

Tanyuan Wang

List of Publications by Year in descending order

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55
papers

5,643
citations

93792

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169272

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times ranked

9693
citing authors

#	ARTICLE	IF	CITATIONS
1	Atomically dispersed Zn-Co-N-C catalyst boosting efficient and robust oxygen reduction catalysis in acid via stabilizing Co-N bonds. <i>Fundamental Research</i> , 2023, 3, 909-917.	1.6	4
2	Breaking the scaling relations of oxygen evolution reaction on amorphous NiFeP nanostructures with enhanced activity for overall seawater splitting. <i>Applied Catalysis B: Environmental</i> , 2022, 302, 120862.	10.8	97
3	Effective Approaches for Designing Stable N _x /C Oxygen-Reduction Catalysts for Proton-Exchange-Membrane Fuel Cells. <i>Advanced Materials</i> , 2022, 34, e2200595.	11.1	38
4	Molybdenum-doped ordered L1 ₀ -PdZn nanosheets for enhanced oxygen reduction electrocatalysis. <i>SusMat</i> , 2022, 2, 347-356.	7.8	13
5	Regulating Pd-catalysis for electrocatalytic CO ₂ reduction to formate via intermetallic PdBi nanosheets. <i>Chinese Journal of Catalysis</i> , 2022, 43, 1680-1686.	6.9	20
6	Protrusion-Rich Cu@NiRu Core-shell Nanotubes for Efficient Alkaline Hydrogen Evolution Electrocatalysis. <i>Small</i> , 2022, 18, .	5.2	10
7	Boosting Pd-catalysis for electrochemical CO ₂ reduction to CO on Bi-Pd single atom alloy nanodendrites. <i>Applied Catalysis B: Environmental</i> , 2021, 289, 119783.	10.8	80
8	Engineering the atomic arrangement of bimetallic catalysts for electrochemical CO ₂ reduction. <i>Chemical Communications</i> , 2021, 57, 1839-1854.	2.2	23
9	An effective dual-modification strategy to enhance the performance of LiNi _{0.6} Co _{0.2} Mn _{0.2} O ₂ cathode for Li-ion batteries. <i>Nanoscale</i> , 2021, 13, 4670-4677.	2.8	17
10	Yolk@Shell Structured MnS@Nitrogen-Doped Carbon as a Sulfur Host and Polysulfide Conversion Booster for Lithium/Sodium Sulfur Batteries. <i>ACS Applied Energy Materials</i> , 2021, 4, 3487-3494.	2.5	16
11	Weakening Intermediate Bindings on CuPd/Pd Core/shell Nanoparticles to Achieve Pt-Like Bifunctional Activity for Hydrogen Evolution and Oxygen Reduction Reactions. <i>Advanced Functional Materials</i> , 2021, 31, 2100883.	7.8	68
12	Accelerated polysulfide conversion on hierarchical porous vanadium-nitrogen-carbon for advanced lithium-sulfur batteries. <i>Nanoscale</i> , 2020, 12, 584-590.	2.8	26
13	Phase-transformed Mo ₄ P ₃ nanoparticles as efficient catalysts towards lithium polysulfide conversion for lithium-sulfur battery. <i>Electrochimica Acta</i> , 2020, 330, 135310.	2.6	44
14	Hydrochloric acid corrosion induced bifunctional free-standing NiFe hydroxide nanosheets towards high-performance alkaline seawater splitting. <i>Nanoscale</i> , 2020, 12, 21743-21749.	2.8	43
15	Core-shell Sb@Sb ₂ O ₃ nanoparticles anchored on 3D nitrogen-doped carbon nanosheets as advanced anode materials for Li-ion batteries. <i>Nanoscale Advances</i> , 2020, 2, 5578-5583.	2.2	9
16	Bifunctional Atomically Dispersed Mo ₂ N ₂ /C Nanosheets Boost Lithium Sulfide Deposition/Decomposition for Stable Lithium-Sulfur Batteries. <i>ACS Nano</i> , 2020, 14, 10115-10126.	7.3	106
17	Oxygen Reduction: Biaxial Strains Mediated Oxygen Reduction Electrocatalysis on Fenton Reaction Resistant L1 ₀ -PtZn Fuel Cell Cathode (Adv. Energy Mater. 29/2020). <i>Advanced Energy Materials</i> , 2020, 10, 2070124.	10.2	5
18	Promoting C ₂₊ Production from Electrochemical CO ₂ Reduction on Shape-Controlled Cuprous Oxide Nanocrystals with High-Index Facets. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 15223-15229.	3.2	51

