

# Ziqiang Wang

## List of Publications by Year in descending order

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91  
papers

3,410  
citations

126907

33  
h-index

161849

54  
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91  
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91  
docs citations

91  
times ranked

2689  
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultrafine ruthenium-iridium-tellurium nanotubes for boosting overall water splitting in acidic media. <i>Journal of Materials Chemistry A</i> , 2022, 10, 2021-2026.	10.3	36
2	A phosphorus modified mesoporous AuRh film as an efficient bifunctional electrocatalyst for urea-assisted energy-saving hydrogen production. <i>Journal of Materials Chemistry A</i> , 2022, 10, 3086-3092.	10.3	10
3	Liquid Metal Interfacial Growth and Exfoliation to Form Mesoporous Metallic Nanosheets for Alkaline Methanol Electroreforming. <i>ACS Nano</i> , 2022, 16, 2978-2987.	14.6	17
4	N-doping induced lattice-strained porous PdIr bimetallic for pH-universal hydrogen evolution electrocatalysis. <i>Journal of Materials Chemistry A</i> , 2022, 10, 8364-8370.	10.3	19
5	Surface Engineering of Defective and Porous Ir Metallene with Polyallylamine for Hydrogen Evolution Electrocatalysis. <i>Advanced Materials</i> , 2022, 34, e2110680.	21.0	95
6	Electroreduction of Nitrate to Ammonia on Palladium-Cobalt-Oxygen Nanowire Arrays. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 13169-13176.	8.0	16
7	Phosphorus incorporation accelerates ammonia electrosynthesis over a mesoporous Au film. <i>Chemical Communications</i> , 2022, 58, 6088-6091.	4.1	24
8	Urchin-like PdOs nanostructure for hydrogen evolution electrocatalysis. <i>Nanotechnology</i> , 2022, 33, 325401.	2.6	2
9	In Situ Reconstruction of Partially Hydroxylated Porous Rh Metallene for Ethylene Glycol-Assisted Seawater Splitting. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	57
10	Interface functionalization of mesoporous ruthenium films with polyaniline for enhanced hydrogen evolution electrocatalysis at all pH values. <i>Journal of Materials Chemistry A</i> , 2022, 10, 14435-14440.	10.3	6
11	Phosphorus-triggered activation of PdPb nanoflowers for enhanced oxygen reduction electrocatalysis. <i>Journal of Materials Chemistry A</i> , 2022, 10, 15528-15534.	10.3	7
12	Ultrathin Porous WPdH Nanosheet Assemblies for Efficient Alkaline Oxygen Reduction. <i>Energy &amp; Fuels</i> , 2022, 36, 7775-7781.	5.1	4
13	Tannic acid decorated AuPd lavender-like nanochains for enhanced oxygen reduction electrocatalysis. <i>Journal of Materials Chemistry A</i> , 2021, 9, 15678-15683.	10.3	10
14	Mesoporous Rh nanotubes for efficient electro-oxidation of methanol. <i>Journal of Materials Chemistry A</i> , 2021, 9, 4744-4750.	10.3	19
15	Flexible synthesis of Au@Pd core-shell mesoporous nanoflowers for efficient methanol oxidation. <i>Nanoscale</i> , 2021, 13, 3208-3213.	5.6	21
16	Phosphorus modulation of a mesoporous rhodium film for enhanced nitrogen electroreduction. <i>Nanoscale</i> , 2021, 13, 13809-13815.	5.6	6
17	Construction of hierarchical IrTe nanotubes with assembled nanosheets for overall water splitting electrocatalysis. <i>Journal of Materials Chemistry A</i> , 2021, 9, 18576-18581.	10.3	24
18	Atomic defects in pothole-rich two-dimensional copper nanoplates triggering enhanced electrocatalytic selective nitrate-to-ammonia transformation. <i>Journal of Materials Chemistry A</i> , 2021, 9, 16411-16417.	10.3	82

