

# Lishan Peng

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9125295/publications.pdf>

Version: 2024-02-01

49  
papers

3,444  
citations

136740

32  
h-index

205818

48  
g-index

51  
all docs

51  
docs citations

51  
times ranked

3261  
citing authors

#	ARTICLE	IF	CITATIONS
1	Single-atom catalysts for next-generation rechargeable batteries and fuel cells. <i>Energy Storage Materials</i> , 2022, 45, 301-322.	9.5	67
2	Synthesis and nano-engineering of MXenes for energy conversion and storage applications: Recent advances and perspectives. <i>Coordination Chemistry Reviews</i> , 2022, 454, 214339.	9.5	71
3	Tailoring the microenvironment in Fe-N-C electrocatalysts for optimal oxygen reduction reaction performance. <i>Science Bulletin</i> , 2022, 67, 1264-1273.	4.3	36
4	Mesopore-Rich Fe-N-C Catalyst with Fe <sub>4</sub> -O-NC Single-Atom Sites Delivers Remarkable Oxygen Reduction Reaction Performance in Alkaline Media. <i>Advanced Materials</i> , 2022, 34, e2202544.	11.1	168
5	Constructing Ni-VN interfaces with superior electrocatalytic activity for alkaline hydrogen evolution reaction. <i>Journal of Colloid and Interface Science</i> , 2022, 626, 486-493.	5.0	3
6	Modulating the microenvironment structure of single Zn atom: Zn <sub>4</sub> P/C active site for boosted oxygen reduction reaction. <i>Chinese Journal of Catalysis</i> , 2022, 43, 2193-2201.	6.9	23
7	Insight into the boosted activity of TiO <sub>2</sub> -CoP composites for hydrogen evolution reaction: Accelerated mass transfer, optimized interfacial water, and promoted intrinsic activity. <i>Journal of Energy Chemistry</i> , 2022, 74, 111-120.	7.1	10
8	Molten NaCl-Assisted Synthesis of Porous Fe-N-C Electrocatalysts with a High Density of Catalytically Accessible Fe <sub>4</sub> -Active Sites and Outstanding Oxygen Reduction Reaction Performance. <i>Advanced Energy Materials</i> , 2021, 11, 2100219.	10.2	160
9	MOF-Derived Mesoporous Carbon Supporting Highly Exposed Fe Single-Atom Sites as Efficient Oxygen Reduction Reaction Catalysts. <i>Advanced Materials</i> , 2021, 33, e2101038.	11.1	327
10	Rationally Designed Ni <sub>3</sub> S <sub>2</sub> Interfaces for Efficient Overall Water Electrolysis. <i>Advanced Energy and Sustainability Research</i> , 2021, 2, 2100078.	2.8	40
11	Atomic Cation-Vacancy Engineering of NiFe-Layered Double Hydroxides for Improved Activity and Stability towards the Oxygen Evolution Reaction. <i>Angewandte Chemie</i> , 2021, 133, 24817-24824.	1.6	39
12	Atomic Cation-Vacancy Engineering of NiFe-Layered Double Hydroxides for Improved Activity and Stability towards the Oxygen Evolution Reaction. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 24612-24619.	7.2	259
13	A framework ensemble facilitates high Pt utilization in a low Pt loading fuel cell. <i>Catalysis Science and Technology</i> , 2021, 11, 2957-2963.	2.1	10
14	Improved hydrogen oxidation reaction under alkaline conditions by Au-Pt alloy nanoparticles. <i>Journal of Energy Chemistry</i> , 2020, 40, 52-56.	7.1	25
15	Recent progress of mesoscience in design of electrocatalytic materials for hydrogen energy conversion. <i>Particuology</i> , 2020, 48, 19-33.	2.0	12
16	Boosting Hydrogen Evolution Reaction of Nickel Sulfides by Introducing Nonmetallic Dopants. <i>Journal of Physical Chemistry C</i> , 2020, 124, 24223-24231.	1.5	8
17	Recent Advances in the Development of Single-Atom Catalysts for Oxygen Electrocatalysis and Zinc-Air Batteries. <i>Advanced Energy Materials</i> , 2020, 10, 2003018.	10.2	181
18	Amorphous FeO <sub>x</sub> (x = 1, 1.5) coated Cu <sub>3</sub> P nanosheets with bamboo leaves-like morphology induced by solvent molecule adsorption for highly active HER catalysts. <i>Journal of Materials Chemistry A</i> , 2020, 8, 3351-3356.	5.2	17

