

Jian-Wen Liu

List of Publications by Year in descending order

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Version: 2024-02-01

32
papers

2,248
citations

361045

20
h-index

454577

30
g-index

32
all docs

32
docs citations

32
times ranked

2019
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrolyte Design for In Situ Construction of Highly Zn ²⁺ -Conductive Solid Electrolyte Interphase to Enable High-Performance Aqueous Zn-Ion Batteries under Practical Conditions. <i>Advanced Materials</i> , 2021, 33, e2007416.	11.1	484
2	Bio-inspired design of an <i>in situ</i> multifunctional polymeric solid electrolyte interphase for Zn metal anode cycling at 30 mA cm ⁻² and 30 mA h cm ⁻² . <i>Energy and Environmental Science</i> , 2021, 14, 5947-5957.	15.6	289
3	Tuning the Electrolyte Solvation Structure to Suppress Cathode Dissolution, Water Reactivity, and Zn Dendrite Growth in Zinc-Ion Batteries. <i>Advanced Functional Materials</i> , 2021, 31, 2104281.	7.8	225
4	Direct regeneration of cathode materials from spent lithium iron phosphate batteries using a solid phase sintering method. <i>RSC Advances</i> , 2017, 7, 4783-4790.	1.7	199
5	Ni ₃ N/NF as Bifunctional Catalysts for Both Hydrogen Generation and Urea Decomposition. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 13168-13175.	4.0	147
6	Fluorinated phosphazene derivative – A promising electrolyte additive for high voltage lithium ion batteries: From electrochemical performance to corrosion mechanism. <i>Nano Energy</i> , 2018, 46, 404-414.	8.2	137
7	Phase Compatible NiFe ₂ O ₄ Coating Tunes Oxygen Redox in Li-Rich Layered Oxide. <i>ACS Nano</i> , 2021, 15, 11607-11618.	7.3	95
8	Re-synthesis of nano-structured LiFePO ₄ /graphene composite derived from spent lithium-ion battery for booming electric vehicle application. <i>Journal of Power Sources</i> , 2019, 419, 192-202.	4.0	87
9	Lithium fluoride recovery from cathode material of spent lithium-ion battery. <i>RSC Advances</i> , 2018, 8, 8990-8998.	1.7	66
10	A General Strategy for Antimony-Based Alloy Nanocomposite Embedded in Swiss-Cheese-Like Nitrogen-Doped Porous Carbon for Energy Storage. <i>Advanced Functional Materials</i> , 2021, 31, 2009433.	7.8	62
11	Bi ₂ Se ₃ @C Rod-like Architecture with Outstanding Electrochemical Properties in Lithium/Potassium-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2020, 3, 11073-11081.	2.5	61
12	Integrated Polypyrrole@Sulfur@Graphene Aerogel 3D Architecture via Advanced Vapor Polymerization for High-Performance Lithium-Sulfur Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 18448-18455.	4.0	53
13	<i>N,N</i> -Dimethylformamide Electrolyte Additive Via a Blocking Strategy Enables High-Performance Lithium-Ion Battery under High Temperature. <i>Journal of Physical Chemistry C</i> , 2019, 123, 5942-5950.	1.5	44
14	Encapsulating MnSe Nanoparticles Inside 3D Hierarchical Carbon Frameworks with Lithium Storage Boosted by in Situ Electrochemical Phase Transformation. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 33022-33032.	4.0	40
15	In situ growth of ZnO nanodots on carbon hierarchical hollow spheres as high-performance electrodes for lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2018, 735, 1079-1087.	2.8	34
16	Lithium Nickel Cobalt Manganese Oxide Recovery via Spray Pyrolysis Directly from the Leachate of Spent Cathode Scraps. <i>ACS Applied Energy Materials</i> , 2019, 2, 6952-6959.	2.5	30
17	Hierarchical Structural Evolution of Zn ₂ GeO ₄ in Binary Solvent and Its Effect on Li-ion Storage Performance. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 9778-9784.	4.0	26
18	Preparation and characterization of lithium hexafluorophosphate for lithium-ion battery electrolyte. <i>Transactions of Nonferrous Metals Society of China</i> , 2010, 20, 344-348.	1.7	25

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19	Synergistic Inorganic–Organic Dual-Additive Electrolytes Enable Practical High-Voltage Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 10447-10456.	4.0	23
20	Graphene-Like Matrix Composites with Fe ₂ O ₃ and Co ₃ O ₄ as Cathode Materials for Lithium–Sulfur Batteries. <i>ACS Applied Nano Materials</i> , 2020, 3, 1382-1390.	2.4	21
21	A closed-loop regeneration of LiNi _{0.6} Co _{0.2} Mn _{0.2} O ₂ and graphite from spent batteries <i>via</i> efficient lithium supplementation and structural remodelling. <i>Sustainable Energy and Fuels</i> , 2021, 5, 4981-4991.	2.5	21
22	Encapsulation of BiOCl nanoparticles in N-doped carbon nanotubes as a highly efficient anode for potassium ion batteries. <i>Nanoscale</i> , 2022, 14, 5814-5823.	2.8	18
23	Hierarchical Porous NiO/2–NiMoO ₄ Heterostructure as Superior Anode Material for Lithium Storage. <i>ChemPlusChem</i> , 2018, 83, 915-923.	1.3	15
24	Hierarchical structure constructed by manganese oxalate framework with accurate iron doping for ultra-efficient lithium storage. <i>Electrochimica Acta</i> , 2021, 380, 138217.	2.6	10
25	Graphene aerogel supported crystalline ZnO@amorphous Zn ₂ GeO ₄ core–shell hierarchical structure for lithium storage. <i>RSC Advances</i> , 2017, 7, 17769-17772.	1.7	8
26	Metal multiple-sulfides with nitrogen doped carbon layer for high performance lithium-sulfur batteries. <i>Journal of Alloys and Compounds</i> , 2019, 798, 531-539.	2.8	7
27	1-(2-Cyanoethyl)pyrrole enables excellent battery performance at high temperature <i>via</i> the synergistic effect of Lewis base and C, N functional groups. <i>Chemical Communications</i> , 2020, 56, 8420-8423.	2.2	6
28	Facile synthesis of bimetallic zeolite imidazolate framework with enhanced lithium storage performance. <i>Ionics</i> , 2020, 26, 2107-2115.	1.2	5
29	Nano-Fe ₂ O ₃ -coated NiMoO ₄ composites for high lithium storage performance. <i>Ionics</i> , 2022, 28, 1501-1510.	1.2	4
30	Synthesis of ZnMoO ₄ with different polymorphs anode materials for lithium–ion batteries application. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 20213-20220.	1.1	3
31	Building a House for Stabilizing Lithium–Metal Anodes. <i>Batteries and Supercaps</i> , 0, , .	2.4	2
32	Novel Nitride-Based Electrodes for Solid-State Batteries. <i>ACS Symposium Series</i> , 0, , 15-38.	0.5	1