

# Bo Wu

## List of Publications by Year in descending order

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Version: 2024-02-01

43  
papers

3,680  
citations

218677

26  
h-index

289244

40  
g-index

44  
all docs

44  
docs citations

44  
times ranked

7294  
citing authors

#	ARTICLE	IF	CITATIONS
1	Transcending the slow bimolecular recombination in lead-halide perovskites for electroluminescence. <i>Nature Communications</i> , 2017, 8, 14558.	12.8	473
2	Hot carrier cooling mechanisms in halide perovskites. <i>Nature Communications</i> , 2017, 8, 1300.	12.8	347
3	Discerning the Surface and Bulk Recombination Kinetics of Organic-Inorganic Halide Perovskite Single Crystals. <i>Advanced Energy Materials</i> , 2016, 6, 1600551.	19.5	271
4	Chemical Vapor Deposition of Large-Size Monolayer $\text{MoSe}_2$ Crystals on Molten Glass. <i>Journal of the American Chemical Society</i> , 2017, 139, 1073-1076.	13.7	258
5	Long Electron-Hole Diffusion Length in High-Quality Lead-Free Double Perovskite Films. <i>Advanced Materials</i> , 2018, 30, e1706246.	21.0	242
6	High-Performance As-Cast Nonfullerene Polymer Solar Cells with Thicker Active Layer and Large Area Exceeding 11% Power Conversion Efficiency. <i>Advanced Materials</i> , 2018, 30, 1704546.	21.0	233
7	Charge Accumulation and Hysteresis in Perovskite-Based Solar Cells: An Electro-Optical Analysis. <i>Advanced Energy Materials</i> , 2015, 5, 1500829.	19.5	217
8	Interfacial Electron Transfer Barrier at Compact $\text{TiO}_2/\text{CH}_3\text{NH}_3\text{PbI}_3$ Heterojunction. <i>Small</i> , 2015, 11, 3606-3613.	10.0	196
9	Long Minority-Carrier Diffusion Length and Low Surface-Recombination Velocity in Inorganic Lead-Free $\text{CsSnI}_3$ Perovskite Crystal for Solar Cells. <i>Advanced Functional Materials</i> , 2017, 27, 1604818.	14.9	164
10	Limitations of $\text{Cs}_3\text{Bi}_2\text{I}_9$ as Lead-Free Photovoltaic Absorber Materials. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 35000-35007.	8.0	133
11	Uncovering loss mechanisms in silver nanoparticle-blended plasmonic organic solar cells. <i>Nature Communications</i> , 2013, 4, 2004.	12.8	118
12	Spatial Separation of Charge Carriers in $\text{In}_2\text{O}_3$ (OH) Nanocrystal Superstructures for Enhanced Gas-Phase Photocatalytic Activity. <i>ACS Nano</i> , 2016, 10, 5578-5586.	14.6	118
13	Indirect tail states formation by thermal-induced polar fluctuations in halide perovskites. <i>Nature Communications</i> , 2019, 10, 484.	12.8	88
14	Superior Performance of Silver Bismuth Iodide Photovoltaics Fabricated via Dynamic Hot-Casting Method under Ambient Conditions. <i>Advanced Energy Materials</i> , 2018, 8, 1802051.	19.5	84
15	Energetics and dynamics in organic-inorganic halide perovskite photovoltaics and light emitters. <i>Nanotechnology</i> , 2015, 26, 342001.	2.6	75
16	Ultrafine Gold Nanowire Networks as Plasmonic Antennae in Organic Photovoltaics. <i>Journal of Physical Chemistry C</i> , 2012, 116, 6453-6458.	3.1	69
17	Origin of green emission and charge trapping dynamics in ZnO nanowires. <i>Physical Review B</i> , 2013, 87, .	3.2	68
18	Critical role of chloride in organic ammonium spacer on the performance of Low-dimensional Ruddlesden-Popper perovskite solar cells. <i>Nano Energy</i> , 2019, 56, 373-381.	16.0	59

