials, 2021, 64, 1095-1104.	6.3	5
5	Highly Efficient and Super Stable Full-Color Quantum Dots Light-Emitting Diodes with Solution-Processed All^{in} organic Charge Transport Layers. Small, 2021, 17, e2007363.	10.0	32
6	Quantifying charge transportation for stable organic solar cells with a novel aluminum acetylacetonone electron collection layer. Organic Electronics, 2021, 95, 106182.	2.6	2
7	Size-Controllable Metal Chelates as Both Light Scattering Centers and Electron Collection Layer for High-Performance Polymer Solar Cells. CCS Chemistry, 2021, 3, 37-49.	7.8	12
8	Strategies Toward Extending the Near-Infrared Photovoltaic Response of Perovskite Solar Cells. Solar Rrl, 2020, 4, 1900280.	5.8	13
9	Water-Soluble SnO_2 Nanoparticles as the Electron Collection Layer for Efficient and Stable Inverted Organic Tandem Solar Cells. ACS Applied Energy Materials, 2020, 3, 12662-12671.	5.1	12
10	High Performance Tandem Solar Cells with Inorganic Perovskite and Organic Conjugated Molecules to Realize Complementary Absorption. Journal of Physical Chemistry Letters, 2020, 11, 9596-9604.	4.6	35
11	Printable SnO_2 cathode interlayer with up to 500 nm thickness-tolerance for high-performance and large-area organic solar cells. Science China Chemistry, 2020, 63, 957-965.	8.2	38
12	Novel cathode buffer layer of $\text{Al}(\text{acac})_3$ enables efficient, large area and stable semi-transparent organic solar cells. Materials Chemistry Frontiers, 2020, 4, 2072-2080.	5.9	22
13	Facile Method of Solvent-Flushing To Building Component Distribution within Photoactive Layers for High-Performance Organic Solar Cells. ACS Applied Materials & Interfaces, 2020, 12, 31459-31466.	8.0	10
14	High Performance Quasi-2D Perovskite Sky-Blue Light-Emitting Diodes Using a Dual-Ligand Strategy. Small, 2020, 16, e2002940.	10.0	65
15	Low-temperature in-situ preparation of ZnO electron extraction layer for efficient inverted polymer solar cells. Organic Electronics, 2019, 74, 82-88.	2.6	18
16	Expanding the Light Harvesting of CsPbI_2Br to Near Infrared by Integrating with Organic Bulk Heterojunction for Efficient and Stable Solar Cells. ACS Applied Materials & Interfaces, 2019, 11, 37991-37998.	8.0	25
17	Enhancing charge transport in an organic photoactive layer via vertical component engineering for efficient perovskite/organic integrated solar cells. Nanoscale, 2019, 11, 4035-4043.	5.6	22
18	Multifunctional bipyramid- Au@ZnO core-shell nanoparticles as a cathode buffer layer for efficient non-fullerene inverted polymer solar cells with improved near-infrared photoresponse. Journal of Materials Chemistry A, 2019, 7, 2667-2676.	10.3	27

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19	Interfacial engineering and optical coupling for multicolored semitransparent inverted organic photovoltaics with a record efficiency of over 12%. <i>Journal of Materials Chemistry A</i> , 2019, 7, 15887-15894.	10.3	83
20	Tandem structure: a breakthrough in power conversion efficiency for highly efficient polymer solar cells. <i>Sustainable Energy and Fuels</i> , 2019, 3, 910-934.	4.9	28
21	Enhancing the electron blocking ability of n-type MoO ₃ by doping with p-type NiO for efficient nonfullerene polymer solar cells. <i>Organic Electronics</i> , 2019, 68, 168-175.	2.6	31
22	Semitransparent solar cells with over 12% efficiency based on a new low bandgap fluorinated small molecule acceptor. <i>Materials Chemistry Frontiers</i> , 2019, 3, 2483-2490.	5.9	55
23	Boosting photocurrent of GaInP top-cell for current-matched III-V monolithic multiple-junction solar cells via plasmonic decahedral-shaped Au nanoparticles. <i>Solar Energy</i> , 2018, 166, 181-186.	6.1	8
24	Extending absorption of near-infrared wavelength range for high efficiency CIGS solar cell via adjusting energy band. <i>Current Applied Physics</i> , 2018, 18, 484-490.	2.4	31
25	Synergy of a titanium chelate electron collection layer and a vertical phase separated photoactive layer for efficient inverted polymer solar cells. <i>Journal of Materials Chemistry A</i> , 2018, 6, 7257-7264.	10.3	20
26	Broadening the Photoresponse to Near-Infrared Region by Cooperating Fullerene and Nonfullerene Acceptors for High Performance Ternary Polymer Solar Cells. <i>Macromolecular Rapid Communications</i> , 2018, 39, 1700492.	3.9	10
27	Solution-Processed Titanium Chelate Used as Both Electrode Modification Layer and Intermediate Layer for Efficient Inverted Tandem Polymer Solar Cells. <i>Chinese Journal of Chemistry</i> , 2018, 36, 194-198.	4.9	19
28	Bright prospect of using alcohol-soluble Nb ₂ O ₅ as anode buffer layer for efficient polymer solar cells based on fullerene and non-fullerene acceptors. <i>Organic Electronics</i> , 2018, 52, 323-328.	2.6	14
29	Efficient Polymer Solar Cells with Alcohol-Soluble Zirconium(IV) Isopropoxide Cathode Buffer Layer. <i>Energies</i> , 2018, 11, 328.	3.1	6
