Longcheng Zhang

List of Publications by Year
in descending order

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42 papers	2,705 citations	172457 29 h-index	276875 41 g-index
42 all docs	42 docs citations	42 times ranked	1163 citing authors

#	Article	IF	Citations
1	N-doped carbon nanotubes supported CoSe2 nanoparticles: A highly efficient and stable catalyst for H2O2 electrosynthesis in acidic media. Nano Research, 2022, 15, 304-309.	10.4	90
2	Ni2P nanosheet array for high-efficiency electrohydrogenation of nitrite to ammonia at ambient conditions. Journal of Colloid and Interface Science, 2022, 606, 1055-1063.	9.4	62
3	Biomass Juncus derived carbon decorated with cobalt nanoparticles enables high-efficiency ammonia electrosynthesis by nitrite reduction. Journal of Materials Chemistry A, 2022, 10, 2842-2848.	10.3	47
4	High-efficiency ammonia electrosynthesis via selective reduction of nitrate on ZnCo2O4 nanosheet array. Materials Today Physics, 2022, 23, 100619.	6.0	72
5	A gradient hexagonal-prism Fe₃Se₄@SiO₂@C configuration as a highly reversible sodium conversion anode. Journal of Materials Chemistry A, 2022, 10, 4087-4099.	10.3	46
6	Bi nanodendrites for highly efficient electrocatalytic NO reduction to NH3 at ambient conditions. Materials Today Physics, 2022, 22, 100611.	6.0	36
7	Superior hydrogen evolution electrocatalysis enabled by CoP nanowire array on graphite felt. International Journal of Hydrogen Energy, 2022, 47, 3580-3586.	7.1	101
8	Efficient nitric oxide electroreduction toward ambient ammonia synthesis catalyzed by a CoP nanoarray. Inorganic Chemistry Frontiers, 2022, 9, 1366-1372.	6.0	58
9	Ambient Ammonia Synthesis via Electrochemical Reduction of Nitrate Enabled by NiCo₂O₄ Nanowire Array. Small, 2022, 18, e2106961.	10.0	171
10	In situ grown Fe3O4 particle on stainless steel: A highly efficient electrocatalyst for nitrate reduction to ammonia. Nano Research, 2022, 15, 3050-3055.	10.4	108
11	Coâ€“NCNT nanohybrid as a highly active catalyst for the electroreduction of nitrate to ammonia. Chemical Communications, 2022, 58, 3787-3790.	4.1	15
12	A TiO_{2â^'x} nanobelt array with oxygen vacancies: an efficient electrocatalyst toward nitrite conversion to ammonia. Chemical Communications, 2022, 58, 3669-3672.	4.1	55
13	Electrocatalytic two-electron oxygen reduction over nitrogen doped hollow carbon nanospheres. Chemical Communications, 2022, 58, 5025-5028.	4.1	14
14	A FeCo₂O₄ nanowire array enabled electrochemical nitrate conversion to ammonia. Chemical Communications, 2022, 58, 4480-4483.	4.1	34
15	Coupling denitrification and ammonia synthesis via selective electrochemical reduction of nitric oxide over Fe₂O₃ nanorods. Journal of Materials Chemistry A, 2022, 10, 6454-6462.	10.3	52
16	Bi nanoparticles/carbon nanosheet composite: A high-efficiency electrocatalyst for NO reduction to NH3. Nano Research, 2022, 15, 5032-5037.	10.4	32
17	High-efficiency NO electroreduction to NH3 over honeycomb carbon nanofiber at ambient conditions. Journal of Colloid and Interface Science, 2022, 616, 261-267.	9.4	26
18	Ni(OH)2 nanoparticles encapsulated in conductive nanowire array for high-performance alkaline seawater oxidation. Nano Research, 2022, 15, 6084-6090.	10.4	111

