Xing-Xing Gu

List of Publications by Year
in descending order

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50 papers	2,831 citations	201385 27 h-index	197535 49 g-index
52 all docs	52 docs citations	52 times ranked	3895 citing authors

#	Article	IF	Citations
1	Microporous bamboo biochar for lithium-sulfur batteries. Nano Research, 2015, 8, 129-139.	5.8	284
2	A porous nitrogen and phosphorous dual doped graphene blocking layer for high performance Liâ€“S batteries. Journal of Materials Chemistry A, 2015, 3, 16670-16678.	5.2	241
3	Dual-functional gum arabic binder for silicon anodes in lithium ion batteries. Nano Energy, 2015, 12, 178-185.	8.2	236
4	Efficient Oxygen Reduction Catalysts of Porous Carbon Nanostructures Decorated with Transition Metal Species. Advanced Energy Materials, 2020, 10, 1900375.	10.2	175
5	Stabilizing lithium metal anode by octaphenyl polyoxyethylene-lithium complexation. Nature Communications, 2020, 11, 643.	5.8	161
6	3D Vertically Aligned and Interconnected Porous Carbon Nanosheets as Sulfur Immobilizers for High Performance Lithiumâ€Sulfur Batteries. Advanced Energy Materials, 2016, 6, 1502518.	10.2	138
7	A conductive interwoven bamboo carbon fiber membrane for Liâ€“S batteries. Journal of Materials Chemistry A, 2015, 3, 9502-9509.	5.2	131
8	Interface Engineering via Ti3C2Tx MXene Electrolyte Additive toward Dendrite-Free Zinc Deposition. Nano-Micro Letters, 2021, 13, 89.	14.4	130
9	DFT-Guided Design and Fabrication of Carbon-Nitride-Based Materials for Energy Storage Devices: A Review. Nano-Micro Letters, 2021, 13, 13.	14.4	91
10	One dimensional nanostructures contribute better Liâ€“S and Liâ€“Se batteries: Progress, challenges and perspectives. Energy Storage Materials, 2019, 23, 190-224.	9.5	86
11	All-climate sodium ion batteries based on the NASICON electrode materials. Nano Energy, 2016, 30, 756-761.	8.2	81
12	Ball-milling synthesis of ZnO@sulphur/carbon nanotubes and Ni(OH)2@sulphur/carbon nanotubes composites for high-performance lithium-sulphur batteries. Electrochimica Acta, 2016, 196, 369-376.	2.6	77
13	Carbon Nitride Nanofibres with Exceptional Lithium Storage Capacity: From Theoretical Prediction to Experimental Implementation. Advanced Functional Materials, 2018, 28, 1803972.	7.8	77
14	Electrolyte Salts and Additives Regulation Enables High Performance Aqueous Zinc Ion Batteries: A Mini Review. Small, 2022, 18, e2104640.	5.2	69
15	Multifunctional Nitrogen-Doped Loofah Sponge Carbon Blocking Layer for High-Performance Rechargeable Lithium Batteries. ACS Applied Materials & Interfaces, 2016, 8, 15991-16001.	4.0	64
16	Ultrathin Fe₂O₃ nanoflakes using smart chemical stripping for high performance lithium storage. Journal of Materials Chemistry A, 2017, 5, 18737-18743.	5.2	62
17	Rechargeable metal batteries based on selenium cathodes: progress, challenges and perspectives. Journal of Materials Chemistry A, 2019, 7, 11566-11583.	5.2	61
18	Highly porous nitrogen-doped seaweed carbon for high-performance lithiumâ€“sulfur batteries. Journal of Materials Science, 2017, 52, 12336-12347.	1.7	44

