Xin Gu

List of Publications by Year
in descending order

47 papers	3,745 citations	147726 31 h-index	214721 47 g-index
47 all docs	47 docs citations	47 times ranked	5909 citing authors

#	Article	IF	Citations
1	Metalâ€Organic Frameworks Derived Nanotube of Nickelâ€“Cobalt Bimetal Phosphides as Highly Efficient Electrocatalysts for Overall Water Splitting. Advanced Functional Materials, 2017, 27, 1703455.	7.8	597
2	General synthesis of hollow MnO₂, Mn₃O₄and MnO nanospheres as superior anode materials for lithium ion batteries. Journal of Materials Chemistry A, 2014, 2, 17421-17426.	5.2	213
3	Coaxial MnO/N-doped carbon nanorods for advanced lithium-ion battery anodes. Journal of Materials Chemistry A, 2015, 3, 1037-1041.	5.2	192
4	Controlled Growth of Porous Î±â€Fe₂O₃ Branches on Î²â€MnO₂ Nanorods for Excellent Performance in Lithiumâ€Ion Batteries. Advanced Functional Materials, 2013, 23, 4049-4056.	7.8	181
5	High oxygen reduction activity on a metalâ€“organic framework derived carbon combined with high degree of graphitization and pyridinic-N dopants. Journal of Materials Chemistry A, 2017, 5, 789-795.	5.2	171
6	Nickel metalâ€“organic framework implanted on graphene and incubated to be ultrasmall nickel phosphide nanocrystals acts as a highly efficient water splitting electrocatalyst. Journal of Materials Chemistry A, 2018, 6, 1682-1691.	5.2	168
7	Metalâ€“organic frameworks: a promising platform for constructing non-noble electrocatalysts for the oxygen-reduction reaction. Journal of Materials Chemistry A, 2019, 7, 1964-1988.	5.2	165
8	Missing-node directed synthesis of hierarchical pores on a zirconium metalâ€“organic framework with tunable porosity and enhanced surface acidity via a microdroplet flow reaction. Journal of Materials Chemistry A, 2017, 5, 22372-22379.	5.2	159
9	A general approach for MFe 2 O 4 (MÂ=ÂZn, Co, Ni) nanorods and their high performance as anode materials for lithium ion batteries. Journal of Power Sources, 2014, 247, 163-169.	4.0	158
10	In Situ Synthesis Strategy for Hierarchically Porous Ni₂P Polyhedrons from MOFs Templates with Enhanced Electrochemical Properties for Hydrogen Evolution. ACS Applied Materials & Interfaces, 2017, 9, 11642-11650.	4.0	158
11	General Synthesis of MnOx (MnO2, Mn2O3, Mn3O4, MnO) Hierarchical Microspheres as Lithium-ion Battery Anodes. Electrochimica Acta, 2015, 184, 250-256.	2.6	152
12	One-Dimensional CdS/Î±-Fe₂O₃ and CdS/Fe₃O₄ Heterostructures: Epitaxial and Nonepitaxial Growth and Photocatalytic Activity. Journal of Physical Chemistry C, 2009, 113, 14119-14125.	1.5	125
13	Adsorption Site Selective Occupation Strategy within a Metalâ€“Organic Framework for Highly Efficient Sieving Acetylene from Carbon Dioxide. Angewandte Chemie - International Edition, 2021, 60, 4570-4574.	7.2	117
14	Spherical Superstructure of Boron Nitride Nanosheets Derived from Boron-Containing Metalâ€“Organic Frameworks. Journal of the American Chemical Society, 2020, 142, 8755-8762.	6.6	96
15	Bottom-Up Fabrication of Ultrathin 2D Zr Metalâ€“Organic Framework Nanosheets through a Facile Continuous Microdroplet Flow Reaction. Chemistry of Materials, 2018, 30, 3048-3059.	3.2	85
16	Highly dispersed Zn nanoparticles confined in a nanoporous carbon network: promising anode materials for sodium and potassium ion batteries. Journal of Materials Chemistry A, 2018, 6, 17371-17377.	5.2	75
17	Hierarchical coreâ€“shell Î±-Fe2O3@C nanotubes as a high-rate and long-life anode for advanced lithium ion batteries. Journal of Materials Chemistry A, 2014, 2, 3439-3444.	5.2	55
18	Titanosilicate Derived SiO₂/TiO₂@C Nanosheets with Highly Distributed TiO₂ Nanoparticles in SiO₂ Matrix as Robust Lithium Ion Battery Anode. ACS Applied Materials & Interfaces, 2018, 10, 44463-44471.	4.0	50

