

# Chen-Hao Wang

## 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.

87  
papers

2,748  
citations

28  
h-index

50  
g-index

94  
ext. papers

3,150  
ext. citations

7.2  
avg, IF

5.04  
L-index

#	Paper	IF	Citations
87	Graphene oxide as a promising photocatalyst for CO <sub>2</sub> to methanol conversion. <i>Nanoscale</i> , <b>2013</b> , 5, 262-87.7		346
86	Highly efficient visible light photocatalytic reduction of CO <sub>2</sub> to hydrocarbon fuels by Cu-nanoparticle decorated graphene oxide. <i>Nano Letters</i> , <b>2014</b> , 14, 6097-103	11.5	254
85	High performance of low electrocatalysts loading on CNT directly grown on carbon cloth for DMFC. <i>Journal of Power Sources</i> , <b>2007</b> , 171, 55-62	8.9	119
84	Vitalizing fuel cells with vitamins: pyrolyzed vitamin B12 as a non-precious catalyst for enhanced oxygen reduction reaction of polymer electrolyte fuel cells. <i>Energy and Environmental Science</i> , <b>2012</b> , 5, 5305-5314	35.4	104
83	Pyrolyzed Cobalt Corrole as a Potential Non-Precious Catalyst for Fuel Cells. <i>Advanced Functional Materials</i> , <b>2012</b> , 22, 3500-3508	15.6	93
82	Water-activated graphite felt as a high-performance electrode for vanadium redox flow batteries. <i>Journal of Power Sources</i> , <b>2017</b> , 341, 270-279	8.9	87
81	Low methanol-permeable polyaniline/Nafion composite membrane for direct methanol fuel cells. <i>Journal of Power Sources</i> , <b>2009</b> , 190, 279-284	8.9	85
80	Electrocatalytic activity of Nb-doped hexagonal WO <sub>3</sub> nanowire-modified graphite felt as a positive electrode for vanadium redox flow batteries. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 11472-11480	13	84
79	Multi-porous Co <sub>3</sub> O <sub>4</sub> nanoflakes @ sponge-like few-layer partially reduced graphene oxide hybrids: towards highly stable asymmetric supercapacitors. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 12569-12577	13	83
78	Label-free dual sensing of DNA molecules using GaN nanowires. <i>Analytical Chemistry</i> , <b>2009</b> , 81, 36-42	7.8	79
77	Deep eutectic solvent promoted one step sustainable conversion of fresh seaweed biomass to functionalized graphene as a potential electrocatalyst. <i>Green Chemistry</i> , <b>2016</b> , 18, 2819-2826	10	69
76	Controlled platinum nanoparticles uniformly dispersed on nitrogen-doped carbon nanotubes for methanol oxidation. <i>Diamond and Related Materials</i> , <b>2008</b> , 17, 535-541	3.5	68
75	Fabrication and characterizations of thin film metallic glasses: Antibacterial property and durability study for medical application. <i>Thin Solid Films</i> , <b>2014</b> , 561, 102-107	2.2	63
74	High-energy asymmetric supercapacitor based on petal-shaped MnO <sub>2</sub> nanosheet and carbon nanotube-embedded polyacrylonitrile-based carbon nanofiber working at 2V in aqueous neutral electrolyte. <i>Journal of Power Sources</i> , <b>2014</b> , 249, 1-8	8.9	58
73	Stand-up structure of graphene-like carbon nanowalls on CNT directly grown on polyacrylonitrile-based carbon fiber paper as supercapacitor. <i>Diamond and Related Materials</i> , <b>2012</b> , 25, 176-179	3.5	57
72	Ta <sub>2</sub> O <sub>5</sub> -Nanoparticle-Modified Graphite Felt As a High-Performance Electrode for a Vanadium Redox Flow Battery. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 3019-3028	8.3	56
71	High methanol oxidation activity of electrocatalysts supported by directly grown nitrogen-containing carbon nanotubes on carbon cloth. <i>Electrochimica Acta</i> , <b>2006</b> , 52, 1612-1617	6.7	56

