

Wen-Feng Ren

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1434809/publications.pdf>

Version: 2024-02-01

35
papers

1,376
citations

394286

19
h-index

345118

36
g-index

36
all docs

36
docs citations

36
times ranked

1783
citing authors

#	ARTICLE	IF	CITATIONS
1	Scalable Synthesis of Interconnected Porous Silicon/Carbon Composites by the Rochow Reaction as High-Performance Anodes of Lithium Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 5165-5169.	7.2	175
2	Porous carbons derived from hypercrosslinked porous polymers for gas adsorption and energy storage. <i>Carbon</i> , 2017, 114, 608-618.	5.4	170
3	Microporous organic polymer-based lithium ion batteries with improved rate performance and energy density. <i>Journal of Power Sources</i> , 2016, 317, 49-56.	4.0	110
4	Carbon-coated porous silicon composites as high performance Li-ion battery anode materials: can the production process be cheaper and greener?. <i>Journal of Materials Chemistry A</i> , 2016, 4, 552-560.	5.2	88
5	Highly Conductive and Mechanically Robust Cellulose Nanocomposite Hydrogels with Antifreezing and Antidehydration Performances for Flexible Humidity Sensors. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 10886-10897.	4.0	87
6	Transparent, Self-Adhesive, Conductive Organohydrogels with Fast Gelation from Lignin-Based Self-Catalytic System for Extreme Environment-Resistant Triboelectric Nanogenerators. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	63
7	Preparation of porous silicon/carbon microspheres as high performance anode materials for lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2015, 3, 5859-5865.	5.2	60
8	Solvent-induced in-situ self-assembly lignin nanoparticles to reinforce conductive nanocomposite organogels as anti-freezing and anti-dehydration flexible strain sensors. <i>Chemical Engineering Journal</i> , 2022, 433, 133202.	6.6	54
9	Si anode for next-generation lithium-ion battery. <i>Current Opinion in Electrochemistry</i> , 2019, 18, 46-54.	2.5	48
10	A renewable biomass-based lignin film as an effective protective layer to stabilize zinc metal anodes for high-performance zinc-iodine batteries. <i>Journal of Materials Chemistry A</i> , 2022, 10, 4845-4857.	5.2	47
11	Fabrication of multi-shell coated silicon nanoparticles via in-situ electroless deposition as high performance anodes for lithium ion batteries. <i>Journal of Energy Chemistry</i> , 2020, 48, 160-168.	7.1	37
12	Improving the Electrochemical Property of Silicon Anodes through Hydrogen-Bonding Cross-Linked Thiourea-Based Polymeric Binders. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 639-649.	4.0	36
13	Preparation of porous carbon microspheres anode materials from fine needle coke powders for lithium-ion batteries. <i>RSC Advances</i> , 2015, 5, 11115-11123.	1.7	35
14	Novel silicon/carbon nano-branches synthesized by reacting silicon with methyl chloride: A high performing anode material in lithium ion battery. <i>Journal of Power Sources</i> , 2016, 332, 88-95.	4.0	29
15	Ultrahigh sulfur content up to 93 wt% encapsulated in multilayer nanoshell of V/V ₂ O ₅ composite to suppress shuttle effect of lithium-sulfur battery with high-performance. <i>Materials Today Energy</i> , 2019, 13, 267-276.	2.5	29
16	Storage Characteristics and Surface Basicity Properties of Li-Rich Cathode Materials Used in Lithium Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2013, 160, A82-A86.	1.3	23
17	Boosting photocatalytic performance for selective oxidation of biomass-derived pentoses and hexoses to lactic acid using hierarchically porous Cu/Cu ₂ O/CuO@CA. <i>Journal of Materials Chemistry C</i> , 2021, 9, 16450-16458.	2.7	22
18	Fabrication of Si Nanoparticles@Conductive Carbon Framework@Polymer Composite as High-Areal Capacity Anode of Lithium-Ion Batteries. <i>ChemElectroChem</i> , 2018, 5, 3258-3265.	1.7	20

