

Zhong-Yong Yuan

List of Publications by Year in descending order

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358
papers

21,986
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11235

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369
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24023
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	Engineering heterostructured Ni@Ni(OH) ₂ core-shell nanomaterials for synergistically enhanced water electrolysis. <i>Green Energy and Environment</i> , 2022, 7, 1024-1032.	4.7	17
4	Design strategies of phosphorus-containing catalysts for photocatalytic, photoelectrochemical and electrocatalytic water splitting. <i>Green Chemistry</i> , 2022, 24, 713-747.	4.6	45
5	Increasing the utilization of SiBeta 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
6	Controlled Synthesis of Highly Active Nonstoichiometric Tin Phosphide/Carbon Composites for Electrocatalysis and Electrochemical Energy Storage Applications. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 1482-1498.	3.2	15
7	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
8	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
9	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
10	Design strategies of supported metal-based catalysts for efficient oxidative desulfurization of fuel. <i>Journal of Industrial and Engineering Chemistry</i> , 2022, 108, 1-14.	2.9	20
11	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
12	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
13	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
14	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
15	Atomic Insight into the Local Structure and Microenvironment of Isolated Co-Motifs in MFI Zeolite Frameworks for Propane Dehydrogenation. <i>Journal of the American Chemical Society</i> , 2022, 144, 12127-12137.	6.6	60
16	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
17	Surface/interface engineering of high-efficiency noble metal-free electrocatalysts for energy-related electrochemical reactions. <i>Journal of Energy Chemistry</i> , 2021, 54, 89-104.	7.1	65
18	Encapsulating vanadium nitride nanodots into N,S-codoped graphitized carbon for synergistic electrocatalytic nitrogen reduction and aqueous Zn-N ₂ battery. <i>Applied Catalysis B: Environmental</i> , 2021, 280, 119434.	10.8	51

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19	Insights into efficient transition metal-nitrogen/carbon oxygen reduction electrocatalysts. <i>Journal of Energy Chemistry</i> , 2021, 56, 470-485.	7.1	56
20	FeNi doped porous carbon as an efficient catalyst for oxygen evolution reaction. <i>Frontiers of Chemical Science and Engineering</i> , 2021, 15, 279-287.	2.3	23
21	Design Strategies of Transition-Metal Phosphate and Phosphonate Electrocatalysts for Energy-Related Reactions. <i>ChemSusChem</i> , 2021, 14, 130-149.	3.6	48
22	Iron-doped titanium dioxide hollow nanospheres for efficient nitrogen fixation and Zn-N ₂ aqueous batteries. <i>Journal of Materials Chemistry A</i> , 2021, 9, 4026-4035.	5.2	36
23	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
24	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
25	Engineering morphologies of cobalt oxide/phosphate-carbon nanohybrids for high-efficiency electrochemical water oxidation and reduction. <i>Journal of Energy Chemistry</i> , 2021, 52, 139-146.	7.1	28
26	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
27	Nanoporous Metal Phosphonate Hybrid Materials as a Novel Platform for Emerging Applications: A Critical Review. <i>Small</i> , 2021, 17, e2005304.	5.2	48
28	Design Strategies of Non-Noble Metal-Based Electrocatalysts for Two-Electron Oxygen Reduction to Hydrogen Peroxide. <i>ChemSusChem</i> , 2021, 14, 1616-1633.	3.6	46
29	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
30	Ampoule method fabricated sulfur vacancy-rich N-doped ZnS electrodes for ammonia production in alkaline media. <i>Materials for Renewable and Sustainable Energy</i> , 2021, 10, 1.	1.5	11
31	An electro-activated bimetallic zinc-nickel hydroxide cathode for supercapacitor with super-long 140,000 cycle durability. <i>Nano Energy</i> , 2021, 82, 105727.	8.2	68
32	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
33	Identifying the Dominant Role of Pyridinic-N-Mo Bonding in Synergistic Electrocatalysis for Ambient Nitrogen Reduction. <i>ACS Nano</i> , 2021, 15, 12109-12118.	7.3	51
34	Enhanced performances of bimetallic Ga-Pt nanoclusters confined within silicalite-1 zeolite in propane dehydrogenation. <i>Journal of Colloid and Interface Science</i> , 2021, 593, 304-314.	5.0	25
35	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
36	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