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19	Biaxial Strains Mediated Oxygen Reduction Electrocatalysis on Fenton Reaction Resistant L1_O-PtZn Fuel Cell Cathode. <i>Advanced Energy Materials</i> , 2020, 10, 2000179.	10.2	112
20	Tuning the oxygen evolution electrocatalysis on NiFe-layered double hydroxides via sulfur doping. <i>Chinese Journal of Catalysis</i> , 2020, 41, 847-852.	6.9	53
21	Recent Progress in Electrocatalysts for Acidic Water Oxidation. <i>Advanced Energy Materials</i> , 2020, 10, 2000478.	10.2	162
22	Ultrathin and defect-rich intermetallic Pd₂Sn nanosheets for efficient oxygen reduction electrocatalysis. <i>Journal of Materials Chemistry A</i> , 2020, 8, 15665-15669.	5.2	54
23	Tungsten-Doped L1 0 -PtCo Ultrasmall Nanoparticles as a High-Performance Fuel Cell Cathode. <i>Angewandte Chemie</i> , 2019, 131, 15617-15623.	1.6	30
24	Tungsten-Doped L1_O-PtCo Ultrasmall Nanoparticles as a High-Performance Fuel Cell Cathode. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 15471-15477.	7.2	150
25	Elemental selenium enables enhanced water oxidation electrocatalysis of NiFe layered double hydroxides. <i>Nanoscale</i> , 2019, 11, 17376-17383.	2.8	46
26	Sub-6 nm Fully Ordered L1_O-PtNiCo Nanoparticles Enhance Oxygen Reduction via Co Doping Induced Ferromagnetism Enhancement and Optimized Surface Strain. <i>Advanced Energy Materials</i> , 2019, 9, 1803771.	10.2	127
27	A separator-based lithium polysulfide recirculator for high-loading and high-performance Li-S batteries. <i>Journal of Materials Chemistry A</i> , 2018, 6, 5862-5869.	5.2	68
28	Enhancing oxygen reduction electrocatalysis through tuning crystal structure: Influence of intermetallic MPt nanocrystals. <i>Chinese Journal of Catalysis</i> , 2018, 39, 583-589.	6.9	12
29	Efficient entrapment and catalytic conversion of lithium polysulfides on hollow metal oxide submicro-spheres as lithium-sulfur battery cathodes. <i>Nanoscale</i> , 2018, 10, 5634-5641.	2.8	74
30	Facile Synthesis of Mesoporous and Thin-Walled NiCo Sulfide Nanotubes as Efficient Electrocatalysts for Oxygen Evolution Reaction. <i>ACS Applied Energy Materials</i> , 2018, 1, 495-502.	2.5	28
31	Boosting Tunable Syngas Formation via Electrochemical CO₂ Reduction on Cu/In₂O₃ Core/Shell Nanoparticles. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 36996-37004.	4.0	106
32	NiFe (Oxy) Hydroxides Derived from NiFe Disulfides as an Efficient Oxygen Evolution Catalyst for Rechargeable Zn-Air Batteries: The Effect of Surface S Residues. <i>Advanced Materials</i> , 2018, 30, e1800757.	11.1	219
33	Cu-based nanocatalysts for electrochemical reduction of CO ₂ . <i>Nano Today</i> , 2018, 21, 41-54.	6.2	374
34	Atomically Dispersed FeN _x /C Electrocatalyst Boosts Oxygen Catalysis via a New Metal-Organic Polymer Supramolecule Strategy. <i>Advanced Energy Materials</i> , 2018, 8, 1801226.	10.2	216
35	Hierarchical Cu doped SnSe nanoclusters as high-performance anode for sodium-ion batteries. <i>Electrochimica Acta</i> , 2018, 282, 973-980.	2.6	50
36	Facile synthesis of silk-cocoon S-rich cobalt polysulfide as an efficient catalyst for the hydrogen evolution reaction. <i>Energy and Environmental Science</i> , 2018, 11, 2467-2475.	15.6	91

