Weng-Chon Cheong

List of Publications by Year in Descending Order

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	Unprecedented Duel Role of Polyaniline for Enhanced Pseudocapacitance of Cobalt-iron Layered Double Hydroxide.. *Macromolecular Rapid Communications*, **2022**, e2100905	4.8	3
73	Distinct Crystal-Facet-Dependent Behaviors for Single-Atom Palladium-on-Ceria Catalysts: Enhanced Stabilization and Catalytic Properties.. *Advanced Materials*, **2022**, e2107721	24	4
72	Synergetic effect of nitrogen-doped carbon catalysts for high-efficiency electrochemical CO2 reduction. *Chinese Journal of Catalysis*, **2022**, 43, 1697-1702	11.3	1
71	Cobalt Single Atom Incorporated in Ruthenium Oxide Sphere: A Robust Bifunctional Electrocatalyst for HER and OER. *Angewandte Chemie - International Edition*, **2021**,	16.4	16
70	Self-assembled multifunctional Fe3O4 hierarchical microspheres: high-efficiency lithium-ion battery materials and hydrogenation catalysts. *Science China Materials*, **2021**, 64, 1058-1070	7.1	2
69	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
68	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
67	Atomically dispersed Ni–Ru–P interface sites for high-efficiency pH-universal electrocatalysis of hydrogen evolution. *Nano Energy*, **2021**, 80, 105467	17.1	44
66	Manganese vacancy-confined single-atom Ag in cryptomelane nanorods for efficient Wacker oxidation of styrene derivatives. *Chemical Science*, **2021**, 12, 6099-6106	9.4	8
65	A general strategy to prepare atomically dispersed biomimetic catalysts based on host-guest chemistry. *Chemical Communications*, **2021**, 57, 1895-1898	5.8	1
64	Anion-exchange-mediated internal electric field for boosting photogenerated carrier separation and utilization. *Nature Communications*, **2021**, 12, 4952	17.4	12
63	Back Cover: Optimized Self-Templating Synthesis Method for Highly Crystalline Hollow Cu2O Nanoboxes (Small Methods 12/2020). *Small Methods*, **2020**, 4, 2070047	12.8	
62	Coordination structure dominated performance of single-atomic Pt catalyst for anti-Markovnikov hydroboration of alkenes. *Science China Materials*, **2020**, 63, 972-981	7.1	62
61	Iridium single-atom catalyst on nitrogen-doped carbon for formic acid oxidation synthesized using a general host-guest strategy. *Nature Chemistry*, **2020**, 12, 764-772	17.6	207
60	Dopamine polymer derived isolated single-atom site metals/N-doped porous carbon for benzene oxidation. *Chemical Communications*, **2020**, 56, 8916-8919	5.8	8
59	Recover the activity of sintered supported catalysts by nitrogen-doped carbon atomization. *Nature Communications*, **2020**, 11, 335	17.4	41
58	Tuning Polarity of Cu-O Bond in Heterogeneous Cu Catalyst to Promote Additive-free Hydroboration of Alkynes. *CheM*, **2020**, 6, 725-737	16.2	53

