Maoyu Wang

List of Publications by Year
in descending order

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59	9,889	76326	138484
papers	citations	40 h-index	58 g-index

59	59	59	8879
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Revealing the Fast and Durable Na⁺ Insertion Reactions in a Layered Na₃Fe₃(PO₄)₄ Anode for Aqueous Na-Ion Batteries. ACS Materials Au, 2022, 2, 63-71.	6.0	7
2	Atomically dispersed single Ni site catalysts for high-efficiency CO₂ electroreduction at industrial-level current densities. Energy and Environmental Science, 2022, 15, 2108-2119.	30.8	99
3	Surface oxygenation induced strong interaction between Pd catalyst and functional support for zincâ€“air batteries. Energy and Environmental Science, 2022, 15, 1573-1584.	30.8	49
4	Controlled Synthesis of Perforated Oxide Nanosheets with High Density Nanopores Showing Superior Water Purification Performance. ACS Applied Materials & Interfaces, 2022, 14, 18513-18524.	8.0	7
5	Atomically Dispersed Dualâ€Metal Site Catalysts for Enhanced CO₂ Reduction: Mechanistic Insight into Active Site Structures. Angewandte Chemie - International Edition, 2022, 61, .	13.8	83
6	Atomically Dispersed Dualâ€Metal Site Catalysts for Enhanced CO₂ Reduction: Mechanistic Insight into Active Site Structures. Angewandte Chemie, 2022, 134, .	2.0	6
7	Atomically dispersed iron sites with a nitrogenâ€“carbon coating as highly active and durable oxygen reduction catalysts for fuel cells. Nature Energy, 2022, 7, 652-663.	39.5	258
8	Partialâ€Singleâ€Atom, Partialâ€Nanoparticle Composites Enhance Water Dissociation for Hydrogen Evolution. Advanced Science, 2021, 8, 2001881.	11.2	85
9	Porous FeCo Glassy Alloy as Bifunctional Support for Highâ€Performance Znâ€Air Battery. Advanced Energy Materials, 2021, 11, 2002204.	19.5	55
10	Ultrahigh Oxygen Evolution Reaction Activity Achieved Using Ir Single Atoms on Amorphous CoO_x Nanosheets. ACS Catalysis, 2021, 11, 123-130.	11.2	138
11	Promoting Atomically Dispersed MnN₄ Sites via Sulfur Doping for Oxygen Reduction: Unveiling Intrinsic Activity and Degradation in Fuel Cells. ACS Nano, 2021, 15, 6886-6899.	14.6	119
12	Bioinspired Activation of<scp>N₂</scp>on Asymmetrical Coordinated Fe Grafted<scp>1T MoS₂</scp>at Room Temperature^{â€}. Chinese Journal of Chemistry, 2021, 39, 1898-1904.	4.9	7
13	Iron-Imprinted Single-Atomic Site Catalyst-Based Nanoprobe for Detection of Hydrogen Peroxide in Living Cells. Nano-Micro Letters, 2021, 13, 146.	27.0	30
14	Single Iridium Atom Doped Ni₂P Catalyst for Optimal Oxygen Evolution. Journal of the American Chemical Society, 2021, 143, 13605-13615.	13.7	162
15	Binary Atomically Dispersed Metalâ€Site Catalysts with Coreâ”Shell Nanostructures for O₂ and CO₂ Reduction Reactions. Small Science, 2021, 1, 2100046.	9.9	29
16	Pitfalls in X-ray absorption spectroscopy analysis and interpretation: A practical guide for general users. Current Opinion in Electrochemistry, 2021, 30, 100803.	4.8	34
17	Doping-modulated strain control of bifunctional electrocatalysis for rechargeable zincâ€“air batteries. Energy and Environmental Science, 2021, 14, 5035-5043.	30.8	39
18	Interfacial processes in electrochemical energy systems. Chemical Communications, 2021, 57, 10453-10468.	4.1	28