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37	Molybdenum disulfide and Au ultrasmall nanohybrids as highly active electrocatalysts for hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2017, 5, 4122-4128.	5.2	41
38	Energy storage materials derived from Prussian blue analogues. <i>Science Bulletin</i> , 2017, 62, 358-368.	4.3	136
39	Electrodeposited Mo ₃ S ₁₃ Films from (NH ₄) ₂ Mo ₃ S ₁₃ ·2H ₂ O for Electrocatalysis of Hydrogen Evolution Reaction. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 18675-18681.	4.0	52
40	Tuning Sn-Catalysis for Electrochemical Reduction of CO ₂ to CO via the Core/Shell Cu/SnO ₂ Structure. <i>Journal of the American Chemical Society</i> , 2017, 139, 4290-4293.	6.6	553
41	Precious metal-free approach to hydrogen electrocatalysis for energy conversion: From mechanism understanding to catalyst design. <i>Nano Energy</i> , 2017, 42, 69-89.	8.2	157
42	Amorphous Co-Fe-P nanospheres for efficient water oxidation. <i>Journal of Materials Chemistry A</i> , 2017, 5, 25378-25384.	5.2	100
43	High-Performance Direct Methanol Fuel Cells with Precious-Metal-Free Cathode. <i>Advanced Science</i> , 2016, 3, 1600140.	5.6	105
44	Electrochemical Sensors Based on Molybdenum Disulfide Nanomaterials. <i>Electroanalysis</i> , 2015, 27, 2091-2097.	1.5	38
45	Enhanced electrocatalytic activity of MoP microparticles for hydrogen evolution by grinding and electrochemical activation. <i>Journal of Materials Chemistry A</i> , 2015, 3, 4368-4373.	5.2	100
46	Direct Detection of DNA below ppb Level Based on Thionin-Functionalized Layered MoS ₂ Electrochemical Sensors. <i>Analytical Chemistry</i> , 2014, 86, 12064-12069.	3.2	170
47	Synergistic Catalytic Effect of MoS ₂ Nanoparticles Supported on Gold Nanoparticle Films for a Highly Efficient Oxygen Reduction Reaction. <i>ChemCatChem</i> , 2014, 6, 1877-1881.	1.8	46
48	Tuning the Catalytic Activity of Graphene Nanosheets for Oxygen Reduction Reaction via Size and Thickness Reduction. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 19726-19736.	4.0	83
49	Electrochemically Fabricated Polypyrrole and MoS ₂ Copolymer Films as a Highly Active Hydrogen Evolution Electrocatalyst. <i>Advanced Materials</i> , 2014, 26, 3761-3766.	11.1	186
50	Salts of C ₆₀ (OH) ₈ Electrodeposited onto a Glassy Carbon Electrode: Surprising Catalytic Performance in the Hydrogen Evolution Reaction. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 10867-10870.	7.2	98
51	Size-Dependent Enhancement of Electrocatalytic Oxygen-Reduction and Hydrogen-Evolution Performance of MoS ₂ Particles. <i>Chemistry - A European Journal</i> , 2013, 19, 11939-11948.	1.7	226
52	Biosensor Based on Ultrasmall MoS ₂ Nanoparticles for Electrochemical Detection of H ₂ O ₂ Released by Cells at the Nanomolar Level. <i>Analytical Chemistry</i> , 2013, 85, 10289-10295.	3.2	438
53	A simple method for amino-functionalization of carbon nanotubes and electrodeposition to modify neural microelectrodes. <i>Journal of Electroanalytical Chemistry</i> , 2013, 688, 69-75.	1.9	15
54	Enhanced electrocatalytic activity for hydrogen evolution reaction from self-assembled monodispersed molybdenum sulfide nanoparticles on an Au electrode. <i>Energy and Environmental Science</i> , 2013, 6, 625-633.	15.6	364

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55	Anodically electrodeposited iridium oxide films microelectrodes for neural microstimulation and recording. <i>Sensors and Actuators B: Chemical</i> , 2009, 137, 334-339.	4.0	83