

Qian Zhao

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/927979/publications.pdf>

Version: 2024-02-01

32
papers

2,744
citations

304368

22
h-index

433756

31
g-index

34
all docs

34
docs citations

34
times ranked

3130
citing authors

#	ARTICLE	IF	CITATIONS
1	High efficiency perovskite quantum dot solar cells with charge separating heterostructure. Nature Communications, 2019, 10, 2842.	5.8	308
2	Enhanced Charge Transport in 2D Perovskites via Fluorination of Organic Cation. Journal of the American Chemical Society, 2019, 141, 5972-5979.	6.6	274
3	14.1% CsPb ₃ Perovskite Quantum Dot Solar Cells via Cesium Cation Passivation. Advanced Energy Materials, 2019, 9, 1900721.	10.2	254
4	Metal Halide Perovskites in Quantum Dot Solar Cells: Progress and Prospects. Joule, 2020, 4, 1160-1185.	11.7	211
5	Size-Dependent Lattice Structure and Confinement Properties in CsPb ₃ Perovskite Nanocrystals: Negative Surface Energy for Stabilization. ACS Energy Letters, 2020, 5, 238-247.	8.8	201
6	Perovskite Quantum Dot Photovoltaic Materials beyond the Reach of Thin Films: Full-Range Tuning of A-Site Cation Composition. ACS Nano, 2018, 12, 10327-10337.	7.3	186
7	Flexible and efficient perovskite quantum dot solar cells via hybrid interfacial architecture. Nature Communications, 2021, 12, 466.	5.8	176
8	Surface Ligand Management Aided by a Secondary Amine Enables Increased Synthesis Yield of CsPb ₃ Perovskite Quantum Dots and High Photovoltaic Performance. Advanced Materials, 2020, 32, e2000449.	11.1	137
9	Guanidinium-Assisted Surface Matrix Engineering for Highly Efficient Perovskite Quantum Dot Photovoltaics. Advanced Materials, 2020, 32, e2001906.	11.1	125
10	Gel ₂ Additive for High Optoelectronic Quality CsPb ₃ Quantum Dots and Their Application in Photovoltaic Devices. Chemistry of Materials, 2019, 31, 798-807.	3.2	112
11	Enhancing Charge Transport of 2D Perovskite Passivation Agent for Wide-Bandgap Perovskite Solar Cells Beyond 21%. Solar Rrl, 2020, 4, 2000082.	3.1	79
12	Tunable white-light emission by supramolecular self-sorting in highly swollen hydrogels. Chemical Communications, 2018, 54, 200-203.	2.2	73
13	Enhanced Open-Circuit Voltage of Wide-Bandgap Perovskite Photovoltaics by Using Alloyed (FA _{1-x} Cs _x)Pb(I _{1-x} Br _x) ₃ Quantum Dots. ACS Energy Letters, 2019, 4, 1954-1960.	3.8	73
14	Conductivity Tuning via Doping with Electron Donating and Withdrawing Molecules in Perovskite CsPb ₃ Nanocrystal Films. Advanced Materials, 2019, 31, e1902250.	11.1	66
15	Non-precious transition metals as counter electrode of perovskite solar cells. Energy Storage Materials, 2017, 7, 40-47.	9.5	56
16	Improving the photovoltaic performance of perovskite solar cells with acetate. Scientific Reports, 2016, 6, 38670.	1.6	55
17	Bioinspired, nucleobase-driven, highly resilient, and fast-responsive antifreeze ionic conductive hydrogels for durable pressure and strain sensors. Journal of Materials Chemistry A, 2021, 9, 20703-20713.	5.2	55
18	Reversibly Tunable White-Light Emissions of Styrylpyridiniums with Cucurbiturils in Aqueous Solution. Organic Letters, 2017, 19, 6650-6653.	2.4	53

#	ARTICLE	IF	CITATIONS
19	Macrocyclic crosslinked mesoporous polymers for ultrafast separation of organic dyes. <i>Chemical Communications</i> , 2018, 54, 7362-7365.	2.2	39
20	Colloidal Quantum Dot Solar Cells: Progressive Deposition Techniques and Future Prospects on Large-Area Fabrication. <i>Advanced Materials</i> , 2022, 34, e2107888.	11.1	39
21	Perovskite quantum dot solar cells: Mapping interfacial energetics for improving charge separation. <i>Nano Energy</i> , 2020, 78, 105319.	8.2	31
22	Role of Methyl Acetate in Highly Reproducible Efficient CsPbI ₃ Perovskite Quantum Dot Solar Cells. <i>Journal of Physical Chemistry C</i> , 2021, 125, 8469-8478.	1.5	29
23	Construction and drug delivery of a fluorescent TPE-bridged cyclodextrin/hyaluronic acid supramolecular assembly. <i>RSC Advances</i> , 2016, 6, 50673-50679.	1.7	20
24	Tunable photo-luminescence behaviors of macrocycle-containing polymer networks in the solid-state. <i>Chemical Communications</i> , 2018, 54, 6068-6071.	2.2	20
25	Controllable Photoluminescence Behaviors of Amphiphilic Porphyrin Supramolecular Assembly Mediated by Cyclodextrins. <i>Advanced Optical Materials</i> , 2017, 5, 1700770.	3.6	18
26	Probing the Origin of the Open Circuit Voltage in Perovskite Quantum Dot Photovoltaics. <i>ACS Nano</i> , 2021, 15, 19334-19344.	7.3	18
27	Ionic Liquids Modulating CsPbI ₃ Colloidal Quantum Dots Enable Improved Mobility for High-Performance Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 4061-4070.	4.0	17
28	Perovskite Solar Cells: Surface Ligand Management Aided by a Secondary Amine Enables Increased Synthesis Yield of CsPbI ₃ Perovskite Quantum Dots and High Photovoltaic Performance (<i>Adv. Mater.</i> 32/2020). <i>Advanced Materials</i> , 2020, 32, 2070243.	11.1	6
29	Reversible Degradation in Hole Transport Layer-Free Carbon-Based Perovskite Solar Cells. <i>Solar Rrl</i> , 2022, 6, .	3.1	4
30	The Isostructural Substitution-Induced Growth Mechanism of Rutile TiO ₂ Electron Transport Layer and the Dominant Distribution for Efficient Carbon-Based Perovskite Solar Cells. <i>Solar Rrl</i> , 2021, 5, 2100307.	3.1	3
31	Perovskite Quantum Dots. A New Absorber for Perovskite-Perovskite Tandem Solar Cells. , 2018, , .		2
32	Enhancing Charge Transport of 2D Perovskite Passivation Agent for Wide-Bandgap Perovskite Solar Cells Beyond 21%. <i>Solar Rrl</i> , 2020, 4, 2070065.	3.1	2