

Yuan Pan

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

96
papers

6,995
citations

39
h-index

83
g-index

102
ext. papers

9,312
ext. citations

11.3
avg, IF

6.2
L-index

#	Paper	IF	Citations
96	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
95	Design of Single-Atom Co-N Catalytic Site: A Robust Electrocatalyst for CO Reduction with Nearly 100% CO Selectivity and Remarkable Stability. <i>Journal of the American Chemical Society</i> , 2018 , 140, 4218-4221	16.4	634
94	Monodispersed nickel phosphide nanocrystals with different phases: synthesis, characterization and electrocatalytic properties for hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 1656-1665	12.5	443
93	Copper atom-pair catalyst anchored on alloy nanowires for selective and efficient electrochemical reduction of CO. <i>Nature Chemistry</i> , 2019 , 11, 222-228	17.6	337
92	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
91	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
90	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
89	Cobalt phosphide-based electrocatalysts: synthesis and phase catalytic activity comparison for hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 4745-4754	13	224
88	Carbon nanotubes decorated with nickel phosphide nanoparticles as efficient nanohybrid electrocatalysts for the hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 13087-13094	13	178
87	Regulating the coordination structure of single-atom Fe-NC catalytic sites for benzene oxidation. <i>Nature Communications</i> , 2019 , 10, 4290	17.4	173
86	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
85	An SRC\$ Plasma Device for Sterilization of Root Canal of Teeth. <i>IEEE Transactions on Plasma Science</i> , 2009 , 37, 668-673	1.3	154
84	Functionalization of Hollow Nanomaterials for Catalytic Applications: Nanoreactor Construction. <i>Advanced Materials</i> , 2019 , 31, e1800426	24	147
83	Metal Doping Effect of the M-Co ₂ P/Nitrogen-Doped Carbon Nanotubes (M = Fe, Ni, Cu) Hydrogen Evolution Hybrid Catalysts. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 13890-901	9.5	138
82	Nickel phosphide nanoparticles-nitrogen-doped graphene hybrid as an efficient catalyst for enhanced hydrogen evolution activity. <i>Journal of Power Sources</i> , 2015 , 297, 45-52	8.9	136
81	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
80	A General Strategy for Fabricating Isolated Single Metal Atomic Site Catalysts in Y Zeolite. <i>Journal of the American Chemical Society</i> , 2019 , 141, 9305-9311	16.4	124

79	Three-dimensional open nano-netcage electrocatalysts for efficient pH-universal overall water splitting. <i>Nature Communications</i> , 2019 , 10, 4875	17.4	119
78	Nanostructured nickel phosphide supported on carbon nanospheres: Synthesis and application as an efficient electrocatalyst for hydrogen evolution. <i>Journal of Power Sources</i> , 2015 , 285, 169-177	8.9	115
77	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
76	Structural Regulation with Atomic-Level Precision: From Single-Atomic Site to Diatomic and Atomic Interface Catalysis. <i>Matter</i> , 2020 , 2, 78-110	12.7	107
75	A novel CoP/MoS ₂ -CNTs hybrid catalyst with Pt-like activity for hydrogen evolution. <i>Catalysis Science and Technology</i> , 2016 , 6, 1611-1615	5.5	100
74	Porphyrin-like Fe-N ₄ sites with sulfur adjustment on hierarchical porous carbon for different rate-determining steps in oxygen reduction reaction. <i>Nano Research</i> , 2018 , 11, 6260-6269	10	83
73	In-situ grown of Ni ₂ P nanoparticles on 2D black phosphorus as a novel hybrid catalyst for hydrogen evolution. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 7951-7956	6.7	68
72	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
71	CoP nanorods decorated biomass derived N, P co-doped carbon flakes as an efficient hybrid catalyst for electrochemical hydrogen evolution. <i>Electrochimica Acta</i> , 2017 , 232, 561-569	6.7	56
70	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
69	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
68	Effect of Nano- to Millisecond Pulse on Dielectric Barrier Discharges. <i>IEEE Transactions on Plasma Science</i> , 2009 , 37, 647-652	1.3	50
67	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
66	Electrocatalyst engineering and structure-activity relationship in hydrogen evolution reaction: From nanostructures to single atoms. <i>Science China Materials</i> , 2020 , 63, 921-948	7.1	48
65	Nanostructured nickel sulfides: phase evolution, characterization and electrocatalytic properties for the hydrogen evolution reaction. <i>RSC Advances</i> , 2015 , 5, 104740-104749	3.7	45
64	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
63	Atomically dispersed NiRu interface sites for high-efficiency pH-universal electrocatalysis of hydrogen evolution. <i>Nano Energy</i> , 2021 , 80, 105467	17.1	44
62	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

