

# Yi Wang

## List of Publications by Year in descending order

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papers

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times ranked

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#	ARTICLE	IF	CITATIONS
1	Stable, Ultralow Threshold Amplified Spontaneous Emission from CsPbBr <sub>3</sub> Nanoparticles Exhibiting Trion Gain. <i>Nano Letters</i> , 2018, 18, 4976-4984.	4.5	103
2	Hierarchical TiO <sub>2</sub> microspheres comprised of anatase nanospindles for improved electron transport in dye-sensitized solar cells. <i>Nanoscale</i> , 2013, 5, 324-330.	2.8	68
3	Trap-limited charge recombination in intrinsic perovskite film and meso-superstructured perovskite solar cells and the passivation effect of the hole-transport material on trap states. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 29501-29506.	1.3	36
4	Dual-functional hetero-structured TiO <sub>2</sub> nanotrees composed of rutile trunks and anatase branches for improved performance of quantum dot-sensitized solar cells. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 17798.	1.3	34
5	Correlation between Energy and Spatial Distribution of Intragap Trap States in the TiO <sub>2</sub> Photoanode of Dye-Sensitized Solar Cells. <i>ChemPhysChem</i> , 2015, 16, 2253-2259.	1.0	28
6	Mechanism of biphasic charge recombination and accumulation in TiO <sub>2</sub> mesoporous structured perovskite solar cells. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 12128-12134.	1.3	28
7	Density of state determination of two types of intra-gap traps in dye-sensitized solar cells and its influence on device performance. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 11626-11632.	1.3	26
8	Delayed Exciton Formation Involving Energetically Shallow Trap States in Colloidal CsPbBr <sub>3</sub> Quantum Dots. <i>Journal of Physical Chemistry C</i> , 2017, 121, 28498-28505.	1.5	26
9	Solution-based green amplified spontaneous emission from colloidal perovskite nanocrystals exhibiting high stability. <i>Applied Physics Letters</i> , 2019, 114, .	1.5	18
10	Influence of the MAI additive on grain boundaries, trap-state properties, and charge dynamics in perovskite solar cells. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 6162-6170.	1.3	18
11	The influence of morphology on charge transport/recombination dynamics in planar perovskite solar cells. <i>Chemical Physics Letters</i> , 2016, 662, 257-262.	1.2	17
12	Efficient promotion of charge separation and suppression of charge recombination by blending PCBM and its dimer as electron transport layer in inverted perovskite solar cells. <i>RSC Advances</i> , 2016, 6, 112512-112519.	1.7	15
13	The Influence of Structural Configuration on Charge Accumulation, Transport, Recombination, and Hysteresis in Perovskite Solar Cells. <i>Energy Technology</i> , 2017, 5, 442-451.	1.8	15
14	Multiple Trapping Model for the Charge Recombination Dynamics in Mesoporous Structured Perovskite Solar Cells. <i>ChemSusChem</i> , 2017, 10, 4872-4878.	3.6	11
15	Lewis Base Plays a Double-Edged-Sword Role in Trap State Engineering of Perovskite Polycrystals. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 1571-1577.	2.1	11
16	Effect of energetic distribution of trap states on fill factor in perovskite solar cells. <i>Journal of Power Sources</i> , 2020, 479, 229077.	4.0	10
17	Spacer Engineering of Thiophene-Based Two-Dimensional/Three-Dimensional Hybrid Perovskites for Stable and Efficient Solar Cells. <i>Journal of Physical Chemistry C</i> , 2022, 126, 3351-3358.	1.5	9
18	The Influence of Morphology and PbI <sub>2</sub> on the Intrinsic Trap State Distribution in Perovskite Films Determined by Using Temperature-Dependent Fluorescence Spectroscopy. <i>ChemPhysChem</i> , 2017, 18, 310-317.	1.0	7

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19	Simultaneous Transport Promotion and Recombination Suppression in Perovskite Solar Cells by Defect Passivation with Li-Doped Graphitic Carbon Nitride. <i>Journal of Physical Chemistry C</i> , 2021, 125, 5525-5533.	1.5	7
20	Polarization-Induced Trap States in Perovskite Solar Cells Revealed by Circuit-Switched Transient Photoelectric Technique. <i>Journal of Physical Chemistry C</i> , 2022, 126, 3696-3704.	1.5	7
21	The influence of hierarchical TiO <sub>2</sub> microspheres on the trap state distribution and charge transport/recombination dynamics in quantum dot sensitized solar cells. <i>RSC Advances</i> , 2015, 5, 32110-32117.	1.7	5
22	New insights into electrolyte-component biased and transfer- and transport-limited charge recombination in dye-sensitized solar cells. <i>RSC Advances</i> , 2015, 5, 84959-84966.	1.7	5
23	Lewis Base-Mediated Perovskite Crystallization as Revealed by In Situ, Real-Time Optical Absorption Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 5357-5362.	2.1	5
24	Hierarchical Multicomponent Nanoheterostructures via Facet-to-Facet Attachment of Anisotropic Semiconductor Nanoparticles. <i>Chemistry of Materials</i> , 2017, 29, 9075-9083.	3.2	3
25	Intragap State Engineering for Tunable Single-Photon Upconversion Photoluminescence of Lead Halide Perovskite. <i>Journal of Physical Chemistry C</i> , 2022, 126, 2447-2453.	1.5	3
26	Silicon Dioxide Nanoparticles Increase the Incidence Depth of Short-Wavelength Light in Active Layer for High-Performance Perovskite Solar Cells. <i>Journal of Physical Chemistry C</i> , 2022, 126, 7400-7409.	1.5	1
27	Application of a Simplified Diode Characteristic Model in Current-Voltage Curve Fitting and Evaluation of Photoelectric Parameters within Dye-Sensitized Solar Cell. <i>Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica</i> , 2015, 31, 1113-1117.	2.2	0