Hongliang Jiang

List of Publications by Year
in descending order

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		101543	133252
58	5,553	36	59
papers	citations	h-index	g-index

60	60	60	7467
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Cobalt nanoparticles embedded in N-doped carbon as an efficient bifunctional electrocatalyst for oxygen reduction and evolution reactions. Nanoscale, 2014, 6, 15080-15089.	5.6	509
2	Transition metals (Fe, Co, and Ni) encapsulated in nitrogen-doped carbon nanotubes as bi-functional catalysts for oxygen electrode reactions. Journal of Materials Chemistry A, 2016, 4, 1694-1701.	10.3	460
3	Electronic Structure Reconfiguration toward Pyrite NiS₂ via Engineered Heteroatom Defect Boosting Overall Water Splitting. ACS Nano, 2017, 11, 11574-11583.	14.6	310
4	Achieving Efficient Alkaline Hydrogen Evolution Reaction over a Ni₅P₄ Catalyst Incorporating Singleâ€Atomic Ru Sites. Advanced Materials, 2020, 32, e1906972.	21.0	281
5	Iron Carbide Nanoparticles Encapsulated in Mesoporous Feâ€“N-Doped Graphene-Like Carbon Hybrids as Efficient Bifunctional Oxygen Electrocatalysts. ACS Applied Materials & Interfaces, 2015, 7, 21511-21520.	8.0	262
6	Structural Self-Reconstruction of Catalysts in Electrocatalysis. Accounts of Chemical Research, 2018, 51, 2968-2977.	15.6	252
7	Atomic Iridium Incorporated in Cobalt Hydroxide for Efficient Oxygen Evolution Catalysis in Neutral Electrolyte. Advanced Materials, 2018, 30, e1707522.	21.0	247
8	Enriched graphitic N-doped carbon-supported Fe₃O₄ nanoparticles as efficient electrocatalysts for oxygen reduction reaction. Journal of Materials Chemistry A, 2014, 2, 7281-7287.	10.3	235
9	Tracking Structural Selfâ€Reconstruction and Identifying True Active Sites toward Cobalt Oxychloride Precatalyst of Oxygen Evolution Reaction. Advanced Materials, 2019, 31, e1805127.	21.0	211
10	Defective Carbonâ€“CoP Nanoparticles Hybrids with Interfacial Charges Polarization for Efficient Bifunctional Oxygen Electrocatalysis. Advanced Energy Materials, 2018, 8, 1703623.	19.5	209
11	Nickel Vacancies Boost Reconstruction in Nickel Hydroxide Electrocatalyst. ACS Energy Letters, 2018, 3, 1373-1380.	17.4	206
12	Nitrogen and Phosphorus Dualâ€Doped Hierarchical Porous Carbon Foams as Efficient Metalâ€Free Electrocatalysts for Oxygen Reduction Reactions. Chemistry - A European Journal, 2014, 20, 3106-3112.	3.3	179
13	Highly efficient reusable catalyst based on silicon nanowire arrays decorated with copper nanoparticles. Journal of Materials Chemistry A, 2014, 2, 9040.	10.3	170
14	Hollow mesoporous NiCo₂O₄ nanocages as efficient electrocatalysts for oxygen evolution reaction. Dalton Transactions, 2015, 44, 4148-4154.	3.3	151
15	Activated nitrogen-doped carbon nanofibers with hierarchical pore as efficient oxygen reduction reaction catalyst for microbial fuel cells. Journal of Power Sources, 2014, 266, 36-42.	7.8	113
16	In Situ Growth of Cobalt Nanoparticles Encapsulated Nitrogenâ€Doped Carbon Nanotubes among Ti₃C₂T_x (MXene) Matrix for Oxygen Reduction and Evolution. Advanced Materials Interfaces, 2018, 5, 1800392.	3.7	106
17	Dynamically Formed Surfactant Assembly at the Electrified Electrodeâ€“Electrolyte Interface Boosting CO₂ Electroreduction. Journal of the American Chemical Society, 2022, 144, 6613-6622.	13.7	106
18	BiPO₄â€Derived 2D Nanosheets for Efficient Electrocatalytic Reduction of CO₂ to Liquid Fuel. Angewandte Chemie - International Edition, 2021, 60, 7681-7685.	13.8	98

