

Kaian Sun

List of Publications by Year in descending order

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papers

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172207

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#	ARTICLE	IF	CITATIONS
1	Core-Shell ZIF-8@ZIF-67-Derived CoP Nanoparticle-Embedded N-Doped Carbon Nanotube Hollow Polyhedron for Efficient Overall Water Splitting. <i>Journal of the American Chemical Society</i> , 2018, 140, 2610-2618.	6.6	1,556
2	A Bimetallic Zn/Fe Polyphthalocyanine-Derived Single-Atom Fe ₄ Catalytic Site: A Superior Trifunctional Catalyst for Overall Water Splitting and Zn-Air Batteries. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 8614-8618.	7.2	455
3	Electronic structure and d-band center control engineering over M-doped CoP (M = Ni, Mn, Fe) hollow polyhedron frames for boosting hydrogen production. <i>Nano Energy</i> , 2019, 56, 411-419.	8.2	421
4	Three-dimensional-networked Ni ₂ P/Ni ₃ S ₂ heteronanoflake arrays for highly enhanced electrochemical overall-water-splitting activity. <i>Nano Energy</i> , 2018, 51, 26-36.	8.2	378
5	Construction of CoP/NiCoP Nanotadpoles Heterojunction Interface for Wide pH Hydrogen Evolution Electrocatalysis and Supercapacitor. <i>Advanced Energy Materials</i> , 2019, 9, 1901213.	10.2	275
6	Synergistically Interactive Pyridinic-N MoP Sites: Identified Active Centers for Enhanced Hydrogen Evolution in Alkaline Solution. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 8982-8990.	7.2	263
7	Three-dimensional open nano-netcage electrocatalysts for efficient pH-universal overall water splitting. <i>Nature Communications</i> , 2019, 10, 4875.	5.8	253
8	Cobalt nickel phosphide nanoparticles decorated carbon nanotubes as advanced hybrid catalysts for hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2016, 4, 14675-14686.	5.2	146
9	Constructing FeN ₄ /graphitic nitrogen atomic interface for high-efficiency electrochemical CO ₂ reduction over a broad potential window. <i>Chem</i> , 2021, 7, 1297-1307.	5.8	133
10	Construction of multi-dimensional core/shell Ni/NiCoP nano-heterojunction for efficient electrocatalytic water splitting. <i>Applied Catalysis B: Environmental</i> , 2019, 259, 118039.	10.8	124
11	Fe ₁ N ₄ -O ₁ site with axial Fe-O coordination for highly selective CO ₂ reduction over a wide potential range. <i>Energy and Environmental Science</i> , 2021, 14, 3430-3437.	15.6	119
12	Atomically dispersed Ni-Ru-P interface sites for high-efficiency pH-universal electrocatalysis of hydrogen evolution. <i>Nano Energy</i> , 2021, 80, 105467.	8.2	114
13	Okra-Like Fe ₇ S ₈ /C@ZnS/Ni@C with Core-Double-Shelled Structures as Robust and High-Rate Sodium Anode. <i>Small</i> , 2020, 16, e1907641.	5.2	95
14	High-precision regulation synthesis of Fe-doped Co ₂ P nanorod bundles as efficient electrocatalysts for hydrogen evolution in all-pH range and seawater. <i>Journal of Energy Chemistry</i> , 2021, 55, 92-101.	7.1	89
15	Tunable 3D hierarchical Ni ₃ S ₂ superstructures as efficient and stable bifunctional electrocatalysts for both H ₂ and O ₂ generation. <i>Journal of Materials Chemistry A</i> , 2018, 6, 4485-4493.	5.2	88
16	Esterification of oleic acid with ethanol catalyzed by sulfonated cation exchange resin: Experimental and kinetic studies. <i>Energy Conversion and Management</i> , 2013, 76, 980-985.	4.4	84
17	Fe-Doped Mn ₃ O ₄ Spinel Nanoparticles with Highly Exposed Fe _{oct} -O-Mn _{tet} Sites for Efficient Selective Catalytic Reduction (SCR) of NO with Ammonia at Low Temperatures. <i>ACS Catalysis</i> , 2020, 10, 6803-6809.	5.5	82
18	<i>In situ</i> N-doped carbon modified (Co _{0.5} Ni _{0.5}) ₉ S ₈ solid-solution hollow spheres as high-capacity anodes for sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 8268-8276.	5.2	79

