

Weng-Chon Cheong

List of Publications by Citations

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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.

74
papers

8,542
citations

41
h-index

80
g-index

80
ext. papers

11,250
ext. citations

12.8
avg, IF

6.01
L-index

#	Paper	IF	Citations
74	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
73	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
72	Direct observation of noble metal nanoparticles transforming to thermally stable single atoms. <i>Nature Nanotechnology</i> , 2018 , 13, 856-861	28.7	471
71	Hollow N-Doped Carbon Spheres with Isolated Cobalt Single Atomic Sites: Superior Electrocatalysts for Oxygen Reduction. <i>Journal of the American Chemical Society</i> , 2017 , 139, 17269-17272	16.4	444
70	Enhanced oxygen reduction with single-atomic-site iron catalysts for a zinc-air battery and hydrogen-air fuel cell. <i>Nature Communications</i> , 2018 , 9, 5422	17.4	431
69	Fe Isolated Single Atoms on S, N Codoped Carbon by Copolymer Pyrolysis Strategy for Highly Efficient Oxygen Reduction Reaction. <i>Advanced Materials</i> , 2018 , 30, e1800588	24	338
68	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
67	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
66	Single Tungsten Atoms Supported on MOF-Derived N-Doped Carbon for Robust Electrochemical Hydrogen Evolution. <i>Advanced Materials</i> , 2018 , 30, e1800396	24	302
65	Rational Design of Single Molybdenum Atoms Anchored on N-Doped Carbon for Effective Hydrogen Evolution Reaction. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 16086-16090	16.4	299
64	MXene (TiC) Vacancy-Confined Single-Atom Catalyst for Efficient Functionalization of CO. <i>Journal of the American Chemical Society</i> , 2019 , 141, 4086-4093	16.4	277
63	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
62	Iridium single-atom catalyst on nitrogen-doped carbon for formic acid oxidation synthesized using a general host-guest strategy. <i>Nature Chemistry</i> , 2020 , 12, 764-772	17.6	207
61	Metal (Hydr)oxides@Polymer Core-Shell Strategy to Metal Single-Atom Materials. <i>Journal of the American Chemical Society</i> , 2017 , 139, 10976-10979	16.4	193
60	Cation vacancy stabilization of single-atomic-site Pt/Ni(OH) catalyst for diboration of alkynes and alkenes. <i>Nature Communications</i> , 2018 , 9, 1002	17.4	179
59	Regulating the coordination structure of single-atom Fe-NC catalytic sites for benzene oxidation. <i>Nature Communications</i> , 2019 , 10, 4290	17.4	173
58	Carbon nitride supported Fe cluster catalysts with superior performance for alkene epoxidation. <i>Nature Communications</i> , 2018 , 9, 2353	17.4	162

