

Qin Wang

List of Publications by Year in Descending Order

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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.

108 papers	2,466 citations	27 h-index	45 g-index
116 ext. papers	3,318 ext. citations	8.7 avg, IF	5.53 L-index

#	Paper	IF	Citations
108	Highly Dispersed Platinum Chlorine Atoms Anchored on Gold Quantum Dots for a Highly Efficient Electrocatalyst.. <i>Journal of the American Chemical Society</i> , 2022 ,	16.4	7
107	Selectively Growing a Highly Active Interface of Mixed Nb-Rh Oxide/2D Carbon for Electrocatalytic Hydrogen Production.. <i>Advanced Science</i> , 2022 , e2104706	13.6	3
106	Basic Structure and Band Gap Engineering: Theoretical Study of GDYs 2022 , 13-77		
105	Loading Nickel Atoms on GDY for Efficient CO ₂ Fixation and Conversion. <i>Chemical Research in Chinese Universities</i> , 2022 , 38, 92-98	2.2	1
104	Atomic-level modulation of local coordination environment at Fe single-atom sites for enhanced oxygen reduction. <i>Applied Catalysis B: Environmental</i> , 2022 , 313, 121429	21.8	0
103	Revealing the interfacial electron modulation effect of CoFe alloys with CoCX encapsulated in N-doped CNTs for superior oxygen reduction 2021 , 1, 100023-100023		15
102	Tuning the Electronic Structure of CoP Embedded in N-Doped Porous Carbon Nanocubes Via Ru Doping for Efficient Hydrogen Evolution. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 56035-56044	9.5	3
101	Nitrogen-rich Graphdiyne Film for Efficiently Suppressing the Methanol Crossover in Direct Methanol Fuel Cells. <i>Chemical Research in Chinese Universities</i> , 2021 , 37, 1275-1282	2.2	1
100	Nitrogen-Doped Carbon Networks with Consecutive Conductive Pathways from a Facile Competitive Carbonization-Etching Strategy for High-Performance Energy Storage. <i>Small</i> , 2021 , e2104375	11	3
99	Graphdiyne Hybrid Nanowall Arrays for High-capacity Aqueous Rechargeable Zinc Ion Battery. <i>Chemical Research in Chinese Universities</i> , 2021 , 37, 1301	2.2	2
98	Facile fabrication of a stable fluorescent yellow X-10GFF/palygorskite hybrid pigment via semi-dry grinding. <i>Clay Minerals</i> , 2021 , 56, 37-45	1.3	
97	Photoinduced Electrocatalysis on 3D Flexible OsOx Quantum Dots. <i>Advanced Energy Materials</i> , 2021 , 11, 2100234	21.8	23
96	The Synergistic Effect of Oxygen Vacancy and Carbon Interface Engineering in Hollow Cerium Oxide to Achieve Enhanced Oxygen Reduction Performance. <i>ACS Applied Energy Materials</i> , 2021 , 4, 5339-5347	6.1	2
95	Hydrogen Evolution Reaction: Photoinduced Electrocatalysis on 3D Flexible OsOx Quantum Dots (Adv. Energy Mater. 18/2021). <i>Advanced Energy Materials</i> , 2021 , 11, 2170071	21.8	0
94	Acidic Water Oxidation on Quantum Dots of IrOx/Graphdiyne. <i>Advanced Energy Materials</i> , 2021 , 11, 2101138	11.3	23
93	Constructing Precise Coordination of Nickel Active Sites on Hierarchical Porous Carbon Framework for Superior Oxygen Reduction. <i>Small</i> , 2021 , 17, e2102125	11	15
92	Solvent assistance induced surface N-modification of PtCu aerogels and their enhanced electrocatalytic properties. <i>Chemical Communications</i> , 2021 , 57, 7140-7143	5.8	1

