

Guojin Liang

List of Publications by Citations

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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.

71
papers

4,939
citations

39
h-index

70
g-index

80
ext. papers

7,245
ext. citations

17.3
avg, IF

6.3
L-index

#	Paper	IF	Citations
71	A flexible rechargeable aqueous zinc manganese-dioxide battery working at 20 °C. <i>Energy and Environmental Science</i> , 2019 , 12, 706-715	35.4	333
70	Waterproof and Tailorable Elastic Rechargeable Yarn Zinc Ion Batteries by a Cross-Linked Polyacrylamide Electrolyte. <i>ACS Nano</i> , 2018 , 12, 3140-3148	16.7	305
69	Do Zinc Dendrites Exist in Neutral Zinc Batteries: A Developed Electrohealing Strategy to In Situ Rescue In-Service Batteries. <i>Advanced Materials</i> , 2019 , 31, e1903778	24	285
68	A Superior EMnO Cathode and a Self-Healing Zn-EMnO Battery. <i>ACS Nano</i> , 2019 , 13, 10643-10652	16.7	278
67	Single-Site Active Iron-Based Bifunctional Oxygen Catalyst for a Compressible and Rechargeable Zinc-Air Battery. <i>ACS Nano</i> , 2018 , 12, 1949-1958	16.7	255
66	MoS ₂ nanosheets with expanded interlayer spacing for rechargeable aqueous Zn-ion batteries. <i>Energy Storage Materials</i> , 2019 , 19, 94-101	19.4	227
65	Super-Stretchable Zinc-Air Batteries Based on an Alkaline-Tolerant Dual-Network Hydrogel Electrolyte. <i>Advanced Energy Materials</i> , 2019 , 9, 1803046	21.8	185
64	A Wholly Degradable, Rechargeable Zn-TiC MXene Capacitor with Superior Anti-Self-Discharge Function. <i>ACS Nano</i> , 2019 , 13, 8275-8283	16.7	145
63	A soft yet device-level dynamically super-tough supercapacitor enabled by an energy-dissipative dual-crosslinked hydrogel electrolyte. <i>Nano Energy</i> , 2019 , 58, 732-742	17.1	123
62	Zwitterionic Sulfobetaine Hydrogel Electrolyte Building Separated Positive/Negative Ion Migration Channels for Aqueous Zn-MnO ₂ Batteries with Superior Rate Capabilities. <i>Advanced Energy Materials</i> , 2020 , 10, 2000035	21.8	123
61	An Intrinsically Self-Healing NiCo Zn Rechargeable Battery with a Self-Healable Ferric-Ion-Crosslinking Sodium Polyacrylate Hydrogel Electrolyte. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 9810-9813	16.4	121
60	A Nanofibrillated Cellulose/Polyacrylamide Electrolyte-Based Flexible and Sewable High-Performance Zn-MnO Battery with Superior Shear Resistance. <i>Small</i> , 2018 , 14, e1803978	11	119
59	An Overview of Fiber-Shaped Batteries with a Focus on Multifunctionality, Scalability, and Technical Difficulties. <i>Advanced Materials</i> , 2020 , 32, e1902151	24	117
58	A mechanically durable and device-level tough Zn-MnO ₂ battery with high flexibility. <i>Energy Storage Materials</i> , 2019 , 23, 636-645	19.4	97
57	Phosphorene as Cathode Material for High-Voltage, Anti-Self-Discharge Zinc Ion Hybrid Capacitors. <i>Advanced Energy Materials</i> , 2020 , 10, 2001024	21.8	96
56	A smart safe rechargeable zinc ion battery based on sol-gel transition electrolytes. <i>Science Bulletin</i> , 2018 , 63, 1077-1086	10.6	94
55	Advances in Flexible and Wearable Energy-Storage Textiles. <i>Small Methods</i> , 2018 , 2, 1800124	12.8	87

