

# Yiming Bai

## List of Publications by Year in descending order

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53  
papers

1,020  
citations

361413

20  
h-index

454955

30  
g-index

53  
all docs

53  
docs citations

53  
times ranked

1490  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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 &amp; Interfaces</i> , 2017, 9, 10983-10991.	8.0	76
3	High Performance Quasi-2D Perovskite Sky-Blue Light-Emitting Diodes Using a Dual-Ligand Strategy. <i>Small</i> , 2020, 16, e2002940.	10.0	65
4	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
5	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
6	Printable SnO <sub>2</sub> cathode interlayer with up to 500 nm thickness-tolerance for high-performance and large-area organic solar cells. <i>Science China Chemistry</i> , 2020, 63, 957-965.	8.2	38
7	High Performance Tandem Solar Cells with Inorganic Perovskite and Organic Conjugated Molecules to Realize Complementary Absorption. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 9596-9604.	4.6	35
8	Highly Efficient and Super Stable Full-Color Quantum Dots Light-Emitting Diodes with Solution-Processed All-Inorganic Charge Transport Layers. <i>Small</i> , 2021, 17, e2007363.	10.0	32
9	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
10	Enhancing the electron blocking ability of n-type MoO <sub>3</sub> by doping with p-type NiO for efficient nonfullerene polymer solar cells. <i>Organic Electronics</i> , 2019, 68, 168-175.	2.6	31
11	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
12	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. <i>Journal of Materials Chemistry A</i> , 2019, 7, 2667-2676.	10.3	27
13	Expanding the Light Harvesting of CsPb <sub>2</sub> Br to Near Infrared by Integrating with Organic Bulk Heterojunction for Efficient and Stable Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 37991-37998.	8.0	25
14	Decahedral-shaped Au nanoparticles as plasmonic centers for high performance polymer solar cells. <i>Organic Electronics</i> , 2017, 43, 33-40.	2.6	24
15	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 &amp; Interfaces</i> , 2017, 9, 43871-43879.	8.0	23
16	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 &amp; Interfaces</i> , 2017, 9, 41937-41944.	8.0	23
17	Ternary blend strategy in benzotriazole-based organic photovoltaics for indoor application. <i>Green Energy and Environment</i> , 2021, 6, 920-928.	8.7	23
18	Enhancing charge transport in an organic photoactive layer via vertical component engineering for efficient perovskite/organic integrated solar cells. <i>Nanoscale</i> , 2019, 11, 4035-4043.	5.6	22

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19	Novel cathode buffer layer of Al(acac) <sub>3</sub> enables efficient, large area and stable semi-transparent organic solar cells. <i>Materials Chemistry Frontiers</i> , 2020, 4, 2072-2080.	5.9	22
20	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
21	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
22	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
23	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
24	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
25	Low-temperature in-situ preparation of ZnO electron extraction layer for efficient inverted polymer solar cells. <i>Organic Electronics</i> , 2019, 74, 82-88.	2.6	18
26	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 &amp; Interfaces</i> , 2018, 10, 29831-29839.	8.0	15
27	Bright prospect of using alcohol-soluble Nb <sub>2</sub> O <sub>5</sub> 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
28	Sol-Gel Preparation, Characterization, and Photocatalytic Activity of Macroporous TiO <sub>2</sub> Thin Films. <i>Journal of the American Ceramic Society</i> , 2011, 94, 1191-1197.	3.8	13
29	Strategies Toward Extending the Near-Infrared Photovoltaic Response of Perovskite Solar Cells. <i>Solar Rrl</i> , 2020, 4, 1900280.	5.8	13
30	Water-Soluble SnO <sub>2</sub> Nanoparticles as the Electron Collection Layer for Efficient and Stable Inverted Organic Tandem Solar Cells. <i>ACS Applied Energy Materials</i> , 2020, 3, 12662-12671.	5.1	12
31	Size-Controllable Metal Chelates as Both Light Scattering Centers and Electron Collection Layer for High-Performance Polymer Solar Cells. <i>CCS Chemistry</i> , 2021, 3, 37-49.	7.8	12
32	Recent Advances of Monolithic All-Perovskite Tandem Solar Cells: From Materials to Devices. <i>Chinese Journal of Chemistry</i> , 2022, 40, 856-871.	4.9	11
33	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
34	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
35	Facile Method of Solvent-Flushing To Building Component Distribution within Photoactive Layers for High-Performance Organic Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 31459-31466.	8.0	10
36	Performance Analysis of a Grid-connected High Concentrating Photovoltaic System under Practical Operation Conditions. <i>Energies</i> , 2016, 9, 117.	3.1	9

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37	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
38	Ag nanoparticles preparation and their light trapping performance. <i>Science China Technological Sciences</i> , 2013, 56, 109-114.	4.0	8
39	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
40	High-Efficiency Microcavity Semitransparent Organic Photovoltaics with Simultaneously Improved Average Visible Transmittance and Color Rendering Index. <i>Solar Rrl</i> , 0, , 2200174.	5.8	8
41	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
42	Efficient Polymer Solar Cells with Alcohol-Soluble Zirconium(IV) Isopropoxide Cathode Buffer Layer. <i>Energies</i> , 2018, 11, 328.	3.1	6
43	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
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	Efficient organic solar cells with low-temperature in situ prepared Ga <sub>2</sub> O <sub>3</sub> or In <sub>2</sub> O <sub>3</sub> electron collection layers. <i>Science China Materials</i> , 2021, 64, 1095-1104.	6.3	5
46	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
47	Quantifying the effectiveness of SiO <sub>2</sub> /Au light trapping nanoshells for thin film poly-Si solar cells. <i>Science China Technological Sciences</i> , 2010, 53, 2228-2231.	4.0	3
48	Quantifying charge transportation for stable organic solar cells with a novel aluminum acetylacetonate electron collection layer. <i>Organic Electronics</i> , 2021, 95, 106182.	2.6	2
49	Balance PCE, AVT and CRI for good eye comfort semi-transparent organic photovoltaics via Ga <sub>2</sub> O <sub>3</sub> or In <sub>2</sub> O <sub>3</sub> electron collection layers. <i>Organic Electronics</i> , 2022, , 106572.	2.6	2
50	Improved performance of GaAs-based micro-solar cell with novel polyimide/SiO <sub>2</sub> /TiAu/SiO <sub>2</sub> structure. <i>Science China Technological Sciences</i> , 2011, 54, 830-834.	4.0	1
51	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
52	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 ETQ0 0 0 rgBT/0 Overlock 10 Tf 50 1</i>		
53	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