91	Acetylenic bond-driven efficient hydrogen production of a graphdiyne based catalyst. <i>Materials Chemistry Frontiers</i> , 2021 , 5, 2247-2254	7.8	15
90	Synergetic Metal Defect and Surface Chemical Reconstruction into NiCo S /ZnS Heterojunction to Achieve Outstanding Oxygen Evolution Performance. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 19435-19441	16.4	43
89	Synergetic Metal Defect and Surface Chemical Reconstruction into NiCo ₂ S ₄ /ZnS Heterojunction to Achieve Outstanding Oxygen Evolution Performance. <i>Angewandte Chemie</i> , 2021 , 133, 19584-19590	3.6	2
88	Bimetallic Mixed Clusters Highly Loaded on Porous 2D Graphdiyne for Hydrogen Energy Conversion. <i>Advanced Science</i> , 2021 , 8, e2102777	13.6	7
87	Unraveling the synergistic effect of defects and interfacial electronic structure modulation of pealike CoFe@Fe ₃ N to achieve superior oxygen reduction performance. <i>Applied Catalysis B: Environmental</i> , 2021 , 295, 120314	21.8	22
86	Incorporation of Different Metal Ion for Tuning Color and Enhancing Antioxidant Activity of Curcumin/Palygorskite Hybrid Materials.. <i>Frontiers in Chemistry</i> , 2021 , 9, 760941	5	1
85	Spontaneously Splitting Copper Nanowires into Quantum Dots on Graphdiyne for Suppressing Lithium Dendrites. <i>Advanced Materials</i> , 2020 , 32, e2004379	24	38
84	Comparative Study of the Biphasic Behavior of Cyanex301 and Its Two Analogs by Molecular Dynamics Simulations. <i>Advanced Theory and Simulations</i> , 2020 , 3, 1900242	3.5	0
83	Ca-based allosteric switches and shape shifting in RGLG1 VWA domain. <i>Computational and Structural Biotechnology Journal</i> , 2020 , 18, 821-833	6.8	5
82	The crystal structure of Arabidopsis BON1 provides insights into the copine protein family. <i>Plant Journal</i> , 2020 , 103, 1215-1232	6.9	2
81	Dual-modulation of electronic structure and active sites of PtCu nanodendrites by surface nitridation to achieve efficient methanol electrooxidation and oxygen reduction reaction. <i>Chemical Communications</i> , 2020 , 56, 7136-7139	5.8	8
80	MOF-derived hierarchical 3D bi-doped CoP nanoflower eletrocatalyst for hydrogen evolution reaction in both acidic and alkaline media. <i>Chemical Communications</i> , 2020 , 56, 7702-7705	5.8	18
79	Incorporation of quaternary ammonium chitooligosaccharides on ZnO/palygorskite nanocomposites for enhancing antibacterial activities. <i>Carbohydrate Polymers</i> , 2020 , 247, 116685	10.3	22
78	In Situ Coating Graphdiyne for High-Energy-Density and Stable Organic Cathodes. <i>Advanced Materials</i> , 2020 , 32, e2000140	24	41
77	Boosting the electrocatalytic performance of ultrathin NiP ₂ nanosheets by synergic effect of W and Ru doping engineering. <i>Applied Surface Science</i> , 2020 , 508, 145302	6.7	9
76	Achieving Superior Electrocatalytic Performance by Surface Copper Vacancy Defects during Electrochemical Etching Process. <i>Angewandte Chemie</i> , 2020 , 132, 13882-13888	3.6	15
75	Engineering Se vacancies to promote the intrinsic activities of P doped NiSe nanosheets for overall water splitting. <i>Journal of Colloid and Interface Science</i> , 2020 , 571, 260-266	9.3	19
74	Achieving Superior Electrocatalytic Performance by Surface Copper Vacancy Defects during Electrochemical Etching Process. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 13778-13784	16.4	69

