

# Xiao Shang

## List of Publications by Year in descending order

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66  
papers

4,480  
citations

61945

43  
h-index

102432

66  
g-index

66  
all docs

66  
docs citations

66  
times ranked

4817  
citing authors

#	ARTICLE	IF	CITATIONS
1	Flexible on-site halogenation paired with hydrogenation using halide electrolysis. <i>Green Chemistry</i> , 2021, 23, 2037-2043.	4.6	10
2	Electrohydrodimerization of biomass-derived furfural generates a jet fuel precursor. <i>Green Chemistry</i> , 2020, 22, 5395-5401.	4.6	38
3	Recent advances of nonprecious and bifunctional electrocatalysts for overall water splitting. <i>Sustainable Energy and Fuels</i> , 2020, 4, 3211-3228.	2.5	63
4	Modulation of Inverse Spinel Fe <sub>3</sub> O <sub>4</sub> by Phosphorus Doping as an Industrially Promising Electrocatalyst for Hydrogen Evolution. <i>Advanced Materials</i> , 2019, 31, e1905107.	11.1	225
5	Tungsten-doped Ni-Co phosphides with multiple catalytic sites as efficient electrocatalysts for overall water splitting. <i>Journal of Materials Chemistry A</i> , 2019, 7, 16859-16866.	5.2	144
6	In situ formation of ultrathin C <sub>3</sub> N <sub>4</sub> layers on metallic WO <sub>2</sub> nanorods for efficient hydrogen evolution. <i>Applied Surface Science</i> , 2019, 487, 945-950.	3.1	20
7	Tuning the morphology and Fe/Ni ratio of a bimetallic Fe-Ni-S film supported on nickel foam for optimized electrolytic water splitting. <i>Journal of Colloid and Interface Science</i> , 2018, 523, 121-132.	5.0	48
8	Ni-Se nanostructures dependent on different solvent as efficient electrocatalysts for hydrogen evolution reaction in alkaline media. <i>Materials Chemistry and Physics</i> , 2018, 207, 389-395.	2.0	16
9	Heterostructured binary Ni-W sulfides nanosheets as pH-universal electrocatalyst for hydrogen evolution. <i>Applied Surface Science</i> , 2018, 445, 445-453.	3.1	32
10	Triple Ni-Co-Mo metal sulfides with one-dimensional and hierarchical nanostructures towards highly efficient hydrogen evolution reaction. <i>Journal of Catalysis</i> , 2018, 361, 204-213.	3.1	115
11	Optimized expanding of interlayer distance for molybdenum disulfide towards enhanced hydrogen evolution reaction. <i>Applied Surface Science</i> , 2018, 428, 948-953.	3.1	10
12	Ripple-like NiFeCo sulfides on nickel foam derived from in-situ sulfurization of precursor oxides as efficient anodes for water oxidation. <i>Applied Surface Science</i> , 2018, 428, 370-376.	3.1	24
13	Electrochemical Corrosion Engineering for Ni-Fe Oxides with Superior Activity toward Water Oxidation. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 42217-42224.	4.0	38
14	Heterointerface engineering of trilayer-shelled ultrathin MoS <sub>2</sub> /MoP/N-doped carbon hollow nanobubbles for efficient hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2018, 6, 24783-24792.	5.2	79
15	Pt-C Interfaces Based on Electronegativity-Functionalized Hollow Carbon Spheres for Highly Efficient Hydrogen Evolution. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 43561-43569.	4.0	32
16	Microwave annealing promoted in-situ electrochemical activation of Ni <sub>3</sub> S <sub>2</sub> nanowires for water electrolysis. <i>Journal of Catalysis</i> , 2018, 368, 112-119.	3.1	15
17	In-situ electrochemical activation designed hybrid electrocatalysts for water electrolysis. <i>Science Bulletin</i> , 2018, 63, 853-876.	4.3	107
18	Electrodeposited MoS <sub>x</sub> films assisted by liquid crystal template with ultrahigh electrocatalytic activity for hydrogen evolution reaction. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 5132-5138.	3.8	78

