Jia-Nan Zhang

List of Publications by Year
in descending order

78 papers	6,045 citations	76326 40 h-index	69250 77 g-index
79 all docs	79 docs citations	79 times ranked	7040 citing authors

#	Article	IF	Citations
1	A photoaffinity labeling strategy identified EF1A1 as a binding protein of cyclic dinucleotide 2â€²3â€²-cGAMP. Cell Chemical Biology, 2022, 29, 133-144.e20.	5.2	4
2	Regulating electronic structure of <scp>twoâ€dimensional</scp> porous Ni/<scp>Ni₃N</scp> nanosheets architecture by Co atomic incorporation boosts alkaline water splitting. InformaÄ•Ã-MateriÃ¡ly, 2022, 4, .	17.3	63
3	Rational confinement engineering of <scp>MOF</scp>â€derived carbonâ€based electrocatalysts toward <scp>CO₂</scp> reduction and <scp>O₂</scp> reduction reactions. InformaÄ•Ã-MateriÃ¡ly, 2022, 4, .	17.3	58
4	Facile activation of lithium slag for the hydrothermal synthesis of zeolite A with commercial quality and high removal efficiency for the isotope of radioactive ⁹⁰Sr. Inorganic Chemistry Frontiers, 2022, 9, 468-477.	6.0	12
5	Evolution of a solid electrolyte interphase enabled by FeN_X/C catalysts for sodium-ion storage. Energy and Environmental Science, 2022, 15, 771-779.	30.8	34
6	Boronâ€Tethering and Regulative Electronic States Around Iridium Species for Hydrogen Evolution. Advanced Functional Materials, 2022, 32, .	14.9	35
7	Probing the active sites of 2D nanosheets with Fe-N-C carbon shell encapsulated FexC/Fe species for boosting sodium-ion storage performances. Nano Research, 2022, 15, 7154-7162.	10.4	14
8	Concave Ptâ€“Zn Nanocubes with Highâ€Index Faceted Pt Skin as Highly Efficient Oxygen Reduction Catalyst. Advanced Science, 2022, 9, e2200147.	11.2	25
9	Synthesis of Pure Silica Zeolites. Chemical Research in Chinese Universities, 2022, 38, 9-17.	2.6	6
10	Rational design of integrated electrodes for advancing high-rate alkaline electrolytic hydrogen production. Journal of Materials Chemistry A, 2022, 10, 12764-12787.	10.3	10
11	Optimizing Atomically Dispersed Metal Electrocatalysts for Hydrogen Evolution: Chemical Coordination Effect and Electronic Metal Support Interaction. Chemistry - an Asian Journal, 2022, , .	3.3	2
12	Regulating surface Inâ€“O in In@InO core-shell nanoparticles for boosting electrocatalytic CO2 reduction to formate. Chinese Journal of Catalysis, 2022, 43, 1674-1679.	14.0	17
13	Removal of Anionic Dyes from Aqueous Solution with Layered Cationic Aluminum Oxyhydroxide. Chemical Research in Chinese Universities, 2022, 38, 1532-1541.	2.6	1
14	Electron spin modulation engineering in oxygen-involved electrocatalysis. Journal of Physics Condensed Matter, 2022, 34, 364002.	1.8	4
15	Atomic Level Dispersed Metalâ€“Nitrogenâ€“Carbon Catalyst toward Oxygen Reduction Reaction: Synthesis Strategies and Chemical Environmental Regulation. Energy and Environmental Materials, 2021, 4, 5-18.	12.8	55
16	The assembling principle and strategies of high-density atomically dispersed catalysts. Chemical Engineering Journal, 2021, 417, 127917.	12.7	13
17	Defect Engineering on Carbon-Based Catalysts for Electrocatalytic CO2 Reduction. Nano-Micro Letters, 2021, 13, 5.	27.0	118
18	Reducing the dosage of the organic structure-directing agent in the crystallization of pure silica zeolite MFI (silicalite-1) for volatile organic compounds (VOCs) adsorption. Inorganic Chemistry Frontiers, 2021, 8, 3354-3362.	6.0	4

