

# Huang Xiaodan

## List of Publications by Year in descending order

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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	Surfactant-Free Assembly of Mesoporous Carbon Hollow Spheres with Large Tunable Pore Sizes. ACS Nano, 2016, 10, 4579-4586.	14.6	374
2	Functional Nanoporous Graphene Foams with Controlled Pore Sizes. Advanced Materials, 2012, 24, 4419-4423.	21.0	350
3	A graphene modified anode to improve the performance of microbial fuel cells. Journal of Power Sources, 2011, 196, 5402-5407.	7.8	335
4	Porous Graphene Nanoarchitectures: An Efficient Catalyst for Low Charge-Overpotential, Long Life, and High Capacity Lithium-Oxygen Batteries. Nano Letters, 2014, 14, 3145-3152.	9.1	329
5	Graphene-Co <sub>3</sub> O <sub>4</sub> nanocomposite as electrocatalyst with high performance for oxygen evolution reaction. Scientific Reports, 2015, 5, 7629.	3.3	234
6	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
7	Tailored Yolk-Shell Sn@C Nanoboxes for High-Performance Lithium Storage. Advanced Functional Materials, 2017, 27, 1606023.	14.9	173
8	Honeycomb-like porous gel polymer electrolyte membrane for lithium ion batteries with enhanced safety. Scientific Reports, 2014, 4, 6007.	3.3	165
9	Hierarchical 3D mesoporous silicon@graphene nanoarchitectures for lithium ion batteries with superior performance. Nano Research, 2014, 7, 85-94.	10.4	163
10	3D Hyperbranched Hollow Carbon Nanorod Architectures for High-Performance Lithium-Sulfur Batteries. Advanced Energy Materials, 2014, 4, 1301761.	19.5	154
11	Core-Cone Structured Monodispersed Mesoporous Silica Nanoparticles with Ultra-Large Cavity for Protein Delivery. Small, 2015, 11, 5949-5955.	10.0	140
12	Multi-chambered micro/mesoporous carbon nanocubes as new polysulfides reservoirs for lithium-sulfur batteries with long cycle life. Nano Energy, 2015, 16, 268-280.	16.0	132
13	Synthesis of Magnesium Oxide Hierarchical Microspheres: A Dual-Functional Material for Water Remediation. ACS Applied Materials & Interfaces, 2015, 7, 21278-21286.	8.0	124
14	Multi-shelled hollow carbon nanospheres for lithium-sulfur batteries with superior performances. Journal of Materials Chemistry A, 2014, 2, 16199-16207.	10.3	116
15	A Facile One-Step Solvothermal Synthesis of SnO <sub>2</sub> /Graphene Nanocomposite and Its Application as an Anode Material for Lithium-Ion Batteries. ChemPhysChem, 2011, 12, 278-281.	2.1	111
16	Soft-template synthesis of 3D porous graphene foams with tunable architectures for lithium-O <sub>2</sub> batteries and oil adsorption applications. Journal of Materials Chemistry A, 2014, 2, 7973-7979.	10.3	108
17	Mesoporous graphene paper immobilised sulfur as a flexible electrode for lithium-sulfur batteries. Journal of Materials Chemistry A, 2013, 1, 13484.	10.3	103
18	Polypyrrole-Coated Zinc Ferrite Hollow Spheres with Improved Cycling Stability for Lithium-Ion Batteries. Small, 2016, 12, 3732-3737.	10.0	102