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19	Operando X-ray spectroscopy visualizing the chameleon-like structural reconstruction on an oxygen evolution electrocatalyst. Energy and Environmental Science, 2021, 14, 906-915.	30.8	93
20	Highly Defective Fe-Based Oxyhydroxides from Electrochemical Reconstruction for Efficient Oxygen Evolution Catalysis. ACS Energy Letters, 2018, 3, 861-868.	17.4	92
21	Highly dual-doped multilayer nanoporous graphene: efficient metal-free electrocatalysts for the hydrogen evolution reaction. Journal of Materials Chemistry A, 2015, 3, 12642-12645.	10.3	83
22	3D nitrogen-doped graphene foams embedded with ultrafine TiO2 nanoparticles for high-performance lithium-ion batteries. Journal of Materials Chemistry A, 2014, 2, 11124.	10.3	78
23	Exfoliation of ultrathin FePS₃ layers as a promising electrocatalyst for the oxygen evolution reaction. Chemical Communications, 2018, 54, 4481-4484.	4.1	63
24	Hierarchical interconnected macro-/mesoporous Co-containing N-doped carbon for efficient oxygen reduction reactions. Journal of Materials Chemistry A, 2013, 1, 12074.	10.3	59
25	Hierarchical porous iron and nitrogen co-doped carbons as efficient oxygen reduction electrocatalysts in neutral media. Journal of Power Sources, 2014, 265, 246-253.	7.8	59
26	Wellâ€Đefined Cobalt Catalyst with Nâ€Đoped Carbon Layers Enwrapping: The Correlation between Surface Atomic Structure and Electrocatalytic Property. Small, 2018, 14, 1702074.	10.0	56
27	Local structure tuning in Fe-N-C catalysts through support effect for boosting CO2 electroreduction. Applied Catalysis B: Environmental, 2020, 272, 118960.	20.2	53
28	Boosted Reactivity of Ammonia Borane Dehydrogenation over Ni/Ni₂P Heterostructure. Journal of Physical Chemistry Letters, 2019, 10, 1048-1054.	4.6	52
29	Tracking structural evolution: operando regenerative CeOx/Bi interface structure for high-performance CO2 electroreduction. National Science Review, 2021, 8, nwaa187.	9.5	50
30	Ternary interfacial superstructure enabling extraordinary hydrogen evolution electrocatalysis. Materials Today, 2018, 21, 602-610.	14.2	48
31	Photoluminescent carbonâ€“nitrogen quantum dots as efficient electrocatalysts for oxygen reduction. Nanoscale, 2015, 7, 2003-2008.	5.6	41
32	Integrated Flexible Electrode for Oxygen Evolution Reaction: Layered Double Hydroxide Coupled with Single-Walled Carbon Nanotubes Film. ACS Sustainable Chemistry and Engineering, 2018, 6, 2911-2915.	6.7	41
33	Recent Progress in Defective Carbonâ€Based Oxygen Electrode Materials for Rechargeable Zinkâ€Air Batteries. Batteries and Supercaps, 2019, 2, 509-523.	4.7	41
34	Confined bimetallic phosphide within P, N co-doped carbon layers towards boosted bifunctional oxygen catalysis. Journal of Materials Chemistry A, 2018, 6, 11281-11287.	10.3	40
35	Photonic crystal pH and metal cation sensors based on poly(vinyl alcohol) hydrogel. New Journal of Chemistry, 2012, 36, 1051.	2.8	37
36	High-metallic-phase-concentration Mo1â€“xWxS2 nanosheets with expanded interlayers as efficient electrocatalysts. Nano Research, 2018, 11, 1687-1698.	10.4	37