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19	MOF-Derived Materials for Energy Conversion. , 2021, , 165-209.		0
20	Regulating Fe-spin state by atomically dispersed Mn-N in Fe-N-C catalysts with high oxygen reduction activity. Nature Communications, 2021, 12, 1734.	12.8	488
21	Mapping Novel Biomarkers of Liver Injury by Tissue Proteomic Analysis. ACS Omega, 2021, 6, 7127-7138.	3.5	2
22	Inactivating SARS-CoV-2 by electrochemical oxidation. Science Bulletin, 2021, 66, 720-726.	9.0	18
23	Polysulfides shuttling remedies by interface-catalytic effect of Mn3O4-MnPx heterostructure. Energy Storage Materials, 2021, 36, 496-503.	18.0	28
24	A highly durable CoO _x /N-doped graphitized-nano-diamond electrocatalyst for oxygen reduction reaction. Nanotechnology, 2021, 32, 355708.	2.6	5
25	A Solventâ€Polarityâ€Induced Interface Selfâ€Assembly Strategy towards Mesoporous Triazineâ€Based Carbon Materials. Angewandte Chemie - International Edition, 2021, 60, 24299-24305.	13.8	35
26	Boosting Nitrogen Reduction to Ammonia on FeN₄ Sites by Atomic Spin Regulation. Advanced Science, 2021, 8, e2102915.	11.2	64
27	Phosphorus-Driven Electron Delocalization on Edge-Type FeN₄ Active Sites for Oxygen Reduction in Acid Medium. ACS Catalysis, 2021, 11, 12754-12762.	11.2	98
28	Optimizing configuration engineering of edge-hosted Fe-Nx active sites for oxygen reduction reaction. Chem Catalysis, 2021, 1, 1155-1157.	6.1	2
29	Boosting defective carbon by anchoring well-defined atomically dispersed metal-N4 sites for ORR, OER, and Zn-air batteries. Applied Catalysis B: Environmental, 2020, 260, 118198.	20.2	216
30	Molecularly Engineered Strong Metal Oxideâ€“Support Interaction Enables Highly Efficient and Stable CO₂ Electroreduction. ACS Catalysis, 2020, 10, 13227-13235.	11.2	94
31	Atomically dispersed metal active centers as a chemically tunable platform for energy storage devices. Journal of Materials Chemistry A, 2020, 8, 15358-15372.	10.3	16
32	Rapid removal of Sr2+, Cs+ and UO22+ from solution with surfactant and amino acid modified zeolite Y. Microporous and Mesoporous Materials, 2020, 302, 110244.	4.4	14
33	Bifunctional iron-phtalocyanine metalâ€“organic framework catalyst for ORR, OER and rechargeable zincâ€“air battery. Rare Metals, 2020, 39, 815-823.	7.1	94
34	Interface Engineering of Hierarchical Branched Moâ€Doped Ni₃S₂/Ni_xP_y Hollow Heterostructure Nanorods for Efficient Overall Water Splitting. Advanced Energy Materials, 2020, 10, 1903891.	19.5	443
35	Molecular Evidence for Metallic Cobalt Boosting CO₂ Electroreduction on Pyridinic Nitrogen. Angewandte Chemie, 2020, 132, 4944-4949.	2.0	29
36	Molecular Evidence for Metallic Cobalt Boosting CO₂ Electroreduction on Pyridinic Nitrogen. Angewandte Chemie - International Edition, 2020, 59, 4914-4919.	13.8	126