57	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
56	Controlling N-doping type in carbon to boost single-atom site Cu catalyzed transfer hydrogenation of quinoline. *Nano Research*, **2020**, 13, 3082-3087	10	149
55	Optimized Self-Templating Synthesis Method for Highly Crystalline Hollow Cu2O Nanoboxes. *Small Methods*, **2020**, 4, 2000521	12.8	5
54	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
53	Isolated Iron Single-Atomic Site-Catalyzed Chemoselective Transfer Hydrogenation of Nitroarenes to Arylamines. *ACS Applied Materials & Interfaces*, **2019**, 11, 33819-33824	9.5	42
52	Regulating the coordination structure of single-atom Fe-NC catalytic sites for benzene oxidation. *Nature Communications*, **2019**, 10, 4290	17.4	173
51	Copper atom-pair catalyst anchored on alloy nanowires for selective and efficient electrochemical reduction of CO. *Nature Chemistry*, **2019**, 11, 222-228	17.6	337
50	Topological self-template directed synthesis of multi-shelled intermetallic NiGa hollow microspheres for the selective hydrogenation of alkyne. *Chemical Science*, **2019**, 10, 614-619	9.4	20
49	MXene (TiC) Vacancy-Confined Single-Atom Catalyst for Efficient Functionalization of CO. *Journal of the American Chemical Society*, **2019**, 141, 4086-4093	16.4	277
48	A General Strategy for Fabricating Isolated Single Metal Atomic Site Catalysts in Y Zeolite. *Journal of the American Chemical Society*, **2019**, 141, 9305-9311	16.4	124
47	Two-Step Carbothermal Welding To Access Atomically Dispersed Pd on Three-Dimensional Zirconia Nanonet for Direct Indole Synthesis. *Journal of the American Chemical Society*, **2019**, 141, 10590-10594	16.4	66
46	Convenient fabrication of BiOBr ultrathin nanosheets with rich oxygen vacancies for photocatalytic selective oxidation of secondary amines. *Nano Research*, **2019**, 12, 1625-1630	10	62
45	Nitrogen-coordinated cobalt nanocrystals for oxidative dehydrogenation and hydrogenation of N-heterocycles. *Chemical Science*, **2019**, 10, 5345-5352	9.4	39
44	In situ embedding Co9S8 into nitrogen and sulfur codoped hollow porous carbon as a bifunctional electrocatalyst for oxygen reduction and hydrogen evolution reactions. *Applied Catalysis B: Environmental*, **2019**, 254, 186-193	21.8	87
43	Single-atomic-site cobalt stabilized on nitrogen and phosphorus co-doped carbon for selective oxidation of primary alcohols. *Nanoscale Horizons*, **2019**, 4, 902-906	10.8	16
42	Construction of CoP/NiCoP Nanotadpoles Heterojunction Interface for Wide pH Hydrogen Evolution Electrocatalysis and Supercapacitor. *Advanced Energy Materials*, **2019**, 9, 1901213	21.8	160
41	Three-dimensional open nano-netcage electrocatalysts for efficient pH-universal overall water splitting. *Nature Communications*, **2019**, 10, 4875	17.4	119
40	PdAg bimetallic electrocatalyst for highly selective reduction of CO2 with low COOH* formation energy and facile CO desorption. *Nano Research*, **2019**, 12, 2866-2871	10	38

39	A Supported Nickel Catalyst Stabilized by a Surface Digging Effect for Efficient Methane Oxidation. *Angewandte Chemie*, **2019**, 131, 18559-18564	3.6	13
38	A Supported Nickel Catalyst Stabilized by a Surface Digging Effect for Efficient Methane Oxidation. *Angewandte Chemie - International Edition*, **2019**, 58, 18388-18393	16.4	41
37	Atomically dispersed Fe atoms anchored on COF-derived N-doped carbon nanospheres as efficient multi-functional catalysts. *Chemical Science*, **2019**, 11, 786-790	9.4	64
36	The design of hollow PdO-CoO nano-dodecahedrons with moderate catalytic activity for Li-O batteries. *Chemical Communications*, **2019**, 55, 12683-12686	5.8	17
35	Frontispiece: A Supported Nickel Catalyst Stabilized by a Surface Digging Effect for Efficient Methane Oxidation. *Angewandte Chemie - International Edition*, **2019**, 58,	16.4	1
34	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
33	Design of Single-Atom Co-N Catalytic Site: A Robust Electrocatalyst for CO Reduction with Nearly 100% CO Selectivity and Remarkable Stability. *Journal of the American Chemical Society*, **2018**, 140, 4218-4221	16.4	634
32	Cation vacancy stabilization of single-atomic-site Pt/Ni(OH) catalyst for diboration of alkynes and alkenes. *Nature Communications*, **2018**, 9, 1002	17.4	179
31	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
30	Role of ytterbium on structural and magnetic properties of NiCr0.1Fe1.9O4 co-precipitated ferrites. *Ceramics International*, **2018**, 44, 5433-5439	5.1	11
29	Fe Isolated Single Atoms on S, N Codoped Carbon by Copolymer Pyrolysis Strategy for Highly Efficient Oxygen Reduction Reaction. *Advanced Materials*, **2018**, 30, e1800588	24	338
28	Isolated Fe and Co dual active sites on nitrogen-doped carbon for a highly efficient oxygen reduction reaction. *Chemical Communications*, **2018**, 54, 4274-4277	5.8	128
27	Porphyrin-like Fe-N4 sites with sulfur adjustment on hierarchical porous carbon for different rate-determining steps in oxygen reduction reaction. *Nano Research*, **2018**, 11, 6260-6269	10	83
26	Quantitative Study of Charge Carrier Dynamics in Well-Defined WO Nanowires and Nanosheets: Insight into the Crystal Facet Effect in Photocatalysis. *Journal of the American Chemical Society*, **2018**, 140, 9078-9082	16.4	137
25	Direct observation of noble metal nanoparticles transforming to thermally stable single atoms. *Nature Nanotechnology*, **2018**, 13, 856-861	28.7	471
24	A Bimetallic Zn/Fe Polyphthalocyanine-Derived Single-Atom Fe-N4 Catalytic Site:A Superior Trifunctional Catalyst for Overall Water Splitting and Zn–Air Batteries. *Angewandte Chemie*, **2018**, 130, 8750-8754	3.6	40
23	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
22	Biofabrication Strategy for Functional Fabrics. *Nano Letters*, **2018**, 18, 6017-6021	11.5	12