#	ARTICLE	IF	CITATIONS
19	Accelerated alkaline hydrogen evolution on M(OH) <sub>x</sub> /M-MoPO <sub>x</sub> (M = Ni, Co, Fe). <i>Tj ETQq1</i> 10.784314 <i>rgBT</i> <i>O</i> <i>Science</i> , 2020, 11, 2487-2493.	3.7	54
20	ZnCl <sub>2</sub> salt facilitated preparation of FeNC: Enhancing the content of active species and their exposure for highly-efficient oxygen reduction reaction. <i>Chinese Journal of Catalysis</i> , 2020, 41, 799-806.	6.9	24
21	Catalyst Engineering for Electrochemical Energy Conversion from Water to Water: Water Electrolysis and the Hydrogen Fuel Cell. <i>Engineering</i> , 2020, 6, 653-679.	3.2	75
22	Heteroatom Modification of Nanoporous Nickel Surfaces for Electrocatalytic Water Splitting. <i>ACS Applied Nano Materials</i> , 2020, 3, 11298-11306.	2.4	11
23	Frontispiece: Tuning Interfacial Structures for Better Catalysis of Water Electrolysis. <i>Chemistry - A European Journal</i> , 2019, 25, .	1.7	1
24	Self-standing FeCo Prussian blue analogue derived FeCo/C and FeCoP/C nanosheet arrays for cost-effective electrocatalytic water splitting. <i>Electrochimica Acta</i> , 2019, 302, 45-55.	2.6	80
25	Rational construction of macroporous CoFeP triangular plate arrays from bimetallic organic frameworks as high-performance overall water-splitting catalysts. <i>Journal of Materials Chemistry A</i> , 2019, 7, 17529-17535.	5.2	102
26	Enhancing Rate Performances of Carbon Based Supercapacitors. <i>ChemistrySelect</i> , 2019, 4, 6827-6832.	0.7	7
27	Controlled synthesis of single cobalt atom catalysts via a facile one-pot pyrolysis for efficient oxygen reduction and hydrogen evolution reactions. <i>Science Bulletin</i> , 2019, 64, 1095-1102.	4.3	59
28	Tuning Interfacial Structures for Better Catalysis of Water Electrolysis. <i>Chemistry - A European Journal</i> , 2019, 25, 9799-9815.	1.7	41
29	Inert V <sub>2</sub> O <sub>3</sub> oxide promotes the electrocatalytic activity of Ni metal for alkaline hydrogen evolution. <i>Chemical Communications</i> , 2019, 55, 3290-3293.	2.2	30
30	Synthesis of ammonia via electrochemical nitrogen reduction on high-index faceted Au nanoparticles with a high faradaic efficiency. <i>Chemical Communications</i> , 2019, 55, 14482-14485.	2.2	52
31	Chimney effect of the interface in metal oxide/metal composite catalysts on the hydrogen evolution reaction. <i>Applied Catalysis B: Environmental</i> , 2019, 245, 122-129.	10.8	132
32	Rationally design of monometallic NiO-Ni <sub>3</sub> S <sub>2</sub> /NF heteronanosheets as bifunctional electrocatalysts for overall water splitting. <i>Journal of Catalysis</i> , 2019, 369, 345-351.	3.1	84
33	Three-dimensional Core@Shell Co@CoMoO <sub>4</sub> nanowire arrays as efficient alkaline hydrogen evolution electro-catalysts. <i>Applied Catalysis B: Environmental</i> , 2019, 246, 41-49.	10.8	78
34	Design and synthesis of conductive carbon polyhedrons enriched with Mn-Oxide active-centres for oxygen reduction reaction. <i>Electrochimica Acta</i> , 2018, 272, 169-175.	2.6	47
35	Carbon-based catalysts by structural manipulation with iron for oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2018, 6, 8405-8412.	5.2	38
36	Role of non-metallic atoms in enhancing the catalytic activity of nickel-based compounds for hydrogen evolution reaction. <i>Chemical Science</i> , 2018, 9, 1822-1830.	3.7	46

