

Mingjie Wu

List of Publications by Year in descending order

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42
papers

4,876
citations

136740

32
h-index

264894

42
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44
all docs

44
docs citations

44
times ranked

7168
citing authors

#	ARTICLE	IF	CITATIONS
1	Single-Atom Au/NiFe Layered Double Hydroxide Electrocatalyst: Probing the Origin of Activity for Oxygen Evolution Reaction. <i>Journal of the American Chemical Society</i> , 2018, 140, 3876-3879.	6.6	817
2	Single-atom Catalysis Using Pt/Graphene Achieved through Atomic Layer Deposition. <i>Scientific Reports</i> , 2013, 3, .	1.6	719
3	High-Performance Reversible Aqueous Zn-Ion Battery Based on Porous MnO _x Nanorods Coated by MOF-Derived N-Doped Carbon. <i>Advanced Energy Materials</i> , 2018, 8, 1801445.	10.2	430
4	A Highly Durable Platinum Nanocatalyst for Proton Exchange Membrane Fuel Cells: Multiarmed Starlike Nanowire Single Crystal. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 422-426.	7.2	344
5	Controlled Growth of Pt Nanowires on Carbon Nanospheres and Their Enhanced Performance as Electrocatalysts in PEM Fuel Cells. <i>Advanced Materials</i> , 2008, 20, 3900-3904.	11.1	318
6	Noble metals-TiO ₂ nanocomposites: From fundamental mechanisms to photocatalysis, surface enhanced Raman scattering and antibacterial applications. <i>Applied Materials Today</i> , 2018, 11, 82-135.	2.3	231
7	Stabilizing lithium metal anode by octaphenyl polyoxyethylene-lithium complexation. <i>Nature Communications</i> , 2020, 11, 643.	5.8	161
8	Direct Growth of Single-Crystal Pt Nanowires on Sn@CNT Nanocable: 3D Electrodes for Highly Active Electrocatalysts. <i>Chemistry - A European Journal</i> , 2010, 16, 829-835.	1.7	117
9	Well-Defined Nanostructures for Electrochemical Energy Conversion and Storage. <i>Advanced Energy Materials</i> , 2021, 11, 2001537.	10.2	102
10	Fe/Co Double Hydroxide/Oxide Nanoparticles on N-Doped CNTs as Highly Efficient Electrocatalyst for Rechargeable Liquid and Quasi-Solid-State Zinc-Air Batteries. <i>Advanced Energy Materials</i> , 2018, 8, 1801836.	10.2	94
11	Engineering interfacial structure in "Giant"-PbS/CdS quantum dots for photoelectrochemical solar energy conversion. <i>Nano Energy</i> , 2016, 30, 531-541.	8.2	88
12	Porous Dendritic Platinum Nanotubes with Extremely High Activity and Stability for Oxygen Reduction Reaction. <i>Scientific Reports</i> , 2013, 3, 1526.	1.6	85
13	3D Porous Fe/N/C Spherical Nanostructures As High-Performance Electrocatalysts for Oxygen Reduction in Both Alkaline and Acidic Media. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 36944-36954.	4.0	83
14	Biomass-derived nonprecious metal catalysts for oxygen reduction reaction: The demand-oriented engineering of active sites and structures. , 2020, 2, 561-581.		83
15	An active and robust Si-Fe/N/C catalyst derived from waste reed for oxygen reduction. <i>Applied Catalysis B: Environmental</i> , 2018, 237, 85-93.	10.8	78
16	Rational design of novel nanostructured arrays based on porous AAO templates for electrochemical energy storage and conversion. <i>Nano Energy</i> , 2019, 55, 234-259.	8.2	71
17	Novel rare earth metal-doped one-dimensional TiO ₂ nanostructures: Fundamentals and multifunctional applications. <i>Materials Today Sustainability</i> , 2021, 13, 100066.	1.9	66
18	Ultrathin single crystal Pt nanowires grown on N-doped carbon nanotubes. <i>Chemical Communications</i> , 2009, , 7048.	2.2	63

