

# Meiling Xiao

## List of Publications by Year in descending order

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53  
papers

5,599  
citations

117571

34  
h-index

168321

53  
g-index

54  
all docs

54  
docs citations

54  
times ranked

6653  
citing authors

#	ARTICLE	IF	CITATIONS
1	Meso/Macroporous Nitrogen-Doped Carbon Architectures with Iron Carbide Encapsulated in Graphitic Layers as an Efficient and Robust Catalyst for the Oxygen Reduction Reaction in Both Acidic and Alkaline Solutions. <i>Advanced Materials</i> , 2015, 27, 2521-2527.	11.1	521
2	Chemically activating MoS <sub>2</sub> via spontaneous atomic palladium interfacial doping towards efficient hydrogen evolution. <i>Nature Communications</i> , 2018, 9, 2120.	5.8	461
3	Surface Oxidized Cobalt-Phosphide Nanorods As an Advanced Oxygen Evolution Catalyst in Alkaline Solution. <i>ACS Catalysis</i> , 2015, 5, 6874-6878.	5.5	441
4	Climbing the Apex of the ORR Volcano Plot via Binuclear Site Construction: Electronic and Geometric Engineering. <i>Journal of the American Chemical Society</i> , 2019, 141, 17763-17770.	6.6	436
5	Microporous Framework Induced Synthesis of Single-Atom Dispersed Fe-N-C Acidic ORR Catalyst and Its in Situ Reduced Fe-N <sub>4</sub> Active Site Identification Revealed by X-ray Absorption Spectroscopy. <i>ACS Catalysis</i> , 2018, 8, 2824-2832.	5.5	433
6	Identification of binuclear Co <sub>2</sub> N <sub>5</sub> active sites for oxygen reduction reaction with more than one magnitude higher activity than single atom CoN <sub>4</sub> site. <i>Nano Energy</i> , 2018, 46, 396-403.	8.2	319
7	A Single-Atom Iridium Heterogeneous Catalyst in Oxygen Reduction Reaction. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 9640-9645.	7.2	312
8	Engineering Energy Level of Metal Center: Ru Single-Atom Site for Efficient and Durable Oxygen Reduction Catalysis. <i>Journal of the American Chemical Society</i> , 2019, 141, 19800-19806.	6.6	288
9	Preferentially Engineering FeN <sub>4</sub> Edge Sites onto Graphitic Nanosheets for Highly Active and Durable Oxygen Electrocatalysis in Rechargeable Zn-Air Batteries. <i>Advanced Materials</i> , 2020, 32, e2004900.	11.1	235
10	Metal-Organic Framework-Induced Synthesis of Ultrasmall Encased NiFe Nanoparticles Coupling with Graphene as an Efficient Oxygen Electrode for a Rechargeable Zn-Air Battery. <i>ACS Catalysis</i> , 2016, 6, 6335-6342.	5.5	210
11	Quasi-Covalently Coupled Ni-Cu Atomic Pair for Synergistic Electroreduction of CO <sub>2</sub> . <i>Journal of the American Chemical Society</i> , 2022, 144, 9661-9671.	6.6	134
12	3d-Orbital Occupancy Regulated Ir-Co Atomic Pair Toward Superior Bifunctional Oxygen Electrocatalysis. <i>ACS Catalysis</i> , 2021, 11, 8837-8846.	5.5	110
13	Graphene Quantum Dots-Based Advanced Electrode Materials: Design, Synthesis and Their Applications in Electrochemical Energy Storage and Electrocatalysis. <i>Advanced Energy Materials</i> , 2020, 10, 2001275.	10.2	109
14	Hierarchically Porous Multimetal-Based Carbon Nanorod Hybrid as an Efficient Oxygen Catalyst for Rechargeable Zinc-Air Batteries. <i>Advanced Functional Materials</i> , 2020, 30, 1908167.	7.8	105
15	Correlating Fe source with Fe-N-C active site construction: Guidance for rational design of high-performance ORR catalyst. <i>Journal of Energy Chemistry</i> , 2018, 27, 1668-1673.	7.1	104
16	Highly polarized carbon nano-architecture as robust metal-free catalyst for oxygen reduction in polymer electrolyte membrane fuel cells. <i>Nano Energy</i> , 2018, 49, 23-30.	8.2	90
17	Defect-Enriched Nitrogen Doped Graphene Quantum Dots Engineered NiCo <sub>2</sub> S <sub>4</sub> Nanoarray as High-Efficiency Bifunctional Catalyst for Flexible Zn-Air Battery. <i>Small</i> , 2019, 15, e1903610.	5.2	84
18	Selectively doping pyridinic and pyrrolic nitrogen into a 3D porous carbon matrix through template-induced edge engineering: enhanced catalytic activity towards the oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2017, 5, 21709-21714.	5.2	76