57	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
56	Controlling N-doping type in carbon to boost single-atom site Cu catalyzed transfer hydrogenation of quinoline. <i>Nano Research</i> , 2020 , 13, 3082-3087	10	149
55	A photochromic composite with enhanced carrier separation for the photocatalytic activation of benzylic C-H bonds in toluene. <i>Nature Catalysis</i> , 2018 , 1, 704-710	36.5	144
54	Quantitative Study of Charge Carrier Dynamics in Well-Defined WO Nanowires and Nanosheets: Insight into the Crystal Facet Effect in Photocatalysis. <i>Journal of the American Chemical Society</i> , 2018 , 140, 9078-9082	16.4	137
53	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
52	Isolated Fe and Co dual active sites on nitrogen-doped carbon for a highly efficient oxygen reduction reaction. <i>Chemical Communications</i> , 2018 , 54, 4274-4277	5.8	128
51	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
50	Three-dimensional open nano-netcage electrocatalysts for efficient pH-universal overall water splitting. <i>Nature Communications</i> , 2019 , 10, 4875	17.4	119
49	In situ embedding Co ₉ S ₈ into nitrogen and sulfur codoped hollow porous carbon as a bifunctional electrocatalyst for oxygen reduction and hydrogen evolution reactions. <i>Applied Catalysis B: Environmental</i> , 2019 , 254, 186-193	21.8	87
48	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
47	MOF-Confined Sub-2 nm Atomically Ordered Intermetallic PdZn Nanoparticles as High-Performance Catalysts for Selective Hydrogenation of Acetylene. <i>Advanced Materials</i> , 2018 , 30, e1801878	24	77
46	Rational Design of Single Molybdenum Atoms Anchored on N-Doped Carbon for Effective Hydrogen Evolution Reaction. <i>Angewandte Chemie</i> , 2017 , 129, 16302-16306	3.6	66
45	Two-Step Carbothermal Welding To Access Atomically Dispersed Pd on Three-Dimensional Zirconia Nanonet for Direct Indole Synthesis. <i>Journal of the American Chemical Society</i> , 2019 , 141, 10590-10594	16.4	66
44	Atomically dispersed Fe atoms anchored on COF-derived N-doped carbon nanospheres as efficient multi-functional catalysts. <i>Chemical Science</i> , 2019 , 11, 786-790	9.4	64
43	Convenient fabrication of BiOBr ultrathin nanosheets with rich oxygen vacancies for photocatalytic selective oxidation of secondary amines. <i>Nano Research</i> , 2019 , 12, 1625-1630	10	62
42	Coordination structure dominated performance of single-atomic Pt catalyst for anti-Markovnikov hydroboration of alkenes. <i>Science China Materials</i> , 2020 , 63, 972-981	7.1	62
41	Tuning Polarity of Cu-O Bond in Heterogeneous Cu Catalyst to Promote Additive-free Hydroboration of Alkynes. <i>Chem</i> , 2020 , 6, 725-737	16.2	53
40	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

39	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
38	Atomically dispersed NiRu interface sites for high-efficiency pH-universal electrocatalysis of hydrogen evolution. <i>Nano Energy</i> , 2021 , 80, 105467	17.1	44
37	Isolated Iron Single-Atomic Site-Catalyzed Chemoselective Transfer Hydrogenation of Nitroarenes to Arylamines. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 33819-33824	9.5	42
36	Recover the activity of sintered supported catalysts by nitrogen-doped carbon atomization. <i>Nature Communications</i> , 2020 , 11, 335	17.4	41
35	A Supported Nickel Catalyst Stabilized by a Surface Digging Effect for Efficient Methane Oxidation. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 18388-18393	16.4	41
34	ZIF-derived porous carbon supported Pd nanoparticles within mesoporous silica shells: sintering- and leaching-resistant core-shell nanocatalysts. <i>Chemical Communications</i> , 2017 , 53, 9490-9493	5.8	41
33	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
32	Nitrogen-coordinated cobalt nanocrystals for oxidative dehydrogenation and hydrogenation of N-heterocycles. <i>Chemical Science</i> , 2019 , 10, 5345-5352	9.4	39
31	PdAg bimetallic electrocatalyst for highly selective reduction of CO ₂ with low COOH* formation energy and facile CO desorption. <i>Nano Research</i> , 2019 , 12, 2866-2871	10	38
30	Structural, morphological and magnetic properties of Eu-doped CoFe ₂ O ₄ nano-ferrites. <i>Results in Physics</i> , 2017 , 7, 3203-3208	3.7	37
29	Free-standing palladium-nickel alloy wavy nanosheets. <i>Nano Research</i> , 2016 , 9, 2244-2250	10	36
28	Cu@Ni core-shell nanoparticles/reduced graphene oxide nanocomposites for nonenzymatic glucose sensor. <i>RSC Advances</i> , 2017 , 7, 21128-21135	3.7	27
27	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
26	Topological self-template directed synthesis of multi-shelled intermetallic NiGa hollow microspheres for the selective hydrogenation of alkyne. <i>Chemical Science</i> , 2019 , 10, 614-619	9.4	20
25	The design of hollow PdO-CoO nano-dodecahedrons with moderate catalytic activity for Li-O batteries. <i>Chemical Communications</i> , 2019 , 55, 12683-12686	5.8	17
24	Single-atomic-site cobalt stabilized on nitrogen and phosphorus co-doped carbon for selective oxidation of primary alcohols. <i>Nanoscale Horizons</i> , 2019 , 4, 902-906	10.8	16
23	Cobalt Single Atom Incorporated in Ruthenium Oxide Sphere: A Robust Bifunctional Electrocatalyst for HER and OER. <i>Angewandte Chemie - International Edition</i> , 2021 ,	16.4	16
22	A Supported Nickel Catalyst Stabilized by a Surface Digging Effect for Efficient Methane Oxidation. <i>Angewandte Chemie</i> , 2019 , 131, 18559-18564	3.6	13