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19	Prolonged Electron Lifetime in Ordered TiO <sub>2</sub> Mesophyll Cell-Like Microspheres for Efficient Photocatalytic Water Reduction and Oxidation. <i>Small</i> , 2016, 12, 2291-2299.	10.0	50
20	Efficiency Enhancement in Bulk-Heterojunction Solar Cells Integrated with Large-Area Ag Nanotriangle Arrays. <i>Journal of Physical Chemistry C</i> , 2012, 116, 14820-14825.	3.1	46
21	New Insights into the Correlation between Morphology, Excited State Dynamics, and Device Performance of Small Molecule Organic Solar Cells. <i>Advanced Energy Materials</i> , 2016, 6, 1600961.	19.5	34
22	Elucidating the Localized Plasmonic Enhancement Effects from a Single Ag Nanowire in Organic Solar Cells. <i>ACS Nano</i> , 2014, 8, 10101-10110.	14.6	33
23	Synthesis and Characterization of Mn:ZnSe/ZnS/ZnMnS Sandwiched QDs for Multimodal Imaging and Theranostic Applications. <i>Small</i> , 2016, 12, 534-546.	10.0	33
24	Doping and Switchable Photovoltaic Effect in Lead-Free Perovskites Enabled by Metal Cation Transmutation. <i>Advanced Materials</i> , 2018, 30, e1802080.	21.0	30
25	Surface Rutilization of Anatase TiO <sub>2</sub> for Efficient Electron Extraction and Stable P <sub>max</sub> Output of Perovskite Solar Cells. <i>CheM</i> , 2018, 4, 911-923.	11.7	28
26	Elucidating Surface and Bulk Emission in 3D Hybrid Organic-Inorganic Lead Bromide Perovskites. <i>Advanced Optical Materials</i> , 2018, 6, 1800470.	7.3	28
27	Performance Improvements in Polymer Nanofiber/Fullerene Solar Cells with External Electric Field Treatment. <i>Journal of Physical Chemistry C</i> , 2014, 118, 11285-11291.	3.1	26
28	Resonant Aluminum Nanodisk Array for Enhanced Tunable Broadband Light Trapping in Ultrathin Bulk Heterojunction Organic Photovoltaic Devices. <i>Plasmonics</i> , 2012, 7, 677-684.	3.4	22
29	Ultrafast Exciton Dynamics and Two-Photon Pumped Lasing from ZnSe Nanowires. <i>Advanced Optical Materials</i> , 2013, 1, 319-326.	7.3	22
30	Effectiveness of External Electric Field Treatment of Conjugated Polymers in Bulk-Heterojunction Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 32282-32291.	8.0	22
31	Enhanced Photovoltaic Performance and Thermal Stability of CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> Perovskite through Lattice Symmetrization. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 740-746.	8.0	20
32	Correlation between blend morphology and recombination dynamics in additive-added P3HT:PCBM solar cells. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 26111-26120.	2.8	15
33	Stable, accurate and efficient computation of normal modes for horizontal stratified models. <i>Geophysical Journal International</i> , 2016, 206, 1281-1300.	2.4	15
34	Size and surface effects on transient photoconductivity in CdS nanobelts probed by time-resolved terahertz spectroscopy. <i>Applied Physics Letters</i> , 2012, 101, 091104.	3.3	13
35	Enhancement of Performance and Mechanism Studies of All-Solution Processed Small-Molecule based Solar Cells with an Inverted Structure. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 21245-21253.	8.0	12
36	Accurate computation of leaky modes for anomalous layered models. <i>Annals of Geophysics</i> , 2017, 60, .	1.0	9

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37	A Versatile Solver of the Normal Modes for Horizontal Stratified Complicated Models. Seismological Research Letters, 2022, 93, 1852-1867.	1.9	3
38	Ag nanoparticle-blended plasmonic organic solar cells: performance enhancement or detracting?. , 2014, , .		2
39	Exciton Dynamics: Ultrafast Exciton Dynamics and Two-Photon Pumped Lasing from ZnSe Nanowires (Advanced Optical Materials 4/2013). Advanced Optical Materials, 2013, 1, 276-276.	7.3	1
40	Uniformly asymptotic eigensolutions of the Earth's toroidal modes. Geophysical Journal International, 2021, 228, 250-258.	2.4	1
41	Charge dynamics in alkanedithiols-additives in P3HT:PCBM bulk heterojunction solar cells. Proceedings of SPIE, 2014, , .	0.8	0
42	Size and Surface Effects on Transient Photoconductivity in CdS Nanobelts Probed by Optical Pump-Terahertz Probe Spectroscopy. , 2013, , .		0
43	Ultrafast Charge Carrier Dynamics and Upconversion Lasing from ZnSe Nanowires. , 2013, , .		0