#	ARTICLE	IF	CITATIONS
37	Preparation of Hollow Nitrogen Doped Carbon via Stresses Induced Orientation Contraction. <i>Small</i> , 2018, 14, e1804183.	5.2	83
38	Hierarchical coral-like FeNi(OH) /Ni via mild corrosion of nickel as an integrated electrode for efficient overall water splitting. <i>Chinese Journal of Catalysis</i> , 2018, 39, 1736-1745.	6.9	34
39	Formation of a thin-layer of nickel hydroxide on nickel phosphide nanopillars for hydrogen evolution. <i>Electrochemistry Communications</i> , 2018, 92, 9-13.	2.3	27
40	Recent developments in metal phosphide and sulfide electrocatalysts for oxygen evolution reaction. <i>Chinese Journal of Catalysis</i> , 2018, 39, 1575-1593.	6.9	205
41	Exploring Fe <sup>N</sup> for Peroxide Reduction: Template-Free Synthesis of Fe <sup>N</sup> Traumatized Mesoporous Carbon Nanotubes as an ORR Catalyst in Acidic and Alkaline Solutions. <i>Chemistry - A European Journal</i> , 2018, 24, 10630-10635.	1.7	79
42	Self-Assembly and Preshaping-Assisted Synthesis of Molybdenum Carbide Supported on Ultrathin Nitrogen-Doped Graphitic Carbon Lamellas for the Hydrogen Evolution Reaction. <i>ChemCatChem</i> , 2017, 9, 1588-1593.	1.8	34
43	Graphitized carbon-coated vanadium carbide nanoboscages modified by nickel with enhanced electrocatalytic activity for hydrogen evolution in both acid and alkaline solutions. <i>Journal of Materials Chemistry A</i> , 2017, 5, 23028-23034.	5.2	65
44	Dual-Ligand Synergistic Modulation: A Satisfactory Strategy for Simultaneously Improving the Activity and Stability of Oxygen Evolution Electrocatalysts. <i>ACS Catalysis</i> , 2017, 7, 8184-8191.	5.5	109
45	Monodispersed Co in Mesoporous Polyhedrons: Fine-tuning of ZIF-8 Structure with Enhanced Oxygen Reduction Activity. <i>Electrochimica Acta</i> , 2017, 251, 498-504.	2.6	91
46	Construction of a porous nitrogen-doped carbon nanotube with open-ended channels to effectively utilize the active sites for excellent oxygen reduction reaction activity. <i>Chemical Communications</i> , 2017, 53, 11426-11429.	2.2	32
47	In situ growth of RuO <sub>2</sub> @TiO <sub>2</sub> catalyst with flower-like morphologies on the Ti substrate as a binder-free integrated anode for chlorine evolution. <i>Journal of Applied Electrochemistry</i> , 2016, 46, 841-849.	1.5	27
48	Ni-doped Mo <sub>2</sub> C nanowires supported on Ni foam as a binder-free electrode for enhancing the hydrogen evolution performance. <i>Journal of Materials Chemistry A</i> , 2015, 3, 1863-1867.	5.2	234
49	Oxygen-Incorporated NiMoP <sub>2</sub> Nanowire Arrays for Enhanced Hydrogen Evolution Activity in Alkaline Solution. <i>ACS Applied Energy Materials</i> , 0, , .	2.5	6