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37	Boron-rich environment boosting ruthenium boride on B, N doped carbon outperforms platinum for hydrogen evolution reaction in a universal pH range. Nano Energy, 2020, 75, 104881.	16.0	71
38	Synergistic effect of mechanical strain and interfacial-chemical interaction for stable 1T-WSe2 by carbon nanotube and cobalt. Applied Surface Science, 2019, 496, 143694.	6.1	13
39	Building a lateral/vertical 1T-2H MoS₂/Au heterostructure for enhanced photoelectrocatalysis and surface enhanced Raman scattering. Journal of Materials Chemistry A, 2019, 7, 19922-19928.	10.3	47
40	Confining Pd Nanoparticles and Atomically Dispersed Pd into Defective MoO₃ Nanosheet for Enhancing Electro- and Photocatalytic Hydrogen Evolution Performances. ACS Applied Materials & Interfaces, 2019, 11, 27798-27804.	8.0	47
41	Interfacial engineering of Ag nanodots/MoSe2 nanoflakes/Cu(OH)2 hybrid-electrode for lithium-ion battery. Journal of Colloid and Interface Science, 2019, 557, 635-643.	9.4	12
42	N,P-coordinated fullerene-like carbon nanostructures with dual active centers toward highly-efficient multi-functional electrocatalysis for CO₂RR, ORR and Zn-air battery. Journal of Materials Chemistry A, 2019, 7, 15271-15277.	10.3	99
43	Carbon nanotube-induced phase and stability engineering: a strained cobalt-doped WSe₂/MWNT heterostructure for enhanced hydrogen evolution reaction. Journal of Materials Chemistry A, 2018, 6, 4793-4800.	10.3	56
44	Defective N/Sâ€Codoped 3D Cheeseâ€Like Porous Carbon Nanomaterial toward Efficient Oxygen Reduction and Znâ€“Air Batteries. Small, 2018, 14, e1800563.	10.0	140
45	1D Cu(OH)2 nanorod/2D SnO2 nanosheets core/shell structured array: Covering with graphene layer leads to excellent performances on lithium-ion battery. Applied Surface Science, 2018, 440, 91-98.	6.1	16
46	Carbon Nanosheets Containing Discrete Co-N_x-B_y-C Active Sites for Efficient Oxygen Electrocatalysis and Rechargeable Znâ€“Air Batteries. ACS Nano, 2018, 12, 1894-1901.	14.6	419
47	CoS₂ nanodots trapped within graphitic structured N-doped carbon spheres with efficient performances for lithium storage. Journal of Materials Chemistry A, 2018, 6, 7148-7154.	10.3	82
48	Layerâ€byâ€Layer Approach to Superhydrophobic Zeolite Antireflective Coatings. Chinese Journal of Chemistry, 2018, 36, 51-54.	4.9	7
49	Sulfuration of an Feâ€“Nâ€“C Catalyst Containing Fe_xC/Fe Species to Enhance the Catalysis of Oxygen Reduction in Acidic Media and for Use in Flexible Znâ€“Air Batteries. Advanced Materials, 2018, 30, e1804504.	21.0	269
50	Co₂Pâ€“CoN Double Active Centers Confined in Nâ€Doped Carbon Nanotube: Heterostructural Engineering for Trifunctional Catalysis toward HER, ORR, OER, and Znâ€“Air Batteries Driven Water Splitting. Advanced Functional Materials, 2018, 28, 1805641.	14.9	443
51	Rational inert-basal-plane activating design of ultrathin 1Tâ€² phase MoS₂ with a MoO₃ heterostructure for enhancing hydrogen evolution performances. Nanoscale, 2018, 10, 16531-16538.	5.6	75
52	Recent Progress on Two-Dimensional Nanoflake Ensembles for Energy Storage Applications. Nano-Micro Letters, 2018, 10, 66.	27.0	71
53	2D MOF Nanoflake-Assembled Spherical Microstructures for Enhanced Supercapacitor and Electrocatalysis Performances. Nano-Micro Letters, 2017, 9, 43.	27.0	234
54	Atomic-scaled cobalt encapsulated in P,N-doped carbon sheaths over carbon nanotubes for enhanced oxygen reduction electrocatalysis under acidic and alkaline media. Chemical Communications, 2017, 53, 9862-9865.	4.1	87

