Guojin Liang

List of Publications by Year
in descending order

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77 papers	10,154 citations	30070 54 h-index	64796 79 g-index
80 all docs	80 docs citations	80 times ranked	5737 citing authors

#	Article	IF	Citations
1	Smallâ€Dipoleâ€Moleculeâ€Containing Electrolytes for Highâ€Voltage Aqueous Rechargeable Batteries. Advanced Materials, 2022, 34, e2106180.	21.0	58
2	Stabilizing Interface pH by Nâ€Modified Graphdiyne for Dendriteâ€Free and Highâ€Rate Aqueous Znâ€Ion Batteries. Angewandte Chemie, 2022, 134, .	2.0	24
3	Stabilizing Interface pH by Nâ€Modified Graphdiyne for Dendriteâ€Free and Highâ€Rate Aqueous Znâ€Ion Batteries. Angewandte Chemie - International Edition, 2022, 61, .	13.8	124
4	Twoâ€Electron Redox Chemistry Enabled Highâ€Performance Iodideâ€Ion Conversion Battery. Angewandte Chemie, 2022, 134, .	2.0	4
5	In situ/operando analysis of surface reconstruction of transition metal-based oxygen evolution electrocatalysts. Cell Reports Physical Science, 2022, 3, 100729.	5.6	29
6	Twoâ€Electron Redox Chemistry Enabled Highâ€Performance Iodideâ€Ion Conversion Battery. Angewandte Chemie - International Edition, 2022, 61, .	13.8	34
7	Insight on Organic Molecules in Aqueous Znâ€Ion Batteries with an Emphasis on the Zn Anode Regulation. Advanced Energy Materials, 2022, 12, .	19.5	208
8	Gradient fluorinated alloy to enable highly reversible Zn-metal anode chemistry. Energy and Environmental Science, 2022, 15, 1086-1096.	30.8	141
9	Efficient Ammonia Electrosynthesis and Energy Conversion through a Znâ€Nitrate Battery by Iron Doping Engineered Nickel Phosphide Catalyst. Advanced Energy Materials, 2022, 12, .	19.5	108
10	Building durable aqueous K-ion capacitors based on MXene family. , 2022, 1, e9120002.		131
11	Tellurium: A High-Performance Cathode for Magnesium Ion Batteries Based on a Conversion Mechanism. ACS Nano, 2022, 16, 5349-5357.	14.6	28
12	Lattice Matching and Halogen Regulation for Synergistically Induced Uniform Zinc Electrodeposition by Halogenated Ti₃C₂ MXenes. ACS Nano, 2022, 16, 813-822.	14.6	90
13	MXene chemistry, electrochemistry and energy storage applications. Nature Reviews Chemistry, 2022, 6, 389-404.	30.2	429
14	Bis-ammonium salts with strong chemisorption to halide ions for fast and durable aqueous redox Zn ion batteries. Nano Energy, 2022, 98, 107278.	16.0	17
15	Highâ€Voltage Organic Cathodes for Zincâ€Ion Batteries through Electron Cloud and Solvation Structure Regulation. Angewandte Chemie - International Edition, 2022, 61, .	13.8	60
16	Highâ€Voltage Organic Cathodes for Zincâ€Ion Batteries through Electron Cloud and Solvation Structure Regulation. Angewandte Chemie, 2022, 134, .	2.0	20
17	Recent Progress and Challenges of Flexible Zn-Based Batteries with Polymer Electrolyte. Batteries, 2022, 8, 59.	4.5	11
18	Non-metallic charge carriers for aqueous batteries. Nature Reviews Materials, 2021, 6, 109-123.	48.7	250