#	ARTICLE	IF	CITATIONS
19	Hollow Mesoporous Carbon Nanocubes: Rigidâ€‘Interfaceâ€‘Induced Outward Contraction of Metalâ€‘Organic Frameworks. <i>Advanced Functional Materials</i> , 2018, 28, 1705253.	14.9	100
20	Micelle-Template Synthesis of Nitrogen-Doped Mesoporous Graphene as an Efficient Metal-Free Electrocatalyst for Hydrogen Production. <i>Scientific Reports</i> , 2014, 4, 7557.	3.3	93
21	Rechargeable aluminumâ€‘selenium batteries with high capacity. <i>Chemical Science</i> , 2018, 9, 5178-5182.	7.4	87
22	Hierarchical macroporous/mesoporous NiCo <sub>2</sub> O <sub>4</sub> nanosheets as cathode catalysts for rechargeable Liâ€‘O <sub>2</sub> batteries. <i>Journal of Materials Chemistry A</i> , 2014, 2, 12053.	10.3	82
23	Encapsulation of Fe <sub>2</sub> O <sub>3</sub> nanoparticles in graphitic carbon microspheres as high-performance anode materials for lithium-ion batteries. <i>Nanoscale</i> , 2015, 7, 3270-3275.	5.6	82
24	Porous graphene wrapped CoO nanoparticles for highly efficient oxygen evolution. <i>Journal of Materials Chemistry A</i> , 2015, 3, 5402-5408.	10.3	79
25	Layered graphene/mesoporous carbon heterostructures with improved mesopore accessibility for high performance capacitive deionization. <i>Journal of Materials Chemistry A</i> , 2018, 6, 14272-14280.	10.3	77
26	Porous poly(vinylidene fluoride-co-hexafluoropropylene) polymer membrane with sandwich-like architecture for highly safe lithium ion batteries. <i>Journal of Membrane Science</i> , 2014, 472, 133-140.	8.2	75
27	In situ Stober templating: facile synthesis of hollow mesoporous carbon spheres from silicaâ€‘polymer composites for ultra-high level in-cavity adsorption. <i>Journal of Materials Chemistry A</i> , 2016, 4, 9063-9071.	10.3	73
28	Mesoporous Magnesium Oxide Hollow Spheres as Superior Arsenite Adsorbent: Synthesis and Adsorption Behavior. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 25306-25312.	8.0	69
29	Free-standing monolithic nanoporous graphene foam as a high performance aluminum-ion battery cathode. <i>Journal of Materials Chemistry A</i> , 2017, 5, 19416-19421.	10.3	68
30	Mo <sub>1-x</sub> W <sub>1-x</sub> O <sub>3</sub> ·0.33H <sub>2</sub> O Solid Solutions with Tunable Band Gaps. <i>Journal of Physical Chemistry C</i> , 2010, 114, 20947-20954.	3.1	64
31	Tailoring mesoporous-silica nanoparticles for robust immobilization of lipase and biocatalysis. <i>Nano Research</i> , 2017, 10, 605-617.	10.4	63
32	Self-Assembling Synthesis of Free-standing Nanoporous Grapheneâ€‘Transition Metal Oxide Flexible Electrodes for High-performance Lithium-ion Batteries and Supercapacitors. <i>Chemistry - an Asian Journal</i> , 2014, 9, 206-211.	3.3	62
33	An optimized LiNO <sub>3</sub> /DMSO electrolyte for high-performance rechargeable Liâ€‘O <sub>2</sub> batteries. <i>RSC Advances</i> , 2014, 4, 11115.	3.6	60
34	A magnetite nanocrystal/graphene composite as high performance anode for lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2012, 514, 76-80.	5.5	59
35	Macroporous Materials as Novel Catalysts for Efficient and Controllable Proteolysis. <i>Analytical Chemistry</i> , 2009, 81, 5749-5756.	6.5	57
36	Designed synthesis of LiMn <sub>2</sub> O <sub>4</sub> microspheres with adjustable hollow structures for lithium-ion battery applications. <i>Journal of Materials Chemistry A</i> , 2013, 1, 837-842.	10.3	56

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37	Controllable Adsorption of Reduced Graphene Oxide onto Self-Assembled Alkanethiol Monolayers on Gold Electrodes: Tunable Electrode Dimension and Potential Electrochemical Applications. <i>Journal of Physical Chemistry C</i> , 2010, 114, 4389-4393.	3.1	55
38	Graphene Nanosheets Modified Glassy Carbon Electrode as a Highly Sensitive and Selective Voltammetric Sensor for Rutin. <i>Electroanalysis</i> , 2010, 22, 2399-2406.	2.9	45
39	Encapsulation of selenium sulfide in double-layered hollow carbon spheres as advanced electrode material for lithium storage. <i>Nano Research</i> , 2016, 9, 3725-3734.	10.4	45
40	Thermal Reductive Perforation of Graphene Cathode for High-Performance Aluminum-Ion Batteries. <i>Advanced Functional Materials</i> , 2021, 31, 2010569.	14.9	41
41	A Smart Glycol-Directed Nanodevice from Rationally Designed Macroporous Materials. <i>Chemistry - A European Journal</i> , 2010, 16, 822-828.	3.3	38
42	Modulating Ion Diffusivity and Electrode Conductivity of Carbon Nanotube@Mesoporous Carbon Fibers for High Performance Aluminum-Selenium Batteries. <i>Small</i> , 2019, 15, e1904310.	10.0	33
43	Designed synthesis of organosilica nanoparticles for enzymatic biodiesel production. <i>Materials Chemistry Frontiers</i> , 2018, 2, 1334-1342.	5.9	31
44	Superstructured Macroporous Carbon Rods Composed of Defective Graphitic Nanosheets for Efficient Oxygen Reduction Reaction. <i>Advanced Science</i> , 2021, 8, e2100120.	11.2	31
45	Mg(OH) <sub>2</sub> @MgO@reduced graphene oxide nanocomposites: the roles of composition and nanostructure in arsenite sorption. <i>Journal of Materials Chemistry A</i> , 2017, 5, 24484-24492.	10.3	26
46	A General Approach to Direct Growth of Oriented Metal-Organic Framework Nanosheets on Reduced Graphene Oxides. <i>Advanced Science</i> , 2020, 7, 1901480.	11.2	25
47	Rattle-type magnetic mesoporous hollow carbon as a high-performance and reusable adsorbent for water treatment. <i>Chemosphere</i> , 2017, 166, 109-117.	8.2	24
48	Fast Capture of Fluoride by Anion-Exchange Zirconium-Graphene Hybrid Adsorbent. <i>Langmuir</i> , 2019, 35, 6861-6869.	3.5	24
49	Pore size-optimized periodic mesoporous organosilicas for the enrichment of peptides and polymers. <i>RSC Advances</i> , 2013, 3, 14466.	3.6	23
50	Kinetically Controlled Assembly of Nitrogen-Doped Invaginated Carbon Nanospheres with Tunable Mesopores. <i>Chemistry - A European Journal</i> , 2016, 22, 14962-14967.	3.3	21
51	Self-assembly of monodispersed silica nano-spheres with a closed-pore mesostructure. <i>Journal of Materials Chemistry</i> , 2012, 22, 11523.	6.7	18
52	An Approach to Prepare Polyethylenimine Functionalized Silica-Based Spheres with Small Size for siRNA Delivery. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 15626-15631.	8.0	17
53	Oxidative Dissolution of Resoles: A Versatile Approach to Intricate Nanostructures. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 654-658.	13.8	16
54	Nanobiopesticides: Silica nanoparticles with spiky surfaces enable dual adhesion and enhanced performance. <i>EcoMat</i> , 2020, 2, e12028.	11.9	16