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19	Stable, high-performance, dendrite-free, seawater-based aqueous batteries. Nature Communications, 2021, 12, 237.	12.8	174
20	The Restructuring-Induced CoO_x Catalyst for Electrochemical Water Splitting. Jacs Au, 2021, 1, 2216-2223.	7.9	32
21	Improving Pdâ€“Nâ€“C fuel cell electrocatalysts through fluorination-driven rearrangements of local coordination environment. Nature Energy, 2021, 6, 1144-1153.	39.5	108
22	Lattice siteâ€“dependent metal leaching in perovskites toward a honeycomb-like water oxidation catalyst. Science Advances, 2021, 7, eabk1788.	10.3	41
23	Stabilizing atomic Pt with trapped interstitial F in alloyed PtCo nanosheets for high-performance zinc-air batteries. Energy and Environmental Science, 2020, 13, 884-895.	30.8	99
24	Tailoring magnetic order via atomically stacking 3d/5d electrons to achieve high-performance spintronic devices. Applied Physics Reviews, 2020, 7, .	11.3	18
25	Single Cobalt Sites Dispersed in Hierarchically Porous Nanofiber Networks for Durable and Highâ€Power PGMâ€Free Cathodes in Fuel Cells. Advanced Materials, 2020, 32, e2003577.	21.0	262
26	Molecular engineering of dispersed nickel phthalocyanines on carbon nanotubes for selective CO2 reduction. Nature Energy, 2020, 5, 684-692.	39.5	365
27	Boosting alkaline hydrogen evolution: the dominating role of interior modification in surface electrocatalysis. Energy and Environmental Science, 2020, 13, 3110-3118.	30.8	87
28	Single-Iron Site Catalysts with Self-Assembled Dual-size Architecture and Hierarchical Porosity for Proton-Exchange Membrane Fuel Cells. Applied Catalysis B: Environmental, 2020, 279, 119400.	20.2	94
29	Chemical Vapor Deposition for Atomically Dispersed and Nitrogen Coordinated Single Metal Site Catalysts. Angewandte Chemie, 2020, 132, 21882-21889.	2.0	10
30	Chemical Vapor Deposition for Atomically Dispersed and Nitrogen Coordinated Single Metal Site Catalysts. Angewandte Chemie - International Edition, 2020, 59, 21698-21705.	13.8	128
31	Ultrahigh-Loading of Ir Single Atoms on NiO Matrix to Dramatically Enhance Oxygen Evolution Reaction. Journal of the American Chemical Society, 2020, 142, 7425-7433.	13.7	430
32	Metal Organic Framework Derivative Improving Lithium Metal Anode Cycling. Advanced Functional Materials, 2020, 30, 1907579.	14.9	49
33	Oxygen Reduction Electrocatalysis on Ordered Intermetallic Pdâ€“Bi Electrodes Is Enhanced by a Low Coverage of Spectator Species. Journal of Physical Chemistry C, 2020, 124, 5220-5224.	3.1	25
34	Atomically Dispersed Single Ni Site Catalysts for Nitrogen Reduction toward Electrochemical Ammonia Synthesis Using N₂ and H₂O. Small Methods, 2020, 4, 1900821.	8.6	148
35	Significantly Improved Cyclability of Conversionâ€Type Transition Metal Oxyfluoride Cathodes by Homologous Passivation Layer Reconstruction. Advanced Energy Materials, 2020, 10, 1903333.	19.5	33
36	Methanol tolerance of atomically dispersed single metal site catalysts: mechanistic understanding and high-performance direct methanol fuel cells. Energy and Environmental Science, 2020, 13, 3544-3555.	30.8	129