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19	A Triphasic Bifunctional Oxygen Electrocatalyst with Tunable and Synergetic Interfacial Structure for Rechargeable Zn–Air Batteries. <i>Advanced Energy Materials</i> , 2020, 10, 1903003.	10.2	74
20	A "trimurti" heterostructured hybrid with an intimate CoO/Co <sub>x</sub> P interface as a robust bifunctional air electrode for rechargeable Zn–air batteries. <i>Journal of Materials Chemistry A</i> , 2020, 8, 9177-9184.	5.2	72
21	Rapid synthesis of a PtRu nano-sponge with different surface compositions and performance evaluation for methanol electrooxidation. <i>Nanoscale</i> , 2015, 7, 9467-9471.	2.8	71
22	Significantly enhanced oxygen reduction reaction performance of N-doped carbon by heterogeneous sulfur incorporation: synergistic effect between the two dopants in metal-free catalysts. <i>Journal of Materials Chemistry A</i> , 2016, 4, 7422-7429.	5.2	71
23	Nanoporous IrO <sub>2</sub> catalyst with enhanced activity and durability for water oxidation owing to its micro/mesoporous structure. <i>Nanoscale</i> , 2017, 9, 9291-9298.	2.8	66
24	Growth mechanism and active site probing of Fe <sub>3</sub> C@N-doped carbon nanotubes/C catalysts: guidance for building highly efficient oxygen reduction electrocatalysts. <i>Journal of Materials Chemistry A</i> , 2015, 3, 21451-21459.	5.2	65
25	Materials Engineering toward Durable Electrocatalysts for Proton Exchange Membrane Fuel Cells. <i>Advanced Energy Materials</i> , 2022, 12, .	10.2	61
26	A Single-Atom Iridium Heterogeneous Catalyst in Oxygen Reduction Reaction. <i>Angewandte Chemie</i> , 2019, 131, 9742-9747.	1.6	59
27	The construction of nitrogen-doped graphitized carbon–TiO <sub>2</sub> composite to improve the electrocatalyst for methanol oxidation. <i>Carbon</i> , 2014, 72, 114-124.	5.4	58
28	Enhanced Catalytic Performance of Composition-Tunable PtCu Nanowire Networks for Methanol Electrooxidation. <i>ChemCatChem</i> , 2014, 6, 2825-2831.	1.8	54
29	Hydrogen etching induced hierarchical meso/micro-pore structure with increased active density to boost ORR performance of Fe-N-C catalyst. <i>Journal of Energy Chemistry</i> , 2019, 35, 17-23.	7.1	53
30	Recent developments of iridium-based catalysts for the oxygen evolution reaction in acidic water electrolysis. <i>Journal of Materials Chemistry A</i> , 2022, 10, 13170-13189.	5.2	47
31	Tensile-strained ruthenium phosphide by anion substitution for highly active and durable hydrogen evolution. <i>Nano Energy</i> , 2020, 77, 105212.	8.2	39
32	Nitrogen-doped carbon–graphene composites enhance the electrocatalytic performance of the supported Pt catalysts for methanol oxidation. <i>Chemical Communications</i> , 2014, 50, 12201-12203.	2.2	37
33	Advanced Electrode Materials Comprising of Structure-Engineered Quantum Dots for High-Performance Asymmetric Micro-Supercapacitors. <i>Advanced Energy Materials</i> , 2020, 10, 1903724.	10.2	36
34	The enhanced electrocatalytic activity and stability of supported Pt nanoparticles for methanol electro-oxidation through the optimized oxidation degree of carbon nanotubes. <i>Journal of Power Sources</i> , 2015, 281, 34-43.	4.0	35
35	Low-temperature synthesis of nitrogen doped carbon nanotubes as promising catalyst support for methanol oxidation. <i>Journal of Energy Chemistry</i> , 2019, 28, 118-122.	7.1	28
36	Evidence for interfacial geometric interactions at metal–support interfaces and their influence on the electroactivity and stability of Pt nanoparticles. <i>Journal of Materials Chemistry A</i> , 2020, 8, 1368-1377.	5.2	25

