

Zhiwei Fang

List of Publications by Year in descending order

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48
papers

6,992
citations

101496

36
h-index

223716

46
g-index

50
all docs

50
docs citations

50
times ranked

8463
citing authors

#	ARTICLE	IF	CITATIONS
1	Metallic Co ₄ N Porous Nanowire Arrays Activated by Surface Oxidation as Electrocatalysts for the Oxygen Evolution Reaction. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 14710-14714.	7.2	684
2	Hydrogels and Hydrogel-Derived Materials for Energy and Water Sustainability. <i>Chemical Reviews</i> , 2020, 120, 7642-7707.	23.0	646
3	A Wearable Transient Pressure Sensor Made with MXene Nanosheets for Sensitive Broad-Range Human-Machine Interfacing. <i>Nano Letters</i> , 2019, 19, 1143-1150.	4.5	538
4	Dual Tuning of Ni-Co-A (A = P, Se, O) Nanosheets by Anion Substitution and Holey Engineering for Efficient Hydrogen Evolution. <i>Journal of the American Chemical Society</i> , 2018, 140, 5241-5247.	6.6	461
5	Understanding the inter-site distance effect in single-atom catalysts for oxygen electroreduction. <i>Nature Catalysis</i> , 2021, 4, 615-622.	16.1	336
6	Structural Engineering of 2D Nanomaterials for Energy Storage and Catalysis. <i>Advanced Materials</i> , 2018, 30, e1706347.	11.1	297
7	Holey 2D Nanomaterials for Electrochemical Energy Storage. <i>Advanced Energy Materials</i> , 2018, 8, 1702179.	10.2	293
8	Metallic Transition Metal Selenide Holey Nanosheets for Efficient Oxygen Evolution Electrocatalysis. <i>ACS Nano</i> , 2017, 11, 9550-9557.	7.3	273
9	Selective electrocatalytic synthesis of urea with nitrate and carbon dioxide. <i>Nature Sustainability</i> , 2021, 4, 868-876.	11.5	264
10	Cobalt nitrides as a class of metallic electrocatalysts for the oxygen evolution reaction. <i>Inorganic Chemistry Frontiers</i> , 2016, 3, 236-242.	3.0	243
11	A single-site iron catalyst with preoccupied active centers that achieves selective ammonia electrosynthesis from nitrate. <i>Energy and Environmental Science</i> , 2021, 14, 3522-3531.	15.6	243
12	High-performance room-temperature sodium-sulfur battery enabled by electrocatalytic sodium polysulfides full conversion. <i>Energy and Environmental Science</i> , 2020, 13, 562-570.	15.6	163
13	Two-Dimensional Holey Co ₃ O ₄ Nanosheets for High-Rate Alkali-Ion Batteries: From Rational Synthesis to in Situ Probing. <i>Nano Letters</i> , 2017, 17, 3907-3913.	4.5	158
14	Rational Design of Rhodium-Iridium Alloy Nanoparticles as Highly Active Catalysts for Acidic Oxygen Evolution. <i>ACS Nano</i> , 2019, 13, 13225-13234.	7.3	151
15	Rayleigh-Instability-Induced Bismuth Nanorod@Nitrogen-Doped Carbon Nanotubes as A Long Cycling and High Rate Anode for Sodium-Ion Batteries. <i>Nano Letters</i> , 2019, 19, 1998-2004.	4.5	142
16	Local Built-in Electric Field Enabled in Carbon-Doped Co ₃ O ₄ Nanocrystals for Superior Lithium-Ion Storage. <i>Advanced Functional Materials</i> , 2018, 28, 1705951.	7.8	128
17	Double-Network Nanostructured Hydrogel-Derived Ultrafine Sn-Fe Alloy in Three-Dimensional Carbon Framework for Enhanced Lithium Storage. <i>Nano Letters</i> , 2018, 18, 3193-3198.	4.5	113
18	Effective Interlayer Engineering of Two-Dimensional VOPO ₄ Nanosheets via Controlled Organic Intercalation for Improving Alkali Ion Storage. <i>Nano Letters</i> , 2017, 17, 6273-6279.	4.5	102