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55	Cobalt-Carbon Core-Shell Nanoparticles Aligned on Wrinkle of N-Doped Carbon Nanosheets with Pt-Like Activity for Oxygen Reduction. Small, 2016, 12, 2839-2845.	10.0	83
56	2D Thin Nanoflakes Assembled on Mesoporous Carbon Nanorods for Enhancing Electrocatalysis and for Improving Asymmetric Supercapacitors. Advanced Functional Materials, 2016, 26, 7766-7774.	14.9	75
57	Hierarchical Nanohybrids: 2D Thin Nanoflakes Assembled on Mesoporous Carbon Nanorods for Enhancing Electrocatalysis and for Improving Asymmetric Supercapacitors (Adv. Funct. Mater.) Tj ETQq1 1 0.784314 rgBT /Overlock 10	14.9	3
58	Dual tuning of 1 D heteroatoms doped porous carbon nanoarchitectures for supercapacitors: the role of balanced P/N doping and core@shell nano-networks. RSC Advances, 2016, 6, 9180-9185.	3.6	9
59	Fabrication of Twoâ€Dimensional Lateral Heterostructures of WS₂/WO₃â‹…H₂O Through Selective Oxidation of Monolayer WS₂. Angewandte Chemie - International Edition, 2015, 54, 15226-15230.	13.8	109
60	Facile fabrication of N-doped hierarchical porous carbon@CNT coaxial nanocables with high performance for energy storage and conversion. RSC Advances, 2015, 5, 96580-96586.	3.6	18
61	Removal of Rhodamine B, a Cationic Dye From Aqueous Solution Using Poly(cyclotriphosphazene-co-4,4â€²-sulfonyldiphenol) Nanotubes. Journal of Macromolecular Science - Pure and Applied Chemistry, 2015, 52, 105-113.	2.2	33
62	Au nanoparticle decorated N-containing polymer spheres: additive-free synthesis and remarkable catalytic behavior for reduction of 4-nitrophenol. Journal of Materials Science, 2015, 50, 1323-1332.	3.7	32
63	A dual templating route to three-dimensionally ordered mesoporous carbon nanonetworks: tuning the mesopore type for electrochemical performance optimization. Journal of Materials Chemistry A, 2015, 3, 18867-18873.	10.3	31
64	NiCo-embedded in hierarchically structured N-doped carbon nanoplates for the efficient electrochemical determination of ascorbic acid, dopamine, and uric acid. RSC Advances, 2015, 5, 65532-65539.	3.6	21
65	Beyond Yolkâ€“Shell Nanoparticles: Fe₃O₄@Fe₃C Core@Shell Nanoparticles as Yolks and Carbon Nanospindles as Shells for Efficient Lithium Ion Storage. ACS Nano, 2015, 9, 3369-3376.	14.6	207
66	Adsorption of methylene blue onto poly(cyclotriphosphazene-co-4,4â€²-sulfonyldiphenol) nanotubes: Kinetics, isotherm and thermodynamics analysis. Journal of Hazardous Materials, 2014, 273, 263-271.	12.4	148
67	N-doped carbon spheres with hierarchical micropore-nanosheet networks for high performance supercapacitors. Chemical Communications, 2014, 50, 12091-12094.	4.1	90
68	Facilely constructing 3D porous NiCo₂S₄nanonetworks for high-performance supercapacitors. New Journal of Chemistry, 2014, 38, 4045.	2.8	140
69	Effects of various factors on the modification of carbon nanotubes with polyvinyl alcohol in supercritical CO2 and their application in electrospun fibers. Chemical Research in Chinese Universities, 2014, 30, 690-697.	2.6	5
70	Facile synthesis of Au nanoparticles supported on polyphosphazene functionalized carbon nanotubes for catalytic reduction of 4-nitrophenol. Journal of Materials Science, 2014, 49, 5056-5065.	3.7	85
71	Pine needle-like nanocomposite: Supercritical CO2 assisted polythiophene synthesis on carbon nanotubes. Chemical Research in Chinese Universities, 2014, 30, 521-526.	2.6	1
72	Nitrogen-Doped Hierarchical Porous Carbon Nanowhisker Ensembles on Carbon Nanofiber for High-Performance Supercapacitors. ACS Sustainable Chemistry and Engineering, 2014, 2, 1525-1533.	6.7	99

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73	One-Step Carbonization Synthesis of Hollow Carbon Nanococoons with Multimodal Pores and Their Enhanced Electrochemical Performance for Supercapacitors. ACS Applied Materials & Interfaces, 2014, 6, 2192-2198.	8.0	57
74	Fabrication of PVA/graphene oxide/TiO2 composite nanofibers through electrospinning and interface solâ€“gel reaction: Effect of graphene oxide on PVA nanofibers and growth of TiO2. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2014, 457, 318-325.	4.7	55
75	Facile Fabrication of Pt Nanoparticles on 1-Pyrenamine Functionalized Graphene Nanosheets for Methanol Electrooxidation. ACS Sustainable Chemistry and Engineering, 2013, 1, 527-533.	6.7	32
76	Highâ€Efficiency Encapsulation of Pt Nanoparticles into the Channel of Carbon Nanotubes as an Enhanced Electrocatalyst for Methanol Oxidation. Chemistry - A European Journal, 2013, 19, 16087-16092.	3.3	45
77	Preparation of Graphene Oxide/Polyaniline Nanocomposite with Assistance of Supercritical Carbon Dioxide for Supercapacitor Electrodes. Industrial & Engineering Chemistry Research, 2012, 51, 14390-14398.	3.7	133
78	A Solvent Polarity Induced Interface Selfâ€assembly Strategy towards Mesoporous Triazineâ€based Carbon Materials. Angewandte Chemie, 0, , .	2.0	2