Yanghua He

List of Publications by Year
in descending order

31 papers	5,780 citations	236612 25 h-index	476904 29 g-index
31 all docs	31 docs citations	31 times ranked	5144 citing authors

#	Article	IF	Citations
1	PGM-Free Oxygen-Reduction Catalyst Development for Proton-Exchange Membrane Fuel Cells: Challenges, Solutions, and Promises. Accounts of Materials Research, 2022, 3, 224-236.	5.9	73
2	Highly accessible and dense surface single metal FeN₄ active sites for promoting the oxygen reduction reaction. Energy and Environmental Science, 2022, 15, 2619-2628.	15.6	82
3	(Invited) Effect of Nanostructure and Surface Chemistry on Activity and Selectivity of Cu-Based Electrocatalysts for Carbon Dioxide Reduction. ECS Meeting Abstracts, 2022, MA2022-01, 2096-2096.	0.0	0
4	(Invited, Digital Presentation) La-Sr-Co Oxide Catalysts for Oxygen Evolution Reaction in Anion Exchange Membrane Water Electrolyzers: The Role of Electrode Fabrication on Performance and Durability. ECS Meeting Abstracts, 2022, MA2022-01, 1718-1718.	0.0	0
5	Dynamically Unveiling Metalâ€"Nitrogen Coordination during Thermal Activation to Design Highâ€Efficient Atomically Dispersed CoN₄ Active Sites. Angewandte Chemie - International Edition, 2021, 60, 9516-9526.	7.2	119
6	Dynamically Unveiling Metalâ€"Nitrogen Coordination during Thermal Activation to Design Highâ€Efficient Atomically Dispersed CoN₄ Active Sites. Angewandte Chemie, 2021, 133, 9602-9612.	1.6	21
7	Binary Atomically Dispersed Metalâ€Site Catalysts with Coreâ^'Shell Nanostructures for O₂ and CO₂ Reduction Reactions. Small Science, 2021, 1, 2100046.	5.8	29
8	Improving the Stability of Nonâ€Nobleâ€Metal Mâ€"Nâ€"C Catalysts for Protonâ€Exchangeâ€Membrane Fuel Cells through Mâ€"N Bond Length and Coordination Regulation. Advanced Materials, 2021, 33, e2006613.	11.1	94
9	Atomic Structure Evolution of Ptâ€"Co Binary Catalysts: Single Metal Sites versus Intermetallic Nanocrystals. Advanced Materials, 2021, 33, e2106371.	11.1	62
10	Engineering Local Coordination Environments of Atomically Dispersed and Heteroatomâ€Coordinated Single Metal Site Electrocatalysts for Clean Energyâ€Conversion. Advanced Energy Materials, 2020, 10, 1902844.	10.2	245
11	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.	11.1	262
12	Advanced Electrocatalysts with Single-Metal-Atom Active Sites. Chemical Reviews, 2020, 120, 12217-12314.	23.0	563
13	Performance enhancement and degradation mechanism identification of a single-atom Coâ€"Nâ€"C catalyst for proton exchange membrane fuel cells. Nature Catalysis, 2020, 3, 1044-1054.	16.1	443
14	Singleâ€Atom catalysts: Engineering Local Coordination Environments of Atomically Dispersed and Heteroatomâ€Coordinated Single Metal Site Electrocatalysts for Clean Energyâ€Conversion (Adv. Energy) Tj ETQq0 0 0 rgBT /Overlock 1	10.0	3
15	Zincâ€Mediated Template Synthesis of Feâ€Nâ€C Electrocatalysts with Densely Accessible Feâ€N<i>_x</i> Active Sites for Efficient Oxygen Reduction. Advanced Materials, 2020, 32, e1907399.	11.1	319
16	Atomically dispersed metalâ€"nitrogenâ€"carbon catalysts for fuel cells: advances in catalyst design, electrode performance, and durability improvement. Chemical Society Reviews, 2020, 49, 3484-3524.	18.7	453
17	Into the â€œsecretâ€• double layer: Alkali cation mediates the hydrogen evolution reaction in basic medium. Journal of Energy Chemistry, 2020, 51, 101-104.	7.1	7
18	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.	15.6	129

#	Article	IF	Citations
19	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.	15.6	219
20	Ironâ€Free Cathode Catalysts for Protonâ€Exchangeâ€Membrane Fuel Cells: Cobalt Catalysts and the Peroxide Mitigation Approach. Advanced Materials, 2019, 31, e1805126.	11.1	208
21	Highly active atomically dispersed CoN₄ fuel cell cathode catalysts derived from surfactant-assisted MOFs: carbon-shell confinement strategy. Energy and Environmental Science, 2019, 12, 250-260.	15.6	691
22	Atomically Dispersed Metal Catalysts for Oxygen Reduction. ACS Energy Letters, 2019, 4, 1619-1633.	8.8	251
23	Large-diameter and heteroatom-doped graphene nanotubes decorated with transition metals as carbon hosts for lithiumâ€"sulfur batteries. Journal of Materials Chemistry A, 2019, 7, 13389-13399.	5.2	27
24	Metal-Nitrogen-Carbon Catalysts for Oxygen Reduction in PEM Fuel Cells: Self-Template Synthesis Approach to Enhancing Catalytic Activity and Stability. Electrochemical Energy Reviews, 2019, 2, 231-251.	13.1	128
25	Nitrogenâ€Coordinated Single Cobalt Atom Catalysts for Oxygen Reduction in Proton Exchange Membrane Fuel Cells. Advanced Materials, 2018, 30, 1706758.	11.1	788
26	Innovation and challenges in materials design for flexible rechargeable batteries: from 1D to 3D. Journal of Materials Chemistry A, 2018, 6, 735-753.	5.2	99
27	Pt alloy nanoparticles decorated on large-size nitrogen-doped graphene tubes for highly stable oxygen-reduction catalysts. Nanoscale, 2018, 10, 17318-17326.	2.8	45
28	Ordered Pt₃Co Intermetallic Nanoparticles Derived from Metalâ€"Organic Frameworks for Oxygen Reduction. Nano Letters, 2018, 18, 4163-4171.	4.5	304
29	Highly efficient and durable MoNiNC catalyst for hydrogen evolution reaction. Nano Energy, 2017, 37, 1-6.	8.2	79
30	In-situ carbonization approach for the binder-free Ir-dispersed ordered mesoporous carbon hydrogen evolution electrode. Journal of Energy Chemistry, 2017, 26, 1140-1146.	7.1	11
31	Three-dimensional nanoporous goldâ€"cobalt oxide electrode for high-performance electroreduction of hydrogen peroxide in alkaline medium. Journal of Power Sources, 2015, 294, 136-140.	4.0	26