Kaian Sun

List of Publications by Year in Descending Order

37 papers	3,345 citations	25 h-index	37 g-index
37 ext. papers	4,502 ext. citations	13.6 avg, IF	5.37 L-index

#	Paper	IF	Citations
37	Distinct Crystal-Facet-Dependent Behaviors for Single-Atom Palladium-on-Ceria Catalysts: Enhanced Stabilization and Catalytic Properties.. *Advanced Materials*, **2022**, e2107721	24	4
36	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. *Journal of Energy Chemistry*, **2021**, 67, 147-147	12	4
35	Constructing FeN4/graphitic nitrogen atomic interface for high-efficiency electrochemical CO2 reduction over a broad potential window. *CheM*, **2021**, 7, 1297-1307	16.2	44
34	Regulating the electronic structure of NiFe layered double hydroxide/reduced graphene oxide by Mn incorporation for high-efficiency oxygen evolution reaction. *Science China Materials*, **2021**, 64, 2729-2738	7.1	10
33	High-precision regulation synthesis of Fe-doped Co2P nanorod bundles as efficient electrocatalysts for hydrogen evolution in all-pH range and seawater. *Journal of Energy Chemistry*, **2021**, 55, 92-101	12	28
32	Atomically dispersed Ni□Ru□P interface sites for high-efficiency pH-universal electrocatalysis of hydrogen evolution. *Nano Energy*, **2021**, 80, 105467	17.1	44
31	Fe1N4□1 site with axial Fe□ coordination for highly selective CO2 reduction over a wide potential range. *Energy and Environmental Science*, **2021**, 14, 3430-3437	35.4	40
30	Anion-exchange-mediated internal electric field for boosting photogenerated carrier separation and utilization. *Nature Communications*, **2021**, 12, 4952	17.4	12
29	Fe-Doped Mn3O4 Spinel Nanoparticles with Highly Exposed Feoct□□Mntet Sites for Efficient Selective Catalytic Reduction (SCR) of NO with Ammonia at Low Temperatures. *ACS Catalysis*, **2020**, 10, 6803-6809	13.1	25
28	Synergistically Interactive Pyridinic-N□MoP Sites: Identified Active Centers for Enhanced Hydrogen Evolution in Alkaline Solution. *Angewandte Chemie*, **2020**, 132, 9067-9075	3.6	24
27	Reaction environment self-modification on low-coordination Ni2+ octahedra atomic interface for superior electrocatalytic overall water splitting. *Nano Research*, **2020**, 13, 3068-3074	10	20
26	Okra-Like Fe S /C@ZnS/N-C@C with Core-Double-Shelled Structures as Robust and High-Rate Sodium Anode. *Small*, **2020**, 16, e1907641	11	43
25	Isolated Single-Atom Ruthenium Anchored on Beta Zeolite as an Efficient Heterogeneous Catalyst for Styrene Epoxidation. *ChemNanoMat*, **2020**, 6, 1647-1651	3.5	3
24	Synergistically Interactive Pyridinic-N-MoP Sites: Identified Active Centers for Enhanced Hydrogen Evolution in Alkaline Solution. *Angewandte Chemie - International Edition*, **2020**, 59, 8982-8990	16.4	134
23	Neutral-pH overall water splitting catalyzed efficiently by a hollow and porous structured ternary nickel sulfoselenide electrocatalyst. *Journal of Materials Chemistry A*, **2019**, 7, 16793-16802	13	43
22	In situ N-doped carbon modified (Co0.5Ni0.5)9S8 solid-solution hollow spheres as high-capacity anodes for sodium-ion batteries. *Journal of Materials Chemistry A*, **2019**, 7, 8268-8276	13	57
21	Design of basal plane active MoS2 through one-step nitrogen and phosphorus co-doping as an efficient pH-universal electrocatalyst for hydrogen evolution. *Nano Energy*, **2019**, 58, 862-869	17.1	53

