Lili Han

List of Publications by Year in Descending Order

61 papers	5,381 citations	30 h-index	66 g-index
66 ext. papers	6,925 ext. citations	13.8 avg, IF	5.8 L-index

#	Paper	IF	Citations
61	Collective Plasmon Coupling in Gold Nanoparticle Clusters for Highly Efficient Photothermal Therapy.. *ACS Nano*, **2022**,	16.7	5
60	Multicolor Photonic Pigments for Rotation-Asymmetric Mechanochromic Devices (Adv. Mater. 4/2022). *Advanced Materials*, **2022**, 34, 2270031	24	
59	Highly Selective Oxygen Reduction to Hydrogen Peroxide on a Carbon-Supported Single-Atom Pd Electrocatalyst. *ACS Catalysis*, **2022**, 12, 4156-4164	13.1	4
58	A single-atom library for guided monometallic and concentration-complex multimetallic designs. *Nature Materials*, **2022**, 21, 681-688	27	15
57	Nitrogen-Doped Rhombohedral Ordered Intermetallic Nanocatalyst Boosts the Oxygen Reduction Reaction. *ECS Meeting Abstracts*, **2021**, MA2021-02, 1166-1166	0	
56	Probing Activities of Individual Catalytic Nanoflakes by Tunneling Mode of Scanning Electrochemical Microscopy. *Journal of Physical Chemistry C*, **2021**, 125, 25525-25532	3.8	2
55	Multicolor Photonic Pigments for Rotation-Asymmetric Mechanochromic Devices. *Advanced Materials*, **2021**, e2107398	24	5
54	Local Modulation of Single-Atomic Mn Sites for Enhanced Ambient Ammonia Electrosynthesis. *ACS Catalysis*, **2021**, 11, 509-516	13.1	37
53	Modification of the Coordination Environment of Active Sites on MoC for High-Efficiency CH4 Production. *Advanced Energy Materials*, **2021**, 11, 2100044	21.8	8
52	Resolving atomic-scale phase transformation and oxygen loss mechanism in ultrahigh-nickel layered cathodes for cobalt-free lithium-ion batteries. *Matter*, **2021**, 4, 2013-2026	12.7	20
51	Modulating Single-Atom Palladium Sites with Copper for Enhanced Ambient Ammonia Electrosynthesis. *Angewandte Chemie*, **2021**, 133, 349-354	3.6	19
50	Polarization-Modulated Multidirectional Photothermal Actuators. *Advanced Materials*, **2021**, 33, e2006367	24	15
49	Rhombohedral Ordered Intermetallic Nanocatalyst Boosts the Oxygen Reduction Reaction. *ACS Catalysis*, **2021**, 11, 184-192	13.1	19
48	Modulating Single-Atom Palladium Sites with Copper for Enhanced Ambient Ammonia Electrosynthesis. *Angewandte Chemie - International Edition*, **2021**, 60, 345-350	16.4	57
47	Atomically Isolated Rh Sites within Highly Branched Rh Sb Nanostructures Enhance Bifunctional Hydrogen Electrocatalysis. *Advanced Materials*, **2021**, 33, e2105049	24	8
46	Creating compressive stress at the NiOOH/NiO interface for water oxidation. *Journal of Materials Chemistry A*, **2020**, 8, 10747-10754	13	20
45	Stable and Efficient Single-Atom Zn Catalyst for CO Reduction to CH. *Journal of the American Chemical Society*, **2020**, 142, 12563-12567	16.4	188

