Huang Xiaodan

List of Publications by Year
in descending order

69 papers	5,363 citations	81900 39 h-index	91884 69 g-index
72 all docs	72 docs citations	72 times ranked	8546 citing authors

#	Article	IF	Citations
1	Hierarchical Porous Nitrogenâ€Doped Sprayâ€Dried Graphene for High Performance Capacitive Deionization. Advanced Energy and Sustainability Research, 2022, 3, .	5.8	7
2	Large scale synthesis of self-assembled shuttlecock-shaped silica nanoparticles with minimized drag as advanced catalytic nanomotors. Chemical Engineering Journal, 2021, 417, 127971.	12.7	9
3	Thermal Reductive Perforation of Graphene Cathode for Highâ€Performance Aluminumâ€Ion Batteries. Advanced Functional Materials, 2021, 31, 2010569.	14.9	41
4	Superstructured Macroporous Carbon Rods Composed of Defective Graphitic Nanosheets for Efficient Oxygen Reduction Reaction. Advanced Science, 2021, 8, e2100120.	11.2	31
5	Calcium-Doped Silica Nanoparticles Mixed with Phosphate-Doped Silica Nanoparticles for Rapid and Stable Occlusion of Dentin Tubules. ACS Applied Nano Materials, 2021, 4, 8761-8769.	5.0	4
6	A General Approach to Direct Growth of Oriented Metalâ€“Organic Framework Nanosheets on Reduced Graphene Oxides. Advanced Science, 2020, 7, 1901480.	11.2	25
7	Nitrogen-Doped Mesoporous Carbon Microspheres by Spray Drying-Vapor Deposition for High-Performance Supercapacitor. Frontiers in Chemistry, 2020, 8, 592904.	3.6	6
8	<scp>Nanobiopesticides</scp>: Silica nanoparticles with spiky surfaces enable dual adhesion and enhanced performance. EcoMat, 2020, 2, e12028.	11.9	16
9	Modulating the Void Space of Nitrogenâ€Doped Hollow Mesoporous Carbon Spheres for Lithiumâ€Sulfur Batteries. ChemNanoMat, 2020, 6, 925-929.	2.8	7
10	Engineering mesoporous silica microspheres as hyper-activation supports for continuous enzymatic biodiesel production. Materials Chemistry Frontiers, 2019, 3, 1816-1822.	5.9	6
11	Modulating Ion Diffusivity and Electrode Conductivity of Carbon Nanotube@Mesoporous Carbon Fibers for High Performance Aluminumâ€“Selenium Batteries. Small, 2019, 15, e1904310.	10.0	33
12	Fast Capture of Fluoride by Anion-Exchange Zirconiumâ€“Graphene Hybrid Adsorbent. Langmuir, 2019, 35, 6861-6869.	3.5	24
13	Designed synthesis of organosilica nanoparticles for enzymatic biodiesel production. Materials Chemistry Frontiers, 2018, 2, 1334-1342.	5.9	31
14	A Concentration-Dependent Insulin Immobilization Behavior of Alkyl-Modified Silica Vesicles: The Impact of Alkyl Chain Length. Langmuir, 2018, 34, 5011-5019.	3.5	6
15	RÃ¼cktitelbild: Oxidative Dissolution of Resoles: A Versatile Approach to Intricate Nanostructures (Angew. Chem. 3/2018). Angewandte Chemie, 2018, 130, 862-862.	2.0	0
16	Oxidative Dissolution of Resoles: A Versatile Approach to Intricate Nanostructures. Angewandte Chemie, 2018, 130, 662-666.	2.0	1
17	Hollow Mesoporous Carbon Nanocubes: Rigidâ€Interfaceâ€Induced Outward Contraction of Metalâ€Organic Frameworks. Advanced Functional Materials, 2018, 28, 1705253.	14.9	100
18	Oxidative Dissolution of Resoles: A Versatile Approach to Intricate Nanostructures. Angewandte Chemie - International Edition, 2018, 57, 654-658.	13.8	16