20	Construction of CoP/NiCoP Nanotadpoles Heterojunction Interface for Wide pH Hydrogen Evolution Electrocatalysis and Supercapacitor. *Advanced Energy Materials*, **2019**, 9, 1901213	21.8	160
19	Construction of multi-dimensional core/shell Ni/NiCoP nano-heterojunction for efficient electrocatalytic water splitting. *Applied Catalysis B: Environmental*, **2019**, 259, 118039	21.8	68
18	Three-dimensional open nano-netcage electrocatalysts for efficient pH-universal overall water splitting. *Nature Communications*, **2019**, 10, 4875	17.4	119
17	Multiple modulations of pyrite nickel sulfides via metal heteroatom doping engineering for boosting alkaline and neutral hydrogen evolution. *Journal of Materials Chemistry A*, **2019**, 7, 25628-25640	13	40
16	Electronic structure and d-band center control engineering over M-doped CoP (M = Ni, Mn, Fe) hollow polyhedron frames for boosting hydrogen production. *Nano Energy*, **2019**, 56, 411-419	17.1	252
15	Core-Shell ZIF-8@ZIF-67-Derived CoP Nanoparticle-Embedded N-Doped Carbon Nanotube Hollow Polyhedron for Efficient Overall Water Splitting. *Journal of the American Chemical Society*, **2018**, 140, 2610-2618	16.4	1073
14	Tunable 3D hierarchical Ni3S2 superstructures as efficient and stable bifunctional electrocatalysts for both H2 and O2 generation. *Journal of Materials Chemistry A*, **2018**, 6, 4485-4493	13	56
13	Targeted bottom-up synthesis of 1T-phase MoS2 arrays with high electrocatalytic hydrogen evolution activity by simultaneous structure and morphology engineering. *Nano Research*, **2018**, 11, 4368-4379	10	32
12	A Bimetallic Zn/Fe Polyphthalocyanine-Derived Single-Atom Fe-N Catalytic Site:A Superior Trifunctional Catalyst for Overall Water Splitting and Zn-Air Batteries. *Angewandte Chemie - International Edition*, **2018**, 57, 8614-8618	16.4	305
11	Three-dimensional-networked Ni2P/Ni3S2 heteronanoflake arrays for highly enhanced electrochemical overall-water-splitting activity. *Nano Energy*, **2018**, 51, 26-36	17.1	249
10	Toward Bifunctional Overall Water Splitting Electrocatalyst: General Preparation of Transition Metal Phosphide Nanoparticles Decorated N-Doped Porous Carbon Spheres. *ACS Applied Materials & Interfaces*, **2018**, 10, 44201-44208	9.5	51
9	Cobalt nickel phosphide nanoparticles decorated carbon nanotubes as advanced hybrid catalysts for hydrogen evolution. *Journal of Materials Chemistry A*, **2016**, 4, 14675-14686	13	114
8	Graphene oxide co-doped with nitrogen and sulfur and decorated with cobalt phosphide nanorods: An efficient hybrid catalyst for electrochemical hydrogen evolution. *Electrochimica Acta*, **2016**, 222, 246-256	6.7	49
7	A comparative study on the catalytic performance of different types of zeolites for biodiesel production. *Fuel*, **2015**, 158, 848-854	7.1	50
6	Optimization of acidified oil esterification catalyzed by sulfonated cation exchange resin using response surface methodology. *Energy Conversion and Management*, **2015**, 98, 46-53	10.6	45
5	Kinetic and thermodynamic studies of the esterification of acidified oil catalyzed by sulfonated cation exchange resin. *Journal of Energy Chemistry*, **2015**, 24, 456-462	12	18
4	Esterification of oleic acid with ethanol catalyzed by sulfonated cation exchange resin: Experimental and kinetic studies. *Energy Conversion and Management*, **2013**, 76, 980-985	10.6	70
3	Atomically-dispersed NiN4□l active sites with axial Ni□l coordination for accelerating electrocatalytic hydrogen evolution. *Journal of Materials Chemistry A*,	13	4

2	Rationally engineered Co and N co-doped WS2 as bifunctional catalysts for pH-universal hydrogen evolution and oxidative dehydrogenation reactions. *Nano Research*,1	10	2
1	Atomically Dispersed CoN 3 C 1 -TeN 1 C 3 Diatomic Sites Anchored in N-Doped Carbon as Efficient Bifunctional Catalyst for Synergistic Electrocatalytic Hydrogen Evolution and Oxygen Reduction. *Small*,2201974	11	0