Fei Zheng

List of Publications by Year
in descending order

41 papers	1,751 citations	430754 18 h-index	302012 39 g-index
43 all docs	43 docs citations	43 times ranked	3019 citing authors

#	Article	IF	Citations
1	Millimeterâ€Sized Clusters of Triple Cation Perovskite Enables Highly Efficient and Reproducible Rollâ€toâ€Roll Fabricated Inverted Perovskite Solar Cells. Advanced Functional Materials, 2022, 32, .	7.8	36
2	Brownian Treeâ€Shaped Dendrites in Quasiâ€2D Perovskite Films and Their Impact on Photovoltaic Performance (Adv. Mater. Interfaces 13/2022). Advanced Materials Interfaces, 2022, 9, .	1.9	0
3	A sandwich-like structural model revealed for quasi-2D perovskite films. Journal of Materials Chemistry C, 2021, 9, 5362-5372.	2.7	14
4	Highly efficient radiative recombination in intrinsically zero-dimensional perovskite micro-crystals prepared by thermally-assisted solution-phase synthesis. RSC Advances, 2020, 10, 43579-43584.	1.7	4
5	Revealing the Role of Methylammonium Chloride for Improving the Performance of 2D Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2020, 12, 25980-25990.	4.0	47
6	Crystallisation control of drop-cast quasi-2D/3D perovskite layers for efficient solar cells. Communications Materials, 2020, 1, .	2.9	66
7	Reduced graphene oxide assisted charge separation and serving as transport pathways in planar perovskite photodetector. Organic Electronics, 2020, 81, 105663.	1.4	3
8	Transient Energy Reservoir in 2D Perovskites. Advanced Optical Materials, 2019, 7, 1900971.	3.6	46
9	The optical properties of Cs₄PbBr₆â€“CsPbBr₃ perovskite composites. Nanoscale, 2019, 11, 14676-14683.	2.8	40
10	LiTFSIâ€Free Spiroâ€OMeTADâ€Based Perovskite Solar Cells with Power Conversion Efficiencies Exceeding 19%. Advanced Energy Materials, 2019, 9, 1901519.	10.2	85
11	Perovskites: Triggering the Passivation Effect of Potassium Doping in Mixedâ€Cation Mixedâ€Halide Perovskite by Light Illumination (Adv. Energy Mater. 24/2019). Advanced Energy Materials, 2019, 9, 1970093.	10.2	1
12	Triggering the Passivation Effect of Potassium Doping in Mixedâ€Cation Mixedâ€Halide Perovskite by Light Illumination. Advanced Energy Materials, 2019, 9, 1901016.	10.2	109
13	Surface modification via self-assembling large cations for improved performance and modulated hysteresis of perovskite solar cells. Journal of Materials Chemistry A, 2019, 7, 6793-6800.	5.2	48
14	Optimizing the Crystallinity and Phase Separation of PTB7:PC₇₁BM Films by Modified Graphene Oxide. Journal of Physical Chemistry C, 2018, 122, 2572-2581.	1.5	12
15	Functionalized Graphene Oxide Enables a High-Performance Bulk Heterojunction Organic Solar Cell with a Thick Active Layer. Journal of Physical Chemistry Letters, 2018, 9, 6238-6248.	2.1	34
16	Universal passivation strategy to slot-die printed SnO2 for hysteresis-free efficient flexible perovskite solar module. Nature Communications, 2018, 9, 4609.	5.8	596
17	A Biomimetic Supramolecular Approach for Charge Transfer between Donor and Acceptor Chromophores with Aggregationâ€Induced Emission. Chemistry - A European Journal, 2018, 24, 14668-14678.	1.7	17
18	Slow Response of Carrier Dynamics in Perovskite Interface upon Illumination. ACS Applied Materials & Interfaces, 2018, 10, 31452-31461.	4.0	47

