

Ziqi Liang

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

65
papers

3,546
citations

31
h-index

59
g-index

70
ext. papers

4,057
ext. citations

12.2
avg, IF

5.87
L-index

#	Paper	IF	Citations
65	Implementing an intermittent spin-coating strategy to enable bottom-up crystallization in layered halide perovskites. <i>Nature Communications</i> , 2021 , 12, 6603	17.4	9
64	Achieving Efficient p-Type Organic Thermoelectrics by Modulation of Acceptor Unit in Photovoltaic π -Conjugated Copolymers. <i>Advanced Science</i> , 2021 , e2103646	13.6	4
63	Developing Halogen-Free Polymer Donors for Efficient Nonfullerene Organic Solar Cells by Addition of Highly Electron-Deficient Diketopyrrolopyrrole Unit. <i>Solar Rrl</i> , 2021 , 5, 2100142	7.1	3
62	Asymmetric Spacer in Dion-Jacobson Halide Perovskites Induces Staggered Alignment to Direct Out-of-Plane Carrier Transport and Enhances Ambient Stability Simultaneously. <i>Advanced Functional Materials</i> , 2021 , 31, 2104342	15.6	4
61	Advancing Tin Halide Perovskites: Strategies toward the ASnX ₃ Paradigm for Efficient and Durable Optoelectronics. <i>ACS Energy Letters</i> , 2020 , 5, 2052-2086	20.1	27
60	Mechanistic Investigation into Dynamic Function of Third Component Incorporated in Ternary Near-Infrared Nonfullerene Organic Solar Cells. <i>Advanced Functional Materials</i> , 2020 , 30, 2001564	15.6	15
59	Semiconducting polymer contributes favorably to the Seebeck coefficient in multi-component, high-performance n-type thermoelectric nanocomposites. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 9797-9805 ¹¹	13.3	11
58	Solvent-Mediated n-Type Doping of SWCNTs to Achieve Superior Thermoelectric Power Factor. <i>Advanced Materials Technologies</i> , 2020 , 5, 2000288	6.8	8
57	Extraction Current Transients for Selective Charge-Carrier Mobility Determination in Non-Fullerene and Ternary Bulk Heterojunction Organic Solar Cells. <i>ACS Applied Energy Materials</i> , 2020 , 3, 9190-9197	6.1	5
56	Enabling room-temperature processed highly efficient and stable 2D Ruddlesden-Popper perovskite solar cells with eliminated hysteresis by synergistic exploitation of additives and solvents. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 2015-2021	13	39
55	Benefiting from Spontaneously Generated 2D/3D Bulk-Heterojunctions in Ruddlesden-Popper Perovskite by Incorporation of S-Bearing Spacer Cation. <i>Advanced Science</i> , 2019 , 6, 1900548	13.6	38
54	Recent Advances in n-Type Thermoelectric Nanocomposites. <i>Advanced Electronic Materials</i> , 2019 , 5, 1800943	6.4	32
53	Nonconfinement Structure Revealed in Dion-Jacobson Type Quasi-2D Perovskite Expedites Interlayer Charge Transport. <i>Small</i> , 2019 , 15, e1905081	11	28
52	Unveiling Excitonic Dynamics in High-Efficiency Nonfullerene Organic Solar Cells to Direct Morphological Optimization for Suppressing Charge Recombination. <i>Advanced Science</i> , 2019 , 6, 1802103 ^{13.6}	13.6	24
51	Dimensional crossover of heat conduction in amorphous polyimide nanofibers. <i>National Science Review</i> , 2018 , 5, 500-506	10.8	25
50	Phase Engineering in Quasi-2D Ruddlesden-Popper Perovskites. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 2627-2631	6.4	64
49	Inter-phase charge and energy transfer in Ruddlesden-Popper 2D perovskites: critical role of the spacing cations. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 6244-6250	13	70