61	A Bimetallic Zn/Fe Polyphthalocyanine-Derived Single-Atom Fe-N ₄ Catalytic Site: A Superior Trifunctional Catalyst for Overall Water Splitting and Zn-Air Batteries. <i>Angewandte Chemie</i> , 2018 , 130, 8750-8754	3.6	40
60	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	1.3	40
59	Fe ₁ N ₄ O ₁ site with axial Fe ₂ 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
58	Phase- and morphology-controlled synthesis of cobalt sulfide nanocrystals and comparison of their catalytic activities for hydrogen evolution. <i>Applied Surface Science</i> , 2015 , 357, 1133-1140	6.7	39
57	Mo doping induced metallic CoSe for enhanced electrocatalytic hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , 2020 , 268, 118467	21.8	39
56	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 ³²	1.0	32
55	Nickel phosphide nanoparticles decorated nitrogen and phosphorus co-doped porous carbon as efficient hybrid catalyst for hydrogen evolution. <i>Applied Surface Science</i> , 2017 , 422, 828-837	6.7	31
54	Porous CoMo phosphide nanotubes: an efficient electrocatalyst for hydrogen evolution. <i>Journal of Materials Science</i> , 2017 , 52, 10406-10417	4.3	29
53	Interface Engineering of Partially Phosphidated Co@Co-P@NPCNTs for Highly Enhanced Electrochemical Overall Water Splitting. <i>Small</i> , 2020 , 16, e2002124	11	29
52	Highly efficient CoMoS heterostructure derived from vertically anchored Co ₅ Mo ₁₀ polyoxometalate for electrocatalytic overall water splitting. <i>Chemical Engineering Journal</i> , 2020 , 394, 124849	14.7	28
51	Size-controlled synthesis of monodisperse nickel nanoparticles and investigation of their magnetic and catalytic properties. <i>Applied Surface Science</i> , 2014 , 316, 276-285	6.7	28
50	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
49	Study on the NO ₂ production pathways and the role of NO ₂ in fast selective catalytic reduction DeNO _x at low-temperature over MnO _x /TiO ₂ catalyst. <i>Chemical Engineering Journal</i> , 2020 , 379, 122288	14.7	26
48	Flexible carbon nanofiber film with diatomic Fe-Co sites for efficient oxygen reduction and evolution reactions in wearable zinc-air batteries. <i>Nano Energy</i> , 2021 , 87, 106147	17.1	26
47	Fe-Doped Mn ₃ O ₄ Spinel Nanoparticles with Highly Exposed Feoct ₂ Oct ₂ 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
46	Synergistically Interactive Pyridinic-N ₂ MoP Sites: Identified Active Centers for Enhanced Hydrogen Evolution in Alkaline Solution. <i>Angewandte Chemie</i> , 2020 , 132, 9067-9075	3.6	24
45	Design of assembled composite of Mn ₃ O ₄ @Graphitic carbon porous nano-dandelions: A catalyst for Low-Temperature selective catalytic reduction of NO _x with remarkable SO ₂ resistance. <i>Applied Catalysis B: Environmental</i> , 2020 , 269, 118731	21.8	23
44	Structure of a novel Benzyl Quinolinium Chloride derivative and its effective corrosion inhibition in 15wt.% hydrochloric acid. <i>Corrosion Science</i> , 2015 , 99, 281-294	6.8	22