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19	Anodic hydrazine oxidation assisted hydrogen evolution over bimetallic RhIr mesoporous nanospheres. <i>Journal of Materials Chemistry A</i> , 2021, 9, 18323-18328.	10.3	21
20	Rational construction of Au <sub>3</sub> Cu@Cu nanocages with porous core-shell heterostructured walls for enhanced electrocatalytic N <sub>2</sub> fixation. <i>Journal of Materials Chemistry A</i> , 2021, 9, 8372-8377.	10.3	25
21	Polyethylenimine-modified bimetallic Au@Rh core-shell mesoporous nanospheres surpass Pt for pH-universal hydrogen evolution electrocatalysis. <i>Journal of Materials Chemistry A</i> , 2021, 9, 13080-13086.	10.3	29
22	Bimetallic mesoporous RhRu film for electrocatalytic nitrogen reduction to ammonia. <i>Inorganic Chemistry Frontiers</i> , 2021, 8, 4276-4281.	6.0	7
23	Defect-Rich Porous Palladium Metallene for Enhanced Alkaline Oxygen Reduction Electrocatalysis. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 12027-12031.	13.8	173
24	Defect-Rich Porous Palladium Metallene for Enhanced Alkaline Oxygen Reduction Electrocatalysis. <i>Angewandte Chemie</i> , 2021, 133, 12134-12138.	2.0	32
25	Engineering One-Dimensional AuPd Nanospikes for Efficient Electrocatalytic Nitrogen Fixation. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 20233-20239.	8.0	16
26	Ternary AuPS Alloy Mesoporous Film for Efficient Electroreduction of Nitrogen to Ammonia. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 28057-28063.	8.0	6
27	Mesoporous Bimetallic Au@Rh Core-Shell Nanowires as Efficient Electrocatalysts for pH-Universal Hydrogen Evolution. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 30479-30485.	8.0	33
28	Porous PdAg alloy nanostructures with a concave surface for efficient electrocatalytic methanol oxidation. <i>Nanotechnology</i> , 2021, 32, 355402.	2.6	1
29	Mesoporous PdRu Nanocrystals for Oxygen Reduction Electrocatalysis. <i>Energy &amp; Fuels</i> , 2021, 35, 13382-13388.	5.1	2
30	Synergism of Interfaces and Defects: Cu/Oxygen Vacancy-Rich Cu-Mn <sub>3</sub> O <sub>4</sub> Heterostructured Ultrathin Nanosheet Arrays for Selective Nitrate Electroreduction to Ammonia. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 44733-44741.	8.0	64
31	PdNi/Ni Nanotubes Assembled by Mesoporous Nanoparticles for Efficient Alkaline Ethanol Oxidation Reaction. <i>Chemistry - A European Journal</i> , 2021, 27, 14472-14477.	3.3	11
32	Regulation of the surface micro-structure and crystal phase of Pd <sub>2</sub> B mesoporous nanoparticles for enhanced hydrogen evolution electrocatalysis. <i>Journal of Materials Chemistry A</i> , 2021, 9, 21123-21131.	10.3	10
33	Phosphorus-modified ruthenium-tellurium dendritic nanotubes outperform platinum for alkaline hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2021, 9, 5026-5032.	10.3	20
34	Cooperativity of Cu and Pd active sites in CuPd aerogels enhances nitrate electroreduction to ammonia. <i>Chemical Communications</i> , 2021, 57, 7525-7528.	4.1	73
35	Two-Dimensional Heterojunction Electrocatalyst: Au-Bi <sub>2</sub> Te <sub>3</sub> Nanosheets for Electrochemical Ammonia Synthesis. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 47458-47464.	8.0	24
36	Ir-Doped Ni-based metal-organic framework ultrathin nanosheets on Ni foam for enhanced urea electro-oxidation. <i>Chemical Communications</i> , 2020, 56, 2151-2154.	4.1	101