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19	Facile synthesis of CeO2/g-C3N4 nanocomposites with significantly improved visible-light photocatalytic activity for hydrogen evolution. International Journal of Hydrogen Energy, 2019, 44, 16154-16163.	3.8	43
20	Photoreduction preparation of Cu 2 O@polydopamine nanospheres with enhanced photocatalytic activity under visible light irradiation. Journal of Solid State Chemistry, 2017, 254, 55-61.	1.4	42
21	Polyoxometalate driven dendrite-free zinc electrodes with synergistic effects of cation and anion cluster regulation. Journal of Materials Chemistry A, 2021, 9, 7025-7033.	5.2	42
22	Recent development of metal compound applications in lithiumâ€“sulphur batteries. Journal of Materials Research, 2018, 33, 16-31.	1.2	41
23	Highly Reversible Liâ€“Se Batteries with Ultra-Lightweight N,S-Codoped Graphene Blocking Layer. Nano-Micro Letters, 2018, 10, 59.	14.4	41
24	Exploiting methylated amino resin as a multifunctional binder for high-performance lithiumâ€“sulfur batteries. Rare Metals, 2021, 40, 529-536.	3.6	37
25	Reinforced Conductive Confinement of Sulfur for Robust and High-Performance Lithiumâ€“Sulfur Batteries. ACS Applied Materials & Interfaces, 2015, 7, 23885-23892.	4.0	35
26	Grapheneâ€Based Sulfur Composites for Energy Storage and Conversion in Liâ€S Batteries. Chinese Journal of Chemistry, 2016, 34, 13-31.	2.6	32
27	Hyperbranched molecules having multiple functional groups as effective corrosion inhibitors for Al alloys in aqueous NaCl. Journal of Colloid and Interface Science, 2021, 585, 614-626.	5.0	30
28	Role of anions on structure and pseudocapacitive performance of metal double hydroxides decorated with nitrogen-doped graphene. Science China Materials, 2015, 58, 114-125.	3.5	27
29	Adsorption Removal of Various Nitrophenols in Aqueous Solution by Aminopropyl-Modified Mesoporous MCM-48. Journal of Chemical & Engineering Data, 2018, 63, 3606-3614.	1.0	27
30	Liâ€containing alloys beneficial for stabilizing lithium anode: A review. Engineering Reports, 2021, 3, e12339.	0.9	26
31	Highly branched amylopectin binder for sulfur cathodes with enhanced performance and longevity. Exploration, 2022, 2, 20210131.	5.4	23
32	Recent Development of Carbonaceous Materials for Lithiumâ€“Sulphur Batteries. Batteries, 2016, 2, 33.	2.1	20
33	Multi-coreâ€“shell-structured LiFePO4@Na3V2(PO4)3@C composite for enhanced low-temperature performance of lithium-ion batteries. Rare Metals, 2021, 40, 828-836.	3.6	18
34	Amino-Functionalized Mesoporous Silicas MCM-48 as Zn(II) Sorbents in Water Samples. Journal of Chemical & Engineering Data, 2012, 57, 2059-2066.	1.0	17
35	From agaric hydrogel to nitrogen-doped 3D porous carbon for high-performance Liâ€“S batteries. Journal of Materials Science, 2020, 55, 1136-1147.	1.7	17
36	Rational Design of Coâ€NiSe₂@Nâ€Doped Carbon Hollow Structure for Enhanced Liâ€“S Battery Performance. Energy Technology, 2020, 8, 2000302.	1.8	14

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37	Encapsulating Sn(OH)₄ Nanoparticles in Micropores of Mesocarbon Microbeads: A New Anode Material for Highâ€Performance Lithium Ion Batteries. Advanced Materials Technologies, 2021, 6, 2000849.	3.0	14
38	A Typha Angustifolia-Like MoS2/Carbon Nanofiber Composite for High Performance Li-S Batteries. Frontiers in Chemistry, 2020, 8, 149.	1.8	12
39	Metal Atom-Decorated Carbon Nanomaterials for Enhancing Li-S/Se Batteries Performances: A Mini Review. Frontiers in Energy Research, 2021, 9, .	1.2	12
40	Poly(thiourea triethylene glycol) as a multifunctional binder for enhanced performance in lithium-sulfur batteries. Green Energy and Environment, 2022, 7, 1206-1216.	4.7	10
41	Adsorption of Methyl Violet Onto Mesoporous MCM-48 from Aqueous Solution. Journal of Nanoscience and Nanotechnology, 2014, 14, 4655-4663.	0.9	9
42	Water Reducer: A Highly Dispersing Binder for <scp>Highâ€Performance Lithiumâ€Sulfur</scp> Batteries^{â€}. Chinese Journal of Chemistry, 2021, 39, 1523-1530.	2.6	8
43	Sustainable â€œSweet and Saltyâ€•Synthesis of Hierarchical Porous Carbon for Lithiumâ€“Sulfur Batteries. ACS Applied Energy Materials, 2022, 5, 4991-5001.	2.5	6
44	Half-Sphere Shell Supported Pt Catalyst for Electrochemical Methanol Oxidation. Journal of the Electrochemical Society, 2020, 167, 084510.	1.3	5
45	Adsorption of multi-bivalent heavy metal ions in aqueous solution onto aminopropyl-functionalized MCM-48 preparation by co-condensation. Separation Science and Technology, 2021, 56, 1819-1829.	1.3	5
46	Defect-rich and highly porous carbon nanosheets derived from Ti3AlC2 MAX with good lithium storage properties. Chinese Chemical Letters, 2023, 34, 107228.	4.8	4
47	Oxygen Reduction Reaction: Efficient Oxygen Reduction Catalysts of Porous Carbon Nanostructures Decorated with Transition Metal Species (Adv. Energy Mater. 11/2020). Advanced Energy Materials, 2020, 10, 2070050.	10.2	3
48	Insight into the anti-corrosion performance of three imidazo-pyridazines for Al alloy in different concentrations of hydrochloric acid solutions. Journal of Industrial and Engineering Chemistry, 2022, 113, 348-359.	2.9	2
49	Communicationâ€”Organic Silane Coupling Agent Si-69: A New Organosulfur Cathode Material for Rechargeable Lithium Batteries. Journal of the Electrochemical Society, 2018, 165, A3782-A3784.	1.3	1
50	Lithium-Sulfur Batteries: 3D Vertically Aligned and Interconnected Porous Carbon Nanosheets as Sulfur Immobilizers for High Performance Lithium-Sulfur Batteries (Adv. Energy Mater. 12/2016). Advanced Energy Materials, 2016, 6, .	10.2	0