73	A dehydrobenzoannulene-based three dimensional graphdiyne for photocatalytic hydrogen generation using Pt nanoparticles as a co-catalyst and triethanolamine as a sacrificial electron donor. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 4850-4855	13	14
72	Significantly improve the water and chemicals resistance of alginate-based nanocomposite films by a simple in-situ surface coating approach. <i>International Journal of Biological Macromolecules</i> , 2020 , 156, 1297-1307	7.9	6
71	The crystal structure of the TCP domain of PCF6 in <i>Oryza sativa</i> L. reveals an RHH-like fold. <i>FEBS Letters</i> , 2020 , 594, 1296-1306	3.8	2
70	Engineering of Amorphous Structures and Sulfur Defects into Ultrathin FeS Nanosheets to Achieve Superior Electrocatalytic Alkaline Oxygen Evolution. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 51846-51853	9.5	11
69	Dual-modulation of phase and electronic structure in hierarchical Ni ₃ Fe/Ni ₃ FeN catalyst by Mo-doping to achieve efficient oxygen evolution reaction. <i>Applied Surface Science</i> , 2020 , 529, 147172	6.7	7
68	Interfacial electronic structure and electrocatalytic performance modulation in Cu _{0.81} Ni _{0.19} nanoflowers by heteroatom doping engineering using ionic liquid dopant. <i>Applied Surface Science</i> , 2020 , 500, 144052	6.7	6
67	Self-Supported FeP-CoMoP Hierarchical Nanostructures for Efficient Hydrogen Evolution. <i>Chemistry - an Asian Journal</i> , 2020 , 15, 1590-1597	4.5	3
66	DNA-Guided Room-Temperature Synthesis of Single-Crystalline Gold Nanostructures on Graphdiyne Substrates. <i>ACS Central Science</i> , 2020 , 6, 779-786	16.8	7
65	Large-Area Aminated-Graphdiyne Thin Films for Direct Methanol Fuel Cells. <i>Angewandte Chemie</i> , 2019 , 131, 15152-15157	3.6	12
64	Interfacial Electronic Structure Modulation of Hierarchical Co(OH)F/CuCoS Nanocatalyst for Enhanced Electrocatalysis and Zn-Air Batteries Performances. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 37531-37540	9.5	23
63	Crystal structure of CagV, the <i>Helicobacter pylori</i> homologue of the T4SS protein VirB8. <i>FEBS Journal</i> , 2019 , 286, 4294-4309	5.7	1
62	Boosting electrocatalysis by heteroatom doping and oxygen vacancies in hierarchical Ni-Co based nitride phosphide hybrid. <i>Journal of Power Sources</i> , 2019 , 422, 33-41	8.9	24
61	Structural basis for the Target DNA recognition and binding by the MYB domain of phosphate starvation response 1. <i>FEBS Journal</i> , 2019 , 286, 2809-2821	5.7	9
60	Mo-doped Ni ₂ P hollow nanostructures: highly efficient and durable bifunctional electrocatalysts for alkaline water splitting. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 7636-7643	13	77
59	Large-Area Aminated-Graphdiyne Thin Films for Direct Methanol Fuel Cells. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 15010-15015	16.4	56
58	Direct Synthesis of Crystalline Graphdiyne Analogue Based on Supramolecular Interactions. <i>Journal of the American Chemical Society</i> , 2019 , 141, 48-52	16.4	35
57	Boosting oxygen evolution by surface nitrogen doping and oxygen vacancies in hierarchical NiCo/NiCoP hybrid nanocomposite. <i>Electrochimica Acta</i> , 2019 , 296, 259-267	6.7	36
56	Effect of removing coloring metal ions from the natural brick-red palygorskite on properties of alginate/palygorskite nanocomposite film. <i>International Journal of Biological Macromolecules</i> , 2019 , 122, 684-694	7.9	23