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37	A quaternary metalâ€“metalloidâ€“nonmetal electrocatalyst: B, P-co-doping into PdRu nanopine assemblies boosts the electrocatalytic capability toward formic acid oxidation. <i>Journal of Materials Chemistry A</i> , 2020, 8, 2424-2429.	10.3	29
38	Mesoporous Au <sub>3</sub> Pd Film on Ni Foam: A Self-Supported Electrocatalyst for Efficient Synthesis of Ammonia. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 436-442.	8.0	49
39	Boronâ€“Doped PdCuAu Nanopine Assembly as an Efficient Electrocatalyst toward Formic Acid Oxidation. <i>Chemistry - A European Journal</i> , 2020, 26, 2493-2498.	3.3	12
40	Engineering bunched RhTe nanochains for efficient methanol oxidation electrocatalysis. <i>Chemical Communications</i> , 2020, 56, 13595-13598.	4.1	43
41	In-situ Formation of Amorphous Co-Al-P Layer on CoAl Layered Double Hydroxide Nanoarray as Neutral Electrocatalysts for Hydrogen Evolution Reaction. <i>Frontiers in Chemistry</i> , 2020, 8, 552795.	3.6	7
42	Effects of AuCuB Catalysts with Porous Nanostructures on Electrosynthesis of Ammonia. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 12588-12594.	6.7	16
43	An interconnected porous Au <sub>3</sub> Pt film on Ni foam: an efficient electrocatalyst for alkaline hydrogen evolution reaction. <i>Sustainable Energy and Fuels</i> , 2020, 4, 4878-4883.	4.9	2
44	Pore-Size-Tuned Pd Films Grown on Ni Foam as an Advanced Catalyst for Electrosynthesis of Ammonia. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 11827-11833.	6.7	9
45	Twoâ€“Dimensional NiR@Nâ€“Doped Carbon Nanocomposites Supported on Ni Foam for Electrocatalytic Overall Water Splitting. <i>Chemistry - A European Journal</i> , 2020, 26, 14496-14501.	3.3	16
46	Phosphorus-triggered modification of the electronic structure and surface properties of Pd <sub>4</sub> S nanowires for robust hydrogen evolution electrocatalysis. <i>Journal of Materials Chemistry A</i> , 2020, 8, 19873-19878.	10.3	42
47	Multinary PtPdNiP truncated octahedral mesoporous nanocages for enhanced methanol oxidation electrocatalysis. <i>New Journal of Chemistry</i> , 2020, 44, 15492-15497.	2.8	6
48	A mesoporous Au film with surface sulfur modification for efficient ammonia electrosynthesis. <i>Journal of Materials Chemistry A</i> , 2020, 8, 20414-20419.	10.3	34
49	Palladium Nanothorn Assembly Array for Efficient Electroreduction of Nitrogen to Ammonia. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 14228-14233.	6.7	10
50	B-Doped PdRu nanopillar assemblies for enhanced formic acid oxidation electrocatalysis. <i>Nanoscale</i> , 2020, 12, 19159-19164.	5.6	21
51	Three-dimensional Pdâ€“Agâ€“S porous nanosponges for electrocatalytic nitrogen reduction to ammonia. <i>Nanoscale</i> , 2020, 12, 13507-13512.	5.6	49
52	Anchoring Au nanoparticles on Bi ultrathin nanosheets for use as an efficient heterogeneous catalyst for ambient-condition electrochemical ammonia synthesis. <i>Sustainable Energy and Fuels</i> , 2020, 4, 4516-4521.	4.9	12
53	Hydrophilic/Aerophobic Hydrogen-Evolving Electrode: NiRu-Based Metalâ€“Organic Framework Nanosheets In Situ Grown on Conductive Substrates. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 34728-34735.	8.0	65
54	Mesoporous Pt@PtM (M = Co, Ni) cage-bell nanostructures toward methanol electro-oxidation. <i>Nanoscale Advances</i> , 2020, 2, 1084-1089.	4.6	8

