# Ziqi Liang

List of Publications by Year
in descending order

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| 68 | 4,564 | 117619 | 98792 |
|---|---|---|---|
| papers | citations | 34 h-index | 67 g-index |

| 70 | 70 | 70 | 7703 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | 2D Ruddlesdenâ€“Popper Perovskites for Optoelectronics. Advanced Materials, 2018, 30, 1703487. | 21.0 | 613 |
| 2 | Solution processed organic thermoelectrics: towards flexible thermoelectric modules. Energy and Environmental Science, 2015, 8, 401-422. | 30.8 | 360 |
| 3 | Oneâ€Step Hydrothermal Synthesis of 2D Hexagonal Nanoplates of Î±â€Fe<sub>2</sub>O<sub>3</sub>/Graphene Composites with Enhanced Photocatalytic Activity. Advanced Functional Materials, 2014, 24, 5719-5727. | 14.9 | 331 |
| 4 | Tailoring Organic Cation of 2D Airâ€Stable Organometal Halide Perovskites for Highly Efficient Planar Solar Cells. Advanced Energy Materials, 2017, 7, 1700162. | 19.5 | 312 |
| 5 | Insights into charge carrier dynamics in organo-metal halide perovskites: from neat films to solar cells. Chemical Society Reviews, 2017, 46, 5714-5729. | 38.1 | 197 |
| 6 | Structure and Growth Control of Organicâ€“Inorganic Halide Perovskites for Optoelectronics: From Polycrystalline Films to Single Crystals. Advanced Science, 2016, 3, 1500392. | 11.2 | 193 |
| 7 | Thick Film Polymer Solar Cells Based on Naphtho[1,2â€c:5,6â€c]bis[1,2,5]thiadiazole Conjugated Polymers with Efficiency over 11%. Advanced Energy Materials, 2017, 7, 1700944. | 19.5 | 136 |
| 8 | Efficient and Balanced Charge Transport Revealed in Planar Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2015, 7, 4471-4475. | 8.0 | 131 |
| 9 | Non-Thermal Annealing Fabrication of Efficient Planar Perovskite Solar Cells with Inclusion of NH<sub>4</sub>Cl. Chemistry of Materials, 2015, 27, 1448-1451. | 6.7 | 123 |
| 10 | Triple-cation mixed-halide perovskites: towards efficient, annealing-free and air-stable solar cells enabled by Pb(SCN)2 additive. Scientific Reports, 2017, 7, 46193. | 3.3 | 109 |
| 11 | Ultrasensitive Photodetectors Based on Island-Structured CH<sub>3</sub>NH<sub>3</sub>PbI<sub>3</sub> Thin Films. ACS Applied Materials & Interfaces, 2015, 7, 21634-21638. | 8.0 | 108 |
| 12 | Bendable nâ€Type Metallic Nanocomposites with Large Thermoelectric Power Factor. Advanced Materials, 2017, 29, 1604752. | 21.0 | 96 |
| 13 | Inter-phase charge and energy transfer in Ruddlesdenâ€“Popper 2D perovskites: critical role of the spacing cations. Journal of Materials Chemistry A, 2018, 6, 6244-6250. | 10.3 | 94 |
| 14 | 3D Printing Fabrication of Amorphous Thermoelectric Materials with Ultralow Thermal Conductivity. Small, 2015, 11, 5889-5894. | 10.0 | 93 |
| 15 | Ternary Blend Strategy for Achieving Highâ€Efficiency Organic Solar Cells with Nonfullerene Acceptors Involved. Advanced Functional Materials, 2018, 28, 1802004. | 14.9 | 85 |
| 16 | Electroluminochromic Materials and Devices. Advanced Functional Materials, 2016, 26, 2783-2799. | 14.9 | 84 |
| 17 | Phase Engineering in Quasi-2D Ruddlesdenâ€“Popper Perovskites. Journal of Physical Chemistry Letters, 2018, 9, 2627-2631. | 4.6 | 82 |