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37	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
38	Activity Promotion of Core and Shell in Multifunctional Core-Shell Co ₂ P@NC Electrocatalyst by Secondary Metal Doping for Water Electrolysis and Zn-Air Batteries. <i>Small</i> , 2021, 17, e2101856.	5.2	68
39	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
40	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
41	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
42	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
43	Cobalt nanoparticle decorated N-doped carbons derived from a cobalt covalent organic framework for oxygen electrochemistry. <i>Frontiers of Chemical Science and Engineering</i> , 2021, 15, 1550-1560.	2.3	13
44	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
45	Preface to special issue on "Advanced Materials and Catalysis". <i>Frontiers of Chemical Science and Engineering</i> , 2021, 15, 1357-1359.	2.3	1
46	Ultrafine Transition Metal Phosphide Nanoparticles Semiembedded in Nitrogen-Doped Carbon Nanotubes for Efficient Counter Electrode Materials in Dye-Sensitized Solar Cells. <i>ACS Applied Energy Materials</i> , 2021, 4, 13952-13962.	2.5	14
47	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
48	Nature of active phase of VO catalysts supported on SiBeta for direct dehydrogenation of propane to propylene. <i>Chinese Journal of Catalysis</i> , 2020, 41, 276-285.	6.9	47
49	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
50	CrO supported on high-silica HZSM-5 for propane dehydrogenation. <i>Journal of Energy Chemistry</i> , 2020, 47, 225-233.	7.1	51
51	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
52	Molecular-Level Synthesis of Cobalt Phosphide Nanocrystals Confined in Highly Nitrogen-Doped Mesoporous Carbon Electrocatalyst for Highly Efficient Dye-Sensitized Solar Cells. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 17245-17261.	3.2	33
53	Ni-doped hierarchical porous carbon with a p/n-junction promotes electrochemical water splitting. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 17493-17503.	3.8	10
54	Cr/Al ₂ O ₃ catalysts with strong metal-support interactions for stable catalytic dehydrogenation of propane to propylene. <i>Molecular Catalysis</i> , 2020, 493, 111052.	1.0	18

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55	Melamine-Induced N,S-Codoped Hierarchically Porous Carbon Nanosheets for Enhanced Electrocatalytic Oxygen Reduction. <i>ChemistrySelect</i> , 2020, 5, 3477-3484.	0.7	13
56	Ultrasmall PtZn bimetallic nanoclusters encapsulated in silicalite-1 zeolite with superior performance for propane dehydrogenation. <i>Journal of Catalysis</i> , 2020, 385, 61-69.	3.1	121
57	Transition Metal Phosphide-Based Materials for Efficient Electrochemical Hydrogen Evolution: A Critical Review. <i>ChemSusChem</i> , 2020, 13, 3357-3375.	3.6	218
58	Urchin-like Al-Doped Co ₃ O ₄ Nanospheres Rich in Surface Oxygen Vacancies Enable Efficient Ammonia Electrosynthesis. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 17502-17508.	4.0	76
59	Insights into Transition Metal Phosphate Materials for Efficient Electrocatalysis. <i>ChemCatChem</i> , 2020, 12, 3797-3810.	1.8	104
60	Ambient Ammonia Electrosynthesis: Current Status, Challenges, and Perspectives. <i>ChemSusChem</i> , 2020, 13, 3061-3078.	3.6	65
61	In situ growth of Ni-encapsulated and N-doped carbon nanotubes on N-doped ordered mesoporous carbon for high-efficiency triiodide reduction in dye-sensitized solar cells. <i>Chemical Engineering Journal</i> , 2020, 390, 124633.	6.6	74
62	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
63	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
64	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
65	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
66	Activated carbon with heteroatoms from organic salt for hydrogen evolution reaction. <i>Microporous and Mesoporous Materials</i> , 2020, 297, 110033.	2.2	14
67	Ultrasmall Co confined in the silanols of dealuminated beta zeolite: A highly active and selective catalyst for direct dehydrogenation of propane to propylene. <i>Journal of Catalysis</i> , 2020, 383, 77-87.	3.1	88
68	Aluminum and phosphorus codoped "superhydrophobic" Co ₃ O ₄ microspheres for highly efficient electrochemical water splitting and Zn-air batteries. <i>Journal of Energy Chemistry</i> , 2020, 50, 324-331.	7.1	31
69	New Opportunities for Functional Materials from Metal Phosphonates. , 2020, 2, 582-594.		33
70	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
71	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
72	P-doped mesoporous carbons for high-efficiency electrocatalytic oxygen reduction. <i>Chinese Journal of Catalysis</i> , 2019, 40, 1366-1374.	6.9	38

