

# Shuai Hao

## List of Publications by Year in descending order

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58  
papers

5,651  
citations

87723

38  
h-index

143772

57  
g-index

58  
all docs

58  
docs citations

58  
times ranked

6220  
citing authors

#	ARTICLE	IF	CITATIONS
1	Energy-Saving Electrolytic Hydrogen Generation: Ni <sub>2</sub> P Nanoarray as a High-Performance Non-Noble-Metal Electrocatalyst. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 842-846.	7.2	668
2	Enhanced Electrocatalysis for Energy-Efficient Hydrogen Production over CoP Catalyst with Nonelectroactive Zn as a Promoter. <i>Advanced Energy Materials</i> , 2017, 7, 1700020.	10.2	519
3	Mn Doping of CoP Nanosheets Array: An Efficient Electrocatalyst for Hydrogen Evolution Reaction with Enhanced Activity at All pH Values. <i>ACS Catalysis</i> , 2017, 7, 98-102.	5.5	461
4	High-Performance Electrolytic Oxygen Evolution in Neutral Media Catalyzed by a Cobalt Phosphate Nanoarray. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 1064-1068.	7.2	348
5	In Situ Derived Co <sub>2</sub> B Nanoarray: A High-Efficiency and Durable 3D Bifunctional Electrocatalyst for Overall Alkaline Water Splitting. <i>Small</i> , 2017, 13, 1700805.	5.2	293
6	Selective phosphidation: an effective strategy toward CoP/CeO <sub>2</sub> interface engineering for superior alkaline hydrogen evolution electrocatalysis. <i>Journal of Materials Chemistry A</i> , 2018, 6, 1985-1990.	5.2	212
7	In situ formation of a 3D core/shell structured Ni <sub>3</sub> N@Ni-Bi nanosheet array: an efficient non-noble-metal bifunctional electrocatalyst toward full water splitting under near-neutral conditions. <i>Journal of Materials Chemistry A</i> , 2017, 5, 7806-7810.	5.2	196
8	Copper-Nitride Nanowires Array: An Efficient Dual-Functional Catalyst Electrode for Sensitive and Selective Enzymatic Glucose and Hydrogen Peroxide Sensing. <i>Chemistry - A European Journal</i> , 2017, 23, 4986-4989.	1.7	140
9	Energy-Saving Electrolytic Hydrogen Generation: Ni <sub>2</sub> P Nanoarray as a High-Performance Non-Noble-Metal Electrocatalyst. <i>Angewandte Chemie</i> , 2017, 129, 860-864.	1.6	140
10	Integrating natural biomass electro-oxidation and hydrogen evolution: using a porous Fe-doped CoP nanosheet array as a bifunctional catalyst. <i>Chemical Communications</i> , 2017, 53, 5710-5713.	2.2	138
11	NiCoP Nanoarray: A Superior Pseudocapacitor Electrode with High Areal Capacitance. <i>Chemistry - A European Journal</i> , 2017, 23, 4435-4441.	1.7	134
12	An amorphous FeMoS <sub>4</sub> nanorod array toward efficient hydrogen evolution electrocatalysis under neutral conditions. <i>Chemical Communications</i> , 2017, 53, 9000-9003.	2.2	124
13	Well-aligned MXene/chitosan films with humidity response for high-performance electromagnetic interference shielding. <i>Carbohydrate Polymers</i> , 2020, 243, 116467.	5.1	118
14	Fe <sub>3</sub> N@Co <sub>2</sub> N Nanowires Array: A Non-Noble-Metal Bifunctional Catalyst Electrode for High-Performance Glucose Oxidation and H <sub>2</sub> O <sub>2</sub> Reduction toward Enzymatic Sensing Applications. <i>Chemistry - A European Journal</i> , 2017, 23, 5214-5218.	1.7	117
15	Energy-efficient electrolytic hydrogen generation using a Cu <sub>3</sub> P nanoarray as a bifunctional catalyst for hydrazine oxidation and water reduction. <i>Inorganic Chemistry Frontiers</i> , 2017, 4, 420-423.	3.0	101
16	Ternary NiCoP nanosheet array on a Ti mesh: a high-performance electrochemical sensor for glucose detection. <i>Chemical Communications</i> , 2016, 52, 14438-14441.	2.2	98
17	Bimetallic Nickel-Substituted Cobalt-Borate Nanowire Array: An Earth-Abundant Water Oxidation Electrocatalyst with Superior Activity and Durability at Near Neutral pH. <i>Small</i> , 2017, 13, 1700394.	5.2	95
18	N-Doped carbon dots: a metal-free co-catalyst on hematite nanorod arrays toward efficient photoelectrochemical water oxidation. <i>Inorganic Chemistry Frontiers</i> , 2017, 4, 537-540.	3.0	86