44	Ligand-Assisted Solid-State Transformation of Nanoparticles. *Chemistry of Materials*, **2020**, 32, 3271-3277	9.6	6
43	FeMo sub-nanoclusters/single atoms for neutral ammonia electrosynthesis. *Nano Energy*, **2020**, 77, 105078	17.1	25
42	Optimizing electron density of nickel sulfide electrocatalysts through sulfur vacancy engineering for alkaline hydrogen evolution. *Journal of Materials Chemistry A*, **2020**, 8, 18207-18214	13	18
41	Trifunctional Single-Atomic Ru Sites Enable Efficient Overall Water Splitting and Oxygen Reduction in Acidic Media. *Small*, **2020**, 16, e2002888	11	55
40	Modulation of Single-Atom Metal Sites for Enhanced Ambient Ammonia Electrosynthesis. *Microscopy and Microanalysis*, **2020**, 26, 2794-2796	0.5	1
39	Conversion of CO2 on a highly active and stable Cu/FeOx/CeO2 catalyst: tuning catalytic performance by oxide-oxide interactions. *Catalysis Science and Technology*, **2019**, 9, 3735-3742	5.5	18
38	Nitrogen-coordinated single Fe sites for efficient electrocatalytic N2 fixation in neutral media. *Nano Energy*, **2019**, 61, 420-427	17.1	198
37	Electrocatalysis: Well-Dispersed Nickel- and Zinc-Tailored Electronic Structure of a Transition Metal Oxide for Highly Active Alkaline Hydrogen Evolution Reaction (Adv. Mater. 16/2019). *Advanced Materials*, **2019**, 31, 1970113	24	2
36	Well-Dispersed Nickel- and Zinc-Tailored Electronic Structure of a Transition Metal Oxide for Highly Active Alkaline Hydrogen Evolution Reaction. *Advanced Materials*, **2019**, 31, e1807771	24	149
35	One-Nanometer-Thick Pt3Ni Bimetallic Alloy Nanowires Advanced Oxygen Reduction Reaction: Integrating Multiple Advantages into One Catalyst. *ACS Catalysis*, **2019**, 9, 4488-4494	13.1	80
34	Fluorine-Anion-Modulated Electron Structure of Nickel Sulfide Nanosheet Arrays for Alkaline Hydrogen Evolution. *ACS Energy Letters*, **2019**, 4, 2905-2912	20.1	82
33	TEM-Assisted Fabrication of Sub-10 nm Scanning Electrochemical Microscopy Tips. *Analytical Chemistry*, **2019**, 91, 15355-15359	7.8	11
32	Amorphization activated ruthenium-tellurium nanorods for efficient water splitting. *Nature Communications*, **2019**, 10, 5692	17.4	130
31	Innenrücktitelbild: Atomically Dispersed Molybdenum Catalysts for Efficient Ambient Nitrogen Fixation (Angew. Chem. 8/2019). *Angewandte Chemie*, **2019**, 131, 2547-2547	3.6	7
30	A welding phenomenon of dissimilar nanoparticles in dispersion. *Nature Communications*, **2019**, 10, 219	17.4	11
29	Atomically Dispersed Molybdenum Catalysts for Efficient Ambient Nitrogen Fixation. *Angewandte Chemie - International Edition*, **2019**, 58, 2321-2325	16.4	380
28	Atomically Dispersed Molybdenum Catalysts for Efficient Ambient Nitrogen Fixation. *Angewandte Chemie*, **2019**, 131, 2343-2347	3.6	63
27	Oxygen Release Induced Chemomechanical Breakdown of Layered Cathode Materials. *Nano Letters* , **2018**, 18, 3241-3249	11.5	163