48	2D Ruddlesden-Popper Perovskites for Optoelectronics. <i>Advanced Materials</i> , 2018 , 30, 1703487	24	423
47	Long-term stable silver nanowire transparent composite as bottom electrode for perovskite solar cells. <i>Nano Research</i> , 2018 , 11, 1998-2011	10	48
46	Flexible Thermoelectric Generators with Ultrahigh Output Power Enabled by Magnetic Field-Aligned Metallic Nanowires. <i>Advanced Electronic Materials</i> , 2018 , 4, 1800200	6.4	35
45	Topological Design of Inorganic/Organic Thermoelectric Nanocomposites Based on Electron Percolation Phonon Insulator Concept. <i>ACS Applied Energy Materials</i> , 2018 , 1, 2927-2933	6.1	6
44	Composition Engineering in Two-Dimensional Pb-Sn-Alloyed Perovskites for Efficient and Stable Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 21343-21348	9.5	16
43	Air-Stable and Self-Driven Perovskite Photodiodes with High On/Off Ratio and Swift Photoresponse. <i>Small</i> , 2018 , 14, e1802764	11	22
42	Ternary Blend Strategy for Achieving High-Efficiency Organic Solar Cells with Nonfullerene Acceptors Involved. <i>Advanced Functional Materials</i> , 2018 , 28, 1802004	15.6	77
41	Tailoring Organic Cation of 2D Air-Stable Organometal Halide Perovskites for Highly Efficient Planar Solar Cells. <i>Advanced Energy Materials</i> , 2017 , 7, 1700162	21.8	257
40	Efficient and Stable Ternary Organic Solar Cells Based on Two Planar Nonfullerene Acceptors with Tunable Crystallinity and Phase Miscibility. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 20704-20710	9.5	40
39	Nanomaterials in Electrochemiluminescence Sensors. <i>ChemElectroChem</i> , 2017 , 4, 1651-1662	4.3	33
38	Triple-cation mixed-halide perovskites: towards efficient, annealing-free and air-stable solar cells enabled by Pb(SCN) additive. <i>Scientific Reports</i> , 2017 , 7, 46193	4.9	92
37	2D/1A Strategy to Regulate Film Morphology for Efficient and Stable Nonfullerene Organic Solar Cells. <i>Macromolecules</i> , 2017 , 50, 6954-6960	5.5	17
36	Thick Film Polymer Solar Cells Based on Naphtho[1,2-c:5,6-c']bis[1,2,5]thiadiazole Conjugated Polymers with Efficiency over 11%. <i>Advanced Energy Materials</i> , 2017 , 7, 1700944	21.8	115
35	Ultra-high electrical conductivity and superior bendability simultaneously enabled in Ag nanowire based nanocomposites. <i>RSC Advances</i> , 2017 , 7, 44254-44258	3.7	7
34	Insights into charge carrier dynamics in organo-metal halide perovskites: from neat films to solar cells. <i>Chemical Society Reviews</i> , 2017 , 46, 5714-5729	58.5	147
33	Bendable n-Type Metallic Nanocomposites with Large Thermoelectric Power Factor. <i>Advanced Materials</i> , 2017 , 29, 1604752	24	87
32	Synergetic Solvent Engineering of Film Nanomorphology to Enhance Planar Perylene Diimide-Based Organic Photovoltaics. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 22418-24	9.5	15
31	Perovskites: Structure and Growth Control of Organic/Inorganic Halide Perovskites for Optoelectronics: From Polycrystalline Films to Single Crystals (Adv. Sci. 4/2016). <i>Advanced Science</i> , 2016 , 3,	13.6	1