#	ARTICLE	IF	CITATIONS
19	Low-Cost Synthesis of Porous Silicon via Ferrite-Assisted Chemical Etching and Their Application as Si-Based Anodes for Li-Ion Batteries. <i>Advanced Electronic Materials</i> , 2015, 1, 1400059.	2.6	18
20	Nanosized Si particles with rich surface organic functional groups as high-performance Li-battery anodes. <i>Electrochimica Acta</i> , 2019, 320, 134625.	2.6	16
21	Preparation-microstructure-performance relationship of Li-rich transition metal oxides microspheres as cathode materials for lithium ion batteries. <i>Electrochimica Acta</i> , 2016, 191, 491-499.	2.6	15
22	Li ₄ SiO ₄ -coated LiNi _{0.5} Mn _{1.5} O ₄ as the high performance cathode materials for lithium-ion batteries. <i>Frontiers in Energy</i> , 2017, 11, 374-382.	1.2	15
23	Mn _{0.5} Co _{0.5} Fe ₂ O ₄ nanoparticles highly dispersed in porous carbon microspheres as high performance anode materials in Li-ion batteries. <i>Nanoscale</i> , 2014, 6, 6805.	2.8	14
24	High Cycling Performance Li-S Battery via Fenugreek Gum Binder Through Chemical Bonding of the Binder with Polysulfides in Nanosulfur@CNFs Cathode. <i>ChemistrySelect</i> , 2020, 5, 8969-8979.	0.7	11
25	Bifunctional hydrogen-bonding cross-linked polymeric binders for silicon anodes of lithium-ion batteries. <i>Electrochimica Acta</i> , 2022, 402, 139552.	2.6	11
26	Improved molten salt synthesis and structure evolution upon cycling of 0.5Li ₂ MnO ₃ ·0.5LiCoO ₂ in lithium-ion batteries. <i>Journal of Solid State Electrochemistry</i> , 2013, 17, 2259-2267.	1.2	10
27	Heteroatom-rich polymers as a protective film to control lithium growth for high-performance lithium-metal batteries. <i>Journal of Power Sources</i> , 2022, 521, 230949.	4.0	9
28	Ultrahighly Elastic Lignin-Based Copolymers as an Effective Binder for Silicon Anodes of Lithium-Ion Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 166-176.	3.2	9
29	Synthesis of LiFe _{0.4} Mn _{0.4} Co _{0.2} PO ₄ /C cathode material of lithium ion battery with enhanced electrochemical performance. <i>Journal of Alloys and Compounds</i> , 2019, 782, 413-420.	2.8	8
30	Facile synthesis of spinel LiNi _{0.5} Mn _{1.5} O ₄ cathode materials using M ₂ (OH) ₂ (C ₈ H ₄ O ₄)-class metal-organic frameworks. <i>Ionics</i> , 2017, 23, 2969-2980.	1.2	7
31	Fabrication of polyacrylic acid-based composite binders with strong binding forces on copper foils for silicon anodes in lithium-ion batteries. <i>Journal of Industrial and Engineering Chemistry</i> , 2022, 109, 521-529.	2.9	7
32	Synthesis of porous microspheres composed of graphitized carbon@amorphous silicon/carbon layers as high performance anode materials for Li-ion batteries. <i>RSC Advances</i> , 2014, 4, 55010-55015.	1.7	6
33	Ni _{0.33} Mn _{0.33} Co _{0.33} Fe ₂ O ₄ nanoparticles anchored on oxidized carbon nanotubes as advanced anode materials in Li-ion batteries. <i>RSC Advances</i> , 2014, 4, 33769-33775.	1.7	4
34	The Si@C Network Electrode Prepared by an In-Situ Carbonization Strategy with Enhanced Cycle Performance. <i>ChemElectroChem</i> , 2020, 7, 4999-5004.	1.7	4
35	Facile patterning silicon wafer by Rochow reaction over patterned Cu-based catalysts. <i>Applied Surface Science</i> , 2016, 360, 192-197.	3.1	3