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19	Distinct Crystalâ€Facetâ€Dependent Behaviors for Singleâ€Atom Palladiumâ€Onâ€Ceria Catalysts: Enhanced Stabilization and Catalytic Properties. <i>Advanced Materials</i> , 2022, 34, e2107721.	11.1	78
20	Design of basal plane active MoS ₂ through one-step nitrogen and phosphorus co-doping as an efficient pH-universal electrocatalyst for hydrogen evolution. <i>Nano Energy</i> , 2019, 58, 862-869.	8.2	74
21	Toward Bifunctional Overall Water Splitting Electrocatalyst: General Preparation of Transition Metal Phosphide Nanoparticles Decorated N-Doped Porous Carbon Spheres. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 44201-44208.	4.0	71
22	Multiple modulations of pyrite nickel sulfides<i>via</i>metal heteroatom doping engineering for boosting alkaline and neutral hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2019, 7, 25628-25640.	5.2	69
23	A comparative study on the catalytic performance of different types of zeolites for biodiesel production. <i>Fuel</i> , 2015, 158, 848-854.	3.4	62
24	Neutral-pH overall water splitting catalyzed efficiently by a hollow and porous structured ternary nickel sulfoselenide electrocatalyst. <i>Journal of Materials Chemistry A</i> , 2019, 7, 16793-16802.	5.2	60
25	Graphene oxide co-doped with nitrogen and sulfur and decorated with cobalt phosphide nanorods: An efficient hybrid catalyst for electrochemical hydrogen evolution. <i>Electrochimica Acta</i> , 2016, 222, 246-256.	2.6	57
26	Optimization of acidified oil esterification catalyzed by sulfonated cation exchange resin using response surface methodology. <i>Energy Conversion and Management</i> , 2015, 98, 46-53.	4.4	55
27	Targeted bottom-up synthesis of 1T-phase MoS ₂ arrays with high electrocatalytic hydrogen evolution activity by simultaneous structure and morphology engineering. <i>Nano Research</i> , 2018, 11, 4368-4379.	5.8	52
28	Synergistically Interactive Pyridinicâ€Nâ€MoP Sites: Identified Active Centers for Enhanced Hydrogen Evolution in Alkaline Solution. <i>Angewandte Chemie</i> , 2020, 132, 9067-9075.	1.6	45
29	Anion-exchange-mediated internal electric field for boosting photogenerated carrier separation and utilization. <i>Nature Communications</i> , 2021, 12, 4952.	5.8	45
30	Regulating the electronic structure of NiFe layered double hydroxide/reduced graphene oxide by Mn incorporation for high-efficiency oxygen evolution reaction. <i>Science China Materials</i> , 2021, 64, 2729-2738.	3.5	28
31	Atomically Dispersed CoN₃C₁â€TeN₁C₃ Diatomic Sites Anchored in Nâ€Doped Carbon as Efficient Bifunctional Catalyst for Synergistic Electrocatalytic Hydrogen Evolution and Oxygen Reduction. <i>Small</i> , 2022, 18, .	5.2	28
32	Reaction environment self-modification on low-coordination Ni ²⁺ octahedra atomic interface for superior electrocatalytic overall water splitting. <i>Nano Research</i> , 2020, 13, 3068-3074.	5.8	27
33	Kinetic and thermodynamic studies of the esterification of acidified oil catalyzed by sulfonated cation exchange resin. <i>Journal of Energy Chemistry</i> , 2015, 24, 456-462.	7.1	24
34	Isolated Singleâ€Atom Ruthenium Anchored on Beta Zeolite as an Efficient Heterogeneous Catalyst for Styrene Epoxidation. <i>ChemNanoMat</i> , 2020, 6, 1647-1651.	1.5	22
35	Construction of N-doped carbon frames anchored with Co single atoms and Co nanoparticles as robust electrocatalyst for hydrogen evolution in the entire pH range. <i>Journal of Energy Chemistry</i> , 2022, 67, 147-156.	7.1	22
36	Atomically-dispersed NiN₄â€Cl active sites with axial Niâ€Cl coordination for accelerating electrocatalytic hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2022, 10, 6007-6015.	5.2	22

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37	Rationally engineered Co and N co-doped WS ₂ as bifunctional catalysts for pH-universal hydrogen evolution and oxidative dehydrogenation reactions. Nano Research, 2022, 15, 1993-2002.	5.8	20