70	High efficiency of CO <sub>2</sub> -activated graphite felt as electrode for vanadium redox flow battery application. <i>Journal of Power Sources</i> , <b>2017</b> , 364, 1-8	8.9	54
69	High-capacitance KOH-activated nitrogen-containing porous carbon material from waste coffee grounds in supercapacitor. <i>Advanced Powder Technology</i> , <b>2016</b> , 27, 1387-1395	4.6	45
68	Effect of a sulfur and nitrogen dual-doped FeNiS electrocatalyst for the oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 19790-19799	13	41
67	Synergistic effects of a TiNb <sub>2</sub> O <sub>7</sub> /reduced graphene oxide nanocomposite electrocatalyst for high-performance all-vanadium redox flow batteries. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 13908-13917	13.7	40
66	Graphene oxides and carbon nanotubes embedded in polyacrylonitrile-based carbon nanofibers used as electrodes for supercapacitor. <i>Journal of Physics and Chemistry of Solids</i> , <b>2015</b> , 85, 62-68	3.9	38
65	Cobalt/Iron(II,III) oxide hybrid catalysis with enhanced catalytic activities for oxygen reduction in anion exchange membrane fuel cell. <i>Journal of Power Sources</i> , <b>2015</b> , 277, 147-154	8.9	36
64	Hydrogen-Treated Defect-Rich WO <sub>3</sub> Nanowire-Modified Graphite Felt as High-Performance Electrode for Vanadium Redox Flow Battery. <i>ACS Applied Energy Materials</i> , <b>2019</b> , 2, 2541-2551	6.1	32
63	Three-dimensional annealed WO <sub>3</sub> nanowire/graphene foam as an electrocatalytic material for all vanadium redox flow batteries. <i>Sustainable Energy and Fuels</i> , <b>2017</b> , 1, 2091-2100	5.8	32
62	Probing the active site in single-atom oxygen reduction catalysts via operando X-ray and electrochemical spectroscopy. <i>Nature Communications</i> , <b>2020</b> , 11, 4233	17.4	31
61	High performance of catalysts supported by directly grown PTFE-free micro-porous CNT layer in a proton exchange membrane fuel cell. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 2512		29
60	Graphene nanosheet/CNT hybrid nanostructure electrode for a proton exchange membrane fuel cell. <i>International Journal of Hydrogen Energy</i> , <b>2012</b> , 37, 18989-18995	6.7	28
59	Synthesis of Pd@Pt <sub>3</sub> Co/C core-shell structure as catalyst for oxygen reduction reaction in proton exchange membrane fuel cell. <i>International Journal of Hydrogen Energy</i> , <b>2017</b> , 42, 11771-11778	6.7	26
58	High efficiency of bamboo-like carbon nanotubes on functionalized graphite felt as electrode in vanadium redox flow battery. <i>RSC Advances</i> , <b>2016</b> , 6, 102068-102075	3.7	25
57	Highly efficient and durable phosphine reduced iron-doped tungsten oxide/reduced graphene oxide nanocomposites for the hydrogen evolution reaction. <i>International Journal of Hydrogen Energy</i> , <b>2018</b> , 43, 6481-6490	6.7	24
56	Preparation of non-precious metal catalysts for PEMFC cathode from pyrolyzed vitamin B12. <i>International Journal of Hydrogen Energy</i> , <b>2012</b> , 37, 13755-13762	6.7	24
55	High-performance pyrolyzed iron corrole as a potential non-precious metal catalyst for PEMFCs. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 14692	13	23
54	High catalytic activity of oxygen-vacancy-rich tungsten oxide nanowires supported by nitrogen-doped reduced graphene oxide for the hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 19767-19774	13	23
53	WO <sub>3</sub> nanomaterials synthesized via a sol-gel method and calcination for use as a CO gas sensor. <i>Frontiers of Chemical Science and Engineering</i> , <b>2014</b> , 8, 179-187	4.5	22

