

# Guojin 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.

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	In situ/operando analysis of surface reconstruction of transition metal-based oxygen evolution electrocatalysts. <i>Cell Reports Physical Science</i> , <b>2022</b> , 3, 100729	6.1	3
70	Building durable aqueous K-ion capacitors based on MXene family <b>2022</b> , 2		23
69	Bis-ammonium salts with strong chemisorption to halide ions for fast and durable aqueous redox Zn ion batteries. <i>Nano Energy</i> , <b>2022</b> , 98, 107278	17.1	0
68	Reconstructing Vanadium Oxide with Anisotropic Pathways for a Durable and Fast Aqueous K-Ion Battery. <i>ACS Nano</i> , <b>2021</b> ,	16.7	5
67	Stabilizing Interface pH by N-Modified Graphdiyne for Dendrite-Free and High-Rate Aqueous Zn-ion Batteries. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> ,	16.4	21
66	Conversion-Type Nonmetal Elemental Tellurium Anode with High Utilization for Mild/Alkaline Zinc Batteries. <i>Advanced Materials</i> , <b>2021</b> , e2105426	24	10
65	Intrinsic voltage plateau of a Nb <sub>2</sub> CT <sub>x</sub> MXene cathode in an aqueous electrolyte induced by high-voltage scanning. <i>Joule</i> , <b>2021</b> ,	27.8	20
64	Small-Dipole-Molecule-Containing Electrolytes for High-Voltage Aqueous Rechargeable Batteries. <i>Advanced Materials</i> , <b>2021</b> , e2106180	24	14
63	A universal method towards conductive textile for flexible batteries with superior softness. <i>Energy Storage Materials</i> , <b>2021</b> , 36, 272-278	19.4	9
62	A reversible Zn-metal battery. <i>Nature Nanotechnology</i> , <b>2021</b> , 16, 854-855	28.7	12
61	The energy storage mechanisms of MnO <sub>2</sub> in batteries. <i>Current Opinion in Electrochemistry</i> , <b>2021</b> , 30, 100769	6.9	2
60	Manipulating anion intercalation enables a high-voltage aqueous dual ion battery. <i>Nature Communications</i> , <b>2021</b> , 12, 3106	17.4	25
59	A Self-Healing Crease-Free Supramolecular All-Polymer Supercapacitor. <i>Advanced Science</i> , <b>2021</b> , 8, 2100032	3.2	19
58	A manganese hexacyanoferrate framework with enlarged ion tunnels and two-species redox reaction for aqueous Al-ion batteries. <i>Nano Energy</i> , <b>2021</b> , 84, 105945	17.1	20
57	Non-metallic charge carriers for aqueous batteries. <i>Nature Reviews Materials</i> , <b>2021</b> , 6, 109-123	73.3	85
56	Effects of Anion Carriers on Capacitance and Self-Discharge Behaviors of Zinc Ion Capacitors. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 1024-1034	3.6	11
55	Effects of Anion Carriers on Capacitance and Self-Discharge Behaviors of Zinc Ion Capacitors. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 1011-1021	16.4	70

