

Jin-Tao Ren

List of Publications by Year in descending order

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63
papers

3,019
citations

126708

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168136

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docs citations

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times ranked

3015
citing authors

#	ARTICLE	IF	CITATIONS
1	Defect-rich cobalt pyrophosphate hybrids decorated Cd _{0.5} Zn _{0.5} S for efficient photocatalytic hydrogen evolution: Defect and interface engineering. <i>Journal of Colloid and Interface Science</i> , 2022, 606, 544-555.	5.0	23
2	A "gas-breathing" integrated air diffusion electrode design with improved oxygen utilization efficiency for high-performance Zn-air batteries. <i>Chemical Engineering Journal</i> , 2022, 431, 133210.	6.6	18
3	Design strategies of phosphorus-containing catalysts for photocatalytic, photoelectrochemical and electrocatalytic water splitting. <i>Green Chemistry</i> , 2022, 24, 713-747.	4.6	45
4	Increasing the utilization of Si β support to anchor dual active sites of transition metal and heteropolyacids for efficient oxidative desulfurization of fuel. <i>Applied Catalysis B: Environmental</i> , 2022, 305, 121044.	10.8	27
5	Triple-phase oxygen electrocatalysis of hollow spherical structures for rechargeable Zn-Air batteries. <i>Applied Catalysis B: Environmental</i> , 2022, 307, 121190.	10.8	46
6	Nickel phosphonate-derived Ni ₂ P@N-doped carbon co-catalyst with built-in electron-bridge for boosting photocatalytic hydrogen evolution. <i>Inorganic Chemistry Frontiers</i> , 2022, 9, 1964-1972.	3.0	11
7	Charge redistribution caused by sulfur doping of bimetal FeCo phosphides supported on heteroatoms-doped graphene for Zn-air batteries with stable cycling. <i>Journal of Energy Chemistry</i> , 2022, 71, 619-630.	7.1	26
8	Interface engineering of in situ formed nickel hydr(oxy)oxides on nickel nitrides to boost alkaline hydrogen electrocatalysis. <i>Applied Catalysis B: Environmental</i> , 2022, 309, 121279.	10.8	34
9	Self-Promoted Electrocatalysts Derived from Surface Reconstruction for Rechargeable Zinc "Air Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 6456-6465.	3.2	9
10	Interface engineering for boosting electrocatalytic performance of CoP-Co ₂ P polymorphs for all-pH hydrogen evolution reaction and alkaline overall water splitting. <i>Science China Materials</i> , 2022, 65, 2433-2444.	3.5	15
11	Precisely modifying Co ₂ P/black TiO ₂ S-scheme heterojunction by in situ formed P and C dopants for enhanced photocatalytic H ₂ production. <i>Applied Catalysis B: Environmental</i> , 2022, 315, 121546.	10.8	80
12	Fabrication strategies of porous precious-metal-free bifunctional electrocatalysts for overall water splitting: Recent advances. <i>Green Energy and Environment</i> , 2021, 6, 620-643.	4.7	57
13	Hollow cobalt phosphate microspheres for sustainable electrochemical ammonia production through rechargeable Zn "N ₂ batteries. <i>Journal of Materials Chemistry A</i> , 2021, 9, 11370-11380.	5.2	27
14	Insight into the Active Contribution of N-Coordinated Cobalt Phosphate Nanocrystals Coupled with Carbon Nanotubes for Oxygen Electrochemistry. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 1856-1866.	3.2	21
15	Efficient oxidative desulfurization over highly dispersed molybdenum oxides supported on mesoporous titanium phosphonates. <i>Microporous and Mesoporous Materials</i> , 2021, 315, 110921.	2.2	32
16	Aqueous Rechargeable Zn "N ₂ Battery Assembled by Bifunctional Cobalt Phosphate Nanocrystals-Loaded Carbon Nanosheets for Simultaneous NH ₃ Production and Power Generation. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 12106-12117.	4.0	32
17	Mesoporous Cd Zn S with abundant surface defects for efficient photocatalytic hydrogen production. <i>Journal of Colloid and Interface Science</i> , 2021, 589, 25-33.	5.0	29
18	Spatially isolated cobalt oxide sites derived from MOFs for direct propane dehydrogenation. <i>Journal of Colloid and Interface Science</i> , 2021, 594, 113-121.	5.0	28