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19	Facile synthesis of pyrite-type binary nickel iron diselenides as efficient electrocatalyst for oxygen evolution reaction. <i>Applied Surface Science</i> , 2017, 401, 17-24.	3.1	63
20	Oxidized carbon fiber supported vertical WS <sub>2</sub> nanosheets arrays as efficient 3 D nanostructure electrocatalysts for hydrogen evolution reaction. <i>Applied Surface Science</i> , 2017, 402, 120-128.	3.1	68
21	Electrodeposition-Solvothermal Access to Ternary Mixed Metal Ni-Co-Fe Sulfides for Highly Efficient Electrocatalytic Water Oxidation in Alkaline Media. <i>Electrochimica Acta</i> , 2017, 230, 151-159.	2.6	54
22	Solvothermal access to rich nitrogen-doped molybdenum carbide nanowires as efficient electrocatalyst for hydrogen evolution reaction. <i>Journal of Alloys and Compounds</i> , 2017, 714, 26-34.	2.8	34
23	Ternary mixed metal Fe-doped NiCo <sub>2</sub> O <sub>4</sub> nanowires as efficient electrocatalysts for oxygen evolution reaction. <i>Applied Surface Science</i> , 2017, 416, 371-378.	3.1	98
24	Ternary MnO <sub>2</sub> /NiCo <sub>2</sub> O <sub>4</sub> /NF with hierarchical structure and synergistic interaction as efficient electrocatalysts for oxygen evolution reaction. <i>Journal of Alloys and Compounds</i> , 2017, 719, 314-321.	2.8	57
25	In situ cathodic activation of V-incorporated Ni <sub>x</sub> S <sub>y</sub> nanowires for enhanced hydrogen evolution. <i>Nanoscale</i> , 2017, 9, 12353-12363.	2.8	143
26	Novel WS <sub>2</sub> /WO <sub>3</sub> heterostructured nanosheets as efficient electrocatalyst for hydrogen evolution reaction. <i>Materials Chemistry and Physics</i> , 2017, 197, 123-128.	2.0	59
27	Ternary CoS <sub>2</sub> /MoS <sub>2</sub> /RGO electrocatalyst with CoMoS phase for efficient hydrogen evolution. <i>Applied Surface Science</i> , 2017, 412, 138-145.	3.1	84
28	Oriented Stacking along Vertical (002) Planes of MoS <sub>2</sub> : A Novel Assembling Style to Enhance Activity for Hydrogen Evolution. <i>Electrochimica Acta</i> , 2017, 224, 25-31.	2.6	116
29	In situ sulfurized CoMoS/CoMoO <sub>4</sub> shell-core nanorods supported on N-doped reduced graphene oxide (NRGO) as efficient electrocatalyst for hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2017, 5, 2885-2896.	5.2	91
30	Ternary Ni-Fe-V sulfides bundles on nickel foam as free-standing hydrogen evolution electrodes in alkaline medium. <i>Electrochimica Acta</i> , 2017, 256, 241-251.	2.6	20
31	Hierarchically three-level Ni <sub>3</sub> (VO <sub>4</sub> ) <sub>2</sub> @NiCo <sub>2</sub> O <sub>4</sub> nanostructure based on nickel foam towards highly efficient alkaline hydrogen evolution. <i>Electrochimica Acta</i> , 2017, 256, 100-109.	2.6	45
32	Nitrogen-doped oxidized carbon fiber as metal-free electrode towards highly efficient water oxidation. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 28287-28297.	3.8	13
33	Coupling Ag-doping and rich oxygen vacancies in mesoporous NiCoO nanorods supported on nickel foam for highly efficient oxygen evolution. <i>Inorganic Chemistry Frontiers</i> , 2017, 4, 1783-1790.	3.0	34
34	A facile method for reduced CoFe <sub>2</sub> O <sub>4</sub> nanosheets with rich oxygen vacancies for efficient oxygen evolution reaction. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 24150-24158.	3.8	56
35	Mo <sub>2</sub> C@NC@MoS <sub>x</sub> porous nanospheres with sandwich shell based on MoO <sub>4</sub> <sup>2-</sup> -polymer precursor for efficient hydrogen evolution in both acidic and alkaline media. <i>Carbon</i> , 2017, 124, 555-564.	5.4	57
36	Controlling electrodeposited ultrathin amorphous Fe hydroxides film on V-doped nickel sulfide nanowires as efficient electrocatalyst for water oxidation. <i>Journal of Power Sources</i> , 2017, 363, 44-53.	4.0	109