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19	Nitrite reduction over Ag nanoarray electrocatalyst for ammonia synthesis. Journal of Colloid and Interface Science, 2022, 623, 513-519.	9.4	71
20	Conductive Two-Dimensional Magnesium Metalâ€“Organic Frameworks for High-Efficiency O₂ Electroreduction to H₂O₂. ACS Catalysis, 2022, 12, 6092-6099.	11.2	78
21	Enhancing Electrocatalytic NO Reduction to NH₃ by the CoS Nanosheet with Sulfur Vacancies. Inorganic Chemistry, 2022, 61, 8096-8102.	4.0	26
22	Ambient N₂-to-NH₃fixation over a CeO₂nanoparticle decorated three-dimensional carbon skeleton. Sustainable Energy and Fuels, 2022, 6, 3344-3348.	4.9	50
23	High-performance electrochemical nitrate reduction to ammonia under ambient conditions using NiFe₂O₄nanosheet arrays. Inorganic Chemistry Frontiers, 2022, 9, 3392-3397.	6.0	25
24	Enhanced N2-to-NH3 conversion efficiency on Cu3P nanoribbon electrocatalyst. Nano Research, 2022, 15, 7134-7138.	10.4	72
25	Enhanced electrocatalytic nitrate reduction to ammonia using plasmaâ€induced oxygen vacancies in CoTiO_{3â€‰â”â€‰x} nanofiber. , 2022, 1, 6-13.		13
26	High-Efficiency Electrosynthesis of Ammonia with Selective Reduction of Nitrate in Neutral Media Enabled by Self-Supported Mn₂CoO₄ Nanoarray. ACS Applied Materials & Interfaces, 2022, 14, 33242-33247.	8.0	27
27	Recent Advances in 1D Electrospun Nanocatalysts for Electrochemical Water Splitting. Small Structures, 2021, 2, 2000048.	12.0	157
28	Yolk-shell porous carbon spheres@CoSe2 nanosheets as multilayer defenses system of polysulfide for advanced Li-S batteries. Chemical Engineering Journal, 2021, 413, 127521.	12.7	49
29	CoTe nanoparticle-embedded N-doped hollow carbon polyhedron: an efficient catalyst for H₂O₂ electrosynthesis in acidic media. Journal of Materials Chemistry A, 2021, 9, 21703-21707.	10.3	29
30	In Situ Derived Bi Nanoparticles Confined in Carbon Rods as an Efficient Electrocatalyst for Ambient N₂ Reduction to NH₃. Inorganic Chemistry, 2021, 60, 7584-7589.	4.0	15
31	Highâ€Performance Electrochemical NO Reduction into NH₃ by MoS₂ Nanosheet. Angewandte Chemie - International Edition, 2021, 60, 25263-25268.	13.8	180
32	Recent Progress in Electrocatalytic Methanation of CO₂ at Ambient Conditions. Advanced Functional Materials, 2021, 31, 2009449.	14.9	92
33	A NiCo LDH nanosheet array on graphite felt: an efficient 3D electrocatalyst for the oxygen evolution reaction in alkaline media. Inorganic Chemistry Frontiers, 2021, 8, 3162-3166.	6.0	181
34	A hierarchical CuO@NiCo layered double hydroxide coreâ€“shell nanoarray as an efficient electrocatalyst for the oxygen evolution reaction. Inorganic Chemistry Frontiers, 2021, 8, 3049-3054.	6.0	191
35	High-efficiency electrohydrogenation of nitric oxide to ammonia on a Ni₂P nanoarray under ambient conditions. Journal of Materials Chemistry A, 2021, 9, 24268-24275.	10.3	68
36	Functional integration of hierarchical coreâ€“shell architectures via vertically arrayed ultrathin CuSe nanosheets decorated on hollow CuS microcages targeting highly effective sodium-ion storage. Journal of Materials Chemistry A, 2021, 9, 27615-27628.	10.3	56

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37	High-performance NH₃ production via NO electroreduction over a NiO nanosheet array. Chemical Communications, 2021, 57, 13562-13565.	4.1	51
38	MXene-derived three-dimensional carbon nanotube network encapsulate CoS₂ nanoparticles as an anode material for solid-state sodium-ion batteries. Journal of Materials Chemistry A, 2020, 8, 3018-3026.	10.3	51
39	Flexible electrode constructed by encapsulating ultrafine VSe2 in carbon fiber for quasi-solid-state sodium ion batteries. Journal of Power Sources, 2020, 470, 228438.	7.8	25
40	A rough endoplasmic reticulum-like VSe₂/rGO anode for superior sodium-ion capacitors. Inorganic Chemistry Frontiers, 2019, 6, 2935-2943.	6.0	46
41	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.	8.0	21
42	A coaxial nanocable textured by a cerium oxide shell and carbon core for sensing nitric oxide. Mikrochimica Acta, 2019, 186, 789.	5.0	1