54	Activating the I <sup>0</sup> /I <sup>+</sup> redox couple in an aqueous I <sub>2</sub> /Zn battery to achieve a high voltage plateau. <i>Energy and Environmental Science</i> , <b>2021</b> , 14, 407-413	35.4	38
53	Confining Aqueous Zn-Br Halide Redox Chemistry by TiCT MXene. <i>ACS Nano</i> , <b>2021</b> , 15, 1718-1726	16.7	28
52	Halogenated TiC MXenes with Electrochemically Active Terminals for High-Performance Zinc Ion Batteries. <i>ACS Nano</i> , <b>2021</b> , 15, 1077-1085	16.7	50
51	Calendar Life of Zn Batteries Based on Zn Anode with Zn Powder/Current Collector Structure. <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2003931	21.8	48
50	3D printing of reduced graphene oxide aerogels for energy storage devices: A paradigm from materials and technologies to applications. <i>Energy Storage Materials</i> , <b>2021</b> , 39, 146-165	19.4	22
49	Toward a Practical Zn Powder Anode: TiCT MXene as a Lattice-Match Electrons/Ions Redistributor. <i>ACS Nano</i> , <b>2021</b> , 15, 14631-14642	16.7	26
48	Enhanced Redox Kinetics and Duration of Aqueous I <sup>0</sup> /I Conversion Chemistry by MXene Confinement. <i>Advanced Materials</i> , <b>2021</b> , 33, e2006897	24	39
47	Lattice Matching and Halogen Regulation for Synergistically Induced Uniform Zinc Electrodeposition by Halogenated TiC MXenes. <i>ACS Nano</i> , <b>2021</b> ,	16.7	15
46	Phosphorene as Cathode Material for High-Voltage, Anti-Self-Discharge Zinc Ion Hybrid Capacitors. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 2001024	21.8	96
45	Energy density issues of flexible energy storage devices. <i>Energy Storage Materials</i> , <b>2020</b> , 28, 264-292	19.4	61
44	Zwitterionic Sulfobetaine Hydrogel Electrolyte Building Separated Positive/Negative Ion Migration Channels for Aqueous Zn-MnO <sub>2</sub> Batteries with Superior Rate Capabilities. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 2000035	21.8	123
43	Dendrites issues and advances in Zn anode for aqueous rechargeable Zn-based batteries. <i>EcoMat</i> , <b>2020</b> , 2, e12035	9.4	48
42	Initiating Hexagonal MoO <sub>3</sub> for Superb-Stable and Fast NH <sub>3</sub> Storage Based on Hydrogen Bond Chemistry. <i>Advanced Materials</i> , <b>2020</b> , 32, e1907802	24	83
41	A zinc battery with ultra-flat discharge plateau through phase transition mechanism. <i>Nano Energy</i> , <b>2020</b> , 71, 104583	17.1	43
40	Commencing mild Ag <sub>2</sub> Zn batteries with long-term stability and ultra-flat voltage platform. <i>Energy Storage Materials</i> , <b>2020</b> , 25, 86-92	19.4	37
39	In Situ Electrochemical Synthesis of MXenes without Acid/Alkali Usage in/for an Aqueous Zinc Ion Battery. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 2001791	21.8	56
38	Vertically Aligned Sn <sup>4+</sup> Preintercalated Ti <sub>2</sub> CTX MXene Sphere with Enhanced Zn Ion Transportation and Superior Cycle Lifespan. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 2001394	21.8	71
37	An Overview of Fiber-Shaped Batteries with a Focus on Multifunctionality, Scalability, and Technical Difficulties. <i>Advanced Materials</i> , <b>2020</b> , 32, e1902151	24	117

36	Aqueous Rechargeable Metal-Ion Batteries Working at Subzero Temperatures. <i>Advanced Science</i> , <b>2020</b> , 8, 2002590	13.6	45
35	Recent advances in flexible aqueous zinc-based rechargeable batteries. <i>Nanoscale</i> , <b>2019</b> , 11, 17992-18008	7	54
34	A soft yet device-level dynamically super-tough supercapacitor enabled by an energy-dissipative dual-crosslinked hydrogel electrolyte. <i>Nano Energy</i> , <b>2019</b> , 58, 732-742	17.1	123
33	A flexible rechargeable aqueous zinc manganese-dioxide battery working at 0 °C. <i>Energy and Environmental Science</i> , <b>2019</b> , 12, 706-715	35.4	333
32	A Wholly Degradable, Rechargeable Zn-TiC MXene Capacitor with Superior Anti-Self-Discharge Function. <i>ACS Nano</i> , <b>2019</b> , 13, 8275-8283	16.7	145
31	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> , <b>2019</b> , 13, 7270-7280	16.7	51
30	A mechanically durable and device-level tough Zn-MnO <sub>2</sub> battery with high flexibility. <i>Energy Storage Materials</i> , <b>2019</b> , 23, 636-645	19.4	97
29	Super-Stretchable Zinc-Air Batteries Based on an Alkaline-Tolerant Dual-Network Hydrogel Electrolyte. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1803046	21.8	185
28	A Superior MnO Cathode and a Self-Healing Zn-MnO Battery. <i>ACS Nano</i> , <b>2019</b> , 13, 10643-10652	16.7	278
27	Ni <sub>3</sub> S <sub>2</sub> /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> , <b>2019</b> , 7, 18915-18924	13	39
26	A Universal Principle to Design Reversible Aqueous Batteries Based on Deposition/Dissolution Mechanism. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1901838	21.8	83
25	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> , <b>2019</b> , 5, 1900553	6.4	24
24	Do Zinc Dendrites Exist in Neutral Zinc Batteries: A Developed Electrohealing Strategy to In Situ Rescue In-Service Batteries. <i>Advanced Materials</i> , <b>2019</b> , 31, e1903778	24	285
23	A Flexible Solid-State Aqueous Zinc Hybrid Battery with Flat and High-Voltage Discharge Plateau. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1902473	21.8	79
22	Commencing an Acidic Battery Based on a Copper Anode with Ultrafast Proton-Regulated Kinetics and Superior Dendrite-Free Property. <i>Advanced Materials</i> , <b>2019</b> , 31, e1905873	24	46
21	Hydrated hybrid vanadium oxide nanowires as the superior cathode for aqueous Zn battery. <i>Materials Today Energy</i> , <b>2019</b> , 14, 100361	7	48
20	Biomimetic organohydrogel electrolytes for high-environmental adaptive energy storage devices. <i>EcoMat</i> , <b>2019</b> , 1, e12008	9.4	55
19	MoS <sub>2</sub> nanosheets with expanded interlayer spacing for rechargeable aqueous Zn-ion batteries. <i>Energy Storage Materials</i> , <b>2019</b> , 19, 94-101	19.4	227