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19	Rechargeable aluminumâ€“selenium batteries with high capacity. Chemical Science, 2018, 9, 5178-5182.	7.4	87
20	Solvothermal-assisted evaporation-induced self-assembly of ordered mesoporous alumina with improved performance. Journal of Colloid and Interface Science, 2018, 529, 432-443.	9.4	10
21	Layered graphene/mesoporous carbon heterostructures with improved mesopore accessibility for high performance capacitive deionization. Journal of Materials Chemistry A, 2018, 6, 14272-14280.	10.3	77
22	Tailored Yolkâ€“Shell Sn@C Nanoboxes for Highâ€Performance Lithium Storage. Advanced Functional Materials, 2017, 27, 1606023.	14.9	173
23	Elaborate control over the morphology and pore structure of porous silicas for VOCs removal with high efficiency and stability. Adsorption, 2017, 23, 37-50.	3.0	9
24	Single-Layered Mesoporous Carbon Sandwiched Graphene Nanosheets for High Performance Ionic Liquid Supercapacitors. Journal of Physical Chemistry C, 2017, 121, 23947-23954.	3.1	12
25	Free-standing monolithic nanoporous graphene foam as a high performance aluminum-ion battery cathode. Journal of Materials Chemistry A, 2017, 5, 19416-19421.	10.3	68
26	Mg(OH)₂â€“MgO@reduced graphene oxide nanocomposites: the roles of composition and nanostructure in arsenite sorption. Journal of Materials Chemistry A, 2017, 5, 24484-24492.	10.3	26
27	Tailoring mesoporous-silica nanoparticles for robust immobilization of lipase and biocatalysis. Nano Research, 2017, 10, 605-617.	10.4	63
28	Rattle-type magnetic mesoporous hollow carbon as a high-performance and reusable adsorbent for water treatment. Chemosphere, 2017, 166, 109-117.	8.2	24
29	Polypyrroleâ€Coated Zinc Ferrite Hollow Spheres with Improved Cycling Stability for Lithiumâ€Ion Batteries. Small, 2016, 12, 3732-3737.	10.0	102
30	In situ StÃ¶ber templating: facile synthesis of hollow mesoporous carbon spheres from silicaâ€“polymer composites for ultra-high level in-cavity adsorption. Journal of Materials Chemistry A, 2016, 4, 9063-9071.	10.3	73
31	Surfactant-Free Assembly of Mesoporous Carbon Hollow Spheres with Large Tunable Pore Sizes. ACS Nano, 2016, 10, 4579-4586.	14.6	374
32	Mesoporous Magnesium Oxide Hollow Spheres as Superior Arsenite Adsorbent: Synthesis and Adsorption Behavior. ACS Applied Materials & Interfaces, 2016, 8, 25306-25312.	8.0	69
33	Kinetically Controlled Assembly of Nitrogenâ€Doped Invaginated Carbon Nanospheres with Tunable Mesopores. Chemistry - A European Journal, 2016, 22, 14962-14967.	3.3	21
34	Encapsulation of selenium sulfide in double-layered hollow carbon spheres as advanced electrode material for lithium storage. Nano Research, 2016, 9, 3725-3734.	10.4	45
35	Coreâ€Cone Structured Monodispersed Mesoporous Silica Nanoparticles with Ultraâ€large Cavity for Protein Delivery. Small, 2015, 11, 5949-5955.	10.0	140
36	Graphene-Co3O4 nanocomposite as electrocatalyst with high performance for oxygen evolution reaction. Scientific Reports, 2015, 5, 7629.	3.3	234

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37	New Insight into Ordered Cage-Type Mesostructures and Their Pore Size Determination by Electron Tomography. Langmuir, 2015, 31, 2545-2553.	3.5	6
38	Porous graphene wrapped CoO nanoparticles for highly efficient oxygen evolution. Journal of Materials Chemistry A, 2015, 3, 5402-5408.	10.3	79
39	Encapsulation of Î±-Fe₂O₃ nanoparticles in graphitic carbon microspheres as high-performance anode materials for lithium-ion batteries. Nanoscale, 2015, 7, 3270-3275.	5.6	82
40	Multi-chambered micro/mesoporous carbon nanocubes as new polysulfides reserviors for lithiumâ€“sulfur batteries with long cycle life. Nano Energy, 2015, 16, 268-280.	16.0	132
41	Synthesis of Magnesium Oxide Hierarchical Microspheres: A Dual-Functional Material for Water Remediation. ACS Applied Materials & Interfaces, 2015, 7, 21278-21286.	8.0	124
42	Batteries: 3D Hyperbranched Hollow Carbon Nanorod Architectures for High-Performance Lithium-Sulfur Batteries (Adv. Energy Mater. 8/2014). Advanced Energy Materials, 2014, 4, n/a-n/a.	19.5	2
43	Selfâ€Assembling Synthesis of Freeâ€standing Nanoporous Grapheneâ€“Transitionâ€Metal Oxide Flexible Electrodes for Highâ€Performance Lithiumâ€Ion Batteries and Supercapacitors. Chemistry - an Asian Journal, 2014, 9, 206-211.	3.3	62
44	3D Hyperbranched Hollow Carbon Nanorod Architectures for Highâ€Performance Lithiumâ€Sulfur Batteries. Advanced Energy Materials, 2014, 4, 1301761.	19.5	154
45	Porous Graphene Nanoarchitectures: An Efficient Catalyst for Low Charge-Overpotential, Long Life, and High Capacity Lithiumâ€“Oxygen Batteries. Nano Letters, 2014, 14, 3145-3152.	9.1	329
46	Hierarchical 3D mesoporous silicon@graphene nanoarchitectures for lithium ion batteries with superior performance. Nano Research, 2014, 7, 85-94.	10.4	163
47	Soft-template synthesis of 3D porous graphene foams with tunable architectures for lithiumâ€“O₂ batteries and oil adsorption applications. Journal of Materials Chemistry A, 2014, 2, 7973-7979.	10.3	108
48	Multi-shelled hollow carbon nanospheres for lithiumâ€“sulfur batteries with superior performances. Journal of Materials Chemistry A, 2014, 2, 16199-16207.	10.3	116
49	An optimized LiNO3/DMSO electrolyte for high-performance rechargeable Liâ€“O2 batteries. RSC Advances, 2014, 4, 11115.	3.6	60
50	An Approach to Prepare Polyethylenimine Functionalized Silica-Based Spheres with Small Size for siRNA Delivery. ACS Applied Materials & Interfaces, 2014, 6, 15626-15631.	8.0	17
51	Hierarchical macroporous/mesoporous NiCo₂O₄nanosheets as cathode catalysts for rechargeable Liâ€“O₂batteries. Journal of Materials Chemistry A, 2014, 2, 12053.	10.3	82
52	Porous poly(vinylidene fluoride-co-hexafluoropropylene) polymer membrane with sandwich-like architecture for highly safe lithium ion batteries. Journal of Membrane Science, 2014, 472, 133-140.	8.2	75
53	Micelle-Template Synthesis of Nitrogen-Doped Mesoporous Graphene as an Efficient Metal-Free Electrocatalyst for Hydrogen Production. Scientific Reports, 2014, 4, 7557.	3.3	93
54	Honeycomb-like porous gel polymer electrolyte membrane for lithium ion batteries with enhanced safety. Scientific Reports, 2014, 4, 6007.	3.3	165