26	R□ktitelbild: Integration of Plasmonic Effects and Schottky Junctions into Metal□Organic Framework Composites: Steering Charge Flow for Enhanced Visible-Light Photocatalysis (Angew. Chem. 4/2018). *Angewandte Chemie*, **2018**, 130, 1132-1132	3.6	1
25	Theory-driven design of high-valence metal sites for water oxidation confirmed using in situ soft X-ray absorption. *Nature Chemistry*, **2018**, 10, 149-154	17.6	328
24	Integration of Plasmonic Effects and Schottky Junctions into Metal□Organic Framework Composites: Steering Charge Flow for Enhanced Visible-Light Photocatalysis. *Angewandte Chemie*, **2018**, 130, 1115-1119	3.6	26
23	Integration of Plasmonic Effects and Schottky Junctions into Metal-Organic Framework Composites: Steering Charge Flow for Enhanced Visible-Light Photocatalysis. *Angewandte Chemie - International Edition*, **2018**, 57, 1103-1107	16.4	296
22	Zinc-Blende CdS Nanocubes with Coordinated Facets for Photocatalytic Water Splitting. *ACS Catalysis*, **2017**, 7, 1470-1477	13.1	56
21	A New Anion Receptor for Improving the Interface between Lithium- and Manganese-Rich Layered Oxide Cathode and the Electrolyte. *Chemistry of Materials*, **2017**, 29, 2141-2149	9.6	31
20	A general approach for the direct fabrication of metal oxide-based electrocatalysts for efficient bifunctional oxygen electrodes. *Sustainable Energy and Fuels*, **2017**, 1, 823-831	5.8	23
19	R□ktitelbild: Potential-Cycling Synthesis of Single Platinum Atoms for Efficient Hydrogen Evolution in Neutral Media (Angew. Chem. 44/2017). *Angewandte Chemie*, **2017**, 129, 14088-14088	3.6	
18	Efficient and stable electroreduction of CO2 to CH4 on CuS nanosheet arrays. *Journal of Materials Chemistry A*, **2017**, 5, 20239-20243	13	86
17	Potential-Cycling Synthesis of Single Platinum Atoms for Efficient Hydrogen Evolution in Neutral Media. *Angewandte Chemie*, **2017**, 129, 13882-13886	3.6	33
16	Potential-Cycling Synthesis of Single Platinum Atoms for Efficient Hydrogen Evolution in Neutral Media. *Angewandte Chemie - International Edition*, **2017**, 56, 13694-13698	16.4	326
15	Detection of magnetic circular dichroism in amorphous materials utilizing a single-crystalline overlayer **2016**, 929-930		
14	Surface patterning of nanoparticles with polymer patches. *Nature*, **2016**, 538, 79-83	50.4	196
13	Increasing the Dimensionality of In-situ Electron Microscopy Data Sets by On-the-fly and Analytical Electron Tomography. *Microscopy and Microanalysis*, **2016**, 22, 724-725	0.5	1
12	Solution-Processable Glass LiI-Li4 SnS4 Superionic Conductors for All-Solid-State Li-Ion Batteries. *Advanced Materials*, **2016**, 28, 1874-83	24	214
11	Hollow-Structured Carbon-Supported Nickel Cobaltite Nanoparticles as an Efficient Bifunctional Electrocatalyst for the Oxygen Reduction and Evolution Reactions. *ChemCatChem*, **2016**, 8, 736-742	5.2	55
10	Supramolecular gel-assisted synthesis of double shelled Co@CoO@N-C/C nanoparticles with synergistic electrocatalytic activity for the oxygen reduction reaction. *Nanoscale*, **2016**, 8, 4681-7	7.7	67
9	Facet Control of Gold Nanorods. *ACS Nano*, **2016**, 10, 2960-74	16.7	87

8	Homogeneously dispersed multimetal oxygen-evolving catalysts. *Science*, **2016**, 352, 333-7	33.3	1459
7	Nitrogen and sulfur co-doping of partially exfoliated MWCNTs as 3-D structured electrocatalysts for the oxygen reduction reaction. *Journal of Materials Chemistry A*, **2016**, 4, 5678-5684	13	56
6	Three-dimensional hollow-structured binary oxide particles as an advanced anode material for high-rate and long cycle life lithium-ion batteries. *Nano Energy*, **2016**, 20, 212-220	17.1	44
5	Interrogation of bimetallic particle oxidation in three dimensions at the nanoscale. *Nature Communications*, **2016**, 7, 13335	17.4	46
4	Explore the Effects of Microstructural Defects on Voltage Fade of Li- and Mn-Rich Cathodes. *Nano Letters*, **2016**, 16, 5999-6007	11.5	55
3	Enhanced electrocatalytic activity and stability of Pd3V/C nanoparticles with a trace amount of Pt decoration for the oxygen reduction reaction. *Journal of Materials Chemistry A*, **2015**, 3, 20966-20972	13	10
2	Structurally ordered PtZn/C series nanoparticles as efficient anode catalysts for formic acid electrooxidation. *Journal of Materials Chemistry A*, **2015**, 3, 22129-22135	13	40
1	Toward 5D Imaging in an In-Situ Environmental TEM. *Microscopy and Microanalysis*, **2015**, 21, 795-796	0.5	