

Hongliang Jiang

List of Publications by Year in descending order

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58
papers

5,553
citations

101543

36
h-index

133252

59
g-index

60
all docs

60
docs citations

60
times ranked

7467
citing authors

#	ARTICLE	IF	CITATIONS
1	Scalable solid-phase synthesis of defect-rich graphene for oxygen reduction electrocatalysis. <i>Green Energy and Environment</i> , 2023, 8, 224-232.	8.7	8
2	Operando generated copper-based catalyst enabling efficient electrosynthesis of 2,5-bis(hydroxymethyl)furan. <i>Fundamental Research</i> , 2023, 3, 763-769.	3.3	7
3	Heterogeneous MoSe ₂ /Nitrogen-Doped Carbon Nanoarrays: Engineering Atomic Interface for Potassium-Ion Storage. <i>Advanced Functional Materials</i> , 2022, 32, 2110223.	14.9	29
4	Dechlorination-facilitated deprotonation of CoFe (Oxy)hydroxide catalysts under electrochemical oxygen evolution. <i>Chemical Engineering Science</i> , 2022, 252, 117270.	3.8	4
5	Redirecting dynamic structural evolution of nickel-contained RuO ₂ catalyst during electrochemical oxygen evolution reaction. <i>Journal of Energy Chemistry</i> , 2022, 69, 330-337.	12.9	24
6	Dynamically Formed Surfactant Assembly at the Electrified Electrode-Electrolyte Interface Boosting CO ₂ Electroreduction. <i>Journal of the American Chemical Society</i> , 2022, 144, 6613-6622.	13.7	106
7	Achieving high-efficient urea oxidation via regulating the rate-determining step over a V single atom incorporated Co hydroxide electrocatalyst. <i>Chemical Engineering Journal</i> , 2022, 439, 135768.	12.7	22
8	Operando X-ray spectroscopy visualizing the chameleon-like structural reconstruction on an oxygen evolution electrocatalyst. <i>Energy and Environmental Science</i> , 2021, 14, 906-915.	30.8	93
9	Tracking structural evolution: operando regenerative CeOx/Bi interface structure for high-performance CO ₂ electroreduction. <i>National Science Review</i> , 2021, 8, nwa187.	9.5	50
10	BiPO ₄ -Derived 2D Nanosheets for Efficient Electrocatalytic Reduction of CO ₂ to Liquid Fuel. <i>Angewandte Chemie</i> , 2021, 133, 7759-7763.	2.0	10
11	BiPO ₄ -Derived 2D Nanosheets for Efficient Electrocatalytic Reduction of CO ₂ to Liquid Fuel. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 7681-7685.	13.8	98
12	Efficient electrocatalytic formic acid oxidation over PdAu-manganese oxide/carbon. <i>Journal of Colloid and Interface Science</i> , 2021, 593, 244-250.	9.4	15
13	Synergistic Effect of Platinum Single Atoms and Nanoclusters Boosting Electrocatalytic Hydrogen Evolution. <i>CCS Chemistry</i> , 2021, 3, 2539-2547.	7.8	36
14	The Proportion of Fe-N, N Doping Species and Fe ₃ C to Oxygen Catalytic Activity in Core-Shell Fe-N/C Electrocatalyst. <i>Chemistry - an Asian Journal</i> , 2020, 15, 310-318.	3.3	4
15	The Effect of the Coordination Environment of Atomically Dispersed Fe and N Co-doped Carbon Nanosheets on CO ₂ Electroreduction. <i>ChemElectroChem</i> , 2020, 7, 4767-4772.	3.4	17
16	Sulfur Atomically Doped Bismuth Nanobelt Driven by Electrochemical Self-Reconstruction for Boosted Electrocatalysis. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 1746-1752.	4.6	23
17	Achieving Efficient Alkaline Hydrogen Evolution Reaction over a Ni ₅ P ₄ Catalyst Incorporating Single-Atomic Ru Sites. <i>Advanced Materials</i> , 2020, 32, e1906972.	21.0	281
18	Local structure tuning in Fe-N-C catalysts through support effect for boosting CO ₂ electroreduction. <i>Applied Catalysis B: Environmental</i> , 2020, 272, 118960.	20.2	53

