

Jia Zhang

List of Publications by Year in descending order

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26
papers

654
citations

623734

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docs citations

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times ranked

1129
citing authors

#	ARTICLE	IF	CITATIONS
1	Giant magneto field effect in up-conversion amplified spontaneous emission via spatially extended states in organic-inorganic hybrid perovskites. <i>Opto-Electronic Advances</i> , 2022, 5, 200051-200051.	13.3	7
2	Enabling AC electroluminescence in quasi-2D perovskites by uniformly arranging different-n-value nanoplates to allow bidirectional charge transport. <i>Nano Energy</i> , 2021, 79, 105413.	16.0	8
3	Revealing long-range orbit-orbit interaction between coherent light-emitting excitons occurring in amplified spontaneous emission in CsPbBr ₃ microstructures. <i>Journal of Materials Chemistry C</i> , 2021, 9, 6034-6039.	5.5	3
4	Slow Hot-Carrier Cooling Enabled by Uniformly Arranging Different-n-Value Nanoplates in Quasi-2D Perovskites through Long-Range Orbit-Orbit Interaction toward Enhancing Photovoltaic Actions. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 4072-4078.	4.6	7
5	Thermal and Humidity Stability of Mixed Spacer Cations 2D Perovskite Solar Cells. <i>Advanced Science</i> , 2021, 8, 2004510.	11.2	40
6	Aligning Transition Dipole Moment toward Light Amplification and Polarized Emission in Hybrid Perovskites. <i>Advanced Optical Materials</i> , 2021, 9, 2100984.	7.3	4
7	Self-Stimulated Dissociation in Non-Fullerene Organic Bulk-Heterojunction Solar Cells. <i>Joule</i> , 2020, 4, 2443-2457.	24.0	35
8	External Field-Tunable Internal Orbit-Orbit Interaction in Flexible Perovskites. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 10323-10328.	4.6	2
9	Doping Induced Orbit-Orbit Interaction between Excitons While Enhancing Photovoltaic Performance in Tin Perovskite Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 6996-7001.	4.6	10
10	Exploring Light Polarization Effects of Photovoltaic Actions in Organic-Inorganic Hybrid Perovskites with Asymmetric and Symmetric Unit Structures. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 38054-38060.	8.0	2
11	Identifying Photoinduced Dipolar Polarization and Orbit-Orbit Interaction between Excitons in Organic-Inorganic Hybrid Perovskites. <i>Advanced Functional Materials</i> , 2020, 30, 2003476.	14.9	9
12	Establishing charge-transfer excitons in 2D perovskite heterostructures. <i>Nature Communications</i> , 2020, 11, 2618.	12.8	58
13	Revealing photoinduced bulk polarization and spin-orbit coupling effects in high-efficiency 2D/3D Pb-Sn alloyed perovskite solar cells. <i>Nano Energy</i> , 2020, 76, 104999.	16.0	20
14	Tuning spin-orbit coupling towards enhancing photocurrent in hybrid organic-inorganic perovskites by using mixed organic cations. <i>Organic Electronics</i> , 2020, 81, 105671.	2.6	10
15	Extremely Long Spin Lifetime of Light-Emitting States in Quasi-2D Perovskites through Orbit-Orbit Interaction. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 3647-3652.	4.6	17
16	Uniform Permutation of Quasi-2D Perovskites by Vacuum Poling for Efficient, High-Fill-Factor Solar Cells. <i>Joule</i> , 2019, 3, 3061-3071.	24.0	177
17	Two-Photon Up-Conversion Photoluminescence Realized through Spatially Extended Gap States in Quasi-2D Perovskite Films. <i>Advanced Materials</i> , 2019, 31, 1901240.	21.0	23
18	Using Mechanical Stress to Investigate the Rashba Effect in Organic-Inorganic Hybrid Perovskites. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 5446-5450.	4.6	6

#	ARTICLE	IF	CITATIONS
19	Enabling Self-passivation by Attaching Small Grains on Surfaces of Large Grains toward High-Performance Perovskite LEDs. IScience, 2019, 19, 378-387.	4.1	26
20	Amplified Spontaneous Emission Realized by Cogrowing Large/Small Grains with Self-Passivating Defects and Aligning Transition Dipoles. Advanced Optical Materials, 2019, 7, 1900345.	7.3	19
21	Introducing optically polarizable molecules into perovskite solar cells by simultaneously enhanced spin-orbital coupling, suppressed non-radiative recombination and improved transport balance towards enhancing photovoltaic actions. Journal of Materials Chemistry C, 2018, 6, 6164-6171.	5.5	18
22	Exploring Anomalous Polarization Dynamics in Organometallic Halide Perovskites. Advanced Materials, 2018, 30, 1705298.	21.0	44
23	Exploring spin-orbital coupling effects on photovoltaic actions in Sn and Pb based perovskite solar cells. Nano Energy, 2017, 38, 297-303.	16.0	42
24	Photoinduced Bulk Polarization and Its Effects on Photovoltaic Actions in Perovskite Solar Cells. ACS Nano, 2017, 11, 11542-11549.	14.6	44
25	Facile synthesis of diverse graphene nanomeshes based on simultaneous regulation of pore size and surface structure. Scientific Reports, 2016, 6, 32310.	3.3	23
26	Revealing Charge Transfer Dynamics in Methylammonium Lead Bromide Perovskites via Transient Photoluminescence Characterization. ACS Applied Energy Materials, 0, , .	5.1	0