

Xiaohong Sun

List of Publications by Year in descending order

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91
papers

3,549
citations

172443

29
h-index

149686

56
g-index

92
all docs

92
docs citations

92
times ranked

4844
citing authors

#	ARTICLE	IF	CITATIONS
1	Graphene-supported cobalt nanoparticles used to activate SiO ₂ -based anode for lithium-ion batteries. Chinese Chemical Letters, 2023, 34, 107305.	9.0	7
2	Influence of fermentation with different lactic acid bacteria and <i>in vitro</i> digestion on the change of phenolic compounds in fermented kiwifruit pulps. International Journal of Food Science and Technology, 2022, 57, 2670-2679.	2.7	13
3	Bifunctional tin modified SnO ₂ nanospheres embedded biomass-derived carbon network for polysulfides adsorption-conversion in lithium-sulfur batteries. Journal of Alloys and Compounds, 2022, 895, 162578.	5.5	6
4	Direct ink writing of cordierite ceramics with low thermal expansion coefficient. Journal of the European Ceramic Society, 2022, 42, 1685-1693.	5.7	9
5	LaPO ₄ coating on alumina-based fiber: Strength retention of fiber and improvement of interfacial performances. Ceramics International, 2022, 48, 7836-7849.	4.8	2
6	Novel fast lithium-ion conductor LiTa ₂ PO ₈ enhances the performance of poly(ethylene oxide)-based polymer electrolytes in all-solid-state lithium metal batteries. Chinese Chemical Letters, 2022, 33, 4037-4042.	9.0	12
7	Boosted H ⁺ Intercalation Enables Ultrahigh Rate Performance of the γ -MnO ₂ Cathode for Aqueous Zinc Batteries. ACS Applied Materials & Interfaces, 2022, 14, 26653-26661.	8.0	15
8	Direct ink writing of dense alumina ceramics prepared by rapid sintering. Ceramics International, 2022, 48, 30767-30778.	4.8	5
9	Development of a GIS based hazard, exposure, and vulnerability analyzing method for monitoring drought risk at Karachi, Pakistan. Geomatics, Natural Hazards and Risk, 2022, 13, 1700-1720.	4.3	10
10	Methods for enhancing the capacity of electrode materials in low-temperature lithium-ion batteries. Chinese Chemical Letters, 2021, 32, 973-982.	9.0	55
11	ZnSe nanoparticles combined with uniform 3D interconnected MWCNTs conductive network as high-rate and freeze-resistant anode materials for sodium-ion batteries. Applied Surface Science, 2021, 538, 148194.	6.1	23
12	A review of the research progress on the interface between oxide fiber and oxide ceramic matrix. Ceramics International, 2021, 47, 5896-5908.	4.8	20
13	Few-layered MoS ₂ with expanded interplanar spacing strongly encapsulated inside compact carbon spheres by C-S interaction as ultra-stable sodium-ion batteries anode. Journal of Alloys and Compounds, 2021, 858, 157675.	5.5	16
14	Dense ceramics with complex shape fabricated by 3D printing: A review. Journal of Advanced Ceramics, 2021, 10, 195-218.	17.4	113
15	CoS ₂ Nanospheres Anchored on 3D N-Doped Carbon Skeleton Derived from Bacterial Cellulose for Lithium-Sulfur Batteries. Journal of the Electrochemical Society, 2021, 168, 020512.	2.9	8
16	Synthesis of ZnS Nanorods Coated by MoS ₂ /N-Doped Carbon Nanosheets with Enhanced Sodium Storage Properties. Journal of the Electrochemical Society, 2021, 168, 020523.	2.9	0
17	Covalent Coupling-Stabilized Transition-Metal Sulfide/Carbon Nanotube Composites for Lithium/Sodium-Ion Batteries. ACS Nano, 2021, 15, 6735-6746.	14.6	95
18	Redox Enhanced Sodium Metal Batteries by Using Graphene Oxide Encapsulated Mesoporous Carbon Sphere Cathode. Advanced Functional Materials, 2021, 31, 2101637.	14.9	4

