Zilong Zheng

List of Publications by Year
in descending order

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23 papers	1,747 citations	516710 16 h-index	642732 23 g-index
23 all docs	23 docs citations	23 times ranked	2385 citing authors

#	Article	IF	Citations
1	In Situ Management of Ions Migration to Control Hysteresis Effect for Planar Heterojunction Perovskite Solar Cells. Advanced Functional Materials, 2022, 32, 2108417.	14.9	28
2	Lower limits for non-radiative recombination loss in organic donor/acceptor complexes. Materials Horizons, 2022, 9, 325-333.	12.2	12
3	Single-layer membranes for organic solvent nanofiltration: a molecular dynamics simulation and comparative experimental study. RSC Advances, 2022, 12, 7189-7198.	3.6	7
4	Anion Immobilization Enabled by Cationâ€Selective Separators for Dendriteâ€Free Lithium Metal Batteries. Advanced Functional Materials, 2022, 32, .	14.9	46
5	The impact of Ga and S concentration and gradient in Cu(In,Ga)(Se,S)2 solar cells. Optical Materials, 2022, 126, 112143.	3.6	3
6	Practical Zn anodes enabled by a Ti-MOF-derived coating for aqueous batteries. Journal of Materials Chemistry A, 2022, 10, 12247-12257.	10.3	25
7	Understanding liquefaction in halide perovskites upon methylamine gas exposure. RSC Advances, 2021, 11, 20423-20428.	3.6	1
8	Charge-transfer electronic states inÂorganic solar cells. Nature Reviews Materials, 2019, 4, 689-707.	48.7	229
9	Chargeâ€Transfer States at Organicâ€“Organic Interfaces: Impact of Static and Dynamic Disorders. Advanced Energy Materials, 2019, 9, 1803926.	19.5	54
10	Acceptor Gradient Polymer Donors for Non-Fullerene Organic Solar Cells. Chemistry of Materials, 2019, 31, 9729-9741.	6.7	15
11	A Setaria-inflorescence-structured catalyst based on nickelâ€“cobalt wrapped silver nanowire conductive networks for highly efficient hydrogen evolution. Journal of Materials Chemistry A, 2019, 7, 26566-26573.	10.3	10
12	Every Atom Counts: Elucidating the Fundamental Impact of Structural Change in Conjugated Polymers for Organic Photovoltaics. Chemistry of Materials, 2018, 30, 2995-3009.	6.7	39
13	Bulk Heterojunction Solar Cells: Impact of Minor Structural Modifications to the Polymer Backbone on the Polymerâ€“Fullerene Mixing and Packing and on the Fullereneâ€“Fullerene Connecting Network. Advanced Functional Materials, 2018, 28, 1705868.	14.9	30
14	Langmuirâ€“Blodgett Thin Films of Diketopyrrolopyrrole-Based Amphiphiles. ACS Applied Materials & Interfaces, 2018, 10, 11995-12004.	8.0	17
15	Donor Conjugated Polymers with Polar Side Chain Groups: The Role of Dielectric Constant and Energetic Disorder on Photovoltaic Performance. Advanced Functional Materials, 2018, 28, 1803418.	14.9	42
16	Design rules for minimizing voltage losses in high-efficiency organic solar cells. Nature Materials, 2018, 17, 703-709.	27.5	701
17	Increased Exciton Delocalization of Polymer upon Blending with Fullerene. Advanced Materials, 2018, 30, 1801392.	21.0	20
18	Charge-Transfer States in Organic Solar Cells: Understanding the Impact of Polarization, Delocalization, and Disorder. ACS Applied Materials & Interfaces, 2017, 9, 18095-18102.	8.0	90

#	Article	IF	Citations
19	What Is the Optoelectronic Effect of the Capsule on the Guest Molecule in Aqueous Host/Guest Complexes? A Combined Computational and Spectroscopic Perspective. Journal of Physical Chemistry C, 2017, 121, 15481-15488.	3.1	17
20	Effect of Solid-State Polarization on Charge-Transfer Excitations and Transport Levels at Organic Interfaces from a Screened Range-Separated Hybrid Functional. Journal of Physical Chemistry Letters, 2017, 8, 3277-3283.	4.6	84
21	Description of the Charge Transfer States at the Pentacene/C₆₀ Interface: Combining Range-Separated Hybrid Functionals with the Polarizable Continuum Model. Journal of Physical Chemistry Letters, 2016, 7, 2616-2621.	4.6	66
22	Static and Dynamic Energetic Disorders in the C₆₀, PC₆₁BM, C₇₀, and PC₇₁BM Fullerenes. Journal of Physical Chemistry Letters, 2015, 6, 3657-3662.	4.6	101
23	Orbital gap predictions for rational design of organic photovoltaic materials. Organic Electronics, 2014, 15, 1509-1520.	2.6	110