43	Melamine-assisted pyrolytic synthesis of bifunctional cobalt-based core-shell electrocatalysts for rechargeable zinc-air batteries. <i>Journal of Energy Chemistry</i> , 2021 , 53, 364-371	12	22
42	Ordered mesoporous Cu-ZnO-Al ₂ O ₃ adsorbents for reactive adsorption desulfurization with enhanced sulfur saturation capacity. <i>Chinese Journal of Catalysis</i> , 2018 , 39, 1543-1551	11.3	21
41	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
40	An efficient method for the synthesis of nickel phosphide nanocrystals via thermal decomposition of single-source precursors. <i>RSC Advances</i> , 2015 , 5, 11952-11959	3.7	18
39	Partial positively charged Pt in Pt/MgAl ₂ O ₄ for enhanced dehydrogenation activity. <i>Applied Catalysis B: Environmental</i> , 2021 , 288, 119996	21.8	18
38	In Situ Construction of Nickel Phosphosulfide (Ni ₅ P ₄ S) Active Species on 3D Ni Foam through Chemical Vapor Deposition for Electrochemical Hydrogen Evolution. <i>ChemElectroChem</i> , 2017 , 4, 1108-1113	11.3	17
37	A novel nickel-based honeycomb electrode with microtapered holes and abundant multivacancies for highly efficient overall water splitting. <i>Applied Catalysis B: Environmental</i> , 2020 , 276, 119141	21.8	17
36	Tube wall delamination engineering induces photogenerated carrier separation to achieve photocatalytic performance improvement of tubular g-CN. <i>Journal of Hazardous Materials</i> , 2022 , 424, 127177	12.8	17
35	Hydrogenation of 1,3-butadiene over Au and Pt/SiO ₂ -N catalysts at low temperature. <i>Catalysis Communications</i> , 2015 , 67, 72-77	3.2	14
34	Size-dependent magnetic and electrocatalytic properties of nickel phosphide nanoparticles. <i>Applied Surface Science</i> , 2016 , 366, 439-447	6.7	14
33	In-Situ doping-induced crystal form transition of amorphous Pd catalyst for robust electrocatalytic hydrodechlorination. <i>Applied Catalysis B: Environmental</i> , 2021 , 284, 119713	21.8	14
32	The encapsulation of POM clusters into MIL-101(Cr) at molecular level: LaW ₁₀ O ₃₆ @MIL-101(Cr), an efficient catalyst for oxidative desulfurization. <i>Microporous and Mesoporous Materials</i> , 2021 , 311, 110694	5.3	14
31	Simple synthesis of a vacancy-rich NiO 2D/3D dendritic self-supported electrode for efficient overall water splitting. <i>Nanoscale</i> , 2019 , 11, 22734-22742	7.7	13
30	Atomically dispersed Ni on Mo ₂ C embedded in N, P co-doped carbon derived from polyoxometalate supramolecule for high-efficiency hydrogen evolution electrocatalysis. <i>Applied Catalysis B: Environmental</i> , 2021 , 296, 120336	21.8	11
29	A supramolecular-confinement pyrolysis route to ultrasmall rhodium phosphide nanoparticles as a robust electrocatalyst for hydrogen evolution in the entire pH range and seawater electrolysis. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 25768-25779	13	10
28	Construction of N, P co-doped carbon frames anchored with Fe single atoms and Fe ₂ P nanoparticles as robust coupling catalyst for electrocatalytic oxygen reduction. <i>Advanced Materials</i> , 2020 , 32, 203621	24	9
27	Layered double hydroxide based materials applied in persulfate based advanced oxidation processes: Property, mechanism, application and perspectives. <i>Journal of Hazardous Materials</i> , 2021 , 424, 127612	12.8	6
26	Triazine COF-supported single-atom catalyst (Pd ¹ /trzn-COF) for CO oxidation. <i>Science China Materials</i> , 2021 , 64, 1939-1951	7.1	6