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19	Towards Understanding Variability in Droughts in Response to Extreme Climate Conditions over the Different Agro-Ecological Zones of Pakistan. <i>Sustainability</i> , 2021, 13, 6910.	3.2	10
20	Uniform Fe_2O_3 nanoparticles with narrow gap immobilized on CNTs through N-doped carbon as high-performance lithium-ion batteries anode. <i>Ceramics International</i> , 2021, 47, 15743-15749.	4.8	18
21	Supplementation of Kiwifruit Polyphenol Extract Attenuates High Fat Diet Induced Intestinal Barrier Damage and Inflammation via Reshaping Gut Microbiome. <i>Frontiers in Nutrition</i> , 2021, 8, 702157.	3.7	18
22	Improving cycling stability of Bi-encapsulated carbon fibers for lithium/sodium-ion batteries by Fe_2O_3 pinning. <i>Chinese Chemical Letters</i> , 2021, 32, 2459-2462.	9.0	18
23	Carbon-doped surface unsaturated sulfur enriched $\text{CoS}_2@r\text{GO}$ aerogel pseudocapacitive anode and biomass-derived porous carbon cathode for advanced lithium-ion capacitors. <i>Frontiers of Chemical Science and Engineering</i> , 2021, 15, 1500-1513.	4.4	3
24	Strength degradation of alumina fiber: Irreversible phase transition after high-temperature treatment. <i>Ceramics International</i> , 2021, 47, 24582-24588.	4.8	6
25	MnS hollow microspheres combined with carbon nanotubes for enhanced performance sodium-ion battery anode. <i>Chinese Chemical Letters</i> , 2020, 31, 1221-1225.	9.0	49
26	FeS/ZnS nanoflower composites as high performance anode materials for sodium ion batteries. <i>Inorganic Chemistry Communication</i> , 2020, 111, 107635.	3.9	17
27	Nitrogen-Doped graphene coated FeS_2 microsphere composite as high-performance anode materials for sodium-ion batteries enhanced by the chemical and structural synergistic effect. <i>Applied Surface Science</i> , 2020, 505, 144633.	6.1	18
28	Facile Synthesis of Flock-Like $\text{V}_2\text{O}_3/\text{C}$ with Improved Electrochemical Performance as an Anode Material for Li^+ Ion Batteries. <i>Energy Technology</i> , 2020, 8, 1900986.	3.8	11
29	Review on comprehending and enhancing the initial Coulombic efficiency of anode materials in lithium-ion/sodium-ion batteries. <i>Nano Energy</i> , 2020, 77, 105143.	16.0	282
30	Fast and all-weather cleanup of viscous crude-oil spills with $\text{Ti}_3\text{C}_2\text{XT}$ MXene wrapped sponge. <i>Journal of Materials Chemistry A</i> , 2020, 8, 20162-20167.	10.3	77
31	One-Pot Hydrothermal Synthesis of ZnS Nanospheres Anchored on 3D Conductive MWCNTs Networks as High-Rate and Cold-Resistant Anode Materials for Sodium-Ion Batteries. <i>ChemElectroChem</i> , 2020, 7, 1904-1913.	3.4	23
32	Hierarchical porous $\text{Li}_2\text{V}_2\text{O}_4/\text{C}$ anode assembled with nanoflake for high-performance lithium-ion battery. <i>Journal of Materials Science</i> , 2020, 55, 5522-5533.	3.7	4
33	SnS_2 quantum dots uniformly anchored on dispersed S-doped graphene as high-rate anodes for sodium-ion batteries. <i>Ceramics International</i> , 2020, 46, 14416-14424.	4.8	27
34	Controllable synthesis of tunable few-layered MoS_2 chemically bonding with in situ conversion nitrogen-doped carbon for ultrafast reversible sodium and potassium storage. <i>Chemical Engineering Journal</i> , 2020, 393, 124703.	12.7	42
35	Three-dimensional ordered macroporous ZnO/ZnS heterostructure on carbon cloth as a free-standing anode with high areal capacity for sodium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2020, 835, 155156.	5.5	29
36	Review-Key Strategies to Increase the Rate Capacity of Cathode Materials for High Power Lithium-Ion Batteries. <i>Journal of the Electrochemical Society</i> , 2020, 167, 140528.	2.9	14