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73	Mesoporous carbons as metal-free catalysts for propane dehydrogenation: Effect of the pore structure and surface property. Chinese Journal of Catalysis, 2019, 40, 1385-1394.	6.9	30
74	State-of-the-art catalysts for direct dehydrogenation of propane to propylene. Chinese Journal of Catalysis, 2019, 40, 1233-1254.	6.9	151
75	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. ACS Applied Materials & Interfaces, 2019, 11, 27823-27832.	4.0	23
76	Self-supported MoP nanocrystals embedded in N,P-codoped carbon nanofibers via a polymer-confinement route for electrocatalytic hydrogen production. Materials Chemistry Frontiers, 2019, 3, 1872-1881.	3.2	19
77	ZnO supported on high-silica HZSM-5 as efficient catalysts for direct dehydrogenation of propane to propylene. Molecular Catalysis, 2019, 476, 110508.	1.0	28
78	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. ACS Sustainable Chemistry and Engineering, 2019, 7, 12770-12778.	3.2	41
79	Organic-Inorganic Cobalt-Phosphonate-Derived Hollow Cobalt Phosphate Spherical Hybrids for Highly Efficient Oxygen Evolution. ACS Sustainable Chemistry and Engineering, 2019, 7, 13559-13568.	3.2	58
80	Enhanced Synergetic Catalytic Effect of Mo ₂ C/NCNTs@Co Heterostructures in Dye-Sensitized Solar Cells: Fine-Tuned Energy Level Alignment and Efficient Charge Transfer Behavior. ACS Applied Materials & Interfaces, 2019, 11, 42156-42171.	4.0	63
81	Well-defined CoP/Ni ₂ P nanohybrids encapsulated in a nitrogen-doped carbon matrix as advanced multifunctional electrocatalysts for efficient overall water splitting and zinc-air batteries. Materials Chemistry Frontiers, 2019, 3, 2428-2436.	3.2	44
82	Self-supported Al-doped cobalt phosphide nanosheets grown on three-dimensional Ni foam for highly efficient water reduction and oxidation. Inorganic Chemistry Frontiers, 2019, 6, 74-81.	3.0	66
83	Facile synthesis of Mo ₂ C nanoparticles on N-doped carbon nanotubes with enhanced electrocatalytic activity for hydrogen evolution and oxygen reduction reactions. Journal of Energy Chemistry, 2019, 38, 68-77.	7.1	58
84	Bifunctional Electrocatalysts of Cobalt Sulfide Nanocrystals in Situ Decorated on N,S-Codoped Porous Carbon Sheets for Highly Efficient Oxygen Electrochemistry. ACS Sustainable Chemistry and Engineering, 2019, 7, 10121-10131.	3.2	39
85	Engineering the Core-Shell-Structured NCNTs-Ni ₂ Si@Porous Si Composite with Robust Ni-Si Interfacial Bonding for High-Performance Li-Ion Batteries. Langmuir, 2019, 35, 6321-6332.	1.6	43
86	A universal route to N-coordinated metals anchored on porous carbon nanosheets for highly efficient oxygen electrochemistry. Journal of Materials Chemistry A, 2019, 7, 13591-13601.	5.2	48
87	A facile hydrothermal method for preparation of fluorescent carbon dots on application of Fe ³⁺ and fingerprint detection. Methods and Applications in Fluorescence, 2019, 7, 035001.	1.1	11
88	New insight into the enhanced catalytic performance of ZnPt/HZSM-5 catalysts for direct dehydrogenation of propane to propylene. Catalysis Science and Technology, 2019, 9, 1979-1988.	2.1	60
89	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. ACS Sustainable Chemistry and Engineering, 2019, 7, 8993-9001.	3.2	78
90	Ultra-deep desulphurization of both model and commercial diesel fuels by adsorption method. Journal of Environmental Chemical Engineering, 2019, 7, 102957.	3.3	27

