Liqiang Huang

List of Publications by Year
in descending order

35 papers	1,513 citations	279798 23 h-index	377865 34 g-index
35 all docs	35 docs citations	35 times ranked	2026 citing authors

#	Article	IF	Citations
1	A lithium-MXene composite anode with high specific capacity and low interfacial resistance for solid-state batteries. Energy Storage Materials, 2022, 45, 934-940.	18.0	34
2	A self-regulated gradient interphase for dendrite-free solid-state Li batteries. Energy and Environmental Science, 2022, 15, 1325-1333.	30.8	98
3	Deciphering the Role of Fluoroethylene Carbonate towards Highly Reversible Sodium Metal Anodes. Research, 2022, 2022, 9754612.	5.7	23
4	Toward High Temperature Sodium Metal Batteries via Regulating the Electrolyte/Electrode Interfacial Chemistries. ACS Energy Letters, 2022, 7, 2032-2042.	17.4	37
5	Tailoring Electrolyte Solvation Chemistry toward an Inorganic-Rich Solid-Electrolyte Interphase at a Li Metal Anode. ACS Energy Letters, 2021, 6, 2054-2063.	17.4	79
6	TiO₂ Nanofiber-Modified Lithium Metal Composite Anode for Solid-State Lithium Batteries. ACS Applied Materials & Interfaces, 2021, 13, 28398-28404.	8.0	31
7	Critical effects of electrolyte recipes for Li and Na metal batteries. CheM, 2021, 7, 2312-2346.	11.7	144
8	Knocking down the kinetic barriers towards fast-charging and low-temperature sodium metal batteries. Energy and Environmental Science, 2021, 14, 4936-4947.	30.8	96
9	Opportunities for High-Entropy Materials in Rechargeable Batteries. , 2021, 3, 160-170.		72
10	A writable lithium metal ink. Science China Chemistry, 2020, 63, 1483-1489.	8.2	45
11	Shaping the Contact between Li Metal Anode and Solidâ€State Electrolytes. Advanced Functional Materials, 2020, 30, 1908701.	14.9	44
12	Polyolefin Elastomer as the Anode Interfacial Layer for Improved Mechanical and Air Stabilities in Nonfullerene Solar Cells. ACS Applied Materials & Interfaces, 2020, 12, 10706-10716.	8.0	24
13	Unraveling the Morphology in Solution-Processed Pseudo-Bilayer Planar Heterojunction Organic Solar Cells. ACS Applied Materials & Interfaces, 2019, 11, 26213-26221.	8.0	38
14	Specific interaction between fluorine atoms and thiol groups accounting for higher domain purity and photostability in narrowband BHJ systems. Journal of Polymer Science, Part B: Polymer Physics, 2019, 57, 941-951.	2.1	1
15	Highly Adhesive Li-BN Nanosheet Composite Anode with Excellent Interfacial Compatibility for Solid-State Li Metal Batteries. ACS Nano, 2019, 13, 14549-14556.	14.6	123
16	Miscibility Matching and Bimolecular Crystallization Affording High-Performance Ternary Nonfullerene Solar Cells. Chemistry of Materials, 2019, 31, 10211-10224.	6.7	38
17	Self-assembly monolayers manipulate the power conversion processes in organic photovoltaics. Journal of Power Sources, 2019, 409, 66-75.	7.8	6
18	Roll-To-Roll Printing of Meter-Scale Composite Transparent Electrodes with Optimized Mechanical and Optical Properties for Photoelectronics. ACS Applied Materials & Interfaces, 2018, 10, 8917-8925.	8.0	26

#	Article	IF	Citations
19	Ternary thick active layer for efficient organic solar cells. Journal of Materials Science, 2018, 53, 8398-8408.	3.7	6
20	Vertical Stratification Engineering for Organic Bulk-Heterojunction Devices. ACS Nano, 2018, 12, 4440-4452.	14.6	77
21	Grain Boundary Modification via F4TCNQ To Reduce Defects of Perovskite Solar Cells with Excellent Device Performance. ACS Applied Materials & Interfaces, 2018, 10, 1909-1916.	8.0	115
22	Highly stable Al-doped ZnO by ligand-free synthesis as general thickness-insensitive interlayers for organic solar cells. Science China Chemistry, 2018, 61, 127-134.	8.2	25
23	Multi-Chlorine-Substituted Self-Assembled Molecules As Anode Interlayers: Tuning Surface Properties and Humidity Stability for Organic Photovoltaics. ACS Applied Materials & Interfaces, 2017, 9, 9204-9212.	8.0	14
24	Fluorinated Reduced Graphene Oxide as an Efficient Hole-Transport Layer for Efficient and Stable Polymer Solar Cells. ACS Omega, 2017, 2, 2010-2016.	3.5	41
25	Highly and homogeneously conductive conjugated polyelectrolyte hole transport layers for efficient organic solar cells. Journal of Materials Chemistry A, 2017, 5, 14689-14696.	10.3	29
26	n-Type conjugated electrolytes cathode interlayer with thickness-insensitivity for highly efficient organic solar cells. Journal of Materials Chemistry A, 2017, 5, 13807-13816.	10.3	39
27	N-type Self-Doping of Fluorinate Conjugated Polyelectrolytes for Polymer Solar Cells: Modulation of Dipole, Morphology, and Conductivity. ACS Applied Materials & Interfaces, 2017, 9, 1145-1153.	8.0	33
28	Ternary organic solar cells: compatibility controls for morphology evolution of active layers. Journal of Materials Chemistry C, 2017, 5, 10801-10812.	5.5	29
29	Triple Dipole Effect from Selfâ€Assembled Smallâ€Molecules for High Performance Organic Photovoltaics. Advanced Materials, 2016, 28, 4852-4860.	21.0	55
30	High conductive PEDOT via post-treatment by halobenzoic for high-efficiency ITO-free and transporting layer-free organic solar cells. Organic Electronics, 2016, 33, 316-323.	2.6	17
31	High-Performance Polymer Solar Cells Realized by Regulating the Surface Properties of PEDOT:PSS Interlayer from Ionic Liquids. ACS Applied Materials & Interfaces, 2016, 8, 27018-27025.	8.0	16
32	Highly-efficient polymer solar cells realized by tailoring conjugated skeleton of alcohol-soluble conjugated electrolytes. Solar Energy Materials and Solar Cells, 2016, 157, 644-651.	6.2	3
33	Sulfonate Poly(aryl ether sulfone)-Modified PEDOT:PSS as Hole Transport Layer and Transparent Electrode for High Performance Polymer Solar Cells. Journal of Physical Chemistry C, 2015, 119, 1943-1952.	3.1	21
34	A Versatile Buffer Layer for Polymer Solar Cells: Rendering Surface Potential by Regulating Dipole. Advanced Functional Materials, 2015, 25, 3164-3171.	14.9	11
35	Control of the oxidation level of graphene oxide for high efficiency polymer solar cells. RSC Advances, 2015, 5, 49182-49187.	3.6	23