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37	A facile synthesis of nitrogen-doped hierarchical porous carbon with hollow sphere structure for high-performance supercapacitors. <i>Journal of Materials Science</i> , 2019, 54, 12747-12757.	3.7	12
38	Flexible, three-dimensional ordered macroporous ZnO electrode with enhanced electrochemical performance in lithium-ion batteries. <i>Microporous and Mesoporous Materials</i> , 2019, 289, 109618.	4.4	18
39	Dual carbon-confined Na ₂ MnPO ₄ F nanoparticles as a superior cathode for rechargeable sodium-ion battery. <i>Ceramics International</i> , 2019, 45, 19799-19807.	4.8	23
40	Controlled Synthesis of Na ₃ (VOPO ₄) ₂ F Cathodes with an Ultralong Cycling Performance. <i>ACS Applied Energy Materials</i> , 2019, 2, 7474-7482.	5.1	31
41	Large-scale synthesis of nitrogen-rich hierarchically porous carbon as anode for lithium-ion batteries with high capacity and rate capability. <i>Electrochimica Acta</i> , 2019, 306, 339-349.	5.2	26
42	Enhanced Selective Production of Arenes and Regenerating Rate in Aryl Ether Hydrogenolysis over Mesoporous Nickel in Plug-Flow Reactors. <i>Catalysts</i> , 2019, 9, 904.	3.5	1
43	Nitrogen-rich hierarchically porous carbon as a high-rate anode material with ultra-stable cyclability and high capacity for capacitive sodium-ion batteries. <i>Nano Energy</i> , 2019, 56, 828-839.	16.0	237
44	A Simple One-Pot Strategy for Synthesizing Ultrafine SnS ₂ Nanoparticle/Graphene Composites as Anodes for Lithium/Sodium-Ion Batteries. <i>ChemSusChem</i> , 2018, 11, 1549-1557.	6.8	63
45	High-rate FeS ₂ /CNT neural network nanostructure composite anodes for stable, high-capacity sodium-ion batteries. <i>Nano Energy</i> , 2018, 46, 117-127.	16.0	200
46	Highly reversible and fast sodium storage boosted by improved interfacial and surface charge transfer derived from the synergistic effect of heterostructures and pseudocapacitance in SnO ₂ -based anodes. <i>Nanoscale</i> , 2018, 10, 2301-2309.	5.6	40
47	Enhanced electrochemical performance of SnS nanoparticles/CNTs composite as anode material for sodium-ion battery. <i>Chinese Chemical Letters</i> , 2018, 29, 187-190.	9.0	52
48	Fabrication of porous carbon sphere@SnO ₂ @carbon layer coating composite as high performance anode for sodium-ion batteries. <i>Applied Surface Science</i> , 2018, 433, 713-722.	6.1	24
49	Double-shelled hollow Na ₂ FePO ₄ F/C spheres cathode for high-performance sodium-ion batteries. <i>Journal of Materials Science</i> , 2018, 53, 2735-2747.	3.7	28
50	Three-dimensional hierarchical porous Na ₃ V ₂ (PO ₄) ₃ /C structure with high rate capability and cycling stability for sodium-ion batteries. <i>Chemical Engineering Journal</i> , 2018, 353, 264-272.	12.7	64
51	Mesoporous Graphitic Carbon-Encapsulated Fe ₂ O ₃ Nanocomposite as High-Rate Anode Material for Sodium-Ion Batteries. <i>Chemistry - A European Journal</i> , 2018, 24, 14786-14793.	3.3	29
52	Large-scale and template-free synthesis of hierarchically porous MnCo ₂ O _{4.5} as anode material for lithium-ion batteries with enhanced electrochemical performance. <i>Journal of Materials Science</i> , 2017, 52, 5268-5282.	3.7	23
53	Synthesis of carbon coated Na ₂ FePO ₄ F as cathode materials for high-performance sodium ion batteries. <i>Journal of Alloys and Compounds</i> , 2017, 704, 631-640.	5.5	43
54	Perchlorate ion doped polypyrrole coated ZnS sphere composites as a sodium-ion battery anode with superior rate capability enhanced by pseudocapacitance. <i>RSC Advances</i> , 2017, 7, 43636-43641.	3.6	27