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37	Ethanol-assisted multi-sensitive poly(vinyl alcohol) photonic crystal sensor. Chemical Communications, 2011, 47, 5530-5532.	4.1	36
38	Active Sites Engineering toward Superior Carbonâ€Based Oxygen Reduction Catalysts via Confinement Pyrolysis. Small, 2018, 14, e1800128.	10.0	36
39	Synergistic Effect of Platinum Single Atoms and Nanoclusters Boosting Electrocatalytic Hydrogen Evolution. CCS Chemistry, 2021, 3, 2539-2547.	7.8	36
40	Facile and controllable fabrication of three-dimensionally quasi-ordered macroporous TiO2 for high performance lithium-ion battery applications. New Journal of Chemistry, 2013, 37, 1578.	2.8	33
41	Heterogeneous MoSe₂/Nitrogenâ€Dopedâ€Carbon Nanoarrays: Engineering Atomic Interface for Potassiumâ€Ion Storage. Advanced Functional Materials, 2022, 32, 2110223.	14.9	29
42	Solvent-assisted poly(vinyl alcohol) gelated crystalline colloidal array photonic crystals. Soft Matter, 2011, 7, 915-921.	2.7	27
43	1Tâ€²â€Mo_{1â^'x}W_xS₂/CdS Heterostructure Enabling Robust Photocatalytic Water Splitting: Unveiling the Interfacial Charge Polarization. Solar Rrl, 2018, 2, 1800032.	5.8	27
44	Redirecting dynamic structural evolution of nickel-contained RuO2 catalyst during electrochemical oxygen evolution reaction. Journal of Energy Chemistry, 2022, 69, 330-337.	12.9	24
45	Definitive Structural Identification toward Moleculeâ€Type Sites within 1D and 2D Carbonâ€Based Catalysts. Advanced Energy Materials, 2018, 8, 1800436.	19.5	23
46	Sulfur Atomically Doped Bismuth Nanobelt Driven by Electrochemical Self-Reconstruction for Boosted Electrocatalysis. Journal of Physical Chemistry Letters, 2020, 11, 1746-1752.	4.6	23
47	Multifunctional manganese-doped coreâ€“shell quantum dots for magnetic resonance and fluorescence imaging of cancer cells. New Journal of Chemistry, 2013, 37, 3076.	2.8	22
48	Achieving high-efficient urea oxidation via regulating the rate-determining step over a V single atom incorporated Co hydroxide electrocatalyst. Chemical Engineering Journal, 2022, 439, 135768.	12.7	22
49	The Effect of the Coordination Environment of Atomically Dispersed Fe and N Coâ€doped Carbon Nanosheets on CO 2 Electroreduction. ChemElectroChem, 2020, 7, 4767-4772.	3.4	17
50	Efficient electrocatalytic formic acid oxidation over PdAu-manganese oxide/carbon. Journal of Colloid and Interface Science, 2021, 593, 244-250.	9.4	15
51	Au@TiO2 double-shelled octahedral nanocages with improved catalytic properties. Dalton Transactions, 2014, 43, 15111-15118.	3.3	10
52	BiPO₄â€Derived 2D Nanosheets for Efficient Electrocatalytic Reduction of CO₂ to Liquid Fuel. Angewandte Chemie, 2021, 133, 7759-7763.	2.0	10
53	Scalable solid-phase synthesis of defect-rich graphene for oxygen reduction electrocatalysis. Green Energy and Environment, 2023, 8, 224-232.	8.7	8
54	Operando generated copperâ€based catalyst enabling efficient electrosynthesis of 2,5â€bis(hydroxymethyl)furan. Fundamental Research, 2023, 3, 763-769.	3.3	7

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55	Confined Co₉S₈ into a defective carbon matrix as a bifunctional oxygen electrocatalyst for rechargeable zincâ€“air batteries. Catalysis Science and Technology, 2019, 9, 5757-5762.	4.1	6
56	The Proportion of Feâ€N X , N Doping Species and Fe 3 C to Oxygen Catalytic Activity in Coreâ€Shell Feâ€N/C Electrocatalyst. Chemistry - an Asian Journal, 2020, 15, 310-318.	3.3	4
57	Dechlorination-facilitated deprotonation of CoFe (Oxy)hydroxide catalysts under electrochemical oxygen evolution. Chemical Engineering Science, 2022, 252, 117270.	3.8	4
58	Interfacial Roles: Defective Carbonâ€“CoP Nanoparticles Hybrids with Interfacial Charges Polarization for Efficient Bifunctional Oxygen Electrocatalysis(Adv. Energy Mater. 18/2018). Advanced Energy Materials, 2018, 8, 1870087.	19.5	2