

Longcheng Zhang

List of Publications by Year in descending order

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42
papers

2,705
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160783
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41
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docs citations

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times ranked

1163
citing authors

#	ARTICLE	IF	CITATIONS
1	A hierarchical CuO@NiCo layered double hydroxide core-shell nanoarray as an efficient electrocatalyst for the oxygen evolution reaction. <i>Inorganic Chemistry Frontiers</i> , 2021, 8, 3049-3054.	6.0	191
2	A NiCo LDH nanosheet array on graphite felt: an efficient 3D electrocatalyst for the oxygen evolution reaction in alkaline media. <i>Inorganic Chemistry Frontiers</i> , 2021, 8, 3162-3166.	6.0	181
3	High-performance Electrochemical NO Reduction into NH ₃ by MoS ₂ Nanosheet. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 25263-25268.	14.3	180
4	Ambient Ammonia Synthesis via Electrochemical Reduction of Nitrate Enabled by NiCo ₂ O ₄ Nanowire Array. <i>Small</i> , 2022, 18, e2106961.	10.3	171
5	Recent Advances in 1D Electrospun Nanocatalysts for Electrochemical Water Splitting. <i>Small Structures</i> , 2021, 2, 2000048.	12.2	157
6	Ni(OH) ₂ nanoparticles encapsulated in conductive nanowire array for high-performance alkaline seawater oxidation. <i>Nano Research</i> , 2022, 15, 6084-6090.	10.6	111
7	In situ grown Fe ₃ O ₄ particle on stainless steel: A highly efficient electrocatalyst for nitrate reduction to ammonia. <i>Nano Research</i> , 2022, 15, 3050-3055.	10.6	108
8	Superior hydrogen evolution electrocatalysis enabled by CoP nanowire array on graphite felt. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 3580-3586.	7.1	101
9	Recent Progress in Electrocatalytic Methanation of CO ₂ at Ambient Conditions. <i>Advanced Functional Materials</i> , 2021, 31, 2009449.	15.2	92
10	N-doped carbon nanotubes supported CoSe ₂ nanoparticles: A highly efficient and stable catalyst for H ₂ O ₂ electrosynthesis in acidic media. <i>Nano Research</i> , 2022, 15, 304-309.	10.6	90
11	Conductive Two-Dimensional Magnesium Metal-Organic Frameworks for High-Efficiency O ₂ Electroreduction to H ₂ O ₂ . <i>ACS Catalysis</i> , 2022, 12, 6092-6099.	11.5	78
12	High-efficiency ammonia electrosynthesis via selective reduction of nitrate on ZnCo ₂ O ₄ nanosheet array. <i>Materials Today Physics</i> , 2022, 23, 100619.	6.3	72
13	Enhanced N ₂ -to-NH ₃ conversion efficiency on Cu ₃ P nanoribbon electrocatalyst. <i>Nano Research</i> , 2022, 15, 7134-7138.	10.6	72
14	Nitrite reduction over Ag nanoarray electrocatalyst for ammonia synthesis. <i>Journal of Colloid and Interface Science</i> , 2022, 623, 513-519.	9.6	71
15	High-efficiency electrohydrogenation of nitric oxide to ammonia on a Ni ₂ P nanoarray under ambient conditions. <i>Journal of Materials Chemistry A</i> , 2021, 9, 24268-24275.	10.4	68
16	Ni ₂ P nanosheet array for high-efficiency electrohydrogenation of nitrite to ammonia at ambient conditions. <i>Journal of Colloid and Interface Science</i> , 2022, 606, 1055-1063.	9.6	62
17	Efficient nitric oxide electroreduction toward ambient ammonia synthesis catalyzed by a CoP nanoarray. <i>Inorganic Chemistry Frontiers</i> , 2022, 9, 1366-1372.	6.0	58
18	Functional integration of hierarchical core-shell architectures via vertically arrayed ultrathin CuSe nanosheets decorated on hollow CuS microcages targeting highly effective sodium-ion storage. <i>Journal of Materials Chemistry A</i> , 2021, 9, 27615-27628.	10.4	56