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19	Aqueous Al-N ₂ battery assembled by hollow molybdenum phosphate microspheres for simultaneous NH ₃ production and power generation. <i>Chemical Engineering Journal</i> , 2021, 418, 129447.	6.6	27
20	Hierarchical porous N,S-codoped carbon with trapped Mn species for efficient pH-universal electrochemical oxygen reduction in Zn-air battery. <i>Journal of Industrial and Engineering Chemistry</i> , 2021, 100, 92-98.	2.9	6
21	Facile synthesis of nitrogen, phosphorus and sulfur tri-doped carbon nanosheets as efficient oxygen electrocatalyst for rechargeable Zn-air batteries. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2021, 273, 115439.	1.7	4
22	Insight into the valence state of sisal-like MoO ₂ nanosheet arrays for N ₂ electrolysis. <i>Chemical Engineering Journal</i> , 2021, 426, 130761.	6.6	13
23	Heterojunction-induced nickel-based oxygen vacancies on N-enriched porous carbons for enhanced alkaline hydrogen oxidation and oxygen reduction. <i>Materials Chemistry Frontiers</i> , 2021, 5, 2399-2408.	3.2	19
24	In Situ Sulfidation for Controllable Heterointerface of Cobalt Oxides/Cobalt Sulfides on 3D Porous Carbon Realizing Efficient Rechargeable Liquid-/Solid-State Zn-Air Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 510-520.	3.2	25
25	An overview and recent advances in electrocatalysts for direct seawater splitting. <i>Frontiers of Chemical Science and Engineering</i> , 2021, 15, 1408-1426.	2.3	39
26	Molybdenum-based nanoparticles (Mo ₂ C, MoP and MoS ₂) coupled heteroatoms-doped carbon nanosheets for efficient hydrogen evolution reaction. <i>Applied Catalysis B: Environmental</i> , 2020, 263, 118352.	10.8	124
27	Phosphonate-derived nitrogen-doped cobalt phosphate/carbon nanotube hybrids as highly active oxygen reduction reaction electrocatalysts. <i>Chinese Journal of Catalysis</i> , 2020, 41, 259-267.	6.9	31
28	FeNi Nanoalloys Encapsulated in N-Doped CNTs Tangled with N-Doped Carbon Nanosheets as Efficient Multifunctional Catalysts for Overall Water Splitting and Rechargeable Zn-Air Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 223-237.	3.2	48
29	Melamine-Induced N,S-Codoped Hierarchically Porous Carbon Nanosheets for Enhanced Electrochemical Oxygen Reduction. <i>ChemistrySelect</i> , 2020, 5, 3477-3484.	0.7	13
30	Transition Metal Phosphide-Based Materials for Efficient Electrochemical Hydrogen Evolution: A Critical Review. <i>ChemSusChem</i> , 2020, 13, 3357-3375.	3.6	218
31	Binary FeNi phosphides dispersed on N,P-doped carbon nanosheets for highly efficient overall water splitting and rechargeable Zn-air batteries. <i>Chemical Engineering Journal</i> , 2020, 389, 124408.	6.6	123
32	Promotion of electrocatalytic nitrogen reduction reaction on N-doped porous carbon with secondary heteroatoms. <i>Applied Catalysis B: Environmental</i> , 2020, 266, 118633.	10.8	103
33	Atomic heterojunction-induced electron interaction in P-doped g-C ₃ N ₄ nanosheets supported V-based nanocomposites for enhanced oxidative desulfurization. <i>Chemical Engineering Journal</i> , 2020, 387, 124164.	6.6	56
34	N-doped porous carbon hollow microspheres encapsulated with iron-based nanocomposites as advanced bifunctional catalysts for rechargeable Zn-air battery. <i>Journal of Energy Chemistry</i> , 2020, 49, 14-21.	7.1	59
35	ZIF-supported AuCu nanoalloy for ammonia electrosynthesis from nitrogen and thin air. <i>Journal of Materials Chemistry A</i> , 2020, 8, 8868-8874.	5.2	30
36	Facile synthesis of molybdenum carbide nanoparticles in situ decorated on nitrogen-doped porous carbons for hydrogen evolution reaction. <i>Journal of Energy Chemistry</i> , 2019, 32, 78-84.	7.1	31