52	TiNb <sub>2</sub> O <sub>7</sub> nanoparticle-decorated graphite felt as a high-performance electrode for vanadium redox flow batteries. <i>Applied Surface Science</i> , <b>2018</b> , 462, 73-80	6.7	21
51	Platinum nanoparticles embedded in pyrolyzed nitrogen-containing cobalt complexes for high methanol-tolerant oxygen reduction activity. <i>Journal of Materials Chemistry</i> , <b>2010</b> , 20, 7551		20
50	Iridium-decorated palladium-platinum core-shell catalysts for oxygen reduction reaction in proton exchange membrane fuel cell. <i>Journal of Colloid and Interface Science</i> , <b>2014</b> , 427, 91-7	9.3	19
49	Effects of structures of pyrolyzed corrin, corrole and porphyrin on oxygen reduction reaction. <i>International Journal of Hydrogen Energy</i> , <b>2014</b> , 39, 934-941	6.7	19
48	Microwave-assisted facile synthesis of cobaltiron oxide nanocomposites for oxygen production using alkaline anion exchange membrane water electrolysis. <i>International Journal of Hydrogen Energy</i> , <b>2019</b> , 44, 10174-10181	6.7	17
47	A high performance polybenzimidazole/CNT hybrid electrode for high-temperature proton exchange membrane fuel cells. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 7015-7019	13	17
46	Highly proton-selective biopolymer layer-coated ion-exchange membrane for direct methanol fuel cells. <i>ChemSusChem</i> , <b>2012</b> , 5, 392-5	8.3	17
45	Pyrolysis of melamine-treated vitamin B12 as a non-precious metal catalyst for oxygen reduction reaction. <i>RSC Advances</i> , <b>2014</b> , 4, 4207-4211	3.7	16
44	Functionalizing Biomaterials to Be an Efficient Proton-Exchange Membrane and Methanol Barrier for DMFCs. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2015</b> , 3, 302-308	8.3	16
43	Oxygen reducing activity of methanol-tolerant catalysts by high-temperature pyrolysis. <i>Diamond and Related Materials</i> , <b>2011</b> , 20, 322-329	3.5	16
42	Effect of Iron Precursors on the Structure and Oxygen Reduction Activity of Iron/Nitrogen/Carbon Catalysts. <i>Electrochimica Acta</i> , <b>2016</b> , 211, 933-940	6.7	15
41	Sludge selection on the performance of sediment microbial fuel cells. <i>International Journal of Energy Research</i> , <b>2018</b> , 42, 4250-4255	4.5	13
40	Hybrid Porous Catalysts Derived from Metal/Organic Framework for Oxygen Reduction Reaction in an Anion Exchange Membrane Fuel Cell. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 9143-9152	8.3	12
39	Carbon and metal-based catalysts for vanadium redox flow batteries: a perspective and review of recent progress. <i>Sustainable Energy and Fuels</i> , <b>2021</b> , 5, 1668-1707	5.8	12
38	Pyrolysis of Iron/Vitamin B9 As a Potential Nonprecious Metal Electrocatalyst for Oxygen Reduction Reaction. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2017</b> , 5, 2897-2905	8.3	11
37	Application of interface material and effects of oxygen gradient on the performance of single-chamber sediment microbial fuel cells (SSMFCs). <i>Journal of Environmental Sciences</i> , <b>2019</b> , 75, 163-168	6.4	11
36	High stability pyrolyzed vitamin B12 as a non-precious metal catalyst of oxygen reduction reaction in microbial fuel cells. <i>RSC Advances</i> , <b>2013</b> , 3, 15375	3.7	10
35	Direct current reactive co-sputter deposition of CrWN films to enhance cutting tool performance. <i>International Journal of Refractory Metals and Hard Materials</i> , <b>2013</b> , 37, 82-89	4.1	10

