

Xuzhen Wang

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44
papers

1,946
citations

25
h-index

44
g-index

47
ext. papers

2,330
ext. citations

9.1
avg. IF

4.92
L-index

#	Paper	IF	Citations
44	A Top-Down Strategy toward 3D Carbon Nanosheet Frameworks Decorated with Hollow Nanostructures for Superior Lithium Storage. <i>Advanced Functional Materials</i> , 2016 , 26, 7590-7598	15.6	168
43	Engineering hollow polyhedrons structured from carbon-coated CoSe ₂ nanospheres bridged by CNTs with boosted sodium storage performance. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 13591-13600 ¹³		160
42	Highly Stretchable and Ultrasensitive Strain Sensor Based on Reduced Graphene Oxide Microtubes-Elastomer Composite. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 27432-9	9.5	159
41	Carbon-Stabilized Interlayer-Expanded Few-Layer MoSe Nanosheets for Sodium Ion Batteries with Enhanced Rate Capability and Cycling Performance. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 32324-32332 ^{9.5}	9.5	195
40	Interlayer expanded MoS ₂ enabled by edge effect of graphene nanoribbons for high performance lithium and sodium ion batteries. <i>Carbon</i> , 2016 , 109, 461-471	10.4	100
39	Low temperature plasma synthesis of mesoporous Fe ₃ O ₄ nanorods grafted on reduced graphene oxide for high performance lithium storage. <i>Nanoscale</i> , 2014 , 6, 2286-91	7.7	87
38	Flexible Paper-like Free-Standing Electrodes by Anchoring Ultrafine SnS Nanocrystals on Graphene Nanoribbons for High-Performance Sodium Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 15484-15491	9.5	84
37	Cellular carbon-wrapped FeSe ₂ nanocavities with ultrathin walls and multiple rooms for ion diffusion-confined ultrafast sodium storage. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 4469-4479	13	67
36	Nanopore-confined g-C ₃ N ₄ nanodots in N, S co-doped hollow porous carbon with boosted capacity for lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 7133-7141	13	67
35	Nitrogen-doped graphene nanoribbons for high-performance lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 16832-16835	13	65
34	Two-dimensional graphene-like N, Co-codoped carbon nanosheets derived from ZIF-67 polyhedrons for efficient oxygen reduction reactions. <i>Chemical Communications</i> , 2017 , 53, 7840-7843	5.8	58
33	Nitrogen-doped mesoporous carbon nanosheets derived from metal-organic frameworks in a molten salt medium for efficient desulfurization. <i>Carbon</i> , 2017 , 117, 376-382	10.4	56
32	Low-temperature plasma-assisted preparation of graphene supported palladium nanoparticles with high hydrodesulfurization activity. <i>Journal of Materials Chemistry</i> , 2012 , 22, 14363		56
31	Nitrogen-doped carbon nanotubes decorated with cobalt nanoparticles derived from zeolitic imidazolate framework-67 for highly efficient oxygen reduction reaction electrocatalysis. <i>Carbon</i> , 2018 , 132, 580-588	10.4	52
30	Microwave-assisted synthesis of MoS ₂ /graphene nanocomposites for efficient hydrodesulfurization. <i>Fuel</i> , 2014 , 119, 163-169	7.1	51
29	Cobalt nitride nanoparticles embedded in porous carbon nanosheet arrays propelling polysulfides conversion for highly stable lithium-sulfur batteries. <i>Energy Storage Materials</i> , 2019 , 21, 210-218	19.4	51
28	Shape-Control and Characterization of Magnetite Prepared via a One-Step Solvothermal Route. <i>Crystal Growth and Design</i> , 2010 , 10, 2863-2869	3.5	49