| 18 | Interfacial engineering by using self-assembled monolayer in mesoporous perovskite solar cell. RSC Advances, 2015, 5, 94290-94295. | 3.6 | 76 |

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|---|---|---|---|
| 19 | Long-term stable silver nanowire transparent composite as bottom electrode for perovskite solar cells. Nano Research, 2018, 11, 1998-2011. | 10.4 | 71 |
| 20 | Lead Replacement in CH<sub>3</sub>NH<sub>3</sub>PbI<sub>3</sub> Perovskites. Advanced Electronic Materials, 2015, 1, 1500089. | 5.1 | 67 |
| 21 | Swift Electrofluorochromism of Donorâ€“Acceptor Conjugated Polytriphenylamines. ACS Applied Materials & Interfaces, 2016, 8, 18301-18308. | 8.0 | 64 |
| 22 | Benefiting from Spontaneously Generated 2D/3D Bulkâ€Heterojunctions in Ruddlesdenâ^'Popper Perovskite by Incorporation of Sâ€Bearing Spacer Cation. Advanced Science, 2019, 6, 1900548. | 11.2 | 61 |
| 23 | Defect Engineering in Ï€-Conjugated Polymers. Chemistry of Materials, 2009, 21, 4914-4919. | 6.7 | 59 |
| 24 | Hot-Injection Synthesis of Cu-Doped Cu<sub>2</sub>ZnSnSe<sub>4</sub> Nanocrystals to Reach Thermoelectric zT of 0.70 at 450 Â°C. ACS Applied Materials & Interfaces, 2015, 7, 24403-24408. | 8.0 | 55 |
| 25 | Enabling room-temperature processed highly efficient and stable 2D Ruddlesdenâ€“Popper perovskite solar cells with eliminated hysteresis by synergistic exploitation of additives and solvents. Journal of Materials Chemistry A, 2019, 7, 2015-2021. | 10.3 | 55 |
| 26 | Advancing Tin Halide Perovskites: Strategies toward the ASnX<sub>3</sub> Paradigm for Efficient and Durable Optoelectronics. ACS Energy Letters, 2020, 5, 2052-2086. | 17.4 | 54 |
| 27 | Nonconfinement Structure Revealed in Dionâ€“Jacobson Type Quasiâ€2D Perovskite Expedites Interlayer Charge Transport. Small, 2019, 15, e1905081. | 10.0 | 51 |
| 28 | Compensating Poly(3â€hexylthiophene) Reveals Its Doping Density and Its Strong Exciton Quenching by Free Carriers. Advanced Materials, 2012, 24, 3258-3262. | 21.0 | 49 |
| 29 | Efficient and Stable Ternary Organic Solar Cells Based on Two Planar Nonfullerene Acceptors with Tunable Crystallinity and Phase Miscibility. ACS Applied Materials & Interfaces, 2017, 9, 20704-20710. | 8.0 | 47 |
| 30 | Nanomaterials in Electrochemiluminescence Sensors. ChemElectroChem, 2017, 4, 1651-1662. | 3.4 | 46 |
| 31 | Recent Advances in nâ€Type Thermoelectric Nanocomposites. Advanced Electronic Materials, 2019, 5, 1800943. | 5.1 | 46 |
| 32 | Dimensional crossover of heat conduction in amorphous polyimide nanofibers. National Science Review, 2018, 5, 500-506. | 9.5 | 43 |
| 33 | Flexible Thermoelectric Generators with Ultrahigh Output Power Enabled by Magnetic Fieldâ€“Aligned Metallic Nanowires. Advanced Electronic Materials, 2018, 4, 1800200. | 5.1 | 42 |
| 34 | Implementing an intermittent spin-coating strategy to enable bottom-up crystallization in layered halide perovskites. Nature Communications, 2021, 12, 6603. | 12.8 | 35 |
| 35 | Nonvolatile chlorinated additives adversely influence CH<sub>3</sub>NH<sub>3</sub>PbI<sub>3</sub>based planar solar cells. Journal of Materials Chemistry A, 2015, 3, 9137-9140. | 10.3 | 34 |
