

Zezhou Liang

List of Publications by Year in descending order

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Version: 2024-02-01

27
papers

915
citations

567281

15
h-index

552781

26
g-index

27
all docs

27
docs citations

27
times ranked

677
citing authors

#	ARTICLE	IF	CITATIONS
1	Benzo[1,2- <i>b</i> :4,5- <i>b'</i>]-difuran Based Polymer Donor for High Efficiency (>16%) and Stable Organic Solar Cells. <i>Advanced Energy Materials</i> , 2022, 12, .	19.5	37
2	Ultrafast Kinetics of Chlorinated Polymer Donors: A Faster Excitonic Dissociation Path. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 6945-6957.	8.0	18
3	Achieving Efficient Polymer Solar Cells Based on Near-Infrared Absorptive Backbone Twisted Nonfullerene Acceptors through a Synergistic Strategy of an Indacenodiselenophene Fused-Ring Core and a Chlorinated Terminal Group. <i>ACS Applied Energy Materials</i> , 2022, 5, 1322-1330.	5.1	6
4	Nonlinear optical limiting property and carrier dynamics in tin phthalocyanine porous organic frameworks. <i>Journal of Chemical Physics</i> , 2022, 156, 054702.	3.0	5
5	Two Compatible Acceptors as an Alloy Model with a Halogen-Free Solvent for Efficient Ternary Polymer Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 9386-9397.	8.0	46
6	Non-Halogenated Polymer Donor-Based Organic Solar Cells with a Nearly 15% Efficiency Enabled by a Classic Ternary Strategy. <i>ACS Applied Energy Materials</i> , 2021, 4, 1774-1783.	5.1	47
7	Ultrafast Kinetics Investigation of a Fluorinated-Benzothiadiazole Polymer with an Increased Excited State Transition Dipole Moment Applied in Organic Solar Cells. <i>ACS Applied Energy Materials</i> , 2021, 4, 9627-9638.	5.1	14
8	Impact of fluorination on photovoltaic performance in high thermo- and photo-stability perylene diimide-based nonfullerene small molecular acceptors. <i>Optical Materials</i> , 2021, 121, 111593.	3.6	7
9	Rational Design and Characterization of Symmetry-Breaking Organic Semiconductors in Polymer Solar Cells: A Theory Insight of the Asymmetric Advantage. <i>Materials</i> , 2021, 14, 6723.	2.9	21
10	Fluorinated D1 _(0.5) -D2 _(0.5) -A model terpolymer: ultrafast charge separation kinetics and electron transfer at the fluorinated D/A interface for power conversion. <i>Journal of Materials Chemistry A</i> , 2020, 8, 1360-1367.	10.3	31
11	Non-toxic green food additive enables efficient polymer solar cells through adjusting the phase composition distribution and boosting charge transport. <i>Journal of Materials Chemistry C</i> , 2020, 8, 2483-2490.	5.5	51
12	Efficient inverted organic solar cells with a thin natural biomaterial L-Arginine as electron transport layer. <i>Solar Energy</i> , 2020, 196, 168-176.	6.1	51
13	Fluorination effect of benzo[<i>c</i>][1,2,5]thiadiazole-alt-oligothiophene-based copolymers involving all straight flexible side chain in photovoltaic application. <i>Optical Materials</i> , 2020, 108, 110321.	3.6	4
14	Aggregation Tuning with Heavily Fluorinated Donor Polymer for Efficient Organic Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 49849-49856.	8.0	10
15	Elevated Photovoltaic Performance in Medium Bandgap Copolymers Composed of Indacenodi-thieno[3,2- <i>b</i>]thiophene and Benzothiadiazole Subunits by Modulating the π -Bridge. <i>Polymers</i> , 2020, 12, 368.	4.5	10
16	Fluorination Effect for Highly Conjugated Alternating Copolymers Involving Thienylenevinylene-Thiophene-Flanked Benzodithiophene and Benzothiadiazole Subunits in Photovoltaic Application. <i>Polymers</i> , 2020, 12, 504.	4.5	7
17	Insights into Excitonic Dynamics of Terpolymer-Based High-Efficiency Nonfullerene Polymer Solar Cells: Enhancing the Yield of Charge Separation States. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 8475-8484.	8.0	62
18	Self-doping n-type polymer as a cathode interface layer enables efficient organic solar cells by increasing built-in electric field and boosting interface contact. <i>Journal of Materials Chemistry C</i> , 2019, 7, 11152-11159.	5.5	87

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19	An Alcohol-Soluble Polymer Electron Transport Layer Based on Perylene Diimide Derivatives for Polymer Solar Cells. <i>IEEE Journal of Photovoltaics</i> , 2019, 9, 1678-1685.	2.5	34
20	Synthesis and Photovoltaic Effect of Electron-Withdrawing Units for Low Band Gap Conjugated Polymers Bearing Bi(thienylenevinylene) Side Chains. <i>Polymers</i> , 2019, 11, 1461.	4.5	3
21	Enhanced Organic Photovoltaic Performance through Modulating Vertical Composition Distribution and Promoting Crystallinity of the Photoactive Layer by Diphenyl Sulfide Additives. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 7022-7029.	8.0	79
22	The comprehensive utilization of the synergistic effect of fullerene and non-fullerene acceptors to achieve highly efficient polymer solar cells. <i>Journal of Materials Chemistry A</i> , 2019, 7, 15841-15850.	10.3	118
23	Employing structurally similar acceptors as crystalline modulators to construct high efficiency ternary organic solar cells. <i>Journal of Materials Chemistry A</i> , 2019, 7, 7760-7765.	10.3	60
24	Synthesis and photovoltaic investigation of dithieno[2,3- <i>b</i> :2',3'- <i>b'</i>]benzo[1,2- <i>b</i> :3,4- <i>b'</i> :5,6- <i>c</i>]trithiophene-based conjugated polymer with an enlarged π -conjugated system. <i>Polymers for Advanced Technologies</i> , 2019, 30, 1290-1302.	3.2	2
25	Solution-processible Cd-doped ZnO nanoparticles as an electron transport layer to achieve high performance polymer solar cells through improve conductivity and light transmittance. <i>Molecular Crystals and Liquid Crystals</i> , 2019, 692, 74-82.	0.9	9
26	Enhanced efficiency of polymer solar cells through synergistic optimization of mobility and tuning donor alloys by adding high-mobility conjugated polymers. <i>Journal of Materials Chemistry C</i> , 2018, 6, 11015-11022.	5.5	87
27	36% Enhanced Efficiency of Ternary Organic Solar Cells by Doping a NT-Based Polymer as an Electron-Cascade Donor. <i>Polymers</i> , 2018, 10, 703.	4.5	9