25	A Mannich base 1-phenyl-3-(1-pyrrolidinyl)-1-propanone: synthesis and performance study on corrosion inhibition for N80 steel in 15% hydrochloric acid. <i>Anti-Corrosion Methods and Materials</i> , 2016 , 63, 153-159	0.8	6
24	Dual Role of Pyridinic-N Doping in Carbon-Coated Ni Nanoparticles for Highly Efficient Electrochemical CO ₂ Reduction to CO over a Wide Potential Range. <i>ACS Catalysis</i> , 2022 , 12, 1364-1374	13.1	5
23	Doping Ruthenium into Metal Matrix for Promoted pH-Universal Hydrogen Evolution.. <i>Advanced Science</i> , 2022 , e2200010	13.6	5
22	Atomically-dispersed NiN ₄ active sites with axial Ni coordination for accelerating electrocatalytic hydrogen evolution. <i>Journal of Materials Chemistry A</i> ,	13	4
21	Advances in preparation, mechanism and applications of graphene quantum dots/semiconductor composite photocatalysts: A review. <i>Journal of Hazardous Materials</i> , 2021 , 424, 127721	12.8	4
20	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
19	Density functional theory study of thiophene desulfurization and conversion of desulfurization products on the Ni(111) surface and Ni ₅₅ cluster: implication for the mechanism of reactive adsorption desulfurization over Ni/ZnO catalysts. <i>Catalysis Science and Technology</i> , 2021 , 11, 1615-1625	5.5	4
18	Defect engineering technique for the fabrication of LaCoO ₃ perovskite catalyst via urea treatment for total oxidation of propane. <i>Applied Catalysis B: Environmental</i> , 2022 , 304, 121005	21.8	3
17	The facile synthesis of core-shell PtCu nanoparticles with superior electrocatalytic activity and stability in the hydrogen evolution reaction.. <i>RSC Advances</i> , 2021 , 11, 26326-26335	3.7	3
16	Carbon nanotube-based materials for persulfate activation to degrade organic contaminants: Properties, mechanisms and modification insights.. <i>Journal of Hazardous Materials</i> , 2022 , 431, 128536	12.8	3
15	A novel POMos-based hybrid with penta-coordinated Mo in trigonal bipyramid: structure and an efficient precursor for hydrodesulfurization catalyst. <i>RSC Advances</i> , 2014 , 4, 27787-27790	3.7	2
14	In-situ construction of N-doped carbon nanosnakes encapsulated FeCoSe nanoparticles as efficient bifunctional electrocatalyst for overall water splitting. <i>Journal of Energy Chemistry</i> , 2022 , 68, 699-708	12	2
13	6-Phosphogluconolactonase Promotes Hepatocellular Carcinogenesis by Activating Pentose Phosphate Pathway. <i>Frontiers in Cell and Developmental Biology</i> , 2021 , 9, 753196	5.7	2
12	Structural regulation of single-atomic site catalysts for enhanced electrocatalytic CO ₂ reduction. <i>Nano Research</i> , 1	10	2
11	In-situ doping-induced lattice strain of NiCoP/S nanocrystals for robust wide pH hydrogen evolution electrocatalysis and supercapacitor. <i>Journal of Energy Chemistry</i> , 2022 , 70, 27-35	12	2
10	Modified polyoxometalate: a novel monocapped bi-supporting and reduced Keggin structure {PMoO[Cu(2,2Pbpy)]}[Cu(2,2Pbpy)(en)(HO)]. <i>Acta Crystallographica Section C, Structural Chemistry</i> , 2019 , 75, 1344-1352	0.8	1
9	Construction of Pd/Ni ₂ P-Ni foam nanosheet array electrode by in-situ phosphatization-electrodeposition strategy for synergistic electrocatalytic hydrodechlorination. <i>Chemical Engineering Journal</i> , 2022 , 435, 134932	14.7	1
8	Construction of BiWO ₄ /CoAl-LDHs S-scheme heterojunction with efficient photo-Fenton-like catalytic performance: Experimental and theoretical studies. <i>Chemosphere</i> , 2021 , 291, 133001	8.4	1

7	High-precision synthesis of β -MnO ₂ nanowires with controllable crystal facets for propane oxidation. <i>CrystEngComm</i> , 2021 , 23, 7602-7614	3.3	1
6	Research on the Postarc Sheath Growth Process Considering the Plasma Motion and Distribution. <i>IEEE Transactions on Plasma Science</i> , 2020 , 48, 4289-4297	1.3	1
5	Electronic structure engineering of bimetallic Pd-Au alloy nanocatalysts for improving electrocatalytic hydrodechlorination performance. <i>Separation and Purification Technology</i> , 2022 , 289, 120731	8.3	1
4	Assembly of sphere-structured MnO ₂ for total oxidation of propane: Structure-activity relationship and reaction mechanism determination. <i>Separation and Purification Technology</i> , 2022 , 284, 120269	8.3	0
3	Ultrafine Co-MoS ₂ monolayer catalyst derived from oil-soluble single-molecule polyoxometalates for slurry phase hydrocracking. <i>Fuel</i> , 2022 , 315, 123134	7.1	0
2	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
1	Codoping of phosphorus and nickel enhance electrocatalytic dechlorination performance of Pd-based catalyst. <i>IOP Conference Series: Earth and Environmental Science</i> , 2021 , 791, 012162	0.3	