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19	In situ electrochemical surface derivation of cobalt phosphate from a $\text{Co}(\text{CO}_3)_{0.5}(\text{OH})_{0.11}\text{H}_2\text{O}$ nanoarray for efficient water oxidation in neutral aqueous solution. <i>Nanoscale</i> , 2017, 9, 3752-3756.	2.8	82
20	A nickel-borate nanoarray: a highly active 3D oxygen-evolving catalyst electrode operating in near-neutral water. <i>Chemical Communications</i> , 2017, 53, 3070-3073.	2.2	79
21	A cobalt-borate nanosheet array: an efficient and durable non-noble-metal electrocatalyst for water oxidation at near neutral pH. <i>Journal of Materials Chemistry A</i> , 2017, 5, 7305-7308.	5.2	79
22	A self-supported amorphous Ni-P alloy on a CuO nanowire array: an efficient 3D electrode catalyst for water splitting in alkaline media. <i>Chemical Communications</i> , 2018, 54, 2393-2396.	2.2	77
23	Dual functions of gradient phosphate polyanion doping on improving the electrochemical performance of Ni-rich $\text{LiNi}_{0.6}\text{Co}_{0.2}\text{Mn}_{0.2}\text{O}_2$ cathode at high cut-off voltage and high temperature. <i>Electrochimica Acta</i> , 2019, 299, 971-978.	2.6	76
24	Hydrazine-assisted electrolytic hydrogen production: $\text{CoS}_2$ nanoarray as a superior bifunctional electrocatalyst. <i>New Journal of Chemistry</i> , 2017, 41, 4754-4757.	1.4	70
25	Facilitating Active Species Generation by Amorphous NiFe Layer Formation on NiFeLDH Nanoarray for Efficient Electrocatalytic Oxygen Evolution at Alkaline pH. <i>Chemistry - A European Journal</i> , 2017, 23, 11499-11503.	1.7	69
26	An anisotropic layer-by-layer carbon nanotube/boron nitride/rubber composite and its application in electromagnetic shielding. <i>Nanoscale</i> , 2020, 12, 7782-7791.	2.8	68
27	Multifunctional Integration of Double-Shell Hybrid Nanostructure for Alleviating Surface Degradation of $\text{LiNi}_{0.8}\text{Co}_{0.1}\text{Mn}_{0.1}\text{O}_2$ Cathode for Advanced Lithium-Ion Batteries at High Cutoff Voltage. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 9268-9276.	4.0	66
28	High-Performance Electrolytic Oxygen Evolution in Neutral Media Catalyzed by a Cobalt Phosphate Nanoarray. <i>Angewandte Chemie</i> , 2017, 129, 1084-1088.	1.6	65
29	$\text{NiS}_2$ nanosheet array: A high-active bifunctional electrocatalyst for hydrazine oxidation and water reduction toward energy-efficient hydrogen production. <i>Materials Today Energy</i> , 2017, 3, 9-14.	2.5	63
30	Enhancing the Electrochemical Performance of Ni-Rich Layered Oxide Cathodes by Combination of the Gradient Doping and Dual-Conductive Layers Coating. <i>ACS Applied Energy Materials</i> , 2019, 2, 3120-3130.	2.5	59
31	Core-shell $\text{CoFe}_2\text{O}_4 @ \text{CoFeBi}$ nanoarray: a surface-amorphization water oxidation catalyst operating at near-neutral pH. <i>Nanoscale</i> , 2017, 9, 7714-7718.	2.8	55
32	High-Efficiency and Durable Water Oxidation under Mild pH Conditions: An Iron Phosphate-Borate Nanosheet Array as a Non-Noble-Metal Catalyst Electrode. <i>Inorganic Chemistry</i> , 2017, 56, 3131-3135.	1.9	51
33	Surface Amorphization: A Simple and Effective Strategy toward Boosting the Electrocatalytic Activity for Alkaline Water Oxidation. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 8518-8522.	3.2	51
34	In situ development of amorphous Mn-Co-P shell on $\text{MnCo}_2\text{O}_4$ nanowire array for superior oxygen evolution electrocatalysis in alkaline media. <i>Chemical Communications</i> , 2018, 54, 1077-1080.	2.2	49
35	Self-templating Construction of Hollow Amorphous $\text{CoMoS}_4$ Nanotube Array towards Efficient Hydrogen Evolution Electrocatalysis at Neutral pH. <i>Chemistry - A European Journal</i> , 2017, 23, 12718-12723.	1.7	48
36	A nickel-borate-phosphate nanoarray for efficient and durable water oxidation under benign conditions. <i>Inorganic Chemistry Frontiers</i> , 2017, 4, 840-844.	3.0	46