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91	Framework-confined Sn in Si-beta stabilizing ultra-small Pt nanoclusters as direct propane dehydrogenation catalysts with high selectivity and stability. <i>Catalysis Science and Technology</i> , 2019, 9, 6993-7002.	2.1	57
92	Nitrogen-containing activated carbon of improved electrochemical performance derived from cotton stalks using indirect chemical activation. <i>Journal of Colloid and Interface Science</i> , 2019, 540, 285-294.	5.0	24
93	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
94	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
95	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
96	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
97	Fe Nanocatalysts Supported on Dealuminated ZSM-5 for Efficient Decomposition of Ammonia to CO _x -free Hydrogen. <i>ChemistrySelect</i> , 2018, 3, 4439-4447.	0.7	6
98	Two-dimensional mica nanosheets supported Fe nanoparticles for NH ₃ decomposition to hydrogen. <i>Molecular Catalysis</i> , 2018, 448, 162-170.	1.0	23
99	CaTiO ₃ perovskite in the framework of activated carbon and its effect on enhanced electrochemical capacitance. <i>Electrochimica Acta</i> , 2018, 268, 73-81.	2.6	29
100	Titanium Phosphonate Based Metal-Organic Frameworks with Hierarchical Porosity for Enhanced Photocatalytic Hydrogen Evolution. <i>Angewandte Chemie</i> , 2018, 130, 3276-3281.	1.6	29
101	Natural clay attapulgite as the raw material for synthesis of Al/Ti/Mg-containing mesoporous silicates with cubic, 3D hexagonal, and lamellar mesostructures. <i>Journal of Sol-Gel Science and Technology</i> , 2018, 85, 638-646.	1.1	7
102	Titanium Phosphonate Based Metal-Organic Frameworks with Hierarchical Porosity for Enhanced Photocatalytic Hydrogen Evolution. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 3222-3227.	7.2	157
103	Castanea mollissima shell-derived porous carbons as metal-free catalysts for highly efficient dehydrogenation of propane to propylene. <i>Catalysis Today</i> , 2018, 316, 214-222.	2.2	36
104	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
105	Ni nanoparticles supported on mica for efficient decomposition of ammonia to CO ₂ -free hydrogen. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 9663-9676.	3.8	38
106	High-surface-area activated red mud for efficient removal of methylene blue from wastewater. <i>Adsorption Science and Technology</i> , 2018, 36, 62-79.	1.5	31
107	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. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 707-718.	3.2	92
108	Hierarchically Porous Heteroatoms-doped Vesicle-like Carbons as Highly Efficient Bifunctional Electrocatalysts for Zn-Air Batteries. <i>ChemCatChem</i> , 2018, 10, 5297-5305.	1.8	34