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55	Specifically enhancement of heterogeneous Fenton-like degradation activities for ofloxacin with synergetic effects of bimetallic Fe-Cu on ordered mesoporous silicon. Separation and Purification Technology, 2017, 189, 357-365.	7.9	53
56	Treatment of dye wastewater nanofiltration concentrates containing high anion levels by a pH-sensitive nano-sized Fe@silica microgel. New Journal of Chemistry, 2017, 41, 15357-15367.	2.8	8
57	Sandwich nanostructured LiMnPO ₄ /C as enhanced cathode materials for lithium-ion batteries. Journal of Materials Science, 2017, 52, 3597-3612.	3.7	11
58	Highly Porous Fe ₂ O ₃ /KIT-6 with Mg Substitution for Heterogeneous Fenton Oxidation of Imidacloprid with Enhanced Catalytic Activity. Chemistry Letters, 2015, 44, 601-603.	1.3	6
59	Synthesis and characterization of a phytic acid/mesoporous 45S5 bioglass composite coating on a magnesium alloy and degradation behavior. RSC Advances, 2015, 5, 25708-25716.	3.6	38
60	Enhanced Gas-Sensing Performance of Fe-Doped Ordered Mesoporous NiO with Long-Range Periodicity. Journal of Physical Chemistry C, 2015, 119, 3228-3237.	3.1	74
61	An ordered mesoporous Ag superstructure synthesized via a template strategy for surface-enhanced Raman spectroscopy. Nanoscale, 2015, 7, 12318-12324.	5.6	29
62	Zirconium diboride powders synthesized by boro/carbothermal reaction using sol-gel technology. Transactions of Tianjin University, 2015, 21, 228-233.	6.4	2
63	Calcination system-induced nanocasting synthesis of uniform Co ₃ O ₄ nanoparticles with high surface area and enhanced catalytic performance. RSC Advances, 2015, 5, 35524-35534.	3.6	18
64	Ordered mesoporous hematite promoted by magnesium selective leaching as a highly efficient heterogeneous Fenton-like catalyst. RSC Advances, 2015, 5, 40872-40883.	3.6	24
65	Hydrophilic modification of ordered mesoporous carbon supported Fe nanoparticles with enhanced adsorption and heterogeneous Fenton-like oxidation performance. RSC Advances, 2015, 5, 98842-98852.	3.6	16
66	Green and Economical Synthesis of Carbon-Coated MoO ₂ Nanocrystallines with Highly Reversible Lithium Storage Capacity. Journal of Nanoscience and Nanotechnology, 2014, 14, 4278-4285.	0.9	6
67	Thermal stability of ZrO ₂ -SiO ₂ aerogel modified by Fe(III) ion. Journal of Sol-Gel Science and Technology, 2014, 72, 496-501.	2.4	26
68	Mesoporous In ₂ O ₃ with enhanced acetone gas-sensing property. Materials Letters, 2014, 120, 287-291.	2.6	38
69	A simple one-step solvothermal synthesis of hierarchically structured ZnO hollow spheres for enhanced selective ethanol sensing properties. Journal of Materials Science: Materials in Electronics, 2014, 25, 573-580.	2.2	7
70	Nanocasting Synthesis of In ₂ O ₃ with Appropriate Mesostructured Ordering and Enhanced Gas-Sensing Property. ACS Applied Materials & Interfaces, 2014, 6, 401-409.	8.0	119
71	Morphology, phase structure and acetone sensitive properties of copper-doped tungsten oxide sensors. Sensors and Actuators B: Chemical, 2014, 193, 100-106.	7.8	89
72	Synthesis of crack-free monolithic ZrO ₂ aerogel modified by SiO ₂ . Journal of Porous Materials, 2014, 21, 127-130.	2.6	32