54	Non-metallic charge carriers for aqueous batteries. <i>Nature Reviews Materials</i> , 2021 , 6, 109-123	73.3	85
53	Initiating Hexagonal MoO for Superb-Stable and Fast NH Storage Based on Hydrogen Bond Chemistry. <i>Advanced Materials</i> , 2020 , 32, e1907802	24	83
52	A Universal Principle to Design Reversible Aqueous Batteries Based on DepositionDissolution Mechanism. <i>Advanced Energy Materials</i> , 2019 , 9, 1901838	21.8	83
51	A Flexible Solid-State Aqueous Zinc Hybrid Battery with Flat and High-Voltage Discharge Plateau. <i>Advanced Energy Materials</i> , 2019 , 9, 1902473	21.8	79
50	Highly Compressible Cross-Linked Polyacrylamide Hydrogel-Enabled Compressible Zn-MnO Battery and a Flexible Battery-Sensor System. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 44527-44534	9.5	75
49	Vertically Aligned Sn ⁴⁺ Preintercalated Ti ₂ CTX MXene Sphere with Enhanced Zn Ion Transportation and Superior Cycle Lifespan. <i>Advanced Energy Materials</i> , 2020 , 10, 2001394	21.8	71
48	Effects of Anion Carriers on Capacitance and Self-Discharge Behaviors of Zinc Ion Capacitors. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 1011-1021	16.4	70
47	Energy density issues of flexible energy storage devices. <i>Energy Storage Materials</i> , 2020 , 28, 264-292	19.4	61
46	In Situ Electrochemical Synthesis of MXenes without Acid/Alkali Usage in/for an Aqueous Zinc Ion Battery. <i>Advanced Energy Materials</i> , 2020 , 10, 2001791	21.8	56
45	Biomimetic organohydrogel electrolytes for high-environmental adaptive energy storage devices. <i>EcoMat</i> , 2019 , 1, e12008	9.4	55
44	Recent advances in flexible aqueous zinc-based rechargeable batteries. <i>Nanoscale</i> , 2019 , 11, 17992-18008	17	54
43	Self-healable electroluminescent devices. <i>Light: Science and Applications</i> , 2018 , 7, 102	16.7	52
42	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. <i>ACS Nano</i> , 2019 , 13, 7270-7280	16.7	51
41	Halogenated TiC MXenes with Electrochemically Active Terminals for High-Performance Zinc Ion Batteries. <i>ACS Nano</i> , 2021 , 15, 1077-1085	16.7	50
40	Dendrites issues and advances in Zn anode for aqueous rechargeable Zn-based batteries. <i>EcoMat</i> , 2020 , 2, e12035	9.4	48
39	Hydrated hybrid vanadium oxide nanowires as the superior cathode for aqueous Zn battery. <i>Materials Today Energy</i> , 2019 , 14, 100361	7	48
38	Calendar Life of Zn Batteries Based on Zn Anode with Zn Powder/Current Collector Structure. <i>Advanced Energy Materials</i> , 2021 , 11, 2003931	21.8	48
37	Commencing an Acidic Battery Based on a Copper Anode with Ultrafast Proton-Regulated Kinetics and Superior Dendrite-Free Property. <i>Advanced Materials</i> , 2019 , 31, e1905873	24	46

36	Aqueous Rechargeable Metal-Ion Batteries Working at Subzero Temperatures. <i>Advanced Science</i> , 2020 , 8, 2002590	13.6	45
35	A zinc battery with ultra-flat discharge plateau through phase transition mechanism. <i>Nano Energy</i> , 2020 , 71, 104583	17.1	43
34	Highly Flexible and Bright Electroluminescent Devices Based on Ag Nanowire Electrodes and Top-Emission Structure. <i>Advanced Electronic Materials</i> , 2017 , 3, 1600535	6.4	42
33	Carbon-Based Flexible and All-Solid-State Micro-supercapacitors Fabricated by Inkjet Printing with Enhanced Performance. <i>Nano-Micro Letters</i> , 2017 , 9, 19	19.5	39
32	Ni ₃ S ₂ /Ni nanosheet arrays for high-performance flexible zinc hybrid batteries with evident two-stage charge and discharge processes. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 18915-18924	13	39
31	Enhanced Redox Kinetics and Duration of Aqueous I ⁰ /I ⁺ Conversion Chemistry by MXene Confinement. <i>Advanced Materials</i> , 2021 , 33, e2006897	24	39
30	Coaxial-Structured Weavable and Wearable Electroluminescent Fibers. <i>Advanced Electronic Materials</i> , 2017 , 3, 1700401	6.4	38
29	Activating the I ⁰ /I ⁺ redox couple in an aqueous I ₂ /I ⁻ battery to achieve a high voltage plateau. <i>Energy and Environmental Science</i> , 2021 , 14, 407-413	35.4	38
28	Commencing mild Ag ₂ S batteries with long-term stability and ultra-flat voltage platform. <i>Energy Storage Materials</i> , 2020 , 25, 86-92	19.4	37
27	In situ formation of NaTi ₂ (PO ₄) ₃ cubes on Ti ₃ C ₂ MXene for dual-mode sodium storage. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 18525-18532	13	36
26	MXene chemistry, electrochemistry and energy storage applications. <i>Nature Reviews Chemistry</i> ,	34.6	35
25	Insight on Organic Molecules in Aqueous Zn-Ion Batteries with an Emphasis on the Zn Anode Regulation. <i>Advanced Energy Materials</i> , 2102707	21.8	29
24	Confining Aqueous Zn-Br Halide Redox Chemistry by TiCT MXene. <i>ACS Nano</i> , 2021 , 15, 1718-1726	16.7	28
23	Toward a Practical Zn Powder Anode: TiCT MXene as a Lattice-Match Electrons/Ions Redistributor. <i>ACS Nano</i> , 2021 , 15, 14631-14642	16.7	26
22	Manipulating anion intercalation enables a high-voltage aqueous dual ion battery. <i>Nature Communications</i> , 2021 , 12, 3106	17.4	25
21	Toward Multifunctional and Wearable Smart Skins with Energy-Harvesting, Touch-Sensing, and Exteroception-Visualizing Capabilities by an All-Polymer Design. <i>Advanced Electronic Materials</i> , 2019 , 5, 1900553	6.4	24
20	Building durable aqueous K-ion capacitors based on MXene family 2022 , 2		23
19	3D printing of reduced graphene oxide aerogels for energy storage devices: A paradigm from materials and technologies to applications. <i>Energy Storage Materials</i> , 2021 , 39, 146-165	19.4	22

