# Zezhou Liang

List of Publications by Year
in descending order

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| 27 | 915 | 567281 15 | 552781 26 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 27 | 27 | 27 | 677 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | The comprehensive utilization of the synergistic effect of fullerene and non-fullerene acceptors to achieve highly efficient polymer solar cells. Journal of Materials Chemistry A, 2019, 7, 15841-15850. | 10.3 | 118 |
| 2 | Enhanced efficiency of polymer solar cells through synergistic optimization of mobility and tuning donor alloys by adding high-mobility conjugated polymers. Journal of Materials Chemistry C, 2018, 6, 11015-11022. | 5.5 | 87 |
| 3 | 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. Journal of Materials Chemistry C, 2019, 7, 11152-11159. | 5.5 | 87 |
| 4 | Enhanced Organic Photovoltaic Performance through Modulating Vertical Composition Distribution and Promoting Crystallinity of the Photoactive Layer by Diphenyl Sulfide Additives. ACS Applied Materials & Interfaces, 2019, 11, 7022-7029. | 8.0 | 79 |
| 5 | Insights into Excitonic Dynamics of Terpolymer-Based High-Efficiency Nonfullerene Polymer Solar Cells: Enhancing the Yield of Charge Separation States. ACS Applied Materials & Interfaces, 2020, 12, 8475-8484. | 8.0 | 62 |
| 6 | Employing structurally similar acceptors as crystalline modulators to construct high efficiency ternary organic solar cells. Journal of Materials Chemistry A, 2019, 7, 7760-7765. | 10.3 | 60 |
| 7 | Non-toxic green food additive enables efficient polymer solar cells through adjusting the phase composition distribution and boosting charge transport. Journal of Materials Chemistry C, 2020, 8, 2483-2490. | 5.5 | 51 |
| 8 | Efficient inverted organic solar cells with a thin natural biomaterial l-Arginine as electron transport layer. Solar Energy, 2020, 196, 168-176. | 6.1 | 51 |
| 9 | Non-Halogenated Polymer Donor-Based Organic Solar Cells with a Nearly 15% Efficiency Enabled by a Classic Ternary Strategy. ACS Applied Energy Materials, 2021, 4, 1774-1783. | 5.1 | 47 |
| 10 | Two Compatible Acceptors as an Alloy Model with a Halogen-Free Solvent for Efficient Ternary Polymer Solar Cells. ACS Applied Materials & Interfaces, 2022, 14, 9386-9397. | 8.0 | 46 |
| 11 | Benzo[1,2â€b:4,5â€bâ€²]difuran Based Polymer Donor for Highâ€Efficiency (>16%) and Stable Organic Solar Cells. Advanced Energy Materials, 2022, 12, . | 19.5 | 37 |
| 12 | An Alcohol-Soluble Polymer Electron Transport Layer Based on Perylene Diimide Derivatives for Polymer Solar Cells. IEEE Journal of Photovoltaics, 2019, 9, 1678-1685. | 2.5 | 34 |
| 13 | Fluorinated D1<sub>(0.5)</sub>â€“Aâ€“D2<sub>(0.5)</sub>â€“A model terpolymer: ultrafast charge separation kinetics and electron transfer at the fluorinated D/A interface for power conversion. Journal of Materials Chemistry A, 2020, 8, 1360-1367. | 10.3 | 31 |
| 14 | Rational Design and Characterization of Symmetry-Breaking Organic Semiconductors in Polymer Solar Cells: A Theory Insight of the Asymmetric Advantage. Materials, 2021, 14, 6723. | 2.9 | 21 |
| 15 | Ultrafast Kinetics of Chlorinated Polymer Donors: A Faster Excitonic Dissociation Path. ACS Applied Materials & Interfaces, 2022, 14, 6945-6957. | 8.0 | 18 |
| 16 | Ultrafast Kinetics Investigation of a Fluorinated-Benzothiadiazole Polymer with an Increased Excited State Transition Dipole Moment Applied in Organic Solar Cells. ACS Applied Energy Materials, 2021, 4, 9627-9638. | 5.1 | 14 |
| 17 | Aggregation Tuning with Heavily Fluorinated Donor Polymer for Efficient Organic Solar Cells. ACS Applied Materials & Interfaces, 2020, 12, 49849-49856. | 8.0 | 10 |
| 18 | Elevated Photovoltaic Performance in Medium Bandgap Copolymers Composed of Indacenodi-thieno[3,2-b]thiophene and Benzothiadiazole Subunits by Modulating the Ï€-Bridge. Polymers, 2020, 12, 368. | 4.5 | 10 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | 36% Enhanced Efficiency of Ternary Organic Solar Cells by Doping a NT-Based Polymer as an Electron-Cascade Donor. Polymers, 2018, 10, 703. | 4.5 | 9 |
| 20 | Solution-processible Cd-doped ZnO nanoparticles as an electron transport layer to achieve high performance polymer solar cells through improve conductivity and light transmittance. Molecular Crystals and Liquid Crystals, 2019, 692, 74-82. | 0.9 | 9 |
| 21 | Fluorination Effect for Highly Conjugated Alternating Copolymers Involving Thienylenevinylene-Thiophene-Flanked Benzodithiophene and Benzothiadiazole Subunits in Photovoltaic Application. Polymers, 2020, 12, 504. | 4.5 | 7 |
| 22 | Impact of fluorination on photovoltaic performance in high thermo- and photo-stability perylene diimide-based nonfullerene small molecular acceptors. Optical Materials, 2021, 121, 111593. | 3.6 | 7 |
| 23 | 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. ACS Applied Energy Materials, 2022, 5, 1322-1330. | 5.1 | 6 |
| 24 | Nonlinear optical limiting property and carrier dynamics in tin phthalocyanine porous organic frameworks. Journal of Chemical Physics, 2022, 156, 054702. | 3.0 | 5 |
| 25 | Fluorination effect of benzo[c][1,2,5]thiadiazole-alt-oligothiophene-based copolymers involving all straight flexible side chain in photovoltaic application. Optical Materials, 2020, 108, 110321. | 3.6 | 4 |
| 26 | Synthesis and Photovoltaic Effect of Electron-Withdrawing Units for Low Band Gap Conjugated Polymers Bearing Bi(thienylenevinylene) Side Chains. Polymers, 2019, 11, 1461. | 4.5 | 3 |
| 27 | Synthesis and photovoltaic investigation of dithieno[2,3â€d:2â€²,3â€²â€dâ€²]â€benzo[1,2â€b:3,4â€bâ€²:5,6â€dâ€³]trithiopheneâ€based conjugated polymer with an enlarged Ïâ€conjugated system. Polymers for Advanced Technologies, 2019, 30, 1290-1302. | 3.2 | 2 |