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55	Single-Layered Mesoporous Carbon Sandwiched Graphene Nanosheets for High Performance Ionic Liquid Supercapacitors. <i>Journal of Physical Chemistry C</i> , 2017, 121, 23947-23954.	3.1	12
56	A silanol protection mechanism: Understanding the decomposition behavior of surfactants in mesostructured solids. <i>Journal of Materials Research</i> , 2011, 26, 804-814.	2.6	11
57	Solvothermal-assisted evaporation-induced self-assembly of ordered mesoporous alumina with improved performance. <i>Journal of Colloid and Interface Science</i> , 2018, 529, 432-443.	9.4	10
58	Elaborate control over the morphology and pore structure of porous silicas for VOCs removal with high efficiency and stability. <i>Adsorption</i> , 2017, 23, 37-50.	3.0	9
59	Large scale synthesis of self-assembled shuttlecock-shaped silica nanoparticles with minimized drag as advanced catalytic nanomotors. <i>Chemical Engineering Journal</i> , 2021, 417, 127971.	12.7	9
60	Modulating the Void Space of Nitrogen-Doped Hollow Mesoporous Carbon Spheres for Lithium-Sulfur Batteries. <i>ChemNanoMat</i> , 2020, 6, 925-929.	2.8	7
61	Hierarchical Porous Nitrogen-Doped Spray-Dried Graphene for High Performance Capacitive Deionization. <i>Advanced Energy and Sustainability Research</i> , 2022, 3, .	5.8	7
62	New Insight into Ordered Cage-Type Mesostructures and Their Pore Size Determination by Electron Tomography. <i>Langmuir</i> , 2015, 31, 2545-2553.	3.5	6
63	A Concentration-Dependent Insulin Immobilization Behavior of Alkyl-Modified Silica Vesicles: The Impact of Alkyl Chain Length. <i>Langmuir</i> , 2018, 34, 5011-5019.	3.5	6
64	Engineering mesoporous silica microspheres as hyper-activation supports for continuous enzymatic biodiesel production. <i>Materials Chemistry Frontiers</i> , 2019, 3, 1816-1822.	5.9	6
65	Nitrogen-Doped Mesoporous Carbon Microspheres by Spray Drying-Vapor Deposition for High-Performance Supercapacitor. <i>Frontiers in Chemistry</i> , 2020, 8, 592904.	3.6	6
66	Calcium-Doped Silica Nanoparticles Mixed with Phosphate-Doped Silica Nanoparticles for Rapid and Stable Occlusion of Dentin Tubules. <i>ACS Applied Nano Materials</i> , 2021, 4, 8761-8769.	5.0	4
67	Batteries: 3D Hyperbranched Hollow Carbon Nanorod Architectures for High-Performance Lithium-Sulfur Batteries ( <i>Adv. Energy Mater.</i> 8/2014). <i>Advanced Energy Materials</i> , 2014, 4, n/a-n/a.	19.5	2
68	Oxidative Dissolution of Resoles: A Versatile Approach to Intricate Nanostructures. <i>Angewandte Chemie</i> , 2018, 130, 662-666.	2.0	1
69	Titelbild: Oxidative Dissolution of Resoles: A Versatile Approach to Intricate Nanostructures ( <i>Angew. Chem.</i> 3/2018). <i>Angewandte Chemie</i> , 2018, 130, 862-862.	2.0	0