Jia Zhang

List of Publications by Year
in descending order

26	654	623734	580821
papers	citations	14 h-index	25 g-index

26	26	26	1129
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Uniform Permutation of Quasi-2D Perovskites by Vacuum Poling for Efficient, High-Fill-Factor Solar Cells. Joule, 2019, 3, 3061-3071.	24.0	177
2	Establishing charge-transfer excitons in 2D perovskite heterostructures. Nature Communications, 2020, 11, 2618.	12.8	58
3	Photoinduced Bulk Polarization and Its Effects on Photovoltaic Actions in Perovskite Solar Cells. ACS Nano, 2017, 11, 11542-11549.	14.6	44
4	Exploring Anomalous Polarization Dynamics in Organometallic Halide Perovskites. Advanced Materials, 2018, 30, 1705298.	21.0	44
5	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
6	Thermal and Humidity Stability of Mixed Spacer Cations 2D Perovskite Solar Cells. Advanced Science, 2021, 8, 2004510.	11.2	40
7	Self-Stimulated Dissociation in Non-Fullerene Organic Bulk-Heterojunction Solar Cells. Joule, 2020, 4, 2443-2457.	24.0	35
8	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
9	Facile synthesis of diverse graphene nanomeshes based on simultaneous regulation of pore size and surface structure. Scientific Reports, 2016, 6, 32310.	3.3	23
10	Twoâ€Photon Upâ€Conversion Photoluminescence Realized through Spatially Extended Gap States in Quasiâ€2D Perovskite Films. Advanced Materials, 2019, 31, 1901240.	21.0	23
11	Revealing photoinduced bulk polarization and spin-orbit coupling effects in high-efficiency 2D/3D Pbâ€“Sn alloyed perovskite solar cells. Nano Energy, 2020, 76, 104999.	16.0	20
12	Amplified Spontaneous Emission Realized by Cogrowing Large/Small Grains with Selfâ€Passivating Defects and Aligning Transition Dipoles. Advanced Optical Materials, 2019, 7, 1900345.	7.3	19
13	Introducing optically polarizable molecules into perovskite solar cells by simultaneously enhanced spinâ€“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
14	Extremely Long Spin Lifetime of Light-Emitting States in Quasi-2D Perovskites through Orbitâ€“Orbit Interaction. Journal of Physical Chemistry Letters, 2020, 11, 3647-3652.	4.6	17
15	Doping Induced Orbitâ€“Orbit Interaction between Excitons While Enhancing Photovoltaic Performance in Tin Perovskite Solar Cells. Journal of Physical Chemistry Letters, 2020, 11, 6996-7001.	4.6	10
16	Tuning spin-orbit coupling towards enhancing photocurrent in hybrid organic-inorganic perovskites by using mixed organic cations. Organic Electronics, 2020, 81, 105671.	2.6	10
17	Identifying Photoinduced Dipolar Polarization and Orbitâ€“Orbit Interaction between Excitons in Organicâ€“Inorganic Hybrid Perovskites. Advanced Functional Materials, 2020, 30, 2003476.	14.9	9
18	Enabling AC electroluminescence in quasi-2D perovskites by uniformly arranging different-n-value nanoplates to allow bidirectional charge transport. Nano Energy, 2021, 79, 105413.	16.0	8

#	Article	IF	Citations
19	Slow Hot-Carrier Cooling Enabled by Uniformly Arranging Different-n-Value Nanoplates in Quasi-2D Perovskites through Long-Range Orbitâ€“Orbit Interaction toward Enhancing Photovoltaic Actions. Journal of Physical Chemistry Letters, 2021, 12, 4072-4078.	4.6	7
20	Giant magneto field effect in up-conversion amplified spontaneous emission via spatially extended states in organic-inorganic hybrid perovskites. Opto-Electronic Advances, 2022, 5, 200051-200051.	13.3	7
21	Using Mechanical Stress to Investigate the Rashba Effect in Organicâ€“Inorganic Hybrid Perovskites. Journal of Physical Chemistry Letters, 2019, 10, 5446-5450.	4.6	6
22	Aligning Transition Dipole Moment toward Light Amplification and Polarized Emission in Hybrid Perovskites. Advanced Optical Materials, 2021, 9, 2100984.	7.3	4
23	Revealing longâ€“range orbitâ€“orbit interaction between coherent light-emitting excitons occurring in amplified spontaneous emission in CsPbBr3 microstructures. Journal of Materials Chemistry C, 2021, 9, 6034-6039.	5.5	3
24	External Field-Tunable Internal Orbitâ€“Orbit Interaction in Flexible Perovskites. Journal of Physical Chemistry Letters, 2020, 11, 10323-10328.	4.6	2
25	Exploring Light Polarization Effects of Photovoltaic Actions in Organicâ€“Inorganic Hybrid Perovskites with Asymmetric and Symmetric Unit Structures. ACS Applied Materials & Interfaces, 2020, 12, 38054-38060.	8.0	2
26	Revealing Charge Transfer Dynamics in Methylammonium Lead Bromide Perovskites via Transient Photoluminescence Characterization. ACS Applied Energy Materials, 0, , .	5.1	0