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55	Transition metal M (M = Co, Ni, and Fe) and boron co-modulation in Rh-based aerogels for highly efficient and pH-universal hydrogen evolution electrocatalysis. <i>Journal of Materials Chemistry A</i> , 2020, 8, 5595-5600.	10.3	30
56	ZIF-derived porous carbon composites coated on NiCo <sub>2</sub> S <sub>4</sub> nanotubes array toward efficient water splitting. <i>Nanotechnology</i> , 2020, 31, 195402.	2.6	8
57	<i>In situ</i> electrochemical reduction-assisted exfoliation: conversion of BiOCl nanoplates into Bi nanosheets enables efficient electrocatalytic nitrogen fixation. <i>Sustainable Energy and Fuels</i> , 2020, 4, 3334-3339.	4.9	15
58	A P-doped PtTe mesoporous nanotube electrocatalyst. <i>Sustainable Energy and Fuels</i> , 2020, 4, 2950-2955.	4.9	9
59	Crystalline core-amorphous shell heterostructures: epitaxial assembly of NiB nanosheets onto PtPd mesoporous hollow nanopolyhedra for enhanced hydrogen evolution electrocatalysis. <i>Journal of Materials Chemistry A</i> , 2020, 8, 8927-8933.	10.3	25
60	Pt@Mesoporous PtRu Yolk-Shell Nanostructured Electrocatalyst for Methanol Oxidation Reaction. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 14867-14873.	6.7	29
61	Metal-Nonmetal One-Dimensional Electrocatalyst: AuPdP Nanowires for Ambient Nitrogen Reduction to Ammonia. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 15772-15777.	6.7	37
62	Hollow PtPd Nanorods with Mesoporous Shells as an Efficient Electrocatalyst for the Methanol Oxidation Reaction. <i>Chemistry - an Asian Journal</i> , 2019, 14, 3019-3024.	3.3	9
63	A Mesoporous Nanorattle-Structured Pd@PtRu Electrocatalyst. <i>Chemistry - an Asian Journal</i> , 2019, 14, 3397-3403.	3.3	4
64	Enhanced Oxygen Reduction and Methanol Oxidation Electrocatalysis over Bifunctional PtPdIr Mesoporous Hollow Nanospheres. <i>Chemistry - an Asian Journal</i> , 2019, 14, 3868-3874.	3.3	15
65	Synergism of Interface and Electronic Effects: Bifunctional N-Doped Ni <sub>3</sub> S <sub>2</sub> /N-Doped MoS <sub>2</sub> Hetero-Nanowires for Efficient Electrocatalytic Overall Water Splitting. <i>Chemistry - A European Journal</i> , 2019, 25, 16074-16080.	3.3	35
66	Facile Construction of IrRh Nanosheet Assemblies As Efficient and Robust Bifunctional Electrocatalysts for Overall Water Splitting. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 15747-15754.	6.7	31
67	Rational synthesis of Pt-based dandelion-like yolk-shell nanoparticles with enhanced oxygen reduction properties. <i>Sustainable Energy and Fuels</i> , 2019, 3, 3329-3334.	4.9	1
68	One-pot synthesis of bi-metallic PdRu tripods as an efficient catalyst for electrocatalytic nitrogen reduction to ammonia. <i>Journal of Materials Chemistry A</i> , 2019, 7, 801-805.	10.3	136
69	Metal-nonmetal nanoarchitectures: quaternary PtPdNiP mesoporous nanospheres for enhanced oxygen reduction electrocatalysis. <i>Journal of Materials Chemistry A</i> , 2019, 7, 3910-3916.	10.3	38
70	Ultralong Ternary PtRuTe Mesoporous Nanotubes Fabricated by Micelle Assembly with a Self-Sacrificial Template. <i>Chemistry - A European Journal</i> , 2019, 25, 5316-5321.	3.3	16
71	Trimetallic PdCuIr with long-spined sea-urchin-like morphology for ambient electroreduction of nitrogen to ammonia. <i>Journal of Materials Chemistry A</i> , 2019, 7, 3190-3196.	10.3	45
72	Direct synthesis of superlong Pt Te mesoporous nanotubes for electrocatalytic oxygen reduction. <i>Journal of Materials Chemistry A</i> , 2019, 7, 1711-1717.	10.3	46