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55	Mesoporous graphene paper immobilised sulfur as a flexible electrode for lithiumâ€“sulfur batteries. Journal of Materials Chemistry A, 2013, 1, 13484.	10.3	103
56	Pore size-optimized periodic mesoporous organosilicas for the enrichment of peptides and polymers. RSC Advances, 2013, 3, 14466.	3.6	23
57	Designed synthesis of LiMn₂O₄microspheres with adjustable hollow structures for lithium-ion battery applications. Journal of Materials Chemistry A, 2013, 1, 837-842.	10.3	56
58	Self-assembly of monodispersed silica nano-spheres with a closed-pore mesostructure. Journal of Materials Chemistry, 2012, 22, 11523.	6.7	18
59	A magnetite nanocrystal/graphene composite as high performance anode for lithium-ion batteries. Journal of Alloys and Compounds, 2012, 514, 76-80.	5.5	59
60	Functional Nanoporous Graphene Foams with Controlled Pore Sizes. Advanced Materials, 2012, 24, 4419-4423.	21.0	350
61	A Facile Oneâ€Step Solvothermal Synthesis of SnO₂/Graphene Nanocomposite and Its Application as an Anode Material for Lithiumâ€Ion Batteries. ChemPhysChem, 2011, 12, 278-281.	2.1	111
62	A graphene modified anode to improve the performance of microbial fuel cells. Journal of Power Sources, 2011, 196, 5402-5407.	7.8	335
63	A voltammetric sensor based on graphene-modified electrode for simultaneous determination of catechol and hydroquinone. Journal of Electroanalytical Chemistry, 2011, 650, 209-213.	3.8	217
64	A silanol protection mechanism: Understanding the decomposition behavior of surfactants in mesostructured solids. Journal of Materials Research, 2011, 26, 804-814.	2.6	11
65	Graphene Nanosheets Modified Glassy Carbon Electrode as a Highly Sensitive and Selective Voltammetric Sensor for Rutin. Electroanalysis, 2010, 22, 2399-2406.	2.9	45
66	A Smart Glycolâ€Directed Nanodevice from Rationally Designed Macroporous Materials. Chemistry - A European Journal, 2010, 16, 822-828.	3.3	38
67	Mo_xW_{1â^’x}O₃Â·0.33H₂O Solid Solutions with Tunable Band Gaps. Journal of Physical Chemistry C, 2010, 114, 20947-20954.	3.1	64
68	Controllable Adsorption of Reduced Graphene Oxide onto Self-Assembled Alkanethiol Monolayers on Gold Electrodes: Tunable Electrode Dimension and Potential Electrochemical Applications. Journal of Physical Chemistry C, 2010, 114, 4389-4393.	3.1	55
69	Macroporous Materials as Novel Catalysts for Efficient and Controllable Proteolysis. Analytical Chemistry, 2009, 81, 5749-5756.	6.5	57