55	A Universal Strategy for Constructing Seamless Graphdiyne on Metal Oxides to Stabilize the Electrochemical Structure and Interface. <i>Advanced Materials</i> , 2019 , 31, e1806272	24	19
54	Soft Template-Directed Reactions: One-Pot Synthetic Route for Bimetallic Core-Satellite-Shell Structured Electrocatalytic Nanospheres. <i>ChemCatChem</i> , 2018 , 10, 2546-2550	5.2	
53	Colloidal Ni ₂ CoSn nanoparticles as efficient electrocatalysts for the methanol oxidation reaction. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 22915-22924	13	49
52	Optimal Synthesis of Environment-Friendly Iron Red Pigment from Natural Nanostructured Clay Minerals. <i>Nanomaterials</i> , 2018 , 8,	5.4	17
51	Electrocatalysts: A Facile Strategy to Construct Amorphous Spinel-Based Electrocatalysts with Massive Oxygen Vacancies Using Ionic Liquid Dopant (Adv. Energy Mater. 27/2018). <i>Advanced Energy Materials</i> , 2018 , 8, 1870121	21.8	8
50	MOF-derived porous Ni ₂ P nanosheets as novel bifunctional electrocatalysts for the hydrogen and oxygen evolution reactions. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 18720-18727	13	96
49	A Facile Strategy to Construct Amorphous Spinel-Based Electrocatalysts with Massive Oxygen Vacancies Using Ionic Liquid Dopant. <i>Advanced Energy Materials</i> , 2018 , 8, 1800980	21.8	105
48	Low-Temperature Growth of All-Carbon Graphdiyne on a Silicon Anode for High-Performance Lithium-Ion Batteries. <i>Advanced Materials</i> , 2018 , 30, e1801459	24	192
47	The novel synthesis of a continuous tube with laminated g-CN nanosheets for enhancing photocatalytic activity and oxygen evolution reaction performance. <i>Dalton Transactions</i> , 2018 , 47, 10240-10248	4.3	17
46	Mn doping of cobalt oxynitride coupled with N-rGO nanosheets hybrid as a highly efficient electrocatalyst for oxygen reduction and oxygen evolution reaction. <i>Electrochimica Acta</i> , 2018 , 283, 548-559	6.7	23
45	The oxygen reduction reaction mechanism on Sn doped graphene as an electrocatalyst in fuel cells: a DFT study. <i>RSC Advances</i> , 2017 , 7, 729-734	3.7	15
44	Well-defined Co _x CeO _{2-x} /MoS ₂ nanotube hybrids as novel electrocatalysts for promising hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 9523-9527	13	14
43	CoN embedded graphene, a potential catalyst for the oxygen reduction reaction from a theoretical perspective. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 17670-17676	3.6	31
42	Rapid Ultrasound-Assisted Synthesis of Mesoporous Manganese Oxides for Low-Concentration NO Elimination with Superior Water-Resistance. <i>European Journal of Inorganic Chemistry</i> , 2017 , 2017, 2573-2579	2.3	1
41	Electro-Fenton oxidation of coking wastewater: optimization using the combination of central composite design and convex optimization method. <i>Environmental Technology (United Kingdom)</i> , 2017 , 38, 2456-2464	2.6	6
40	Phosphorus and Fluorine Co-Doping Induced Enhancement of Oxygen Evolution Reaction in Bimetallic Nitride Nanorods Arrays: Ionic Liquid-Driven and Mechanism Clarification. <i>Chemistry - A European Journal</i> , 2017 , 23, 16862-16870	4.8	33
39	Synergy of facet control and surface metalloid modification on hierarchical Pt ₃ Ni nanoroses toward high electrocatalytic activity. <i>CrystEngComm</i> , 2017 , 19, 4964-4971	3.3	3
38	Development of a Wattco parallel autoclave system synthesis technique for tailoring surface compositions and valence states of Pt ₃ Fe alloys to realize bifunctional electrocatalysis. <i>CrystEngComm</i> , 2017 , 19, 7322-7331	3.3	10

