

Zilong Zheng

List of Publications by Year in descending order

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Version: 2024-02-01

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	Design rules for minimizing voltage losses in high-efficiency organic solar cells. <i>Nature Materials</i> , 2018, 17, 703-709.	27.5	701
2	Charge-transfer electronic states in Åorganic solar cells. <i>Nature Reviews Materials</i> , 2019, 4, 689-707.	48.7	229
3	Orbital gap predictions for rational design of organic photovoltaic materials. <i>Organic Electronics</i> , 2014, 15, 1509-1520.	2.6	110
4	Static and Dynamic Energetic Disorders in the C ₆₀ , PC ₆₁ BM, C ₇₀ , and PC ₇₁ BM Fullerenes. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 3657-3662.	4.6	101
5	Charge-Transfer States in Organic Solar Cells: Understanding the Impact of Polarization, Delocalization, and Disorder. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 18095-18102.	8.0	90
6	Effect of Solid-State Polarization on Charge-Transfer Excitations and Transport Levels at Organic Interfaces from a Screened Range-Separated Hybrid Functional. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 3277-3283.	4.6	84
7	Description of the Charge Transfer States at the Pentacene/C ₆₀ Interface: Combining Range-Separated Hybrid Functionals with the Polarizable Continuum Model. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 2616-2621.	4.6	66
8	Charge-Transfer States at Organic-Organic Interfaces: Impact of Static and Dynamic Disorders. <i>Advanced Energy Materials</i> , 2019, 9, 1803926.	19.5	54
9	Anion Immobilization Enabled by Cation-Selective Separators for Dendrite-Free Lithium Metal Batteries. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	46
10	Donor Conjugated Polymers with Polar Side Chain Groups: The Role of Dielectric Constant and Energetic Disorder on Photovoltaic Performance. <i>Advanced Functional Materials</i> , 2018, 28, 1803418.	14.9	42
11	Every Atom Counts: Elucidating the Fundamental Impact of Structural Change in Conjugated Polymers for Organic Photovoltaics. <i>Chemistry of Materials</i> , 2018, 30, 2995-3009.	6.7	39
12	Bulk Heterojunction Solar Cells: Impact of Minor Structural Modifications to the Polymer Backbone on the Polymer-Fullerene Mixing and Packing and on the Fullerene-Fullerene Connecting Network. <i>Advanced Functional Materials</i> , 2018, 28, 1705868.	14.9	30
13	In Situ Management of Ions Migration to Control Hysteresis Effect for Planar Heterojunction Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2022, 32, 2108417.	14.9	28
14	Practical Zn anodes enabled by a Ti-MOF-derived coating for aqueous batteries. <i>Journal of Materials Chemistry A</i> , 2022, 10, 12247-12257.	10.3	25
15	Increased Exciton Delocalization of Polymer upon Blending with Fullerene. <i>Advanced Materials</i> , 2018, 30, 1801392.	21.0	20
16	What Is the Optoelectronic Effect of the Capsule on the Guest Molecule in Aqueous Host/Guest Complexes? A Combined Computational and Spectroscopic Perspective. <i>Journal of Physical Chemistry C</i> , 2017, 121, 15481-15488.	3.1	17
17	Langmuir-Blodgett Thin Films of Diketopyrrolopyrrole-Based Amphiphiles. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 11995-12004.	8.0	17
18	Acceptor Gradient Polymer Donors for Non-Fullerene Organic Solar Cells. <i>Chemistry of Materials</i> , 2019, 31, 9729-9741.	6.7	15

#	ARTICLE	IF	CITATIONS
19	Lower limits for non-radiative recombination loss in organic donor/acceptor complexes. <i>Materials Horizons</i> , 2022, 9, 325-333.	12.2	12
20	A Setaria-inflorescence-structured catalyst based on nickel-cobalt wrapped silver nanowire conductive networks for highly efficient hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2019, 7, 26566-26573.	10.3	10
21	Single-layer membranes for organic solvent nanofiltration: a molecular dynamics simulation and comparative experimental study. <i>RSC Advances</i> , 2022, 12, 7189-7198.	3.6	7
22	The impact of Ga and S concentration and gradient in Cu(In,Ga)(Se,S) ₂ solar cells. <i>Optical Materials</i> , 2022, 126, 112143.	3.6	3
23	Understanding liquefaction in halide perovskites upon methylamine gas exposure. <i>RSC Advances</i> , 2021, 11, 20423-20428.	3.6	1