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19	Litchi-like porous Fe/N/C spheres with atomically dispersed FeN _x promoted by sulfur as highly efficient oxygen electrocatalysts for Zn–air batteries. <i>Journal of Materials Chemistry A</i> , 2018, 6, 4605-4610.	5.2	54
20	Rational Design of Novel Catalysts with Atomic Layer Deposition for the Reduction of Carbon Dioxide. <i>Advanced Energy Materials</i> , 2019, 9, 1900889.	10.2	53
21	Phosphor Polymer Nanocomposite: ZnO:Tb ³⁺ Embedded Polystyrene Nanocomposite Thin Films for Solid-State Lighting Applications. <i>ACS Applied Nano Materials</i> , 2018, 1, 977-988.	2.4	51
22	Atomically Dispersed Fe-Co Bimetallic Catalysts for the Promoted Electroreduction of Carbon Dioxide. <i>Nano-Micro Letters</i> , 2022, 14, 25.	14.4	49
23	Engineering of electrocatalyst/electrolyte interface for ambient ammonia synthesis. <i>SusMat</i> , 2021, 1, 150-173.	7.8	47
24	Nanostructured Metal Borides for Energy-Related Electrocatalysis: Recent Progress, Challenges, and Perspectives. <i>Small Methods</i> , 2021, 5, e2100699.	4.6	47
25	Three growth modes and mechanisms for highly structure-tunable SnO ₂ nanotube arrays of template-directed atomic layer deposition. <i>Journal of Materials Chemistry</i> , 2011, 21, 12321.	6.7	46
26	Nanostructured Cobalt-Based Electrocatalysts for CO ₂ Reduction: Recent Progress, Challenges, and Perspectives. <i>Small</i> , 2020, 16, e2004158.	5.2	45
27	Heterostructured quantum dot architectures for efficient and stable photoelectrochemical hydrogen production. <i>Journal of Materials Chemistry A</i> , 2018, 6, 6822-6829.	5.2	44
28	Efficient and stable photoelectrochemical hydrogen generation using optimized colloidal heterostructured quantum dots. <i>Nano Energy</i> , 2021, 79, 105416.	8.2	43
29	Heterostructural coaxial nanotubes of CNT@Fe ₂ O ₃ via atomic layer deposition: effects of surface functionalization and nitrogen-doping. <i>Journal of Nanoparticle Research</i> , 2011, 13, 1207-1218.	0.8	40
30	Emerging applications of atomic layer deposition for the rational design of novel nanostructures for surface-enhanced Raman scattering. <i>Journal of Materials Chemistry C</i> , 2019, 7, 1447-1471.	2.7	37
31	Electrode Engineering by Atomic Layer Deposition for Sodium-Ion Batteries: From Traditional to Advanced Batteries. <i>Advanced Functional Materials</i> , 2020, 30, 1906890.	7.8	36
32	Plasma nitriding induced growth of Pt-nanowire arrays as high performance electrocatalysts for fuel cells. <i>Scientific Reports</i> , 2014, 4, 6439.	1.6	33
33	Multi-metallic catalysts for the electroreduction of carbon dioxide: Recent advances and perspectives. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 155, 111922.	8.2	32
34	Electrocatalytic Oxygen Evolution Reaction in Acidic Conditions: Recent Progress and Perspectives. <i>ChemSusChem</i> , 2021, 14, 4636-4657.	3.6	28
35	Highly Stable and Active Pt/Nb-TiO ₂ Carbon-Free Electrocatalyst for Proton Exchange Membrane Fuel Cells. <i>Journal of Nanotechnology</i> , 2012, 2012, 1-8.	1.5	26
36	Design and engineering of graphene nanostructures as independent solar-driven photocatalysts for emerging applications in the field of energy and environment. <i>Molecular Systems Design and Engineering</i> , 2022, 7, 213-238.	1.7	26

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37	Green synthesis of near infrared core/shell quantum dots for photocatalytic hydrogen production. <i>Nanotechnology</i> , 2016, 27, 495405.	1.3	25
38	Near-Infrared Colloidal Manganese-Doped Quantum Dots: Photoluminescence Mechanism and Temperature Response. <i>ACS Photonics</i> , 2019, 6, 2421-2431.	3.2	20
39	Fe-N4 Doped Carbon Nanotube Cathode Catalyst for PEM Fuel Cells. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 48923-48933.	4.0	18
40	Inside Cover: Direct Growth of Single-Crystal Pt Nanowires on Sn@CNT Nanocable: 3D Electrodes for Highly Active Electrocatalysts (<i>Chem. Eur. J.</i> 3/2010). <i>Chemistry - A European Journal</i> , 2010, 16, 732-732.	1.7	7
41	Titelbild: A Highly Durable Platinum Nanocatalyst for Proton Exchange Membrane Fuel Cells: Multiarmed Starlike Nanowire Single Crystal (<i>Angew. Chem.</i> 2/2011). <i>Angewandte Chemie</i> , 2011, 123, 341-341.	1.6	2
42	Cover Picture: A Highly Durable Platinum Nanocatalyst for Proton Exchange Membrane Fuel Cells: Multiarmed Starlike Nanowire Single Crystal (<i>Angew. Chem. Int. Ed.</i> 2/2011). <i>Angewandte Chemie - International Edition</i> , 2011, 50, 325-325.	7.2	1