34	Three-dimensional bifurcations of a two-phase Rayleigh-Benard problem in a cylinder. <i>International Journal of Heat and Mass Transfer</i> , <b>2001</b> , 44, 1823-1836	4.9	10
33	Oxygen-Vacancy-Rich Cubic CeO <sub>2</sub> Nanowires as Catalysts for Vanadium Redox Flow Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 16757-16765	8.3	10
32	Nanostructured Cementite/Ferrous Sulfide Encapsulated Carbon with Heteroatoms for Oxygen Reduction in Alkaline Environment. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 3185-3194	8.3	9
31	Effect of pyrolysis atmospheres on the morphology of polymer-derived silicon oxynitride ceramic films coated aluminum nitride surface and the thermal conductivity of silicone rubber composites. <i>Applied Surface Science</i> , <b>2014</b> , 292, 319-327	6.7	8
30	Fabrication and characterization of silicon-based ceramic/aluminum nitride as thermally conductive hybrid filler in silicone rubber composite. <i>Materials Chemistry and Physics</i> , <b>2014</b> , 147, 11-16	4.4	8
29	Cathodoluminescence of fluorine doped amorphous carbon nanoparticles deposited by a filtered cathodic arc plasma system. <i>Carbon</i> , <b>2006</b> , 44, 107-112	10.4	8
28	Synergistic effects of niobium oxide/nickel carbide/reduced graphene oxide modified electrode for vanadium redox flow battery. <i>Journal of Power Sources</i> , <b>2020</b> , 473, 228590	8.9	8
27	Treatment of Oily Wastewater by the Optimization of Fe <sub>2</sub> O <sub>3</sub> Calcination Temperatures in Innovative Bio-Electron-Fenton Microbial Fuel Cells. <i>Energies</i> , <b>2018</b> , 11, 565	3.1	8
26	Enhanced activity of selenocyanate-containing transition metal chalcogenides supported by nitrogen-doped carbon materials for the oxygen reduction reaction. <i>Catalysis Science and Technology</i> , <b>2019</b> , 9, 3426-3434	5.5	7
25	High oxygen reduction reaction activity on various iron loading of Fe-PANI/C catalyst for PEM fuel cell. <i>Ionics</i> , <b>2020</b> , 26, 813-822	2.7	7
24	The effect of adding Bi on the performance of a newly developed iron-copper redox flow battery.. <i>RSC Advances</i> , <b>2018</b> , 8, 8537-8543	3.7	6
23	Innovative multi-processed N-doped carbon and Fe <sub>3</sub> O <sub>4</sub> cathode for enhanced bioelectro-Fenton microbial fuel cell performance. <i>International Journal of Energy Research</i> , <b>2019</b> , 43, 7594	4.5	6
22	Selenium vacancy and phosphorus-doping-induced phase transition engineering of cobalt diselenide as bi-functional catalyst for water electrolysis. <i>International Journal of Hydrogen Energy</i> , <b>2019</b> , 44, 28566-28577	6.7	5
21	Pulsed electrochemical deposition of Pt NPs on polybenzimidazole-CNT hybrid electrode for high-temperature proton exchange membrane fuel cells. <i>International Journal of Hydrogen Energy</i> , <b>2015</b> , 40, 14398-14404	6.7	5
20	High stability of oxidation of methanol catalyzed by Pt supported by oxygen-incorporated bamboo-shaped CNTs grown directly on carbon cloth. <i>International Journal of Hydrogen Energy</i> , <b>2012</b> , 37, 10663-10670	6.7	5
19	Nanoscale redox mapping at the MoS <sub>2</sub> -liquid interface. <i>Nature Communications</i> , <b>2021</b> , 12, 1321	17.4	5
18	High performance of metal-organic framework-derived catalyst supported by tellurium nanowire for oxygen reduction reaction. <i>Renewable Energy</i> , <b>2020</b> , 158, 324-331	8.1	4
17	Photoreflectance and surface photovoltage spectroscopy characterisation of an InGaPInGaAsN/GaAs NpN DHBT structure. <i>IEE Proceedings: Optoelectronics</i> , <b>2003</b> , 150, 99		3