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73	Direct fabrication of bimetallic AuPt nanobrick spherical nanoarchitectonics for the oxygen reduction reaction. <i>New Journal of Chemistry</i> , 2019, 43, 9628-9633.	2.8	7
74	Electrocatalytic Nitrogen Reduction to Ammonia by Fe <sub>2</sub> O <sub>3</sub> Nanorod Array on Carbon Cloth. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 11754-11759.	6.7	77
75	Bimetallic Ag <sub>3</sub> Cu porous networks for ambient electrolysis of nitrogen to ammonia. <i>Journal of Materials Chemistry A</i> , 2019, 7, 12526-12531.	10.3	67
76	Boosting Electrocatalytic Activities of Pt-Based Mesoporous Nanoparticles for Overall Water Splitting by a Facile Ni, P Co-Incorporation Strategy. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 9709-9716.	6.7	35
77	PtM (M = Co, Ni) Mesoporous Nanotubes as Bifunctional Electrocatalysts for Oxygen Reduction and Methanol Oxidation. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 7960-7968.	6.7	58
78	Pt@Ni@P nanocages with surface porosity as efficient bifunctional electrocatalysts for oxygen reduction and methanol oxidation. <i>Journal of Materials Chemistry A</i> , 2019, 7, 9791-9797.	10.3	63
79	Ambient Nitrogen Reduction to Ammonia Electrocatalyzed by Bimetallic PdRu Porous Nanostructures. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 2400-2405.	6.7	94
80	PtPdRh Mesoporous Nanospheres: An Efficient Catalyst for Methanol Electro-Oxidation. <i>Langmuir</i> , 2019, 35, 413-419.	3.5	26
81	Trimetallic PtPdNi-Truncated Octahedral Nanocages with a Well-Defined Mesoporous Surface for Enhanced Oxygen Reduction Electrocatalysis. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 4252-4257.	8.0	57
82	Electrochemical Fabrication of Porous Au Film on Ni Foam for Nitrogen Reduction to Ammonia. <i>Small</i> , 2019, 15, e1804769.	10.0	132
83	A platinum oxide decorated amorphous cobalt oxide hydroxide nanosheet array towards alkaline hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2018, 6, 3864-3868.	10.3	67
84	Ultrafine PtO <sub>2</sub> nanoparticles coupled with a Co(OH)F nanowire array for enhanced hydrogen evolution. <i>Chemical Communications</i> , 2018, 54, 810-813.	4.1	65
85	Enhanced Dual Fuel Cell Electrocatalysis with Trimetallic PtPdCo Mesoporous Nanoparticles. <i>Chemistry - an Asian Journal</i> , 2018, 13, 2939-2946.	3.3	24
86	Ambient Electrochemical Synthesis of Ammonia from Nitrogen and Water Catalyzed by Flower-Like Gold Microstructures. <i>ChemSusChem</i> , 2018, 11, 3480-3485.	6.8	176
87	Hyperbranched PdRu nanospine assemblies: an efficient electrocatalyst for formic acid oxidation. <i>Journal of Materials Chemistry A</i> , 2018, 6, 17514-17518.	10.3	33
88	Self-assembly synthesis of nitrogen-doped mesoporous carbons used as high-performance electrode materials in lithium-ion batteries and supercapacitors. <i>New Journal of Chemistry</i> , 2017, 41, 12901-12909.	2.8	19
89	Nitrogen-doped porous carbons with high performance for hydrogen storage. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 8489-8497.	7.1	65
90	Synthesis of N-doped hierarchical carbon spheres for CO <sub>2</sub> capture and supercapacitors. <i>RSC Advances</i> , 2016, 6, 1422-1427.	3.6	35

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91	Nanosized Cu-MOFs induced by graphene oxide and enhanced gas storage capacity. Energy and Environmental Science, 2013, 6, 818.	30.8	248