- 37 Unexpected catalytic performance of Fe-M-C (M = N, P, and S) electrocatalysts towards oxygen reduction reaction: surface heteroatoms boost the activity of FeM/graphene nanocomposites. *Dalton Transactions*, **2017**, 46, 16885-16894 4.3 11
- 36 From illite/smectite clay to mesoporous silicate adsorbent for efficient removal of chlortetracycline from water. *Journal of Environmental Sciences*, **2017**, 51, 31-43 6.4 26
- 35 Hierarchical carbon and nitrogen adsorbed PtNiCo nanocomposites with multiple active sites for oxygen reduction and methanol oxidation reactions. *Journal of Materials Chemistry A*, **2016**, 4, 12296-12307 13.7 36
- 34 A facile hydrothermal etching process to in situ synthesize highly efficient TiO₂/Ag nanocube photocatalysts with high-energy facets exposed for enhanced photocatalytic performance. *CrystEngComm*, **2016**, 18, 6444-6452 3.3 8
- 33 Theoretical insights on the catalytic activity and mechanism for oxygen reduction reaction at Fe and P codoped graphene. *Physical Chemistry Chemical Physics*, **2016**, 18, 12675-81 3.6 20
- 32 A mild and environmentally benign strategy towards hierarchical CeO₂/Au nanoparticle assemblies with crystal facet-enhanced catalytic effects for benzyl alcohol aerobic oxidation. *CrystEngComm*, **2016**, 18, 5110-5120 3.3 11
- 31 Theoretical Investigation on the Reaction Pathways of the Oxygen Reduction Reaction on Graphene Codoped with Manganese and Phosphorus as a Potential Nonprecious Metal Catalyst. *ChemCatChem*, **2016**, 8, 3353-3360 5.2 6
- 30 DFT Study on the Methane Synthesis from Syngas on a Cerium-Doped Ni(111) Surface. *Journal of Physical Chemistry C*, **2016**, 120, 23030-23043 3.8 15
- 29 The oxygen reduction reaction on Pt(111) and Pt(100) surfaces substituted by subsurface Cu: a theoretical perspective. *Journal of Materials Chemistry A*, **2015**, 3, 11444-11452 13 75
- 28 Variation of redox activity and synergistic effect for improving the preferential oxidation of CO in H₂-rich gases in porous Pt/CeO₂/Co₃O₄ catalysts. *Catalysis Science and Technology*, **2015**, 5, 5139-5152 5.5 36
- 27 A pH sensitive carboxymethyl cellulose-g-poly (acrylic acid)/polyvinylpyrrolidone/sodium alginate composite hydrogel bead for the controlled release of diclofenac. *Journal of Controlled Release*, **2015**, 213, e91-2 11.7 2
- 26 Effect of different clay minerals and calcination temperature on the morphology and color of clay/CoAl₂O₄ hybrid pigments. *RSC Advances*, **2015**, 5, 102674-102681 3.7 17
- 25 Novel recyclable dual-heterostructured Fe₃O₄@CeO₂/M (M = Pt, Pd and PtPd) catalysts: synergetic and redox effects for superior catalytic performance. *Journal of Materials Chemistry A*, **2015**, 3, 139-147 13 91
- 24 Facile preparation of magnetic 2-hydroxypropyltrimethyl ammonium chloride chitosan/Fe₃O₄/halloysite nanotubes microspheres for the controlled release of ofloxacin. *Carbohydrate Polymers*, **2014**, 102, 877-83 10.3 39
- 23 Three dimensionally ordered macroporous Au/CeO₂ catalysts synthesized via different methods for enhanced CO preferential oxidation in H₂-rich gases. *RSC Advances*, **2014**, 4, 5975 3.7 42
- 22 Controlled fabrication of bi-functional Fe₃O₄@SiO₂@Gd₂O₃:Yb,Er nanoparticles and their magnetic, up-conversion luminescent properties. *RSC Advances*, **2014**, 4, 44575-44582 3.7 10
- 21 Bactericidal evaluation of N-halamine-functionalized silica nanoparticles based on barbituric acid. *Colloids and Surfaces B: Biointerfaces*, **2014**, 113, 450-7 6 34
- 20 Superhydrophobic Gated Polyorganosilanes/Halloysite Nanocontainers for Sustained Drug Release. *Advanced Materials Interfaces*, **2014**, 1, 1300136 4.6 21