| 36 | Thermoelectric Enhancement of Ternary Copper Chalcogenide Nanocrystals by Magnetic Nickel Doping. Advanced Electronic Materials, 2016, 2, 1500473. | 5.1 | 30 |

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|---|---|---|---|
| 37 | Unveiling Excitonic Dynamics in Highâ€Efficiency Nonfullerene Organic Solar Cells to Direct Morphological Optimization for Suppressing Charge Recombination. Advanced Science, 2019, 6, 1802103. | 11.2 | 30 |
| 38 | Airâ€Stable and Selfâ€Driven Perovskite Photodiodes with High On/Off Ratio and Swift Photoresponse. Small, 2018, 14, e1802764. | 10.0 | 26 |
| 39 | Mechanistic Investigation into Dynamic Function of Third Component Incorporated in Ternary Nearâ€Infrared Nonfullerene Organic Solar Cells. Advanced Functional Materials, 2020, 30, 2001564. | 14.9 | 25 |
| 40 | Imidazole additives in 2D halide perovskites: impacts of â€“CN versus â€“CH<sub>3</sub> substituents reveal the mediation of crystal growth by phase buffering. Energy and Environmental Science, 2022, 15, 3321-3330. | 30.8 | 25 |
| 41 | Chemically Treating Poly(3-hexylthiophene) Defects to Improve Bulk Heterojunction Photovoltaics. ACS Applied Materials & Interfaces, 2011, 3, 2042-2050. | 8.0 | 24 |
| 42 | FAPbCl<sub>3</sub> Perovskite as Alternative Interfacial Layer for Highly Efficient and Stable Polymer Solar Cells. Advanced Electronic Materials, 2016, 2, 1600329. | 5.1 | 24 |
| 43 | Light and Thermally Induced Evolutional Charge Transport in CH3NH3PbI3 Perovskite Solar Cells. ACS Energy Letters, 2016, 1, 1000-1006. | 17.4 | 23 |
| 44 | Composition Engineering in Two-Dimensional Pbâ€“Sn-Alloyed Perovskites for Efficient and Stable Solar Cells. ACS Applied Materials & Interfaces, 2018, 10, 21343-21348. | 8.0 | 23 |
| 45 | Semiconducting polymer contributes favorably to the Seebeck coefficient in multi-component, high-performance n-type thermoelectric nanocomposites. Journal of Materials Chemistry A, 2020, 8, 9797-9805. | 10.3 | 20 |
| 46 | Synergetic Solvent Engineering of Film Nanomorphology to Enhance Planar Perylene Diimide-Based Organic Photovoltaics. ACS Applied Materials & Interfaces, 2016, 8, 22418-22424. | 8.0 | 18 |
| 47 | 2D/1A Strategy to Regulate Film Morphology for Efficient and Stable Nonfullerene Organic Solar Cells. Macromolecules, 2017, 50, 6954-6960. | 4.8 | 18 |
| 48 | Transient Extraction of Holes and Electrons Separately Unveils the Transport Dynamics in Organic Photovoltaics. Advanced Electronic Materials, 2016, 2, 1500333. | 5.1 | 17 |
| 49 | Non-Conjugated Polymers for Organic Photovoltaics: Physical and Optoelectronic Properties of Poly(perylene diimides). Journal of Physical Chemistry C, 2010, 114, 6784-6790. | 3.1 | 16 |
| 50 | Asymmetric Spacer in Dionâ€“Jacobson Halide Perovskites Induces Staggered Alignment to Direct Outâ€ofâ€Plane Carrier Transport and Enhances Ambient Stability Simultaneously. Advanced Functional Materials, 2021, 31, 2104342. | 14.9 | 16 |