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19	Superstructure of a Metalâ€“Organic Framework Derived from Microdroplet Flow Reaction: An Intermediate State of Crystallization by Particle Attachment. ACS Nano, 2019, 13, 2901-2912.	7.3	47
20	Graphitic carbon nitride catalyzes selective oxidative dehydrogenation of propane. Applied Catalysis B: Environmental, 2020, 262, 118277.	10.8	47
21	Hierarchical vanadium pentoxide microflowers with excellent long-term cyclability at high rates for lithium ion batteries. Journal of Power Sources, 2014, 272, 991-996.	4.0	46
22	Sustained-Release Method for the Directed Synthesis of ZIF-Derived Ultrafine Co-N-C ORR Catalysts with Embedded Co Quantum Dots. ACS Applied Materials & Interfaces, 2020, 12, 57847-57858.	4.0	46
23	One-step and scalable synthesis of Ni2P nanocrystals encapsulated in N,P-codoped hierarchically porous carbon matrix using a bipyridine and phosphonate linked nickel metalâ€“organic framework as highly efficient electrocatalysts for overall water splitting. Electrochimica Acta, 2019, 297, 755-766.	2.6	44
24	ZIF-Derived Cobalt-Containing N-Doped Carbon-Coated SiO_{<i>x</i>} Nanoparticles for Superior Lithium Storage. ACS Applied Materials & Interfaces, 2020, 12, 7206-7211.	4.0	43
25	Boosting fast and stable potassium storage of iron selenide/carbon nanocomposites by electrolyte salt and solvent chemistry. Journal of Power Sources, 2021, 486, 229373.	4.0	41
26	Paper-Derived Flexible 3D Interconnected Carbon Microfiber Networks with Controllable Pore Sizes for Supercapacitors. ACS Applied Materials & Interfaces, 2018, 10, 37046-37056.	4.0	38
27	Boosting Fast and Stable Alkali Metal Ion Storage by Synergistic Engineering of Oxygen Vacancy and Amorphous Structure. Advanced Functional Materials, 2022, 32, 2106751.	7.8	38
28	Coaxial Manganese Dioxide@N-doped Carbon Nanotubes as Superior Anodes for Lithium Ion Batteries. Electrochimica Acta, 2015, 182, 676-681.	2.6	37
29	Adsorption in Reversed Order of C₂ Hydrocarbons on an Ultramicroporous Fluorinated Metalâ€Organic Framework. Angewandte Chemie - International Edition, 2022, 61, .	7.2	34
30	Continuous synthesis for zirconium metal-organic frameworks with high quality and productivity via microdroplet flow reaction. Chinese Chemical Letters, 2018, 29, 849-853.	4.8	33
31	Adsorption Site Selective Occupation Strategy within a Metalâ€“Organic Framework for Highly Efficient Sieving Acetylene from Carbon Dioxide. Angewandte Chemie, 2021, 133, 4620-4624.	1.6	33
32	SiOx embedded in N-doped carbon nanoslices: A scalable synthesis of high-performance anode material for lithium-ion batteries. Carbon, 2021, 178, 202-210.	5.4	33
33	Ultrafine TiO₂ Nanoparticles Confined in Nâ€Doped Porous Carbon Networks as Anodes of Highâ€Performance Sodiumâ€Ion Batteries. ChemElectroChem, 2017, 4, 1516-1522.	1.7	30
34	Hierarchical tubular structures constructed from rutile TiO2 nanorods with superior sodium storage properties. Electrochimica Acta, 2016, 211, 77-82.	2.6	29
35	A CoSeâ€“C@C coreâ€“shell structure with stable potassium storage performance realized by an effective solid electrolyte interphase layer. Journal of Materials Chemistry A, 2021, 9, 11397-11404.	5.2	28
36	Increasing the CO₂/N₂ Selectivity with a Higher Surface Density of Pyridinic Lewis Basic Sites in Porous Carbon Derived from a Pyridylâ€Ligandâ€Based Metalâ€“Organic Framework. Chemistry - an Asian Journal, 2016, 11, 1913-1920.	1.7	24

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37	Boosting ORR Catalytic Activity by Integrating Pyridineâ€N Dopants, a High Degree of Graphitization, and Hierarchical Pores into a MOFâ€Derived Nâ€Doped Carbon in a Tandem Synthesis. Chemistry - an Asian Journal, 2018, 13, 1318-1326.	1.7	24
38	Stable Lithium Deposition Enabled by an Acid-Treated g-C₃N₄ Interface Layer for a Lithium Metal Anode. ACS Applied Materials & Interfaces, 2020, 12, 11265-11272.	4.0	24
39	Carbonates (bicarbonates)/reduced graphene oxide as anode materials for sodium-ion batteries. Journal of Materials Chemistry A, 2017, 5, 24645-24650.	5.2	21
40	Carbon-coated NiSe nanoparticles anchored on reduced graphene oxide: a high-rate and long-life anode for potassium-ion batteries. Sustainable Energy and Fuels, 2021, 5, 3240-3246.	2.5	16
41	Porous Carbon Polyhedrons with High-Level Nitrogen-Doping for High-Performance Sodium-Ion Battery Anodes. ChemistrySelect, 2016, 1, 6442-6447.	0.7	14
42	Constructing ultrastable electrode/electrolyte interface for rapid potassium ion storage capability via salt chemistry and interfacial engineering. Nano Research, 2022, 15, 2083-2091.	5.8	13
43	Metal-organic Frameworks Derived CoS2-Co/N-doped Porous Carbon with Extremely High Electrocatalytic Stability for the Oxygen Reduction Reaction. International Journal of Electrochemical Science, 2016, 11, 9575-9584.	0.5	11
44	Synthesis of Mesoporous Î³-Al2O3 with Spongy Structure: In-Situ Conversion of Metal-Organic Frameworks and Improved Performance as Catalyst Support in Hydrodesulfurization. Materials, 2018, 11, 1067.	1.3	10
45	Impact of moderative ligand hydrolysis on morphology evolution and the morphology-dependent breathing effect performance of MIL-53(Al). CrystEngComm, 2018, 20, 2102-2111.	1.3	9
46	High CO₂ separation performance on a metalâ€“organic framework composed of nano-cages lined with an ultra-high density of dual-side open metal sites. Materials Advances, 2022, 3, 493-497.	2.6	8
47	Adsorption in Reversed Order of C₂ Hydrocarbons on an Ultramicroporous Fluorinated Metalâ€Organic Framework. Angewandte Chemie, 2022, 134, .	1.6	7