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37	Mesoporous carbons as metal-free catalysts for propane dehydrogenation: Effect of the pore structure and surface property. <i>Chinese Journal of Catalysis</i> , 2019, 40, 1385-1394.	6.9	30
38	Iron-Salt Thermally Emitted Strategy to Prepare Graphene-like Carbon Nanosheets with Trapped Fe Species for an Efficient Electrocatalytic Oxygen Reduction Reaction in the All-pH Range. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 27823-27832.	4.0	23
39	Self-supported MoP nanocrystals embedded in N,P-codoped carbon nanofibers via a polymer-confinement route for electrocatalytic hydrogen production. <i>Materials Chemistry Frontiers</i> , 2019, 3, 1872-1881.	3.2	19
40	ZnO supported on high-silica HZSM-5 as efficient catalysts for direct dehydrogenation of propane to propylene. <i>Molecular Catalysis</i> , 2019, 476, 110508.	1.0	28
41	Organic-Inorganic Metal Phosphonate-Derived Nitrogen-Doped Core-Shell Ni ₂ P Nanoparticles Supported on Ni Foam for Efficient Hydrogen Evolution Reaction at All pH Values. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 12770-12778.	3.2	41
42	Organic-Inorganic Cobalt-Phosphonate-Derived Hollow Cobalt Phosphate Spherical Hybrids for Highly Efficient Oxygen Evolution. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 13559-13568.	3.2	58
43	Self-supported Al-doped cobalt phosphide nanosheets grown on three-dimensional Ni foam for highly efficient water reduction and oxidation. <i>Inorganic Chemistry Frontiers</i> , 2019, 6, 74-81.	3.0	66
44	Facile synthesis of Mo ₂ C nanoparticles on N-doped carbon nanotubes with enhanced electrocatalytic activity for hydrogen evolution and oxygen reduction reactions. <i>Journal of Energy Chemistry</i> , 2019, 38, 68-77.	7.1	58
45	Bifunctional Electrocatalysts of Cobalt Sulfide Nanocrystals in Situ Decorated on N,S-Codoped Porous Carbon Sheets for Highly Efficient Oxygen Electrochemistry. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 10121-10131.	3.2	39
46	Engineering the Core-Shell-Structured NCNTs-Ni ₂ Si@Porous Si Composite with Robust Ni-Si Interfacial Bonding for High-Performance Li-Ion Batteries. <i>Langmuir</i> , 2019, 35, 6321-6332.	1.6	43
47	A universal route to N-coordinated metals anchored on porous carbon nanosheets for highly efficient oxygen electrochemistry. <i>Journal of Materials Chemistry A</i> , 2019, 7, 13591-13601.	5.2	48
48	New insight into the enhanced catalytic performance of ZnPt/HZSM-5 catalysts for direct dehydrogenation of propane to propylene. <i>Catalysis Science and Technology</i> , 2019, 9, 1979-1988.	2.1	60
49	Well-Defined Phase-Controlled Cobalt Phosphide Nanoparticles Encapsulated in Nitrogen-Doped Graphitized Carbon Shell with Enhanced Electrocatalytic Activity for Hydrogen Evolution Reaction at All-pH. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 8993-9001.	3.2	78
50	Monolithic Ni _x My (M = OH, P, S, Se) nanosheets as efficient and stable electrocatalysts for overall water splitting. <i>Electrochimica Acta</i> , 2019, 295, 148-156.	2.6	21
51	ZnO Nanoclusters Supported on Dealuminated Zeolite β as a Novel Catalyst for Direct Dehydrogenation of Propane to Propylene. <i>ChemCatChem</i> , 2019, 11, 868-877.	1.8	89
52	Direct Synthesis of Nitrogen, Phosphorus, and Sulfur Tri-doped Carbon Nanorods as Highly Efficient Oxygen Reduction and Evolution Electrocatalysts. <i>ChemCatChem</i> , 2018, 10, 3260-3268.	1.8	30
53	Direct dehydrogenation of propane to propylene on surface-oxidized multiwall carbon nanotubes. <i>Applied Catalysis A: General</i> , 2018, 559, 85-93.	2.2	39
54	Ultrafine metal phosphide nanoparticles in situ encapsulated in porous N,P-codoped nanofibrous carbon coated on carbon paper for effective water splitting. <i>Electrochimica Acta</i> , 2018, 261, 454-463.	2.6	45

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55	Rationally Designed Co ₃ O ₄ @C Nanowire Arrays on Ni Foam Derived From Metal Organic Framework as Reversible Oxygen Evolution Electrodes with Enhanced Performance for Zn-Air Batteries. ACS Sustainable Chemistry and Engineering, 2018, 6, 707-718.	3.2	92
56	Hierarchically Porous Heteroatoms-Doped Vesicle-Like Carbons as Highly Efficient Bifunctional Electrocatalysts for Zn-Air Batteries. ChemCatChem, 2018, 10, 5297-5305.	1.8	34
57	Nitrogen-Doped Defect-Rich Graphitic Carbon Nanorings with CoO Nanoparticles as Highly Efficient Electrocatalyst for Oxygen Electrochemistry. ACS Sustainable Chemistry and Engineering, 2018, 6, 15811-15821.	3.2	35
58	Well-Defined Mo ₂ C Nanoparticles Embedded in Porous N-Doped Carbon Matrix for Highly Efficient Electrocatalytic Hydrogen Evolution. ACS Applied Materials & Interfaces, 2018, 10, 33276-33286.	4.0	67
59	Uniquely integrated Fe-doped Ni(OH) ₂ nanosheets for highly efficient oxygen and hydrogen evolution reactions. Nanoscale, 2018, 10, 10620-10628.	2.8	142
60	Ultrafine molybdenum phosphide nanocrystals on a highly porous N,P-codoped carbon matrix as an efficient catalyst for the hydrogen evolution reaction. Materials Chemistry Frontiers, 2018, 2, 1987-1996.	3.2	36
61	Rational Dispersion of Co ₂ P ₂ O ₇ Fine Particles on N,P-Codoped Reduced Graphene Oxide Aerogels Leading to Enhanced Reversible Oxygen Reduction Ability for Zn-Air Batteries. ACS Sustainable Chemistry and Engineering, 2018, 6, 9793-9803.	3.2	47
62	Hierarchical Nickel Sulfide Nanosheets Directly Grown on Ni Foam: A Stable and Efficient Electrocatalyst for Water Reduction and Oxidation in Alkaline Medium. ACS Sustainable Chemistry and Engineering, 2017, 5, 7203-7210.	3.2	122
63	Integrated Ni ₂ P nanosheet arrays on three-dimensional Ni foam for highly efficient water reduction and oxidation. Journal of Energy Chemistry, 2017, 26, 1196-1202.	7.1	100