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73	Lanthanum-based coordination polymers microplates using a "green ligand" EDTA with tailorable morphology and fluorescent property. RSC Advances, 2014, 4, 12844.	3.6	18
74	Open-system nanocasting synthesis of nanoscale γ -Fe ₂ O ₃ porous structure with enhanced acetone-sensing properties. Journal of Alloys and Compounds, 2014, 600, 111-117.	5.5	42
75	Rapid and selective detection of acetone using hierarchical ZnO gas sensor for hazardous odor markers application. Journal of Hazardous Materials, 2014, 276, 262-270.	12.4	217
76	Effect of sepiolite fiber on the structure and properties of the sepiolite/silica aerogel composite. Journal of Sol-Gel Science and Technology, 2013, 67, 646-653.	2.4	66
77	The Effect of Propylene Oxide on Microstructure of Zirconia Monolithic Aerogel. Integrated Ferroelectrics, 2013, 146, 122-126.	0.7	10
78	Environmentally Compatible Synthesis of Superparamagnetic Magnetite (Fe ₃ O ₄) Nanoparticles with Prehydrolysate from Corn Stover. BioResources, 2013, 9, .	1.0	5
79	Nanocasting synthesis of ordered mesoporous indium tin oxide (ITO) materials with controllable particle size and high thermal stability. Journal of Alloys and Compounds, 2012, 545, 5-11.	5.5	15
80	The Phase Transformation, Morphology Evolution and Visible-Light Photocatalytic Activity of V-Doped TiO ₂ Thin Films. Integrated Ferroelectrics, 2012, 138, 105-110.	0.7	0
81	Coating on Porous Si ₃ N ₄ Based Substrate with Sol-Gel Slurry. Integrated Ferroelectrics, 2012, 138, 111-116.	0.7	2
82	Scaling up of ethanol production from sugar molasses using yeast immobilized with alginate-based MCM-41 mesoporous zeolite composite carrier. Bioresource Technology, 2012, 115, 208-214.	9.6	18
83	Low cost and non-surfactant synthesis of fluorinated alumina modified with magnesium for condensation of aniline to diphenylamine. Journal of Fluorine Chemistry, 2012, 135, 373-378.	1.7	6
84	Container Effect in Nanocasting Synthesis of Mesoporous Metal Oxides. Journal of the American Chemical Society, 2011, 133, 14542-14545.	13.7	167
85	Effect of γ -Al ₂ O ₃ on in situ synthesis low density α -sialon multiphase ceramics. Journal of Alloys and Compounds, 2011, 509, 8345-8349.	5.5	7
86	Synthesis of Uniform TiO ₂ Nanoparticles with Egg Albumen Proteins as Novel Biotemplate. Journal of Nanoscience and Nanotechnology, 2010, 10, 5767-5775.	0.9	22
87	High performance separation of aerosol sprayed mesoporous TiO ₂ sub-microspheres from aggregates via density gradient centrifugation. Journal of Materials Chemistry, 2010, 20, 4162.	6.7	18
88	Size-Controlled Synthesis of Magnetite (Fe ₃ O ₄) Nanoparticles Coated with Glucose and Gluconic Acid from a Single Fe(III) Precursor by a Sucrose Bifunctional Hydrothermal Method. Journal of Physical Chemistry C, 2009, 113, 16002-16008.	3.1	227
89	Bioinspired synthesis of hierarchical macro-mesoporous titania with tunable macroporous morphology using cell-assemblies as macrotemplates. Chemical Communications, 2009, , 4750.	4.1	23
90	β -Cyclodextrin-Assisted Synthesis of Superparamagnetic Magnetite Nanoparticles from a Single Fe(III) Precursor. Journal of Physical Chemistry C, 2008, 112, 17148-17155.	3.1	46

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91	Synthesis of Anatase TiO ₂ Nanoparticles with β -Cyclodextrin as a Supramolecular Shell. Chemistry - an Asian Journal, 2006, 1, 664-668.	3.3	23