#	Article	IF	Citations
19	Poly(3-hexylthiophene) coated graphene oxide for improved performance of bulk heterojunction polymer solar cells. Organic Electronics, 2017, 44, 149-158.	1.4	23
20	Improved compatibility of DDAB-functionalized graphene oxide with a conjugated polymer by isocyanate treatment. RSC Advances, 2017, 7, 17633-17639.	1.7	12
21	Dual FÃ¶rster resonance energy transfer effects in non-fullerene ternary organic solar cells with the third component embedded in the donor and acceptor. Journal of Materials Chemistry A, 2017, 5, 12120-12130.	5.2	102
22	Laser-induced crystallization and conformation control of poly(3-hexylthiophene) for improving the performance of organic solar cells. Organic Electronics, 2017, 49, 157-164.	1.4	8
23	Improving the Compatibility of Donor Polymers in Efficient Ternary Organic Solar Cells via Post-Additive Soaking Treatment. ACS Applied Materials & Interfaces, 2017, 9, 618-627.	4.0	51
24	Molecular packing correlated fluorescence in TIPS-pentacene films. Organic Electronics, 2017, 49, 340-346.	1.4	15
25	Structural and optical properties of conjugated polymer and carbon-based non-fullerene material blend films for photovoltaic applications. Optical Materials Express, 2017, 7, 687.	1.6	10
26	Femtosecond laser processing induced low loss waveguides in multicomponent glasses. Optical Materials Express, 2017, 7, 3580.	1.6	16
27	Efficient photoinduced charge transfer in chemically-linked organic-metal Ag-P3HT nanocomposites. Optical Materials Express, 2016, 6, 3063.	1.6	3
28	Impact of solvent additive on exciton dissociation in P3HTâ€‰:â€‰EP-PDI blend film via controlling morphology. Journal Physics D: Applied Physics, 2016, 49, 255502.	1.3	3
29	Effects of Processing Solvent on the Photophysics and Nanomorphology of Poly(3-butyl-thiophene) Nanowires:PCBM Blends. Journal of Physical Chemistry Letters, 2016, 7, 1872-1879.	2.1	17
30	An Obvious Improvement in the Performance of Ternary Organic Solar Cells with â€œGuestâ€•Donor Present at the â€œHostâ€•Donor/Acceptor Interface. ACS Applied Materials & Interfaces, 2016, 8, 23212-23221.	4.0	44
31	Performance Enhancement in Polymer-Based Organic Optoelectronic Devices Enabled By Discontinuous Metal Interlayer. IEEE Journal of Photovoltaics, 2016, 6, 1522-1529.	1.5	4
32	Charge transfer dynamics in poly(3-hexylthiophene): nanodiamond blend films. Diamond and Related Materials, 2016, 64, 8-12.	1.8	9
33	Effect of alkyl side-chain length on the photophysical, morphology and photoresponse properties of poly(3-alkylthiophene). Journal Physics D: Applied Physics, 2015, 48, 485501.	1.3	6
34	Quantifying phase separation and interfacial area in organic photovoltaic bulk heterojunction processed with solvent additives. Chemical Physics, 2015, 457, 7-12.	0.9	5
35	Purified dispersions of graphene in a nonpolar solvent via solvothermal reduction of graphene oxide. Chemical Communications, 2015, 51, 3824-3827.	2.2	18
36	Homogeneous phase separation in polymer:fullerene bulk heterojunction organic solar cells. Organic Electronics, 2015, 25, 266-274.	1.4	33

#	Article	IF	Citations
37	Charge transfer from poly(3-hexylthiophene) to graphene oxide and reduced graphene oxide. RSC Advances, 2015, 5, 89515-89520.	1.7	89
38	FÃ¶rster Resonance Energy Transfer and Energy Cascade in Broadband Photodetectors with Ternary Polymer Bulk Heterojunction. Journal of Physical Chemistry C, 2015, 119, 21913-21920.	1.5	61
39	The structure and optical properties of regio-regular poly(3-hexylthiophene) and carboxylic multi-walled carbon nanotubes composite films. Journal Physics D: Applied Physics, 2014, 47, 505502.	1.3	12
40	Phase Separation in Poly(alkylthiophene): PCBM Bulk Heterojunctions Probed with Morphology, Optical Response and Aggregates Size. Energy and Environment Focus, 2014, 3, 375-382.	0.3	0
41	Brownian Treeâ€Shaped Dendrites in Quasiâ€2D Perovskite Films and Their Impact on Photovoltaic Performance. Advanced Materials Interfaces, 0, , 2102231.	1.9	4