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19	Confined Co ₉ S ₈ into a defective carbon matrix as a bifunctional oxygen electrocatalyst for rechargeable zinc-air batteries. <i>Catalysis Science and Technology</i> , 2019, 9, 5757-5762.	4.1	6
20	Recent Progress in Defective Carbon-Based Oxygen Electrode Materials for Rechargeable Zinc-Air Batteries. <i>Batteries and Supercaps</i> , 2019, 2, 509-523.	4.7	41
21	Boosted Reactivity of Ammonia Borane Dehydrogenation over Ni/Ni ₂ P Heterostructure. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 1048-1054.	4.6	52
22	Tracking Structural Self-Reconstruction and Identifying True Active Sites toward Cobalt Oxide Precatalyst of Oxygen Evolution Reaction. <i>Advanced Materials</i> , 2019, 31, e1805127.	21.0	211
23	Defective Carbon-CoP Nanoparticles Hybrids with Interfacial Charges Polarization for Efficient Bifunctional Oxygen Electrocatalysis. <i>Advanced Energy Materials</i> , 2018, 8, 1703623.	19.5	209
24	Atomic Iridium Incorporated in Cobalt Hydroxide for Efficient Oxygen Evolution Catalysis in Neutral Electrolyte. <i>Advanced Materials</i> , 2018, 30, e1707522.	21.0	247
25	Definitive Structural Identification toward Molecule-Type Sites within 1D and 2D Carbon-Based Catalysts. <i>Advanced Energy Materials</i> , 2018, 8, 1800436.	19.5	23
26	1T-Mo _{1-x} W _x S ₂ /CdS Heterostructure Enabling Robust Photocatalytic Water Splitting: Unveiling the Interfacial Charge Polarization. <i>Solar Rrl</i> , 2018, 2, 1800032.	5.8	27
27	Exfoliation of ultrathin FePS ₃ layers as a promising electrocatalyst for the oxygen evolution reaction. <i>Chemical Communications</i> , 2018, 54, 4481-4484.	4.1	63
28	Active Sites Engineering toward Superior Carbon-Based Oxygen Reduction Catalysts via Confinement Pyrolysis. <i>Small</i> , 2018, 14, e1800128.	10.0	36
29	Ternary interfacial superstructure enabling extraordinary hydrogen evolution electrocatalysis. <i>Materials Today</i> , 2018, 21, 602-610.	14.2	48
30	Integrated Flexible Electrode for Oxygen Evolution Reaction: Layered Double Hydroxide Coupled with Single-Walled Carbon Nanotubes Film. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 2911-2915.	6.7	41
31	Highly Defective Fe-Based Oxyhydroxides from Electrochemical Reconstruction for Efficient Oxygen Evolution Catalysis. <i>ACS Energy Letters</i> , 2018, 3, 861-868.	17.4	92
32	High-metallic-phase-concentration Mo _{1-x} W _x S ₂ nanosheets with expanded interlayers as efficient electrocatalysts. <i>Nano Research</i> , 2018, 11, 1687-1698.	10.4	37
33	Well-Defined Cobalt Catalyst with N-Doped Carbon Layers Enwrapping: The Correlation between Surface Atomic Structure and Electrocatalytic Property. <i>Small</i> , 2018, 14, 1702074.	10.0	56
34	Structural Self-Reconstruction of Catalysts in Electrocatalysis. <i>Accounts of Chemical Research</i> , 2018, 51, 2968-2977.	15.6	252
35	Confined bimetallic phosphide within P, N co-doped carbon layers towards boosted bifunctional oxygen catalysis. <i>Journal of Materials Chemistry A</i> , 2018, 6, 11281-11287.	10.3	40
36	Nickel Vacancies Boost Reconstruction in Nickel Hydroxide Electrocatalyst. <i>ACS Energy Letters</i> , 2018, 3, 1373-1380.	17.4	206

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37	Interfacial Roles: Defective Carbon-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
38	In Situ Growth of Cobalt Nanoparticles Encapsulated Nitrogen-Doped Carbon Nanotubes among Ti ₃ C ₂ T _x (MXene) Matrix for Oxygen Reduction and Evolution. Advanced Materials Interfaces, 2018, 5, 1800392.	3.7	106
39	Electronic Structure Reconfiguration toward Pyrite Ni ₂ via Engineered Heteroatom Defect Boosting Overall Water Splitting. ACS Nano, 2017, 11, 11574-11583.	14.6	310
40	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
41	Hollow mesoporous NiCo ₂ O ₄ nanocages as efficient electrocatalysts for oxygen evolution reaction. Dalton Transactions, 2015, 44, 4148-4154.	3.3	151
42	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
43	Iron Carbide Nanoparticles Encapsulated in Mesoporous Fe-N-Doped Graphene-Like Carbon Hybrids as Efficient Bifunctional Oxygen Electrocatalysts. ACS Applied Materials & Interfaces, 2015, 7, 21511-21520.	8.0	262
44	Photoluminescent carbon-nitrogen quantum dots as efficient electrocatalysts for oxygen reduction. Nanoscale, 2015, 7, 2003-2008.	5.6	41
45	Enriched graphitic N-doped carbon-supported Fe ₃ O ₄ nanoparticles as efficient electrocatalysts for oxygen reduction reaction. Journal of Materials Chemistry A, 2014, 2, 7281-7287.	10.3	235
46	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
47	Au@TiO ₂ double-shelled octahedral nanocages with improved catalytic properties. Dalton Transactions, 2014, 43, 15111-15118.	3.3	10
48	3D nitrogen-doped graphene foams embedded with ultrafine TiO ₂ nanoparticles for high-performance lithium-ion batteries. Journal of Materials Chemistry A, 2014, 2, 11124.	10.3	78
49	Highly efficient reusable catalyst based on silicon nanowire arrays decorated with copper nanoparticles. Journal of Materials Chemistry A, 2014, 2, 9040.	10.3	170
50	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
51	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
52	Nitrogen and Phosphorus Dual-Doped Hierarchical Porous Carbon Foams as Efficient Metal-Free Electrocatalysts for Oxygen Reduction Reactions. Chemistry - A European Journal, 2014, 20, 3106-3112.	3.3	179
53	Facile and controllable fabrication of three-dimensionally quasi-ordered macroporous TiO ₂ for high performance lithium-ion battery applications. New Journal of Chemistry, 2013, 37, 1578.	2.8	33
54	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

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55	Multifunctional manganese-doped core-shell quantum dots for magnetic resonance and fluorescence imaging of cancer cells. <i>New Journal of Chemistry</i> , 2013, 37, 3076.	2.8	22
56	Photonic crystal pH and metal cation sensors based on poly(vinyl alcohol) hydrogel. <i>New Journal of Chemistry</i> , 2012, 36, 1051.	2.8	37
57	Ethanol-assisted multi-sensitive poly(vinyl alcohol) photonic crystal sensor. <i>Chemical Communications</i> , 2011, 47, 5530-5532.	4.1	36
58	Solvent-assisted poly(vinyl alcohol) gelled crystalline colloidal array photonic crystals. <i>Soft Matter</i> , 2011, 7, 915-921.	2.7	27