18	Single-Site Active Iron-Based Bifunctional Oxygen Catalyst for a Compressible and Rechargeable Zinc-Air Battery. <i>ACS Nano</i> , <b>2018</b> , 12, 1949-1958	16.7	255
17	Waterproof and Tailorable Elastic Rechargeable Yarn Zinc Ion Batteries by a Cross-Linked Polyacrylamide Electrolyte. <i>ACS Nano</i> , <b>2018</b> , 12, 3140-3148	16.7	305
16	Advances in Flexible and Wearable Energy-Storage Textiles. <i>Small Methods</i> , <b>2018</b> , 2, 1800124	12.8	87
15	A smart safe rechargeable zinc ion battery based on sol-gel transition electrolytes. <i>Science Bulletin</i> , <b>2018</b> , 63, 1077-1086	10.6	94
14	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> , <b>2018</b> , 57, 9810-9813	16.4	121
13	An Intrinsically Self-Healing NiCo  Zn Rechargeable Battery with a Self-Healable Ferric-Ion-Crosslinking Sodium Polyacrylate Hydrogel Electrolyte. <i>Angewandte Chemie</i> , <b>2018</b> , 130, 9958-9961	16.6	10
12	A Nanofibrillated Cellulose/Polyacrylamide Electrolyte-Based Flexible and Sewable High-Performance Zn-MnO Battery with Superior Shear Resistance. <i>Small</i> , <b>2018</b> , 14, e1803978	11	119
11	Self-healable electroluminescent devices. <i>Light: Science and Applications</i> , <b>2018</b> , 7, 102	16.7	52
10	Highly Compressible Cross-Linked Polyacrylamide Hydrogel-Enabled Compressible Zn-MnO Battery and a Flexible Battery-Sensor System. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 44527-44534	9.5	75
9	In situ formation of NaTi <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> cubes on Ti <sub>3</sub> C <sub>2</sub> MXene for dual-mode sodium storage. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 18525-18532	13	36
8	Carbon-Based Flexible and All-Solid-State Micro-supercapacitors Fabricated by Inkjet Printing with Enhanced Performance. <i>Nano-Micro Letters</i> , <b>2017</b> , 9, 19	19.5	39
7	Highly Flexible and Bright Electroluminescent Devices Based on Ag Nanowire Electrodes and Top-Emission Structure. <i>Advanced Electronic Materials</i> , <b>2017</b> , 3, 1600535	6.4	42
6	Coaxial-Structured Weavable and Wearable Electroluminescent Fibers. <i>Advanced Electronic Materials</i> , <b>2017</b> , 3, 1700401	6.4	38
5	Structural properties and enhanced bandgap tunability of quaternary CdZnOS epitaxial films grown by pulsed laser deposition. <i>Journal of Alloys and Compounds</i> , <b>2015</b> , 650, 748-752	5.7	11
4	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
3	Gradient fluorinated alloy to enable highly reversible Zn-metal anode chemistry. <i>Energy and Environmental Science</i> ,	35.4	19
2	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
1	MXene chemistry, electrochemistry and energy storage applications. <i>Nature Reviews Chemistry</i> ,	34.6	35