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37	Vanadium sulfides interwoven nanoflowers based on in-situ sulfurization of vanadium oxides octahedron on nickel foam for efficient hydrogen evolution. <i>Applied Surface Science</i> , 2017, 423, 1090-1096.	3.1	20
38	Trimetallic Ni Fe Co selenides nanoparticles supported on carbon fiber cloth as efficient electrocatalyst for oxygen evolution reaction. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 20599-20607.	3.8	133
39	Boosting Electrocatalytic Activity of Binary Ag-Fe-doped Co <sub>2</sub> P Nanospheres as Bifunctional Electrocatalysts for Overall Water Splitting. <i>Electrochimica Acta</i> , 2017, 249, 16-25.	2.6	23
40	Binary metal Fe <sub>0.5</sub> Co <sub>0.5</sub> Se <sub>2</sub> spheres supported on carbon fiber cloth for efficient oxygen evolution reaction. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 15189-15195.	3.8	30
41	Facile synthesis of binary NiCoS nanorods supported on nickel foam as efficient electrocatalysts for oxygen evolution reaction. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 17129-17135.	3.8	50
42	Electrodeposited hybrid Ni@P/MoS <sub>x</sub> film as efficient electrocatalyst for hydrogen evolution in alkaline media. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 2952-2960.	3.8	87
43	Activating MoS <sub>2</sub> /CNs by tuning (001) plane as efficient electrocatalysts for hydrogen evolution reaction. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 2088-2095.	3.8	75
44	Novel CoxSy/WS <sub>2</sub> nanosheets supported on carbon cloth as efficient electrocatalyst for hydrogen evolution reaction. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 4165-4173.	3.8	78
45	Template-assisted synthesis of highly dispersed MoS <sub>2</sub> nanosheets with enhanced activity for hydrogen evolution reaction. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 2054-2060.	3.8	40
46	Tuning crystal phase of NiS <sub>x</sub> through electro-oxidized nickel foam: A novel route for preparing efficient electrocatalysts for oxygen evolution reaction. <i>Applied Surface Science</i> , 2017, 396, 1034-1043.	3.1	57
47	Carbon fiber cloth supported interwoven WS <sub>2</sub> nanosplates with highly enhanced performances for supercapacitors. <i>Applied Surface Science</i> , 2017, 392, 708-714.	3.1	78
48	Structure–function relationship of electrodeposited MoS <sub>x</sub> film in N, N-dimethyl-formamide/H <sub>2</sub> O mixture solvent as electrocatalyst for hydrogen evolution. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 1635-1644.	3.8	10
49	Controllable synthesis of three dimensional electrodeposited Co@P nanosphere arrays as efficient electrocatalysts for overall water splitting. <i>RSC Advances</i> , 2016, 6, 52761-52771.	1.7	51
50	In situ growth of Ni <sub>x</sub> S <sub>y</sub> controlled by surface treatment of nickel foam as efficient electrocatalyst for oxygen evolution reaction. <i>Applied Surface Science</i> , 2016, 378, 15-21.	3.1	61
51	In situ Grown Pyramid Structures of Nickel Diselenides Dependent on Oxidized Nickel Foam as Efficient Electrocatalyst for Oxygen Evolution Reaction. <i>Electrochimica Acta</i> , 2016, 205, 77-84.	2.6	96
52	One-pot synthesis of hierarchical Ni <sub>2</sub> P/MoS <sub>2</sub> hybrid electrocatalysts with enhanced activity for hydrogen evolution reaction. <i>Applied Surface Science</i> , 2016, 383, 276-282.	3.1	81
53	Facile one-pot synthesis of CoS <sub>2</sub> -MoS <sub>2</sub> /CNTs as efficient electrocatalyst for hydrogen evolution reaction. <i>Applied Surface Science</i> , 2016, 384, 51-57.	3.1	121
54	Self-sacrificial template method of Mo <sub>3</sub> O <sub>10</sub> (C <sub>6</sub> H <sub>8</sub> N) <sub>2</sub> ·2H <sub>2</sub> O to fabricate MoS <sub>2</sub> /carbon-doped MoO <sub>2</sub> nanobelts as efficient electrocatalysts for hydrogen evolution reaction. <i>Electrochimica Acta</i> , 2016, 216, 397-404.	2.6	26