19	Adsorption and release of ofloxacin from acid- and heat-treated halloysite. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014 , 113, 51-8	6	71
18	Synthesis of NaYF ₄ :Eu ³⁺ /Tb ³⁺ nanostructures with diverse morphologies and their size- and morphology-dependent photoluminescence. <i>CrystEngComm</i> , 2013 , 15, 8262	3.3	15
17	Spray-dried magnetic chitosan/Fe ₃ O ₄ /halloysite nanotubes/ofloxacin microspheres for sustained release of ofloxacin. <i>RSC Advances</i> , 2013 , 3, 23423	3.7	21
16	Synthesis and oil absorption of poly(butylmethacrylate)/organo-attapulgite nanocomposite by suspended emulsion polymerization. <i>Polymer Composites</i> , 2013 , 34, 274-281	3	20
15	Preparation of magnetic attapulgite nanocomposite for the adsorption of Ag ⁺ and application for catalytic reduction of 4-nitrophenol. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 7083	13	38
14	Hierarchical structure based on Pd(Au) nanoparticles grafted onto magnetite cores and double layered shells: enhanced activity for catalytic applications. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 12732	12	78
13	Application of core-shell-structured CdTe@SiO ₂ quantum dots synthesized via a facile solution method for improving latent fingerprint detection. <i>Journal of Nanoparticle Research</i> , 2012 , 14, 1	2.3	22
12	Controllable synthesis of nearly monodisperse spherical aggregates of CeO ₂ nanocrystals and their catalytic activity for HCHO oxidation. <i>Chemistry - an Asian Journal</i> , 2012 , 7, 2258-67	4.5	11
11	Controllable synthesis and magnetic property of Fe/Fe ₃ O ₄ polyhedron synthesized by solvothermal method. <i>Journal of Materials Science: Materials in Electronics</i> , 2012 , 23, 1527-1532	2.1	6
10	Effect of attapulgite contents on release behaviors of a pH sensitive carboxymethyl cellulose-g-poly(acrylic acid)/attapulgite/sodium alginate composite hydrogel bead containing diclofenac. <i>Journal of Applied Polymer Science</i> , 2011 , 124, n/a-n/a	2.9	3
9	pH-responsive carboxymethylcellulose-g-poly(sodium acrylate)/polyvinylpyrrolidone semi-IPN hydrogels with enhanced responsive and swelling properties. <i>Macromolecular Research</i> , 2011 , 19, 57-65	1.9	63
8	XRF and nitrogen adsorption studies of acid-activated palygorskite. <i>Clay Minerals</i> , 2010 , 45, 145-156	1.3	35
7	Preparation and swelling properties of pH-sensitive composite hydrogel beads based on chitosan-g-poly (acrylic acid)/vermiculite and sodium alginate for diclofenac controlled release. <i>International Journal of Biological Macromolecules</i> , 2010 , 46, 356-62	7.9	122
6	ZrO ₂ -SiO ₂ AEROGEL SUPPORTED COBALT CATALYSTS FOR THE SYNTHESIS OF LONG-CHAIN HYDROCARBON FROM SYNGAS. <i>Petroleum Science and Technology</i> , 1999 , 17, 981-998	1.4	6
5	Controlled Growth of Single-Crystal Pd Quantum Dots on 2D Carbon for Large Current Density Hydrogen Evolution. <i>Advanced Functional Materials</i> , 2111501	15.6	1
4	1D Nanowire Heterojunction Electrocatalysts of MnCo ₂ O ₄ /GDY for Efficient Overall Water Splitting. <i>Advanced Functional Materials</i> , 2107179	15.6	4
3	Activity Origins of Graphdiyne Based Bifunctional Atom Catalysts for Hydrogen Evolution and Water Oxidation. <i>Chemical Research in Chinese Universities</i> , 1	2.2	0
2	Dynamic evolution of nitrogen and oxygen dual-coordinated single atomic copper catalyst during partial oxidation of benzene to phenol. <i>Nano Research</i> , 1	10	3

- 1 Selective Conversion of CO₂ into Cyclic Carbonate on Atom Level Catalysts. *ACS Materials Au*,

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