| 51 | Correlating Molecular Structures with Transport Dynamics in High-Efficiency Small-Molecule Organic Photovoltaics. ACS Applied Materials & Interfaces, 2015, 7, 13137-13141. | 8.0 | 15 |
| 52 | Developing Yâ€Branched Polymer Acceptor with 3D Architecture to Reconcile Between Crystallinity and Miscibility Yielding >15%ÂEfficient Allâ€Polymer Solar Cells. Advanced Science, 2022, 9, . | 11.2 | 15 |
| 53 | Achieving Efficient pâ€Type Organic Thermoelectrics by Modulation of Acceptor Unit in Photovoltaic Ï€â€Conjugated Copolymers. Advanced Science, 2022, 9, e2103646. | 11.2 | 13 |
| 54 | Solventâ€Mediated nâ€Type Doping of SWCNTs to Achieve Superior Thermoelectric Power Factor. Advanced Materials Technologies, 2020, 5, 2000288. | 5.8 | 12 |

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|---|---|---|---|
| 55 | Extraction Current Transients for Selective Charge-Carrier Mobility Determination in Non-Fullerene and Ternary Bulk Heterojunction Organic Solar Cells. ACS Applied Energy Materials, 2020, 3, 9190-9197. | 5.1 | 10 |
| 56 | Organic and Hybrid Thermoelectrics. Advanced Electronic Materials, 2019, 5, 1900650. | 5.1 | 9 |
| 57 | Developing Halogenâ€Free Polymer Donors for Efficient Nonfullerene Organic Solar Cells by Addition of Highly Electronâ€Deficient Diketopyrrolopyrrole Unit. Solar Rrl, 2021, 5, 2100142. | 5.8 | 9 |
| 58 | Ultra-high electrical conductivity and superior bendability simultaneously enabled in Ag nanowire based nanocomposites. RSC Advances, 2017, 7, 44254-44258. | 3.6 | 7 |
| 59 | Topological Design of Inorganicâ€“Organic Thermoelectric Nanocomposites Based on â€œElectronâ€“Percolation Phononâ€“Insulatorâ€•Concept. ACS Applied Energy Materials, 2018, 1, 2927-2933. | 5.1 | 7 |
| 60 | Activation Energy Spectra: Insights into Transport Limitations of Organic Semiconductors and Photovoltaic Cells. Advanced Functional Materials, 2012, 22, 1087-1091. | 14.9 | 6 |
| 61 | Fine Control of Side Chains in Random Ï€â€Conjugated Terpolymers for Organic Photovoltaics. Macromolecular Chemistry and Physics, 2016, 217, 1513-1520. | 2.2 | 6 |
| 62 | Efficient pâ€Type Doping of Tin Halide Perovskite via Sequential Diffusion for Thermoelectrics. Small Science, 2022, 2, . | 9.9 | 5 |
| 63 | Facile fabrication of highly flexible, porous PEDOT:PSS/SWCNTs films for thermoelectric applications. Chinese Physics B, 2022, 31, 027303. | 1.4 | 4 |
| 64 | Perovskites: Structure and Growth Control of Organicâ€“Inorganic Halide Perovskites for Optoelectronics: From Polycrystalline Films to Single Crystals (Adv. Sci. 4/2016). Advanced Science, 2016, 3, . | 11.2 | 2 |
| 65 | Enhancing charge separation in conjugated microporous polymers for efficient photocatalytic hydrogen evolution. Materials Advances, 2021, 2, 7379-7383. | 5.4 | 2 |
| 66 | 3D Printing: 3D Printing Fabrication of Amorphous Thermoelectric Materials with Ultralow Thermal Conductivity (Small 44/2015). Small, 2015, 11, 5888-5888. | 10.0 | 1 |
| 67 | Solution Processable n-Type Perylene Diimide Copolymers for Organic Photovoltaics. Materials Research Society Symposia Proceedings, 2011, 1286, 58. | 0.1 | 0 |
| 68 | Conjugated Polymers-Based Chemical and Biological Sensors. , 2016, , 175-203. | | 0 |