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19	Effects of Anion Carriers on Capacitance and Selfâ€Discharge Behaviors of Zinc Ion Capacitors. Angewandte Chemie, 2021, 133, 1024-1034.	2.0	21
20	Effects of Anion Carriers on Capacitance and Selfâ€Discharge Behaviors of Zinc Ion Capacitors. Angewandte Chemie - International Edition, 2021, 60, 1011-1021.	13.8	122
21	Activating the I⁰/I⁺ redox couple in an aqueous I₂â€“Zn battery to achieve a high voltage plateau. Energy and Environmental Science, 2021, 14, 407-413.	30.8	129
22	Confining Aqueous Znâ€“Br Halide Redox Chemistry by Ti₃C₂T_X MXene. ACS Nano, 2021, 15, 1718-1726.	14.6	78
23	Halogenated Ti₃C₂ MXenes with Electrochemically Active Terminals for High-Performance Zinc Ion Batteries. ACS Nano, 2021, 15, 1077-1085.	14.6	183
24	Calendar Life of Zn Batteries Based on Zn Anode with Zn Powder/Current Collector Structure. Advanced Energy Materials, 2021, 11, 2003931.	19.5	122
25	A universal method towards conductive textile for flexible batteries with superior softness. Energy Storage Materials, 2021, 36, 272-278.	18.0	31
26	A reversible Zn-metal battery. Nature Nanotechnology, 2021, 16, 854-855.	31.5	41
27	The energy storage mechanisms of MnO2 in batteries. Current Opinion in Electrochemistry, 2021, 30, 100769.	4.8	19
28	Manipulating anion intercalation enables a high-voltage aqueous dual ion battery. Nature Communications, 2021, 12, 3106.	12.8	104
29	A Selfâ€Healing Creaseâ€Free Supramolecular Allâ€Polymer Supercapacitor. Advanced Science, 2021, 8, 2100072.	11.2	70
30	A manganese hexacyanoferrate framework with enlarged ion tunnels and twoâ€species redox reaction for aqueous Al-ion batteries. Nano Energy, 2021, 84, 105945.	16.0	54
31	3D printing of reduced graphene oxide aerogels for energy storage devices: A paradigm from materials and technologies to applications. Energy Storage Materials, 2021, 39, 146-165.	18.0	66
32	Toward a Practical Zn Powder Anode: Ti₃C₂Tx MXene as a Lattice-Match Electrons/Ions Redistributor. ACS Nano, 2021, 15, 14631-14642.	14.6	137
33	Enhanced Redox Kinetics and Duration of Aqueous I₂/I^{â^’} Conversion Chemistry by MXene Confinement. Advanced Materials, 2021, 33, e2006897.	21.0	121
34	Aqueous Rechargeable Metalâ€Ion Batteries Working at Subzero Temperatures. Advanced Science, 2021, 8, 2002590.	11.2	89
35	Conversionâ€Type Nonmetal Elemental Tellurium Anode with High Utilization for Mild/Alkaline Zinc Batteries. Advanced Materials, 2021, 33, e2105426.	21.0	48
36	Intrinsic voltage plateau of a Nb2CTx MXene cathode in an aqueous electrolyte induced by high-voltage scanning. Joule, 2021, 5, 2993-3005.	24.0	74

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37	Reconstructing Vanadium Oxide with Anisotropic Pathways for a Durable and Fast Aqueous K-Ion Battery. ACS Nano, 2021, 15, 17717-17728.	14.6	30
38	An Overview of Fiberâ€Shaped Batteries with a Focus on Multifunctionality, Scalability, and Technical Difficulties. Advanced Materials, 2020, 32, e1902151.	21.0	207
39	Commencing mild Agâ€“Zn batteries with long-term stability and ultra-flat voltage platform. Energy Storage Materials, 2020, 25, 86-92.	18.0	68
40	In Situ Electrochemical Synthesis of MXenes without Acid/Alkali Usage in/for an Aqueous Zinc Ion Battery. Advanced Energy Materials, 2020, 10, 2001791.	19.5	128
41	Vertically Aligned Sn⁴⁺ Preintercalated Ti₂CT_X MXene Sphere with Enhanced Zn Ion Transportation and Superior Cycle Lifespan. Advanced Energy Materials, 2020, 10, 2001394.	19.5	127
42	Phosphorene as Cathode Material for Highâ€Voltage, Antiâ€Selfâ€Discharge Zinc Ion Hybrid Capacitors. Advanced Energy Materials, 2020, 10, 2001024.	19.5	149
43	Energy density issues of flexible energy storage devices. Energy Storage Materials, 2020, 28, 264-292.	18.0	106
44	Zwitterionic Sulfobetaine Hydrogel Electrolyte Building Separated Positive/Negative Ion Migration Channels for Aqueous Znâ€MnO₂ Batteries with Superior Rate Capabilities. Advanced Energy Materials, 2020, 10, 2000035.	19.5	287
45	Dendrites issues and advances in Zn anode for aqueous rechargeable Znâ€based batteries. EcoMat, 2020, 2, e12035.	11.9	135
46	Initiating Hexagonal MoO₃ for Superbâ€Stable and Fast NH₄⁺ Storage Based on Hydrogen Bond Chemistry. Advanced Materials, 2020, 32, e1907802.	21.0	186
47	A zinc battery with ultra-flat discharge plateau through phase transition mechanism. Nano Energy, 2020, 71, 104583.	16.0	75
48	A Superior Î´-MnO₂ Cathode and a Self-Healing Zn-Î´-MnO₂ Battery. ACS Nano, 2019, 13, 10643-10652.	14.6	535
49	Ni₃S₂/Ni nanosheet arrays for high-performance flexible zinc hybrid batteries with evident two-stage charge and discharge processes. Journal of Materials Chemistry A, 2019, 7, 18915-18924.	10.3	55
50	A Universal Principle to Design Reversible Aqueous Batteries Based on Depositionâ€“Dissolution Mechanism. Advanced Energy Materials, 2019, 9, 1901838.	19.5	151
51	Toward Multifunctional and Wearable Smart Skins with Energyâ€Harvesting, Touchâ€Sensing, and Exteroceptionâ€Visualizing Capabilities by an Allâ€Polymer Design. Advanced Electronic Materials, 2019, 5, 1900553.	5.1	41
52	Do Zinc Dendrites Exist in Neutral Zinc Batteries: A Developed Electrohealing Strategy to In Situ Rescue Inâ€Service Batteries. Advanced Materials, 2019, 31, e1903778.	21.0	494
53	A Flexible Solidâ€State Aqueous Zinc Hybrid Battery with Flat and Highâ€Voltage Discharge Plateau. Advanced Energy Materials, 2019, 9, 1902473.	19.5	136
54	Commencing an Acidic Battery Based on a Copper Anode with Ultrafast Protonâ€Regulated Kinetics and Superior Dendriteâ€Free Property. Advanced Materials, 2019, 31, e1905873.	21.0	77