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37	Single-Atom Nanozymes Linked Immunosorbent Assay for Sensitive Detection of A Î² 1-40: A Biomarker of Alzheimerâ€™s Disease. Research, 2020, 2020, 4724505.	5.7	52
38	NASICON-type Na3Fe2(PO4)3 as a low-cost and high-rate anode material for aqueous sodium-ion batteries. Nano Energy, 2019, 64, 103941.	16.0	83
39	3D porous graphitic nanocarbon for enhancing the performance and durability of Pt catalysts: a balance between graphitization and hierarchical porosity. Energy and Environmental Science, 2019, 12, 2830-2841.	30.8	219
40	The Velociprobe: An ultrafast hard X-ray nanoprobe for high-resolution ptychographic imaging. Review of Scientific Instruments, 2019, 90, 083701.	1.3	61
41	On the unusual amber coloration of nanoporous sol-gel processed Al-doped silica glass: An experimental study. Scientific Reports, 2019, 9, 12474.	3.3	0
42	Influence of Fe Substitution into LaCoO₃ Electrocatalysts on Oxygen-Reduction Activity. ACS Applied Materials & Interfaces, 2019, 11, 5682-5686.	8.0	54
43	Sr₃CrN₃: A New Electride with a Partially Filled d-Shell Transition Metal. Journal of the American Chemical Society, 2019, 141, 10595-10598.	13.7	43
44	The role of titanium-oxo clusters in the sulfate process for TiO₂ production. Dalton Transactions, 2019, 48, 11086-11093.	3.3	14
45	Structural defects on converted bismuth oxide nanotubes enable highly active electrocatalysis of carbon dioxide reduction. Nature Communications, 2019, 10, 2807.	12.8	456
46	Phthalocyanine Precursors To Construct Atomically Dispersed Iron Electrocatalysts. ACS Catalysis, 2019, 9, 6252-6261.	11.2	61
47	In Situ X-ray Absorption Spectroscopy Studies of Nanoscale Electrocatalysts. Nano-Micro Letters, 2019, 11, 47.	27.0	181
48	Boosting oxygen evolution of single-atomic ruthenium through electronic coupling with cobalt-iron layered double hydroxides. Nature Communications, 2019, 10, 1711.	12.8	446
49	S-Doped MoP Nanoporous Layer Toward High-Efficiency Hydrogen Evolution in pH-Universal Electrolyte. ACS Catalysis, 2019, 9, 651-659.	11.2	167
50	Unveiling Active Sites of CO₂ Reduction on Nitrogen-Coordinated and Atomically Dispersed Iron and Cobalt Catalysts. ACS Catalysis, 2018, 8, 3116-3122.	11.2	405
51	Active sites of copper-complex catalytic materials for electrochemical carbon dioxide reduction. Nature Communications, 2018, 9, 415.	12.8	527
52	Nitrogenâ€Coordinated Single Cobalt Atom Catalysts for Oxygen Reduction in Proton Exchange Membrane Fuel Cells. Advanced Materials, 2018, 30, 1706758.	21.0	788
53	Performance and Ongoing Development of the Velociprobe, a Fast Hard X-ray Nanoprobe for High-Resolution Ptychographic Imaging. Microscopy and Microanalysis, 2018, 24, 54-55.	0.4	13
54	Al2O3 coated LiCoO2 as cathode for high-capacity and long-cycling Li-ion batteries. Chinese Chemical Letters, 2018, 29, 1768-1772.	9.0	27

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55	Atomically dispersed manganese catalysts for oxygen reduction in proton-exchange membrane fuel cells. Nature Catalysis, 2018, 1, 935-945.	34.4	1,075
56	Introducing Fe²⁺ into Nickelâ€“Iron Layered Double Hydroxide: Local Structure Modulated Water Oxidation Activity. Angewandte Chemie, 2018, 130, 9536-9540.	2.0	86
57	Introducing Fe²⁺ into Nickelâ€“Iron Layered Double Hydroxide: Local Structure Modulated Water Oxidation Activity. Angewandte Chemie - International Edition, 2018, 57, 9392-9396.	13.8	284
58	Single Atomic Iron Catalysts for Oxygen Reduction in Acidic Media: Particle Size Control and Thermal Activation. Journal of the American Chemical Society, 2017, 139, 14143-14149.	13.7	1,215
59	Electroreduction of CO₂ Catalyzed by a Heterogenized Znâ€“Porphyrin Complex with a Redox-Innocent Metal Center. ACS Central Science, 2017, 3, 847-852.	11.3	165