Lishan Peng

List of Publications by Year
in descending order

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49 papers	3,444 citations	136950 32 h-index	206112 48 g-index
51 all docs	51 docs citations	51 times ranked	3261 citing authors

#	Article	IF	Citations
1	MILâ€101â€Derived Mesoporous Carbon Supporting Highly Exposed Fe Singleâ€Atom Sites as Efficient Oxygen Reduction Reaction Catalysts. Advanced Materials, 2021, 33, e2101038.	21.0	327
2	Atomic Cationâ€Vacancy Engineering of NiFeâ€Layered Double Hydroxides for Improved Activity and Stability towards the Oxygen Evolution Reaction. Angewandte Chemie - International Edition, 2021, 60, 24612-24619.	13.8	259
3	Ni-doped Mo₂C nanowires supported on Ni foam as a binder-free electrode for enhancing the hydrogen evolution performance. Journal of Materials Chemistry A, 2015, 3, 1863-1867.	10.3	234
4	Recent developments in metal phosphide and sulfide electrocatalysts for oxygen evolution reaction. Chinese Journal of Catalysis, 2018, 39, 1575-1593.	14.0	205
5	Recent Advances in the Development of Singleâ€Atom Catalysts for Oxygen Electrocatalysis and Zincâ€“Air Batteries. Advanced Energy Materials, 2020, 10, 2003018.	19.5	181
6	Mesoporeâ€Rich Feâ€“Nâ€“C Catalyst with FeN₄â€“Oâ€“NC Singleâ€Atom Sites Delivers Remarkable Oxygen Reduction Reaction Performance in Alkaline Media. Advanced Materials, 2022, 34, e2202544.	21.0	168
7	Molten NaClâ€Assisted Synthesis of Porous Feâ€Nâ€C Electrocatalysts with a High Density of Catalytically Accessible FeN₄ÂActive Sites and Outstanding Oxygen Reduction Reaction Performance. Advanced Energy Materials, 2021, 11, 2100219.	19.5	160
8	Chimney effect of the interface in metal oxide/metal composite catalysts on the hydrogen evolution reaction. Applied Catalysis B: Environmental, 2019, 245, 122-129.	20.2	132
9	Dual-Ligand Synergistic Modulation: A Satisfactory Strategy for Simultaneously Improving the Activity and Stability of Oxygen Evolution Electrocatalysts. ACS Catalysis, 2017, 7, 8184-8191.	11.2	109
10	Rational construction of macroporous CoFeP triangular plate arrays from bimetalâ€“organic frameworks as high-performance overall water-splitting catalysts. Journal of Materials Chemistry A, 2019, 7, 17529-17535.	10.3	102
11	Monodispersed Co in Mesoporous Polyhedrons: Fine-tuning of ZIF-8 Structure with Enhanced Oxygen Reduction Activity. Electrochimica Acta, 2017, 251, 498-504.	5.2	91
12	Rationally design of monometallic NiO-Ni3S2/NF heteronanosheets as bifunctional electrocatalysts for overall water splitting. Journal of Catalysis, 2019, 369, 345-351.	6.2	84
13	Preparation of Hollow Nitrogen Doped Carbon via Stresses Induced Orientation Contraction. Small, 2018, 14, e1804183.	10.0	83
14	Self-standing FeCo Prussian blue analogue derived FeCo/C and FeCoP/C nanosheet arrays for cost-effective electrocatalytic water splitting. Electrochimica Acta, 2019, 302, 45-55.	5.2	80
15	Exploring Feâ€N_x for Peroxide Reduction: Templateâ€Free Synthesis of Feâ€N_x Traumatized Mesoporous Carbon Nanotubes as an ORR Catalyst in Acidic and Alkaline Solutions. Chemistry - A European Journal, 2018, 24, 10630-10635.	3.3	79
16	Three-dimensional Core@Shell Co@CoMoO4 nanowire arrays as efficient alkaline hydrogen evolution electro-catalysts. Applied Catalysis B: Environmental, 2019, 246, 41-49.	20.2	78
17	Catalyst Engineering for Electrochemical Energy Conversion from Water to Water: Water Electrolysis and the Hydrogen Fuel Cell. Engineering, 2020, 6, 653-679.	6.7	75
18	Synthesis and nano-engineering of MXenes for energy conversion and storage applications: Recent advances and perspectives. Coordination Chemistry Reviews, 2022, 454, 214339.	18.8	71