21	Efficient Electrocatalyst for Glucose and Ethanol Based on Cu/Ni/N-Doped Graphene Hybrids. <i>ChemElectroChem</i> , 2017 , 4, 1419-1428	4.3	12
20	Biofabrication Strategy for Functional Fabrics. <i>Nano Letters</i> , 2018 , 18, 6017-6021	11.5	12
19	Anion-exchange-mediated internal electric field for boosting photogenerated carrier separation and utilization. <i>Nature Communications</i> , 2021 , 12, 4952	17.4	12
18	Role of ytterbium on structural and magnetic properties of NiCr _{0.1} Fe _{1.9} O ₄ co-precipitated ferrites. <i>Ceramics International</i> , 2018 , 44, 5433-5439	5.1	11
17	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	7.1	10
16	Synthesis of palladium and palladium sulfide nanocrystals via thermolysis of a Pd thiolate cluster. <i>Science China Materials</i> , 2015 , 58, 936-943	7.1	9
15	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, 2003621	24	9
14	Dopamine polymer derived isolated single-atom site metals/N-doped porous carbon for benzene oxidation. <i>Chemical Communications</i> , 2020 , 56, 8916-8919	5.8	8
13	Manganese vacancy-confined single-atom Ag in cryptomelane nanorods for efficient Wacker oxidation of styrene derivatives. <i>Chemical Science</i> , 2021 , 12, 6099-6106	9.4	8
12	Optimized Self-Templating Synthesis Method for Highly Crystalline Hollow Cu ₂ O Nanoboxes. <i>Small Methods</i> , 2020 , 4, 2000521	12.8	5
11	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
10	Unprecedented Dual Role of Polyaniline for Enhanced Pseudocapacitance of Cobalt-iron Layered Double Hydroxide.. <i>Macromolecular Rapid Communications</i> , 2022 , e2100905	4.8	3
9	Atomically dispersed Ni anchored on polymer-derived mesh-like N-doped carbon nanofibers as an efficient CO ₂ electrocatalytic reduction catalyst. <i>Nano Research</i> , 1	10	2
8	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
7	Self-assembled multifunctional Fe ₃ O ₄ hierarchical microspheres: high-efficiency lithium-ion battery materials and hydrogenation catalysts. <i>Science China Materials</i> , 2021 , 64, 1058-1070	7.1	2
6	Frontispiece: A Supported Nickel Catalyst Stabilized by a Surface Digging Effect for Efficient Methane Oxidation. <i>Angewandte Chemie - International Edition</i> , 2019 , 58,	16.4	1
5	A general strategy to prepare atomically dispersed biomimetic catalysts based on host-guest chemistry. <i>Chemical Communications</i> , 2021 , 57, 1895-1898	5.8	1
4	Synergetic effect of nitrogen-doped carbon catalysts for high-efficiency electrochemical CO ₂ reduction. <i>Chinese Journal of Catalysis</i> , 2022 , 43, 1697-1702	11.3	1

3	Biomass-assisted approach for large-scale construction of multi-functional isolated single-atom site catalysts. <i>Nano Research</i> ,1	10	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	Back Cover: Optimized Self-Templating Synthesis Method for Highly Crystalline Hollow Cu ₂ O Nanoboxes (Small Methods 12/2020). <i>Small Methods</i> , 2020 , 4, 2070047	12.8	