

Kaian Sun

List of Publications by Citations

Source: <https://exaly.com/author-pdf/10690365/kaian-sun-publications-by-citations.pdf>

Version: 2024-04-24

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	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	16.4	1073
36	A Bimetallic Zn/Fe Polyphthalocyanine-Derived Single-Atom Fe-N Catalytic Site: A Superior Trifunctional Catalyst for Overall Water Splitting and Zn-Air Batteries. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 8614-8618	16.4	305
35	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	17.1	252
34	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	17.1	249
33	Construction of CoP/NiCoP Nanotadpoles Heterojunction Interface for Wide pH Hydrogen Evolution Electrocatalysis and Supercapacitor. <i>Advanced Energy Materials</i> , 2019 , 9, 1901213	21.8	160
32	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	16.4	134
31	Three-dimensional open nano-netcage electrocatalysts for efficient pH-universal overall water splitting. <i>Nature Communications</i> , 2019 , 10, 4875	17.4	119
30	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	13	114
29	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	10.6	70
28	Construction of multi-dimensional core/shell Ni/NiCoP nano-heterojunction for efficient electrocatalytic water splitting. <i>Applied Catalysis B: Environmental</i> , 2019 , 259, 118039	21.8	68
27	In situ 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	13	57
26	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	13	56
25	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	17.1	53
24	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	9.5	51
23	A comparative study on the catalytic performance of different types of zeolites for biodiesel production. <i>Fuel</i> , 2015 , 158, 848-854	7.1	50
22	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	6.7	49
21	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	10.6	45

20	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	16.2	44
19	Atomically dispersed NiRu interface sites for high-efficiency pH-universal electrocatalysis of hydrogen evolution. <i>Nano Energy</i> , 2021 , 80, 105467	17.1	44
18	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	13	43
17	Okra-Like Fe S /C@ZnS/N-C@C with Core-Double-Shelled Structures as Robust and High-Rate Sodium Anode. <i>Small</i> , 2020 , 16, e1907641	11	43
16	Multiple modulations of pyrite nickel sulfides via metal heteroatom doping engineering for boosting alkaline and neutral hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 25628-25640 ¹³	13	40
15	Fe ₁ N ₄ O ₁ site with axial FeO coordination for highly selective CO ₂ reduction over a wide potential range. <i>Energy and Environmental Science</i> , 2021 , 14, 3430-3437	35.4	40
14	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 ^{10,32}	10	32
13	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	12	28
12	Fe-Doped Mn ₃ O ₄ Spinel Nanoparticles with Highly Exposed FeoctO ₄ Sites for Efficient Selective Catalytic Reduction (SCR) of NO with Ammonia at Low Temperatures. <i>ACS Catalysis</i> , 2020 , 10, 6803-6809	13.1	25
11	Synergistically Interactive Pyridinic-N/MoP Sites: Identified Active Centers for Enhanced Hydrogen Evolution in Alkaline Solution. <i>Angewandte Chemie</i> , 2020 , 132, 9067-9075	3.6	24
10	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	10	20
9	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	12	18
8	Anion-exchange-mediated internal electric field for boosting photogenerated carrier separation and utilization. <i>Nature Communications</i> , 2021 , 12, 4952	17.4	12
7	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 ^{7,10}	7.1	10
6	Atomically-dispersed NiN ₄ O ₁ active sites with axial NiO coordination for accelerating electrocatalytic hydrogen evolution. <i>Journal of Materials Chemistry A</i> ,	13	4
5	Distinct Crystal-Facet-Dependent Behaviors for Single-Atom Palladium-on-Ceria Catalysts: Enhanced Stabilization and Catalytic Properties.. <i>Advanced Materials</i> , 2022 , e2107721	24	4
4	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> , 2021 , 67, 147-147	12	4
3	Isolated Single-Atom Ruthenium Anchored on Beta Zeolite as an Efficient Heterogeneous Catalyst for Styrene Epoxidation. <i>ChemNanoMat</i> , 2020 , 6, 1647-1651	3.5	3

2	Rationally engineered Co and N co-doped WS ₂ as bifunctional catalysts for pH-universal hydrogen evolution and oxidative dehydrogenation reactions. <i>Nano Research</i> ,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. <i>Small</i> ,2201974	11	0