30	Preparation and mechanism analysis of polycrystalline silicon thin films with preferred orientation on graphite substrate. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 1377-1383.	2.2	4
31	Constructing Desired Vertical Component Distribution Within a PBDB-T:ITIC-M Photoactive Layer via Fine-Tuning the Surface Free Energy of a Titanium Chelate Cathode Buffer Layer. <i>Frontiers in Chemistry</i> , 2018, 6, 292.	3.6	21
32	Perfect Complementary in Absorption Spectra with Fullerene, Nonfullerene Acceptors and Medium Band Gap Donor for High-Performance Ternary Polymer Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 29831-29839.	8.0	15
33	Fine Tuning the Light Distribution within the Photoactive Layer by Both Solution-Processed Anode and Cathode Interlayers for High Performance Polymer Solar Cells. <i>Solar Rrl</i> , 2018, 2, 1800141.	5.8	10
34	Enhanced Electron Injection and Exciton Confinement for Pure Blue Quantum-Dot Light-Emitting Diodes by Introducing Partially Oxidized Aluminum Cathode. <i>Journal of Visualized Experiments</i> , 2018, , .	0.3	1
35	Decahedral-shaped Au nanoparticles as plasmonic centers for high performance polymer solar cells. <i>Organic Electronics</i> , 2017, 43, 33-40.	2.6	24
36	Effect of Energy Alignment, Electron Mobility, and Film Morphology of Perylene Diimide Based Polymers as Electron Transport Layer on the Performance of Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 10983-10991.	8.0	76

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37	Pure Blue and Highly Luminescent Quantum-Dot Light-Emitting Diodes with Enhanced Electron Injection and Exciton Confinement via Partially Oxidized Aluminum Cathode. <i>Advanced Optical Materials</i> , 2017, 5, 1700035.	7.3	39
38	Incorporating an Electrode Modification Layer with a Vertical Phase Separated Photoactive Layer for Efficient and Stable Inverted Nonfullerene Polymer Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 43871-43879.	8.0	23
39	Efficient Planar Structured Perovskite Solar Cells with Enhanced Open-Circuit Voltage and Suppressed Charge Recombination Based on a Slow Grown Perovskite Layer from Lead Acetate Precursor. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 41937-41944.	8.0	23
40	The Effect of Donor and Nonfullerene Acceptor Inhomogeneous Distribution within the Photoactive Layer on the Performance of Polymer Solar Cells with Different Device Structures. <i>Polymers</i> , 2017, 9, 571.	4.5	18
41	Blue LEDs: Pure Blue and Highly Luminescent Quantum-Dot Light-Emitting Diodes with Enhanced Electron Injection and Exciton Confinement via Partially Oxidized Aluminum Cathode (Advanced) <i>Tj ETQq1 1 0.7843.34 rgBT /Overlock</i>		
42	Enhancing the Photocurrent of Top-Cell by Ellipsoidal Silver Nanoparticles: Towards Current-Matched GaInP/GaInAs/Ge Triple-Junction Solar Cells. <i>Nanomaterials</i> , 2016, 6, 98.	4.1	6
43	Performance Analysis of a Grid-connected High Concentrating Photovoltaic System under Practical Operation Conditions. <i>Energies</i> , 2016, 9, 117.	3.1	9
44	Regular Hexagonal Gold Nanoprisms Fabricated by a Physical Method: Toward Use as Ultrasensitive Surface-Enhanced Raman Scattering Substrates. <i>Particle and Particle Systems Characterization</i> , 2016, 33, 254-260.	2.3	5
45	Diversity in plasma arrival sequence correlated to oxygen deficiencies of oxide thin films grown by PLD. <i>Science China Materials</i> , 2015, 58, 269-273.	6.3	0
46	Elimination of small-sized Ag nanoparticles via rapid thermal annealing for high efficiency light trapping structure. <i>Applied Surface Science</i> , 2014, 315, 1-7.	6.1	20
47	Ag nanoparticles preparation and their light trapping performance. <i>Science China Technological Sciences</i> , 2013, 56, 109-114.	4.0	8
48	Sol-Gel Preparation, Characterization, and Photocatalytic Activity of Macroporous TiO ₂ Thin Films. <i>Journal of the American Ceramic Society</i> , 2011, 94, 1191-1197.	3.8	13
49	Improved performance of GaAs-based micro-solar cell with novel polyimide/SiO ₂ /TiAu/SiO ₂ structure. <i>Science China Technological Sciences</i> , 2011, 54, 830-834.	4.0	1
50	Quantifying the effectiveness of SiO ₂ /Au light trapping nanoshells for thin film poly-Si solar cells. <i>Science China Technological Sciences</i> , 2010, 53, 2228-2231.	4.0	3
51	Evaluating the effect of dislocation on the photovoltaic performance of metamorphic tandem solar cells. <i>Science China Technological Sciences</i> , 2010, 53, 2569-2574.	4.0	8
52	Aluminum induced crystallization of strongly (111) oriented polycrystalline silicon thin film and nucleation analysis. <i>Science China Technological Sciences</i> , 2010, 53, 3002-3005.	4.0	5
53	High-Efficiency Microcavity Semitransparent Organic Photovoltaics with Simultaneously Improved Average Visible Transmittance and Color Rendering Index. <i>Solar Rrl, 0, , 2200174</i> .	5.8	8