

Fei Zheng

List of Publications by Year in descending order

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41
papers

1,751
citations

430754

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docs citations

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times ranked

3019
citing authors

#	ARTICLE	IF	CITATIONS
1	Universal passivation strategy to slot-die printed SnO ₂ for hysteresis-free efficient flexible perovskite solar module. <i>Nature Communications</i> , 2018, 9, 4609.	5.8	596
2	Triggering the Passivation Effect of Potassium Doping in Mixed-Cation Mixed-Halide Perovskite by Light Illumination. <i>Advanced Energy Materials</i> , 2019, 9, 1901016.	10.2	109
3	Dual Förster resonance energy transfer effects in non-fullerene ternary organic solar cells with the third component embedded in the donor and acceptor. <i>Journal of Materials Chemistry A</i> , 2017, 5, 12120-12130.	5.2	102
4	Charge transfer from poly(3-hexylthiophene) to graphene oxide and reduced graphene oxide. <i>RSC Advances</i> , 2015, 5, 89515-89520.	1.7	89
5	LiTFSI-Free Spiro-OMeTAD-Based Perovskite Solar Cells with Power Conversion Efficiencies Exceeding 19%. <i>Advanced Energy Materials</i> , 2019, 9, 1901519.	10.2	85
6	Crystallisation control of drop-cast quasi-2D/3D perovskite layers for efficient solar cells. <i>Communications Materials</i> , 2020, 1, .	2.9	66
7	Förster Resonance Energy Transfer and Energy Cascade in Broadband Photodetectors with Ternary Polymer Bulk Heterojunction. <i>Journal of Physical Chemistry C</i> , 2015, 119, 21913-21920.	1.5	61
8	Improving the Compatibility of Donor Polymers in Efficient Ternary Organic Solar Cells via Post-Additive Soaking Treatment. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 618-627.	4.0	51
9	Surface modification via self-assembling large cations for improved performance and modulated hysteresis of perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2019, 7, 6793-6800.	5.2	48
10	Slow Response of Carrier Dynamics in Perovskite Interface upon Illumination. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 31452-31461.	4.0	47
11	Revealing the Role of Methylammonium Chloride for Improving the Performance of 2D Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 25980-25990.	4.0	47
12	Transient Energy Reservoir in 2D Perovskites. <i>Advanced Optical Materials</i> , 2019, 7, 1900971.	3.6	46
13	An Obvious Improvement in the Performance of Ternary Organic Solar Cells with Guest-Donor Present at the Host-Donor/Acceptor Interface. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 23212-23221.	4.0	44
14	The optical properties of Cs ₄ PbBr ₆ –CsPbBr ₃ perovskite composites. <i>Nanoscale</i> , 2019, 11, 14676-14683.	2.8	40
15	Millimeter-Sized Clusters of Triple Cation Perovskite Enables Highly Efficient and Reproducible Roll-to-Roll Fabricated Inverted Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	36
16	Functionalized Graphene Oxide Enables a High-Performance Bulk Heterojunction Organic Solar Cell with a Thick Active Layer. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 6238-6248.	2.1	34
17	Homogeneous phase separation in polymer:fullerene bulk heterojunction organic solar cells. <i>Organic Electronics</i> , 2015, 25, 266-274.	1.4	33
18	Poly(3-hexylthiophene) coated graphene oxide for improved performance of bulk heterojunction polymer solar cells. <i>Organic Electronics</i> , 2017, 44, 149-158.	1.4	23