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55	Two-step synthesis of binary Ni-Fe sulfides supported on nickel foam as highly efficient electrocatalysts for the oxygen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2016, 4, 13499-13508.	5.2	250
56	NiSe@NiOOH Core-Shell Hyacinth-like Nanostructures on Nickel Foam Synthesized by in Situ Electrochemical Oxidation as an Efficient Electrocatalyst for the Oxygen Evolution Reaction. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 20057-20066.	4.0	221
57	Electrochemically activated NiSe-Ni <sub>x</sub> S <sub>y</sub> hybrid nanorods as efficient electrocatalysts for oxygen evolution reaction. <i>Electrochimica Acta</i> , 2016, 220, 536-544.	2.6	60
58	Novel CoP Hollow Prisms as Bifunctional Electrocatalysts for Hydrogen Evolution Reaction in Acid media and Overall Water-splitting in Basic media. <i>Electrochimica Acta</i> , 2016, 220, 98-106.	2.6	64
59	A facile synthesis of reduced Co <sub>3</sub> O <sub>4</sub> nanoparticles with enhanced Electrocatalytic activity for oxygen evolution. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 12976-12982.	3.8	56
60	Crystalline phase-function relationship of in situ growth Ni <sub>x</sub> S <sub>y</sub> controlled by sulfuration degree for oxygen evolution reaction. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 13032-13038.	3.8	12
61	Facile synthesis of novel NiSe-Ni <sub>x</sub> S <sub>y</sub> nanocubes supported on nickel foam with enhanced activity for hydrazine electrooxidation. <i>Materials Letters</i> , 2016, 175, 118-121.	1.3	10
62	Self-sacrificial template method to MnO <sub>2</sub> microspheres as highly efficient electrocatalyst for oxygen evolution reaction. <i>Journal of Solid State Electrochemistry</i> , 2016, 20, 2907-2912.	1.2	15
63	MoS <sub>x</sub> supported graphene oxides with different degree of oxidation as efficient electrocatalysts for hydrogen evolution. <i>Carbon</i> , 2016, 100, 236-242.	5.4	103
64	Effect of pH on the growth of MoS <sub>2</sub> (002) plane and electrocatalytic activity for HER. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 294-299.	3.8	99
65	Crystallographic Structure and Morphology Transformation of MnO <sub>2</sub> Nanorods as Efficient Electrocatalysts for Oxygen Evolution Reaction. <i>Journal of the Electrochemical Society</i> , 2016, 163, H67-H73.	1.3	72
66	Three dimensional nickel oxides/nickel structure by in situ electro-oxidation of nickel foam as robust electrocatalyst for oxygen evolution reaction. <i>Applied Surface Science</i> , 2015, 359, 172-176.	3.1	106