18	Stabilizing Interface pH by N-Modified Graphdiyne for Dendrite-Free and High-Rate Aqueous Zn-ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2021 ,	16.4	21
17	Intrinsic voltage plateau of a Nb ₂ CT _x MXene cathode in an aqueous electrolyte induced by high-voltage scanning. <i>Joule</i> , 2021 ,	27.8	20
16	A manganese hexacyanoferrate framework with enlarged ion tunnels and two-species redox reaction for aqueous Al-ion batteries. <i>Nano Energy</i> , 2021 , 84, 105945	17.1	20
15	Gradient fluorinated alloy to enable highly reversible Zn-metal anode chemistry. <i>Energy and Environmental Science</i> ,	35.4	19
14	A Self-Healing Crease-Free Supramolecular All-Polymer Supercapacitor. <i>Advanced Science</i> , 2021 , 8, 2100032	3.2	19
13	Lattice Matching and Halogen Regulation for Synergistically Induced Uniform Zinc Electrodeposition by Halogenated TiC MXenes.. <i>ACS Nano</i> , 2021 ,	16.7	15
12	Small-Dipole-Molecule-Containing Electrolytes for High-Voltage Aqueous Rechargeable Batteries. <i>Advanced Materials</i> , 2021 , e2106180	24	14
11	A reversible Zn-metal battery. <i>Nature Nanotechnology</i> , 2021 , 16, 854-855	28.7	12
10	Structural properties and enhanced bandgap tunability of quaternary CdZnOS epitaxial films grown by pulsed laser deposition. <i>Journal of Alloys and Compounds</i> , 2015 , 650, 748-752	5.7	11
9	Effects of Anion Carriers on Capacitance and Self-Discharge Behaviors of Zinc Ion Capacitors. <i>Angewandte Chemie</i> , 2021 , 133, 1024-1034	3.6	11
8	An Intrinsically Self-Healing NiCo Zn Rechargeable Battery with a Self-Healable Ferric-Ion-Crosslinking Sodium Polyacrylate Hydrogel Electrolyte. <i>Angewandte Chemie</i> , 2018 , 130, 9958-9961	3.6	10
7	Efficient Ammonia Electrosynthesis and Energy Conversion through a Zn-Nitrate Battery by Iron Doping Engineered Nickel Phosphide Catalyst. <i>Advanced Energy Materials</i> , 2103872	21.8	10
6	Conversion-Type Nonmetal Elemental Tellurium Anode with High Utilization for Mild/Alkaline Zinc Batteries. <i>Advanced Materials</i> , 2021 , e2105426	24	10
5	A universal method towards conductive textile for flexible batteries with superior softness. <i>Energy Storage Materials</i> , 2021 , 36, 272-278	19.4	9
4	Reconstructing Vanadium Oxide with Anisotropic Pathways for a Durable and Fast Aqueous K-Ion Battery. <i>ACS Nano</i> , 2021 ,	16.7	5
3	In situ/operando analysis of surface reconstruction of transition metal-based oxygen evolution electrocatalysts. <i>Cell Reports Physical Science</i> , 2022 , 3, 100729	6.1	3
2	The energy storage mechanisms of MnO ₂ in batteries. <i>Current Opinion in Electrochemistry</i> , 2021 , 30, 100769	7.9	2
1	Bis-ammonium salts with strong chemisorption to halide ions for fast and durable aqueous redox Zn ion batteries. <i>Nano Energy</i> , 2022 , 98, 107278	17.1	0