16	Operando Identification of Hydrangea-like and Amorphous Cobalt Oxyhydroxide Supported by Thin-Layer Copper for Oxygen Evolution Reaction. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2021</b> , 9, 12300-12310	8.3	3
15	Microwave-assisted pyrolysis of leaves as a catalyst for the oxygen reduction reaction.. <i>RSC Advances</i> , <b>2020</b> , 10, 11543-11550	3.7	2
14	On the Reduction of O <sub>2</sub> on Cathode Surfaces of CoCorrin and CoPorphyrin: A Computational and Experimental Study on Their Relative Efficiencies in H <sub>2</sub> O/H <sub>2</sub> O <sub>2</sub> Formation. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 4652-4659	3.8	2
13	Effect of Oxygen Gradient on the Organic Degradation and Power Performance of Single Sediment Microbial Fuel Cells. <i>Energy Procedia</i> , <b>2017</b> , 105, 654-661	2.3	2
12	MoO <sub>2</sub> /graphene nanocomposite as an electrocatalyst for high-performance vanadium redox flow battery. <i>Journal of Energy Storage</i> , <b>2021</b> , 40, 102795	7.8	2
11	Metal-Organic Frameworks Derived Catalyst for High-Performance Vanadium Redox Flow Batteries. <i>Catalysts</i> , <b>2021</b> , 11, 1188	4	2
10	Carbon Nanotube-Supported Catalysts for the Direct Methanol Fuel Cell	3.15-3.54	1
9	Temperature dependence of current gain of InGaP/InGaAsN/GaAs heterojunction bipolar transistors. <i>Physica Status Solidi A</i> , <b>2004</b> , 201, 2190-2193		1
8	Solar to hydrocarbon production using metal-free water-soluble bulk heterojunction of conducting polymer nanoparticle and graphene oxide. <i>Journal of Chemical Physics</i> , <b>2021</b> , 154, 164707	3.9	1
7	High Activity of Platinum-Cobalt Supported by Natto-like N-Doped Carbon Sphere as Durable Catalyst for Oxygen Reduction Reaction. <i>Energy &amp; Fuels</i> , <b>2021</b> , 35, 15074-15083	4.1	1
6	Island-Type Hybrid Catalysts Applied for Anion Exchange Membrane Water Electrolysis. <i>Catalysts</i> , <b>2022</b> , 12, 102	4	0
5	Thickness-Dependent Photocatalysis of Ultra-Thin MoS <sub>2</sub> Film for Visible-Light-Driven CO <sub>2</sub> Reduction. <i>Catalysts</i> , <b>2021</b> , 11, 1295	4	0
4	Simple way of making free-standing cathode electrodes for flexible lithium-ion batteries.. <i>RSC Advances</i> , <b>2022</b> , 12, 9249-9255	3.7	0
3	Effects of annealing on the hydrogen concentration and the performance of InGaP/InGaAsN/GaAs heterojunction bipolar transistors. <i>Journal of Electronic Materials</i> , <b>2003</b> , 32, 948-951	1.9	
2	Pt <sub>3</sub> Ni/C and Pt <sub>3</sub> Co/C cathodes as electrocatalysts for use in oxygen sensors and proton exchange membrane fuel cells. <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , <b>2020</b> , 75, 1029-1035		1
1	Development of a Lightweight LTO/Cu Electrode as a Flexible Anode Etching Process for Lithium-Ion Batteries.. <i>ACS Omega</i> , <b>2022</b> , 7, 10205-10211	3.9	