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109	Nitrogen-Doped Defect-Rich Graphitic Carbon Nanorings with CoO Nanoparticles as Highly Efficient Electrocatalyst for Oxygen Electrochemistry. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 15811-15821.	3.2	35
110	Well-Defined Mo ₂ C Nanoparticles Embedded in Porous N-Doped Carbon Matrix for Highly Efficient Electrocatalytic Hydrogen Evolution. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 33276-33286.	4.0	67
111	Bean dregs-derived hierarchical porous carbons as metal-free catalysts for efficient dehydrogenation of propane to propylene. <i>Journal of Chemical Technology and Biotechnology</i> , 2018, 93, 3410-3417.	1.6	16
112	Catalytic decomposition of ammonia to CO _x -free hydrogen over Ni/ZSM-5 catalysts: A comparative study of the preparation methods. <i>Applied Catalysis A: General</i> , 2018, 562, 49-57.	2.2	74
113	Fe/ZSM-5 catalysts for ammonia decomposition to CO _x -free hydrogen: Effect of SiO ₂ /Al ₂ O ₃ ratio. <i>Molecular Catalysis</i> , 2018, 455, 14-22.	1.0	51
114	Uniquely integrated Fe-doped Ni(OH) ₂ nanosheets for highly efficient oxygen and hydrogen evolution reactions. <i>Nanoscale</i> , 2018, 10, 10620-10628.	2.8	142
115	Electrodeposited P Co nanoparticles in deep eutectic solvents and their performance in water splitting. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 10448-10457.	3.8	22
116	Ultrafine molybdenum phosphide nanocrystals on a highly porous N,P-codoped carbon matrix as an efficient catalyst for the hydrogen evolution reaction. <i>Materials Chemistry Frontiers</i> , 2018, 2, 1987-1996.	3.2	36
117	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. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 9793-9803.	3.2	47
118	Strategic Design of Vacancy-Enriched Fe _{1-x} S Nanoparticles Anchored on Fe ₃ C-Encapsulated and N-Doped Carbon Nanotube Hybrids for High-Efficiency Triiodide Reduction in Dye-Sensitized Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 31208-31224.	4.0	68
119	Formation of aluminum diphosphonate mesostructures: The effect of aluminum source. <i>Journal of Colloid and Interface Science</i> , 2018, 532, 718-726.	5.0	0
120	Nitrogen-doped carbon materials with cubic ordered mesostructure: low-temperature autoclaving synthesis for electrochemical supercapacitor and CO ₂ capture. <i>RSC Advances</i> , 2017, 7, 12524-12533.	1.7	19
121	General Strategy for Controlled Synthesis of Ni _x P _y /Carbon and Its Evaluation as a Counter Electrode Material in Dye-Sensitized Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 17949-17960.	4.0	69
122	One-pot Synthesis of Mo ₂ N/NC Catalysts with Enhanced Electrocatalytic Activity for Hydrogen Evolution Reaction. <i>Electrochimica Acta</i> , 2017, 246, 536-543.	2.6	70
123	Boron and phosphorus co-doped carbon counter electrode for efficient hole-conductor-free perovskite solar cell. <i>Chemical Engineering Journal</i> , 2017, 313, 791-800.	6.6	103
124	Controlled Synthesis of Nickel Encapsulated into Nitrogen-Doped Carbon Nanotubes with Covalent Bonded Interfaces: The Structural and Electronic Modulation Strategy for an Efficient Electrocatalyst in Dye-Sensitized Solar Cells. <i>Chemistry of Materials</i> , 2017, 29, 9680-9694.	3.2	96
125	CdS-Polydopamine-Derived N,S-Codoped Hierarchically Porous Carbons as Highly Active Electrocatalyst for Oxygen Reduction. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 9914-9922.	3.2	41
126	Hierarchical Nickel Sulfide Nanosheets Directly Grown on Ni Foam: A Stable and Efficient Electrocatalyst for Water Reduction and Oxidation in Alkaline Medium. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 7203-7210.	3.2	122

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127	Nitrogen and sulfur co-doped mesoporous hollow carbon microspheres for highly efficient oxygen reduction electrocatalysts. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 19010-19018.	3.8	45
128	Integrated Ni ₂ P nanosheet arrays on three-dimensional Ni foam for highly efficient water reduction and oxidation. <i>Journal of Energy Chemistry</i> , 2017, 26, 1196-1202.	7.1	100
129	Transition metal-phosphorus-based materials for electrocatalytic energy conversion reactions. <i>Catalysis Science and Technology</i> , 2017, 7, 330-347.	2.1	132
130	One-pot carbonization enrichment of nitrogen in microporous carbon spheres for efficient CO ₂ capture. <i>Journal of Materials Chemistry A</i> , 2017, 5, 418-425.	5.2	74
131	Three-Dimensional Electrocatalysts for Sustainable Water Splitting Reactions. <i>European Journal of Inorganic Chemistry</i> , 2016, 2016, 1916-1923.	1.0	44
132	CuO catalysts supported on activated red mud for efficient catalytic carbon monoxide oxidation. <i>Chemical Engineering Journal</i> , 2016, 302, 23-32.	6.6	70
133	High-surface-area activated red mud supported Co ₃ O ₄ catalysts for efficient catalytic oxidation of CO. <i>RSC Advances</i> , 2016, 6, 94748-94755.	1.7	16
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