21	Carbon nitride supported Fe cluster catalysts with superior performance for alkene epoxidation. *Nature Communications*, **2018**, 9, 2353	17.4	162
20	Single Tungsten Atoms Supported on MOF-Derived N-Doped Carbon for Robust Electrochemical Hydrogen Evolution. *Advanced Materials*, **2018**, 30, e1800396	24	302
19	Enhanced oxygen reduction with single-atomic-site iron catalysts for a zinc-air battery and hydrogen-air fuel cell. *Nature Communications*, **2018**, 9, 5422	17.4	431
18	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
17	A photochromic composite with enhanced carrier separation for the photocatalytic activation of benzylic C□H bonds in toluene. *Nature Catalysis*, **2018**, 1, 704-710	36.5	144
16	MOF-Confined Sub-2 nm Atomically Ordered Intermetallic PdZn Nanoparticles as High-Performance Catalysts for Selective Hydrogenation of Acetylene. *Advanced Materials*, **2018**, 30, e1801878	24	77
15	Efficient Electrocatalyst for Glucose and Ethanol Based on Cu/Ni/N-Doped Graphene Hybrids. *ChemElectroChem*, **2017**, 4, 1419-1428	4.3	12
14	Cu@Ni core□shell nanoparticles/reduced graphene oxide nanocomposites for nonenzymatic glucose sensor. *RSC Advances*, **2017**, 7, 21128-21135	3.7	27
13	Rational Design of Single Molybdenum Atoms Anchored on N-Doped Carbon for Effective Hydrogen Evolution Reaction. *Angewandte Chemie - International Edition*, **2017**, 56, 16086-16090	16.4	299
12	Rational Design of Single Molybdenum Atoms Anchored on N-Doped Carbon for Effective Hydrogen Evolution Reaction. *Angewandte Chemie*, **2017**, 129, 16302-16306	3.6	66
11	Structural, morphological and magnetic properties of Eu-doped CoFe2O4 nano-ferrites. *Results in Physics*, **2017**, 7, 3203-3208	3.7	37
10	Metal (Hydr)oxides@Polymer Core-Shell Strategy to Metal Single-Atom Materials. *Journal of the American Chemical Society*, **2017**, 139, 10976-10979	16.4	193
9	ZIF-derived porous carbon supported Pd nanoparticles within mesoporous silica shells: sintering- and leaching-resistant core-shell nanocatalysts. *Chemical Communications*, **2017**, 53, 9490-9493	5.8	41
8	Hollow N-Doped Carbon Spheres with Isolated Cobalt Single Atomic Sites: Superior Electrocatalysts for Oxygen Reduction. *Journal of the American Chemical Society*, **2017**, 139, 17269-17272	16.4	444
7	Free-standing palladium-nickel alloy wavy nanosheets. *Nano Research*, **2016**, 9, 2244-2250	10	36
6	Synthesis of palladium and palladium sulfide nanocrystals via thermolysis of a Pd□thiolate cluster. *Science China Materials*, **2015**, 58, 936-943	7.1	9
5	Atomically dispersed Ni anchored on polymer-derived mesh-like N-doped carbon nanofibers as an efficient CO2 electrocatalytic reduction catalyst. *Nano Research*,1	10	2
4	Biomass-assisted approach for large-scale construction of multi-functional isolated single-atom site catalysts. *Nano Research*,1	10	0

3	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
2	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. *Advanced Materials*,2203621	24	9
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