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37	Topotactic Conversion of $\text{Fe}_2\text{O}_3$ Nanowires into FeP as a Superior Fluorosensor for Nucleic Acid Detection: Insights from Experiment and Theory. <i>Analytical Chemistry</i> , 2017, 89, 2191-2195.	3.2	44
38	Three-Dimensional Nickel-Borate Nanosheets Array for Efficient Oxygen Evolution at Near-Neutral pH. <i>Chemistry - A European Journal</i> , 2017, 23, 6959-6963.	1.7	43
39	Enhancing surface stability of $\text{LiNi}_0.8\text{Co}_0.1\text{Mn}_0.1\text{O}_2$ cathode with hybrid core-shell nanostructure induced by high-valent titanium ions for Li-ion batteries at high cut-off voltage. <i>Journal of Alloys and Compounds</i> , 2020, 834, 155099.	2.8	41
40	High sensitivity of multi-sensing materials based on reduced graphene oxide and natural rubber: The synergy between filler segregation and macro-porous morphology. <i>Composites Science and Technology</i> , 2021, 205, 108689.	3.8	41
41	Water splitting in near-neutral media: using an Mn-Co-based nanowire array as a complementary electrocatalyst. <i>Journal of Materials Chemistry A</i> , 2017, 5, 12091-12095.	5.2	36
42	Remarkable enhancement of the alkaline oxygen evolution reaction activity of $\text{NiCo}_2\text{O}_4$ by an amorphous borate shell. <i>Inorganic Chemistry Frontiers</i> , 2017, 4, 1546-1550.	3.0	34
43	Core-Shell Structured $\text{NiS}_2 @ \text{Ni}_3\text{B}$ Nanoarray for Efficient Water Oxidation at Near-Neutral pH. <i>ChemCatChem</i> , 2017, 9, 3138-3143.	1.8	32
44	$\text{Co}_3\text{O}_4$ Nanowire Arrays toward Superior Water Oxidation Electrocatalysis in Alkaline Media by Surface Amorphization. <i>Chemistry - A European Journal</i> , 2017, 23, 15601-15606.	1.7	29
45	Constructing 3D Graphene Network in Rubber Nanocomposite via Liquid-Phase Redispersion and Self-Assembly. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 9682-9692.	4.0	29
46	Electrochemical Hydrazine Oxidation Catalyzed by Iron Phosphide Nanosheets Array toward Energy-Efficient Electrolytic Hydrogen Production from Water. <i>ChemistrySelect</i> , 2017, 2, 3401-3407.	0.7	28
47	Simultaneous reduction and surface functionalization of graphene oxide by cystamine dihydrochloride for rubber composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2019, 122, 18-26.	3.8	23
48	Efficient alkaline hydrogen evolution electrocatalysis enabled by an amorphous $\text{CoMoB}$ film. <i>Dalton Transactions</i> , 2018, 47, 7640-7643.	1.6	20
49	Full water splitting by a nanoporous $\text{CeO}_2$ nanowire array under alkaline conditions. <i>Inorganic Chemistry Frontiers</i> , 2020, 7, 2533-2537.	3.0	20
50	Self-supported spinel $\text{FeCo}_2\text{O}_4$ nanowire array: an efficient non-noble-metal catalyst for the hydrolysis of $\text{NaBH}_4$ toward on-demand hydrogen generation. <i>Nanotechnology</i> , 2016, 27, 46LT03.	1.3	18
51	Replacing oxygen evolution with sodium sulfide electro-oxidation toward energy-efficient electrochemical hydrogen production: Using cobalt phosphide nanoarray as a bifunctional catalyst. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 26289-26295.	3.8	15
52	Simultaneous reduction and surface functionalization of graphene oxide and the application for rubber composites. <i>Journal of Applied Polymer Science</i> , 2019, 136, 47375.	1.3	12
53	Long-chain fluorocarbon-driven hybrid solid polymer electrolyte for lithium metal batteries. <i>Journal of Materials Chemistry A</i> , 2022, 10, 4881-4888.	5.2	12
54	Bis(trifluoroacetamide)-Activated Double-Layer Composite Solid Electrolyte for Dendrite-Free Lithium Metal Battery. <i>Advanced Materials Interfaces</i> , 2022, 9, .	1.9	10

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55	Core-Shell NiO@NiEP Hybrid Nanosheet Array for Synergistically Enhanced Oxygen Evolution Electrocatalysis: Experimental and Theoretical Insights. Chemistry - an Asian Journal, 2018, 13, 944-949.	1.7	9
56	Optimizing surface residual alkali and enhancing electrochemical performance of $\text{LiNi}_{0.8}\text{Co}_{0.15}\text{Al}_{0.05}\text{O}_2$ cathode by $\text{LiH}_2\text{PO}_4$ . Nanotechnology, 2022, 33, 045404.	1.3	7
57	Dual functions of zirconium metaphosphate modified high-nickel layered oxide cathode material with enhanced electrochemical performance. Journal of Colloid and Interface Science, 2022, 615, 554-562.	5.0	7
58	Determination of Trace lead (II) by Resonance Light Scattering Based on Pb (II)-KI-MG System. IOP Conference Series: Earth and Environmental Science, 2018, 111, 012022.	0.2	0