27	Nitrogen-doped hierarchical porous carbon derived from metal-organic aerogel for high performance lithium-sulfur batteries. <i>Journal of Energy Chemistry</i> , 2017 , 26, 1282-1290	12	47
26	Molten salt synthesis of nitrogen-doped porous carbons for hydrogen sulfide adsorptive removal. <i>Carbon</i> , 2015 , 95, 852-860	10.4	47
25	Highly stable lithium-sulfur batteries based on p-n heterojunctions embedded on hollow sheath carbon propelling polysulfides conversion. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 9230-9240	13	43
24	A novel robust adsorbent for efficient oil/water separation: Magnetic carbon nanospheres/graphene composite aerogel. <i>Journal of Hazardous Materials</i> , 2020 , 392, 122499	12.8	41
23	Multifunctional nitrogen-doped graphene nanoribbon aerogels for superior lithium storage and cell culture. <i>Nanoscale</i> , 2016 , 8, 2159-67	7.7	38
22	Self-assembled sulfur/reduced graphene oxide nanoribbon paper as a free-standing electrode for high performance lithium-sulfur batteries. <i>Chemical Communications</i> , 2016 , 52, 12825-12828	5.8	34
21	Rational design of metal oxide hollow nanostructures decorated carbon nanosheets for superior lithium storage. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 17718-17725	13	27
20	Novel hydrodesulfurization nano-catalysts derived from Co ₃ O ₄ nanocrystals with different shapes. <i>Catalysis Today</i> , 2011 , 175, 509-514	5.3	26
19	Designed synthesis of cobalt nanoparticles embedded carbon nanocages as bifunctional electrocatalysts for oxygen evolution and reduction. <i>Carbon</i> , 2019 , 144, 492-499	10.4	25
18	3D Carbon Frameworks for Ultrafast Charge/Discharge Rate Supercapacitors with High Energy-Power Density. <i>Nano-Micro Letters</i> , 2020 , 13, 8	19.5	25
17	Synthesis of metallic Ni-Co/graphene catalysts with enhanced hydrodesulfurization activity via a low-temperature plasma approach. <i>Catalysis Today</i> , 2015 , 256, 203-208	5.3	20
16	Highly Crystallized CoMoO Hexagonal Nanoplates Interconnected by Coal-Derived Carbon via the Molten-Salt-Assisted Method for Competitive Li-Ion Battery Anodes. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 7006-7013	9.5	17
15	Block copolymer-guided fabrication of shuttle-like polyaniline nanoflowers with radiating whiskers for application in supercapacitors. <i>RSC Advances</i> , 2015 , 5, 1016-1023	3.7	17
14	Tailoring of three-dimensional carbon nanotube architectures by coupling capillarity-induced assembly with multiple CVD growth. <i>Journal of Materials Chemistry</i> , 2011 , 21, 5967		17
13	Nitrogen-rich hierarchical porous carbon nanofibers for selective oxidation of hydrogen sulfide. <i>Fuel Processing Technology</i> , 2019 , 191, 121-128	7.2	12
12	Synthesis of 3D Flower-like Nanocomposites of Nitrogen-Doped Carbon Nanosheets Embedded with Hollow Cobalt(II,III) Oxide Nanospheres for Lithium Storage. <i>ChemElectroChem</i> , 2017 , 4, 102-108	4.3	12
11	Layer-dependent catalysis of MoS ₂ /graphene nanoribbon composites for efficient hydrodesulfurization. <i>Catalysis Science and Technology</i> , 2017 , 7, 693-702	5.5	11
10	A facile soft-template synthesis of nitrogen doped mesoporous carbons for hydrogen sulfide removal. <i>Adsorption</i> , 2016 , 22, 1075-1082	2.6	10

9	Fabrication, magnetic properties and self-assembly of hierarchical crystalline hexapod magnetites. <i>RSC Advances</i> , 2012 , 2, 4329	3.7	9
8	DBD plasma-tuned functionalization of edge-enriched graphene nanoribbons for high performance supercapacitors. <i>Electrochimica Acta</i> , 2020 , 337, 135741	6.7	6
7	Fabrication of Supercapacitors using Carbon Microspheres Synthesized from Resorcinol/Formaldehyde Resin. <i>Energy Technology</i> , 2013 , 1, 332-337	3.5	6
6	Ni@NiN Embedded on Three-Dimensional Carbon Nanosheets for High-Performance Lithium/Sodium-Sulfur Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 48536-48545	9.5	6
5	Balanced kinetics between electrodes by carbon cloth@ZIF-8 for high rate performance zinc-ion hybrid capacitors. <i>Chemical Communications</i> , 2021 , 57, 8778-8781	5.8	5
4	Preparation of nitrogen-doped hollow carbon nanosphere/graphene composite aerogel for efficient removal of quinoline from wastewater. <i>Journal of Hazardous Materials</i> , 2021 , 417, 126160	12.8	3
3	Facile one-step synthesis of highly graphitized hierarchical porous carbon nanosheets with large surface area and high capacity for lithium storage. <i>RSC Advances</i> , 2016 , 6, 51146-51152	3.7	2
2	C@Fe ₃ O ₄ nanoparticles anchored on carbon nanotubes with enhanced reversible lithium storage. <i>CrystEngComm</i> , 2020 , 22, 2429-2433	3.3	1
1	Rational-design heteroatom-doped cathode and ion modulation layer modified Zn anode for ultrafast zinc-ion hybrid capacitors with simultaneous high power and energy densities. <i>Journal of Power Sources</i> , 2022 , 536, 231484	8.9	1