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37	Highly Active PtAu Nanowire Networks for Formic Acid Oxidation. <i>ChemPlusChem</i> , 2014, 79, 1123-1128.	1.3	24
38	Titanium dioxide encapsulated in nitrogen-doped carbon enhances the activity and durability of platinum catalyst for Methanol electro-oxidation reaction. <i>Journal of Power Sources</i> , 2015, 292, 78-86.	4.0	24
39	Active Pt <sub>3</sub> Ni (111) Surface of Pt <sub>3</sub> Ni Icosahedron for Oxygen Reduction. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 30066-30071.	4.0	21
40	Pt@Pb hollow sphere networks: self-sacrifice-templating method and enhanced activity for formic acid electrooxidation. <i>RSC Advances</i> , 2013, 3, 1763.	1.7	15
41	Manipulating Au@CeO <sub>2</sub> Interfacial Structure Toward Ultrahigh Mass Activity and Selectivity for CO <sub>2</sub> Reduction. <i>ChemSusChem</i> , 2020, 13, 6621-6628.	3.6	15
42	Colloidal silica assisted fabrication of N,O,S-tridoped porous carbon nanosheets with excellent oxygen reduction performance. <i>Chemical Communications</i> , 2018, 54, 4017-4020.	2.2	14
43	Structural Advantage Induced by Sulfur to Boost the Catalytic Performance of FeNC Catalyst towards the Oxygen Reduction Reaction. <i>ChemCatChem</i> , 2018, 10, 3653-3658.	1.8	13
44	Nitrogen, Iron-codoped Mesoporous Carbon with bimodal-pores as an Efficient Catalyst for the Oxygen Reduction Reaction. <i>Electrochimica Acta</i> , 2016, 209, 551-556.	2.6	11
45	Advanced architecture carbon with in-situ embedded ultrafine titanium dioxide as outstanding support material for platinum catalysts towards methanol electrooxidation. <i>Electrochimica Acta</i> , 2017, 235, 508-518.	2.6	11
46	Highly Stable Low-Cost Electrochemical Gas Sensor with an Alcohol-Tolerant N,S-Codoped Non-Precious Metal Catalyst Air Cathode. <i>ACS Sensors</i> , 2021, 6, 752-763.	4.0	7
47	Promotion of Mesoporous Vanadium Carbide Incorporated on Resorcinol-Formaldehyde Resin Carbon Composites with High Surface Areas on Platinum Catalysts for Methanol Electrooxidation. <i>ChemCatChem</i> , 2014, 6, 3387-3395.	1.8	6
48	Oxygen-vacancy-rich TiO <sub>2</sub> enables highly active and durable water electrolysis of urchin-like RuO <sub>2</sub> catalyst. <i>Science China Technological Sciences</i> , 2022, 65, 2317-2324.	2.0	6
49	Interfacial Proton Transfer for Hydrogen Evolution at the Sub-Nanometric Platinum/Electrolyte Interface. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 47252-47261.	4.0	4
50	Preparation Strategy Using Pre-Nucleation Coupled with In Situ Reduction for a High-Performance Catalyst towards Selective Hydrogen Production from Formic Acid. <i>Catalysts</i> , 2022, 12, 325.	1.6	3
51	Polymer-chelation approach to high-performance Fe-Nx-C catalyst towards oxygen reduction reaction. <i>Chinese Chemical Letters</i> , 2023, 34, 107455.	4.8	3
52	A Single-Atom Iridium Heterogeneous Catalyst in Oxygen Reduction Reaction (Angew.)	1.6	1
53	Pd@Pt/C catalysts fabricated using chemisorbed CO as in situ reductant: advanced catalytic behaviour for formic acid oxidation. <i>RSC Advances</i> , 2014, 4, 57819-57822.	1.7	0