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19	Purified dispersions of graphene in a nonpolar solvent via solvothermal reduction of graphene oxide. <i>Chemical Communications</i> , 2015, 51, 3824-3827.	2.2	18
20	Effects of Processing Solvent on the Photophysics and Nanomorphology of Poly(3-butyl-thiophene) Nanowires:PCBM Blends. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 1872-1879.	2.1	17
21	A Biomimetic Supramolecular Approach for Charge Transfer between Donor and Acceptor Chromophores with Aggregation-Induced Emission. <i>Chemistry - A European Journal</i> , 2018, 24, 14668-14678.	1.7	17
22	Femtosecond laser processing induced low loss waveguides in multicomponent glasses. <i>Optical Materials Express</i> , 2017, 7, 3580.	1.6	16
23	Molecular packing correlated fluorescence in TIPS-pentacene films. <i>Organic Electronics</i> , 2017, 49, 340-346.	1.4	15
24	A sandwich-like structural model revealed for quasi-2D perovskite films. <i>Journal of Materials Chemistry C</i> , 2021, 9, 5362-5372.	2.7	14
25	The structure and optical properties of regio-regular poly(3-hexylthiophene) and carboxylic multi-walled carbon nanotubes composite films. <i>Journal Physics D: Applied Physics</i> , 2014, 47, 505502.	1.3	12
26	Improved compatibility of DDAB-functionalized graphene oxide with a conjugated polymer by isocyanate treatment. <i>RSC Advances</i> , 2017, 7, 17633-17639.	1.7	12
27	Optimizing the Crystallinity and Phase Separation of PTB7:PCBM Films by Modified Graphene Oxide. <i>Journal of Physical Chemistry C</i> , 2018, 122, 2572-2581.	1.5	12
28	Structural and optical properties of conjugated polymer and carbon-based non-fullerene material blend films for photovoltaic applications. <i>Optical Materials Express</i> , 2017, 7, 687.	1.6	10
29	Charge transfer dynamics in poly(3-hexylthiophene): nanodiamond blend films. <i>Diamond and Related Materials</i> , 2016, 64, 8-12.	1.8	9
30	Laser-induced crystallization and conformation control of poly(3-hexylthiophene) for improving the performance of organic solar cells. <i>Organic Electronics</i> , 2017, 49, 157-164.	1.4	8
31	Effect of alkyl side-chain length on the photophysical, morphology and photoresponse properties of poly(3-alkylthiophene). <i>Journal Physics D: Applied Physics</i> , 2015, 48, 485501.	1.3	6
32	Quantifying phase separation and interfacial area in organic photovoltaic bulk heterojunction processed with solvent additives. <i>Chemical Physics</i> , 2015, 457, 7-12.	0.9	5
33	Performance Enhancement in Polymer-Based Organic Optoelectronic Devices Enabled By Discontinuous Metal Interlayer. <i>IEEE Journal of Photovoltaics</i> , 2016, 6, 1522-1529.	1.5	4
34	Highly efficient radiative recombination in intrinsically zero-dimensional perovskite micro-crystals prepared by thermally-assisted solution-phase synthesis. <i>RSC Advances</i> , 2020, 10, 43579-43584.	1.7	4
35	Brownian Tree-Shaped Dendrites in Quasi-2D Perovskite Films and Their Impact on Photovoltaic Performance. <i>Advanced Materials Interfaces</i> , 0, , 2102231.	1.9	4
36	Efficient photoinduced charge transfer in chemically-linked organic-metal Ag-P3HT nanocomposites. <i>Optical Materials Express</i> , 2016, 6, 3063.	1.6	3

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37	Impact of solvent additive on exciton dissociation in P3HT:PCBM blend film via controlling morphology. <i>Journal Physics D: Applied Physics</i> , 2016, 49, 255502.	1.3	3
38	Reduced graphene oxide assisted charge separation and serving as transport pathways in planar perovskite photodetector. <i>Organic Electronics</i> , 2020, 81, 105663.	1.4	3
39	Perovskites: Triggering the Passivation Effect of Potassium Doping in Mixed-Cation Mixed-Halide Perovskite by Light Illumination (<i>Adv. Energy Mater.</i> 24/2019). <i>Advanced Energy Materials</i> , 2019, 9, 1970093.	10.2	1
40	Phase Separation in Poly(alkylthiophene): PCBM Bulk Heterojunctions Probed with Morphology, Optical Response and Aggregates Size. <i>Energy and Environment Focus</i> , 2014, 3, 375-382.	0.3	0
41	Brownian Tree-Shaped Dendrites in Quasi-2D Perovskite Films and Their Impact on Photovoltaic Performance (<i>Adv. Mater. Interfaces</i> 13/2022). <i>Advanced Materials Interfaces</i> , 2022, 9, .	1.9	0