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19	A Surface-Strained and Geometry-Tailored Nanoreactor that Promotes Ammonia Electrosynthesis. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 22610-22616.	7.2	100
20	Probing Enhanced Site Activity of Co-Fe Bimetallic Subnanoclusters Derived from Dual Cross-Linked Hydrogels for Oxygen Electrocatalysis. <i>ACS Energy Letters</i> , 2019, 4, 1793-1802.	8.8	99
21	Gel-Derived Amorphous Bismuth-Nickel Alloy Promotes Electrocatalytic Nitrogen Fixation via Optimizing Nitrogen Adsorption and Activation. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 4275-4281.	7.2	90
22	Porous Two-dimensional Iron-Cyano Nanosheets for High-rate Electrochemical Nitrate Reduction. <i>ACS Nano</i> , 2022, 16, 1072-1081.	7.3	89
23	Supramolecular confinement of single Cu atoms in hydrogel frameworks for oxygen reduction electrocatalysis with high atom utilization. <i>Materials Today</i> , 2020, 35, 78-86.	8.3	88
24	Boosting Electrocatalytic Ammonia Production through Mimicking "Back-Donation". <i>CheM</i> , 2020, 6, 2690-2702.	5.8	88
25	Gel Electrocatalysts: An Emerging Material Platform for Electrochemical Energy Conversion. <i>Advanced Materials</i> , 2020, 32, e2003191.	11.1	78
26	Hierarchical nanoarchitected hybrid electrodes based on ultrathin MoSe ₂ nanosheets on 3D ordered macroporous carbon frameworks for high-performance sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2020, 8, 2843-2850.	5.2	69
27	Understanding Thickness-Dependent Transport Kinetics in Nanosheet-Based Battery Electrodes. <i>Chemistry of Materials</i> , 2020, 32, 1684-1692.	3.2	68
28	Inorganic Gel-Derived Metallic Frameworks Enabling High-Performance Silicon Anodes. <i>Nano Letters</i> , 2019, 19, 6292-6298.	4.5	63
29	Defect engineering of metal-oxide interface for proximity of photooxidation and photoreduction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 10232-10237.	3.3	63
30	Two-Dimensional Holey Nanoarchitectures Created by Confined Self-Assembly of Nanoparticles via Block Copolymers: From Synthesis to Energy Storage Property. <i>ACS Nano</i> , 2018, 12, 820-828.	7.3	62
31	Emerging Electrochemical Techniques for Probing Site Behavior in Single-Atom Electrocatalysts. <i>Accounts of Chemical Research</i> , 2022, 55, 759-769.	7.6	58
32	Inorganic Cyanogels and Their Derivatives for Electrochemical Energy Storage and Conversion. , 2019, 1, 158-170.		57
33	Significantly Improving Lithium-Ion Transport via Conjugated Anion Intercalation in Inorganic Layered Hosts. <i>ACS Nano</i> , 2018, 12, 8670-8677.	7.3	54
34	Heterogeneous Molten Salt Design Strategy toward Coupling Cobalt-Cobalt Oxide and Carbon for Efficient Energy Conversion and Storage. <i>Advanced Energy Materials</i> , 2018, 8, 1800762.	10.2	51
35	Revealing the Critical Factor in Metal Sulfide Anode Performance in Sodium-Ion Batteries: An Investigation of Polysulfide Shuttling Issues. <i>Small Methods</i> , 2020, 4, 1900673.	4.6	47
36	A mini review on two-dimensional nanomaterial assembly. <i>Nano Research</i> , 2020, 13, 1179-1190.	5.8	36

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37	General Synthetic Strategy for Pomegranate-like Transition-Metal Phosphides@N-Doped Carbon Nanostructures with High Lithium Storage Capacity. , 2019, 1, 265-271.		35
38	Hybrid Organicâ€“Inorganic Gel Electrocatalyst for Stable Acidic Water Oxidation. ACS Nano, 2019, 13, 14368-14376.	7.3	34
39	Multifunctional hydrogels for sustainable energy and environment. Polymer International, 2021, 70, 1425-1432.	1.6	33
40	General Facet-Controlled Synthesis of Single-Crystalline {010}-Oriented LIMPO ₄ (M = Mn, Tj ETQq0 0,0 rgBT /Overlock 10	3.2	30
41	Mo ₂ C@3D ultrathin macroporous carbon realizing efficient and stable nitrogen fixation. Science China Chemistry, 2020, 63, 1570-1577.	4.2	27
42	Chemically Binding Scaffolded Anodes with 3D Graphene Architectures Realizing Fast and Stable Lithium Storage. Research, 2019, 2019, 8393085.	2.8	26
43	A Surfaceâ€“Strained and Geometryâ€“Tailored Nanoreactor that Promotes Ammonia Electrosynthesis. Angewandte Chemie, 2020, 132, 22799-22805.	1.6	23
44	Ammonia electrosynthesis on single-atom catalysts: Mechanistic understanding and recent progress. Chemical Physics Reviews, 2021, 2, .	2.6	17
45	Single atom catalyst towards ammonia synthesis at mild conditions. Science China Chemistry, 2018, 61, 1045-1046.	4.2	10
46	Gelâ€“Derived Amorphous Bismuthâ€“Nickel Alloy Promotes Electrocatalytic Nitrogen Fixation via Optimizing Nitrogen Adsorption and Activation. Angewandte Chemie, 2021, 133, 4321-4327.	1.6	10
47	General Synthesis of Large Inorganic Nanosheets via 2D Confined Assembly of Nanoparticles. ACS Central Science, 2022, 8, 627-635.	5.3	7
48	RÃ¼cktitelbild: A Surfaceâ€“Strained and Geometryâ€“Tailored Nanoreactor that Promotes Ammonia Electrosynthesis (Angew. Chem. 50/2020). Angewandte Chemie, 2020, 132, 22992-22992.	1.6	0