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19	Single-atom catalysts for next-generation rechargeable batteries and fuel cells. Energy Storage Materials, 2022, 45, 301-322.	18.0	67
20	Graphitized carbon-coated vanadium carbide nanoboscages modified by nickel with enhanced electrocatalytic activity for hydrogen evolution in both acid and alkaline solutions. Journal of Materials Chemistry A, 2017, 5, 23028-23034.	10.3	65
21	Controlled synthesis of single cobalt atom catalysts via a facile one-pot pyrolysis for efficient oxygen reduction and hydrogen evolution reactions. Science Bulletin, 2019, 64, 1095-1102.	9.0	59
22	Accelerated alkaline hydrogen evolution on M(OH)_x/M-MoPO_x (M = Ni, Co, Fe,) Tj ETQq0 0 0 rgBT /Overlock 1 Science, 2020, 11, 2487-2493.	7.4	54
23	Synthesis of ammonia via electrochemical nitrogen reduction on high-index faceted Au nanoparticles with a high faradaic efficiency. Chemical Communications, 2019, 55, 14482-14485.	4.1	52
24	Design and synthesis of conductive carbon polyhedrons enriched with Mn-Oxide active-centres for oxygen reduction reaction. Electrochimica Acta, 2018, 272, 169-175.	5.2	47
25	Role of non-metallic atoms in enhancing the catalytic activity of nickel-based compounds for hydrogen evolution reaction. Chemical Science, 2018, 9, 1822-1830.	7.4	46
26	Tuning Interfacial Structures for Better Catalysis of Water Electrolysis. Chemistry - A European Journal, 2019, 25, 9799-9815.	3.3	41
27	Rationally Designed Niâ€“Ni₃S₂ Interfaces for Efficient Overall Water Electrolysis. Advanced Energy and Sustainability Research, 2021, 2, 2100078.	5.8	40
28	Atomic Cationâ€Vacancy Engineering of NiFeâ€Layered Double Hydroxides for Improved Activity and Stability towards the Oxygen Evolution Reaction. Angewandte Chemie, 2021, 133, 24817-24824.	2.0	39
29	Carbon-based catalysts by structural manipulation with iron for oxygen reduction reaction. Journal of Materials Chemistry A, 2018, 6, 8405-8412.	10.3	38
30	Tailoring the microenvironment in Feâ€“Nâ€“C electrocatalysts for optimal oxygen reduction reaction performance. Science Bulletin, 2022, 67, 1264-1273.	9.0	36
31	Selfâ€assemblyâ€and Preshapingâ€assisted Synthesis of Molybdenum Carbide Supported on Ultrathin Nitrogenâ€doped Graphitic Carbon Lamellas for the Hydrogen Evolution Reaction. ChemCatChem, 2017, 9, 1588-1593.	3.7	34
32	Hierarchical coral-like FeNi(OH) /Ni via mild corrosion of nickel as an integrated electrode for efficient overall water splitting. Chinese Journal of Catalysis, 2018, 39, 1736-1745.	14.0	34
33	Construction of a porous nitrogen-doped carbon nanotube with open-ended channels to effectively utilize the active sites for excellent oxygen reduction reaction activity. Chemical Communications, 2017, 53, 11426-11429.	4.1	32
34	Inert V₂O₃ oxide promotes the electrocatalytic activity of Ni metal for alkaline hydrogen evolution. Chemical Communications, 2019, 55, 3290-3293.	4.1	30
35	In situ growth of RuO2â€“TiO2 catalyst with flower-like morphologies on the Ti substrate as a binder-free integrated anode for chlorine evolution. Journal of Applied Electrochemistry, 2016, 46, 841-849.	2.9	27
36	Formation of a thin-layer of nickel hydroxide on nickel phosphide nanopillars for hydrogen evolution. Electrochemistry Communications, 2018, 92, 9-13.	4.7	27

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37	Improved hydrogen oxidation reaction under alkaline conditions by Auâ€“Pt alloy nanoparticles. Journal of Energy Chemistry, 2020, 40, 52-56.	12.9	25
38	ZnCl2 salt facilitated preparation of FeNC: Enhancing the content of active species and their exposure for highly-efficient oxygen reduction reaction. Chinese Journal of Catalysis, 2020, 41, 799-806.	14.0	24
39	Modulating the microenvironment structure of single Zn atom: ZnN4P/C active site for boosted oxygen reduction reaction. Chinese Journal of Catalysis, 2022, 43, 2193-2201.	14.0	23
40	Amorphous FeO_x (x = 1, 1.5) coated Cu₃P nanosheets with bamboo leaves-like morphology induced by solvent molecule adsorption for highly active HER catalysts. Journal of Materials Chemistry A, 2020, 8, 3351-3356.	10.3	17
41	Recent progress of mesoscience in design of electrocatalytic materials for hydrogen energy conversion. Particuology, 2020, 48, 19-33.	3.6	12
42	Heteroatom Modification of Nanoporous Nickel Surfaces for Electrocatalytic Water Splitting. ACS Applied Nano Materials, 2020, 3, 11298-11306.	5.0	11
43	A framework ensemble facilitates high Pt utilization in a low Pt loading fuel cell. Catalysis Science and Technology, 2021, 11, 2957-2963.	4.1	10
44	Insight into the boosted activity of TiO2â€“CoP composites for hydrogen evolution reaction: Accelerated mass transfer, optimized interfacial water, and promoted intrinsic activity. Journal of Energy Chemistry, 2022, 74, 111-120.	12.9	10
45	Boosting Hydrogen Evolution Reaction of Nickel Sulfides by Introducing Nonmetallic Dopants. Journal of Physical Chemistry C, 2020, 124, 24223-24231.	3.1	8
46	Enhancing Rate Performances of Carbon Based Supercapacitors. ChemistrySelect, 2019, 4, 6827-6832.	1.5	7
47	Oxygen-Incorporated NiMoP₂ Nanowire Arrays for Enhanced Hydrogen Evolution Activity in Alkaline Solution. ACS Applied Energy Materials, 0, , .	5.1	6
48	Constructing Ni-VN interfaces with superior electrocatalytic activity for alkaline hydrogen evolution reaction. Journal of Colloid and Interface Science, 2022, 626, 486-493.	9.4	3
49	Frontispiece: Tuning Interfacial Structures for Better Catalysis of Water Electrolysis. Chemistry - A European Journal, 2019, 25, .	3.3	1