30	FAPbCl ₃ Perovskite as Alternative Interfacial Layer for Highly Efficient and Stable Polymer Solar Cells. <i>Advanced Electronic Materials</i> , 2016 , 2, 1600329	6.4	21
29	Light and Thermally Induced Evolutional Charge Transport in CH ₃ NH ₃ PbI ₃ Perovskite Solar Cells. <i>ACS Energy Letters</i> , 2016 , 1, 1000-1006	20.1	20
28	Conjugated Polymers-Based Chemical and Biological Sensors 2016 , 175-203		
27	Thermoelectric Enhancement of Ternary Copper Chalcogenide Nanocrystals by Magnetic Nickel Doping. <i>Advanced Electronic Materials</i> , 2016 , 2, 1500473	6.4	18
26	Swift Electrofluorochromism of Donor-Acceptor Conjugated Polytriphenylamines. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 18301-8	9.5	54
25	Transient Extraction of Holes and Electrons Separately Unveils the Transport Dynamics in Organic Photovoltaics. <i>Advanced Electronic Materials</i> , 2016 , 2, 1500333	6.4	17
24	Structure and Growth Control of Organic-Inorganic Halide Perovskites for Optoelectronics: From Polycrystalline Films to Single Crystals. <i>Advanced Science</i> , 2016 , 3, 1500392	13.6	152
23	Fine Control of Side Chains in Random Conjugated Terpolymers for Organic Photovoltaics. <i>Macromolecular Chemistry and Physics</i> , 2016 , 217, 1513-1520	2.6	6
22	Electroluminescent Materials and Devices. <i>Advanced Functional Materials</i> , 2016 , 26, 2783-2799	15.6	69
21	Efficient and balanced charge transport revealed in planar perovskite solar cells. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 4471-5	9.5	105
20	Non-Thermal Annealing Fabrication of Efficient Planar Perovskite Solar Cells with Inclusion of NH ₄ Cl. <i>Chemistry of Materials</i> , 2015 , 27, 1448-1451	9.6	114
19	Nonvolatile chlorinated additives adversely influence CH ₃ NH ₃ PbI ₃ based planar solar cells. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 9137-9140	13	32
18	Ultrasensitive Photodetectors Based on Island-Structured CH ₃ NH ₃ PbI ₃ Thin Films. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 21634-8	9.5	96
17	Interfacial engineering by using self-assembled monolayer in mesoporous perovskite solar cell. <i>RSC Advances</i> , 2015 , 5, 94290-94295	3.7	57
16	Hot-Injection Synthesis of Cu-Doped Cu ₂ SnSe ₃ Nanocrystals to Reach Thermoelectric zT of 0.70 at 450°C. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 24403-8	9.5	45
15	Solution processed organic thermoelectrics: towards flexible thermoelectric modules. <i>Energy and Environmental Science</i> , 2015 , 8, 401-422	35.4	311
14	3D Printing: 3D Printing Fabrication of Amorphous Thermoelectric Materials with Ultralow Thermal Conductivity (Small 44/2015). <i>Small</i> , 2015 , 11, 5888-5888	11	1
13	3D Printing Fabrication of Amorphous Thermoelectric Materials with Ultralow Thermal Conductivity. <i>Small</i> , 2015 , 11, 5889-94	11	70

12	Lead Replacement in CH ₃ NH ₃ PbI ₃ Perovskites. <i>Advanced Electronic Materials</i> , 2015 , 1, 1500089	6.4	56
11	Correlating Molecular Structures with Transport Dynamics in High-Efficiency Small-Molecule Organic Photovoltaics. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 13137-41	9.5	14
10	One-Step Hydrothermal Synthesis of 2D Hexagonal Nanoplates of Fe ₂ O ₃ /Graphene Composites with Enhanced Photocatalytic Activity. <i>Advanced Functional Materials</i> , 2014 , 24, 5719-5727	15.6	289
9	Activation Energy Spectra: Insights into Transport Limitations of Organic Semiconductors and Photovoltaic Cells. <i>Advanced Functional Materials</i> , 2012 , 22, 1087-1091	15.6	6
8	Compensating poly(3-hexylthiophene) reveals its doping density and its strong exciton quenching by free carriers. <i>Advanced Materials</i> , 2012 , 24, 3258-62	24	46
7	Chemically treating poly(3-hexylthiophene) defects to improve bulk heterojunction photovoltaics. <i>ACS Applied Materials & Interfaces</i> , 2011 , 3, 2042-50	9.5	22
6	Solution Processable n-Type Perylene Diimide Copolymers for Organic Photovoltaics. <i>Materials Research Society Symposia Proceedings</i> , 2011 , 1286, 58		
5	Non-Conjugated Polymers for Organic Photovoltaics: Physical and Optoelectronic Properties of Poly(perylenediimides). <i>Journal of Physical Chemistry C</i> , 2010 , 114, 6784-6790	3.8	15
4	Defect Engineering in Conjugated Polymers. <i>Chemistry of Materials</i> , 2009 , 21, 4914-4919	9.6	53
3	Enhancing charge separation in conjugated microporous polymers for efficient photocatalytic hydrogen evolution. <i>Materials Advances</i> ,	3.3	
2	Efficient p-Type Doping of Tin Halide Perovskite via Sequential Diffusion for Thermoelectrics. <i>Small Science</i> , 2200004		2
1	Developing Y-Branched Polymer Acceptor with 3D Architecture to Reconcile Between Crystallinity and Miscibility Yielding >15% Efficient All-Polymer Solar Cells. <i>Advanced Science</i> , 2200864	13.6	2