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55	Recent advances in flexible aqueous zinc-based rechargeable batteries. Nanoscale, 2019, 11, 17992-18008.	5.6	83
56	A soft yet device-level dynamically super-tough supercapacitor enabled by an energy-dissipative dual-crosslinked hydrogel electrolyte. Nano Energy, 2019, 58, 732-742.	16.0	187
57	A flexible rechargeable aqueous zinc manganese-dioxide battery working at â˜'20 Â°C. Energy and Environmental Science, 2019, 12, 706-715.	30.8	511
58	A Wholly Degradable, Rechargeable Znâ€"Ti₃C₂ MXene Capacitor with Superior Anti-Self-Discharge Function. ACS Nano, 2019, 13, 8275-8283.	14.6	224
59	Inhibiting Grain Pulverization and Sulfur Dissolution of Bismuth Sulfide by Ionic Liquid Enhanced Poly(3,4-ethylenedioxythiophene):Poly(styrenesulfonate) for High-Performance Zinc-Ion Batteries. ACS Nano, 2019, 13, 7270-7280.	14.6	81
60	A mechanically durable and device-level tough Zn-MnO2 battery with high flexibility. Energy Storage Materials, 2019, 23, 636-645.	18.0	159
61	Superâ€Stretchable Zincâ€"Air Batteries Based on an Alkalineâ€Tolerant Dualâ€Network Hydrogel Electrolyte. Advanced Energy Materials, 2019, 9, 1803046.	19.5	287
62	Hydrated hybrid vanadium oxide nanowires as the superior cathode for aqueous Zn battery. Materials Today Energy, 2019, 14, 100361.	4.7	67
63	Biomimetic organohydrogel electrolytes for highâ€environmental adaptive energy storage devices. EcoMat, 2019, 1, e12008.	11.9	95
64	Single-Site Active Iron-Based Bifunctional Oxygen Catalyst for a Compressible and Rechargeable Zincâ€"Air Battery. ACS Nano, 2018, 12, 1949-1958.	14.6	336
65	Waterproof and Tailorable Elastic Rechargeable Yarn Zinc Ion Batteries by a Cross-Linked Polyacrylamide Electrolyte. ACS Nano, 2018, 12, 3140-3148.	14.6	439
66	A Nanofibrillated Cellulose/Polyacrylamide Electrolyteâ€Based Flexible and Sewable Highâ€Performance Znâ€"MnO₂ Battery with Superior Shear Resistance. Small, 2018, 14, e1803978.	10.0	191
67	Self-healable electroluminescent devices. Light: Science and Applications, 2018, 7, 102.	16.6	71
68	Highly Compressible Cross-Linked Polyacrylamide Hydrogel-Enabled Compressible Znâ€"MnO₂ Battery and a Flexible Batteryâ€"Sensor System. ACS Applied Materials & Interfaces, 2018, 10, 44527-44534.	8.0	105
69	In situ formation of NaTi₂(PO₄)₃ cubes on Ti₃C₂ MXene for dual-mode sodium storage. Journal of Materials Chemistry A, 2018, 6, 18525-18532.	10.3	60
70	Advances in Flexible and Wearable Energyâ€Storage Textiles. Small Methods, 2018, 2, 1800124.	8.6	123
71	A smart safe rechargeable zinc ion battery based on sol-gel transition electrolytes. Science Bulletin, 2018, 63, 1077-1086.	9.0	134
72	An Intrinsically Selfâ€Healing NiCo||Zn Rechargeable Battery with a Selfâ€Healable Ferricâ€Ionâ€Crosslinking Sodium Polyacrylate Hydrogel Electrolyte. Angewandte Chemie - International Edition, 2018, 57, 9810-9813.	13.8	171

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73	An Intrinsically Selfâ€Healing NiCo||Zn Rechargeable Battery with a Selfâ€Healable Ferricâ€Ionâ€Crosslinking Sodium Polyacrylate Hydrogel Electrolyte. Angewandte Chemie, 2018, 130, 9958-9961.	2.0	13
74	Carbon-Based Flexible and All-Solid-State Micro-supercapacitors Fabricated by Inkjet Printing with Enhanced Performance. Nano-Micro Letters, 2017, 9, 19.	27.0	50
75	Highly Flexible and Bright Electroluminescent Devices Based on Ag Nanowire Electrodes and Topâ€Emission Structure. Advanced Electronic Materials, 2017, 3, 1600535.	5.1	54
76	Coaxialâ€Structured Weavable and Wearable Electroluminescent Fibers. Advanced Electronic Materials, 2017, 3, 1700401.	5.1	63
77	Structural properties and enhanced bandgap tunability of quaternary CdZnOS epitaxial films grown by pulsed laser deposition. Journal of Alloys and Compounds, 2015, 650, 748-752.	5.5	11