

Zhiwei Fang

List of Publications by Year in descending order

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Version: 2024-02-01

48
papers

6,992
citations

101384

36
h-index

223531

46
g-index

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all docs

50
docs citations

50
times ranked

8463
citing authors

#	ARTICLE	IF	CITATIONS
1	Emerging Electrochemical Techniques for Probing Site Behavior in Single-Atom Electrocatalysts. <i>Accounts of Chemical Research</i> , 2022, 55, 759-769.	7.6	58
2	Porous Two-dimensional Iron-Cyano Nanosheets for High-rate Electrochemical Nitrate Reduction. <i>ACS Nano</i> , 2022, 16, 1072-1081.	7.3	89
3	General Synthesis of Large Inorganic Nanosheets via 2D Confined Assembly of Nanoparticles. <i>ACS Central Science</i> , 2022, 8, 627-635.	5.3	7
4	Gelâ€Derived Amorphous Bismuthâ€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
5	Gelâ€Derived Amorphous Bismuthâ€Nickel Alloy Promotes Electrocatalytic Nitrogen Fixation via Optimizing Nitrogen Adsorption and Activation. <i>Angewandte Chemie</i> , 2021, 133, 4321-4327.	1.6	10
6	Multifunctional hydrogels for sustainable energy and environment. <i>Polymer International</i> , 2021, 70, 1425-1432.	1.6	33
7	Understanding the inter-site distance effect in single-atom catalysts for oxygen electroreduction. <i>Nature Catalysis</i> , 2021, 4, 615-622.	16.1	336
8	Selective electrocatalytic synthesis of urea with nitrate and carbon dioxide. <i>Nature Sustainability</i> , 2021, 4, 868-876.	11.5	264
9	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
10	Ammonia electrosynthesis on single-atom catalysts: Mechanistic understanding and recent progress. <i>Chemical Physics Reviews</i> , 2021, 2, .	2.6	17
11	Revealing the Critical Factor in Metal Sulfide Anode Performance in Sodiumâ€Ion Batteries: An Investigation of Polysulfide Shuttling Issues. <i>Small Methods</i> , 2020, 4, 1900673.	4.6	47
12	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
13	High-performance room-temperature sodiumâ€sulfur battery enabled by electrocatalytic sodium polysulfides full conversion. <i>Energy and Environmental Science</i> , 2020, 13, 562-570.	15.6	163
14	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
15	A mini review on two-dimensional nanomaterial assembly. <i>Nano Research</i> , 2020, 13, 1179-1190.	5.8	36
16	A Surfaceâ€Strained and Geometryâ€Tailored Nanoreactor that Promotes Ammonia Electrosynthesis. <i>Angewandte Chemie</i> , 2020, 132, 22799-22805.	1.6	23
17	RÅ¼cktitelbild: A Surfaceâ€Strained and Geometryâ€Tailored Nanoreactor that Promotes Ammonia Electrosynthesis (<i>Angew. Chem.</i> 50/2020). <i>Angewandte Chemie</i> , 2020, 132, 22992-22992.	1.6	0
18	Boosting Electrocatalytic Ammonia Production through Mimicking â€œ Back-Donationâ€. <i>Chem</i> , 2020, 6, 2690-2702.	5.8	88

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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	Gel Electrocatalysts: An Emerging Material Platform for Electrochemical Energy Conversion. <i>Advanced Materials</i> , 2020, 32, e2003191.	11.1	78
21	Hydrogels and Hydrogel-Derived Materials for Energy and Water Sustainability. <i>Chemical Reviews</i> , 2020, 120, 7642-7707.	23.0	646
22	Understanding Thickness-Dependent Transport Kinetics in Nanosheet-Based Battery Electrodes. <i>Chemistry of Materials</i> , 2020, 32, 1684-1692.	3.2	68
23	Mo ₂ C@3D ultrathin macroporous carbon realizing efficient and stable nitrogen fixation. <i>Science China Chemistry</i> , 2020, 63, 1570-1577.	4.2	27
24	Inorganic Gel-Derived Metallic Frameworks Enabling High-Performance Silicon Anodes. <i>Nano Letters</i> , 2019, 19, 6292-6298.	4.5	63
25	General Synthetic Strategy for Pomegranate-like Transition-Metal Phosphides@N-Doped Carbon Nanostructures with High Lithium Storage Capacity. , 2019, 1, 265-271.		35
26	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
27	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
28	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
29	Inorganic Cyanogels and Their Derivatives for Electrochemical Energy Storage and Conversion. , 2019, 1, 158-170.		57
30	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
31	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
32	Hybrid Organic-Inorganic Gel Electrocatalyst for Stable Acidic Water Oxidation. <i>ACS Nano</i> , 2019, 13, 14368-14376.	7.3	34
33	Chemically Binding Scaffolded Anodes with 3D Graphene Architectures Realizing Fast and Stable Lithium Storage. <i>Research</i> , 2019, 2019, 8393085.	2.8	26
34	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
35	Structural Engineering of 2D Nanomaterials for Energy Storage and Catalysis. <i>Advanced Materials</i> , 2018, 30, e1706347.	11.1	297
36	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

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37	Dual Tuning of Ni ²⁺ /Co ²⁺ 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
38	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
39	Holey 2D Nanomaterials for Electrochemical Energy Storage. <i>Advanced Energy Materials</i> , 2018, 8, 1702179.	10.2	293
40	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
41	Significantly Improving Lithium-Ion Transport via Conjugated Anion Intercalation in Inorganic Layered Hosts. <i>ACS Nano</i> , 2018, 12, 8670-8677.	7.3	54
42	Single atom catalyst towards ammonia synthesis at mild conditions. <i>Science China Chemistry</i> , 2018, 61, 1045-1046.	4.2	10
43	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
44	Metallic Transition Metal Selenide Holey Nanosheets for Efficient Oxygen Evolution Electrocatalysis. <i>ACS Nano</i> , 2017, 11, 9550-9557.	7.3	273
45	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
46	General Facet-Controlled Synthesis of Single-Crystalline {010}-Oriented LiMPO ₄ (M = Mn, Tj ETQq0 0,0 rgBT /Overlock 10	3.2	30
47	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
48	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