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19	A TiO ₂ nanobelt array with oxygen vacancies: an efficient electrocatalyst toward nitrite conversion to ammonia. <i>Chemical Communications</i> , 2022, 58, 3669-3672.	4.3	55
20	Coupling denitrification and ammonia synthesis via selective electrochemical reduction of nitric oxide over Fe ₂ O ₃ nanorods. <i>Journal of Materials Chemistry A</i> , 2022, 10, 6454-6462.	10.4	52
21	MXene-derived three-dimensional carbon nanotube network encapsulate CoS ₂ nanoparticles as an anode material for solid-state sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2020, 8, 3018-3026.	10.4	51
22	High-performance NH ₃ production via NO electroreduction over a NiO nanosheet array. <i>Chemical Communications</i> , 2021, 57, 13562-13565.	4.3	51
23	Ambient N ₂ -to-NH ₃ fixation over a CeO ₂ nanoparticle decorated three-dimensional carbon skeleton. <i>Sustainable Energy and Fuels</i> , 2022, 6, 3344-3348.	4.8	50
24	Yolk-shell porous carbon spheres@CoSe ₂ nanosheets as multilayer defenses system of polysulfide for advanced Li-S batteries. <i>Chemical Engineering Journal</i> , 2021, 413, 127521.	12.9	49
25	Biomass Juncus derived carbon decorated with cobalt nanoparticles enables high-efficiency ammonia electrosynthesis by nitrite reduction. <i>Journal of Materials Chemistry A</i> , 2022, 10, 2842-2848.	10.4	47
26	A rough endoplasmic reticulum-like VSe ₂ /rGO anode for superior sodium-ion capacitors. <i>Inorganic Chemistry Frontiers</i> , 2019, 6, 2935-2943.	6.0	46
27	A gradient hexagonal-prism Fe ₃ Se ₄ @SiO ₂ @C configuration as a highly reversible sodium conversion anode. <i>Journal of Materials Chemistry A</i> , 2022, 10, 4087-4099.	10.4	46
28	Bi nanodendrites for highly efficient electrocatalytic NO reduction to NH ₃ at ambient conditions. <i>Materials Today Physics</i> , 2022, 22, 100611.	6.3	36
29	A FeCo ₂ O ₄ nanowire array enabled electrochemical nitrate conversion to ammonia. <i>Chemical Communications</i> , 2022, 58, 4480-4483.	4.3	34
30	Bi nanoparticles/carbon nanosheet composite: A high-efficiency electrocatalyst for NO reduction to NH ₃ . <i>Nano Research</i> , 2022, 15, 5032-5037.	10.6	32
31	CoTe nanoparticle-embedded N-doped hollow carbon polyhedron: an efficient catalyst for H ₂ O ₂ electrosynthesis in acidic media. <i>Journal of Materials Chemistry A</i> , 2021, 9, 21703-21707.	10.4	29
32	High-Efficiency Electrosynthesis of Ammonia with Selective Reduction of Nitrate in Neutral Media Enabled by Self-Supported Mn ₂ CoO ₄ Nanoarray. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 33242-33247.	8.2	27
33	High-efficiency NO electroreduction to NH ₃ over honeycomb carbon nanofiber at ambient conditions. <i>Journal of Colloid and Interface Science</i> , 2022, 616, 261-267.	9.6	26
34	Enhancing Electrocatalytic NO Reduction to NH ₃ by the CoS Nanosheet with Sulfur Vacancies. <i>Inorganic Chemistry</i> , 2022, 61, 8096-8102.	4.2	26
35	Flexible electrode constructed by encapsulating ultrafine VSe ₂ in carbon fiber for quasi-solid-state sodium ion batteries. <i>Journal of Power Sources</i> , 2020, 470, 228438.	8.0	25
36	High-performance electrochemical nitrate reduction to ammonia under ambient conditions using NiFe ₂ O ₄ nanosheet arrays. <i>Inorganic Chemistry Frontiers</i> , 2022, 9, 3392-3397.	6.0	25

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37	Novel CdFe Bimetallic Complex-Derived Ultrasmall Fe- and N-Codoped Carbon as a Highly Efficient Oxygen Reduction Catalyst. ACS Applied Materials & Interfaces, 2019, 11, 21481-21488.	8.2	21
38	In Situ Derived Bi Nanoparticles Confined in Carbon Rods as an Efficient Electrocatalyst for Ambient N ₂ Reduction to NH ₃ . Inorganic Chemistry, 2021, 60, 7584-7589.	4.2	15
39	Co@NCNT nanohybrid as a highly active catalyst for the electroreduction of nitrate to ammonia. Chemical Communications, 2022, 58, 3787-3790.	4.3	15
40	Electrocatalytic two-electron oxygen reduction over nitrogen doped hollow carbon nanospheres. Chemical Communications, 2022, 58, 5025-5028.	4.3	14
41	Enhanced electrocatalytic nitrate reduction to ammonia using plasma-induced oxygen vacancies in CoTiO ₃ nanofiber. , 2022, 1, 6-13.		13
42	A coaxial nanocable textured by a cerium oxide shell and carbon core for sensing nitric oxide. Mikrochimica Acta, 2019, 186, 789.	5.1	1