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High-efficiency electrochemical nitrite reduction to ammonium using a Cu₃P nanowire array under ambient conditions

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#	Paper	IF	Citations
53	High-efficiency nitrate electroreduction to ammonia on electrodeposited cobalt-phosphorus alloy film. <i>Chemical Communications</i> , 2021 , 57, 9720-9723	5.8	19
52	NiP 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	9.3	17
51	CuP@CoO core-shell heterostructure with synergistic effect for highly efficient hydrogen evolution. <i>Nanoscale</i> , 2021 , 13, 19430-19437	7.7	2
50	Insightful view on the active sites of Ni/NixP for hydrogen evolution reaction. <i>Applied Materials Today</i> , 2022 , 26, 101343	6.6	1
49	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	13	6
48	High-efficiency ammonia electrosynthesis via selective reduction of nitrate on ZnCo2O4 nanosheet array. <i>Materials Today Physics</i> , 2022 , 23, 100619	8	11
47	Boosting electrochemical nitrite-ammonia conversion properties by a Cu foam@CuO catalyst.. <i>Chemical Communications</i> , 2021 ,	5.8	5
46	Iron-doped cobalt oxide nanoarray for efficient electrocatalytic nitrate-to-ammonia conversion.. <i>Journal of Colloid and Interface Science</i> , 2022 , 615, 636-642	9.3	5
45	Tailoring the d-band centers of FeP nanobelt arrays by fluorine doping for enhanced hydrogen evolution at high current density. <i>Fuel</i> , 2022 , 316, 123206	7.1	0
44	Construction of La2O3-CeO2 Composites Modified Glassy Carbon Electrode as a Novel Electrochemical Sensor for Sensitive Detection of Nitrite. <i>Chemistry Letters</i> ,	1.7	1
43	Ambient Ammonia Synthesis via Electrochemical Reduction of Nitrate Enabled by NiCo O Nanowire Array.. <i>Small</i> , 2022 , e2106961	11	27
42	High-efficiency ammonia electrosynthesis on self-supported Co2AlO4 nanoarray in neutral media by selective reduction of nitrate. <i>Chemical Engineering Journal</i> , 2022 , 435, 135104	14.7	9
41	In situ grown Fe3O4 particle on stainless steel: A highly efficient electrocatalyst for nitrate reduction to ammonia. <i>Nano Research</i> , 1	10	17
40	Efficient ammonia synthesis electroreduction of nitrite using single-atom Ru-doped Cu nanowire arrays.. <i>Chemical Communications</i> , 2022 ,	5.8	1
39	A 3D FeOOH nanotube array: an efficient catalyst for ammonia electrosynthesis by nitrite reduction.. <i>Chemical Communications</i> , 2022 ,	5.8	1
38	Co-NCNT nanohybrid as a highly active catalyst for the electroreduction of nitrate to ammonia.. <i>Chemical Communications</i> , 2022 ,	5.8	1
37	Efficient Ammonia Synthesis Via Electroreduction of Nitrite Using Single-Atom Ru-Doped Cu Nanowire Arrays. <i>SSRN Electronic Journal</i> ,	1	1

36	A TiO nanobelt array with oxygen vacancies: an efficient electrocatalyst toward nitrite conversion to ammonia.. <i>Chemical Communications</i> , 2022 ,	5.8	4
35	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	13	4
34	Governing Interlayer Strain in Bismuth Nanocrystals for Efficient Ammonia Electrosynthesis from Nitrate Reduction.. <i>ACS Nano</i> , 2022 ,	16.7	12
33	Kinetic Analysis of Nitrite Reduction Reactions by Nitrite Reductase Derived from Spinach in the Presence of One-Electron Reduced Riboflavin. <i>Sci</i> , 2022 , 4, 13	0.7	
32	Ni nanoparticles modified Cu nanowires for enhanced electrocatalytic nitrate removal. <i>Surface Innovations</i> , 1-7	1.9	0
31	Boron nitride quantum dots coupled with CoP nanosheet arrays grown on carbon cloth for efficient nitrogen reduction reaction. <i>Chemical Engineering Journal</i> , 2022 , 440, 135853	14.7	0
30	Interface engineering of S-doped Co ₂ P@Ni ₂ P core-shell heterostructures for efficient and energy-saving water splitting. <i>Chemical Engineering Journal</i> , 2022 , 439, 135743	14.7	5
29	AuCu nanofibers for electrosynthesis of urea from carbon dioxide and nitrite. <i>Cell Reports Physical Science</i> , 2022 , 100869	6.1	4
28	Metal-Organic Framework-Derived Multidimensional Hierarchical Assembling Body with a Superhydrophilic and Superaerophobic Surface Toward Efficient Electrochemical Overall Water Splitting. <i>ACS Sustainable Chemistry and Engineering</i> ,	8.3	1
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26	A Zn-nitrite battery as an energy-output electrocatalytic system for high-efficiency ammonia synthesis by carbon-doped cobalt oxide nanotubes. <i>Energy and Environmental Science</i> ,	35.4	6
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21	High-Efficiency Ammonia Electrosynthesis on Anatase TiO ₂ Nanobelt Arrays with Oxygen Vacancies by Selective Reduction of Nitrite. 2022 , 61, 12895-12902		0
20	Heterointerface-triggered electronic structure reformation: Pd/CuO nano-olives motivate nitrite electroreduction to ammonia. 2022 , 121876		1
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17	Amorphous CoB nanoarray as a high-efficiency electrocatalyst for nitrite reduction to ammonia.	0
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15	Recent Advances in Upgrading of Low-Cost Oxidants to Value-Added Products by Electrocatalytic Reduction Reaction. 2208212	4
14	Ambient Electroreduction of Nitrite to Ammonia over Ni Nanoparticle Supported on Molasses-Derived Carbon Sheets.	2
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12	Simultaneous Photoelectrocatalytic Oxidation and Nitrite-Ammonia Conversion with Artificial Photoelectrochemistry Cells. 2201782	1
11	Catalytic active centers beyond transition metals: atomically dispersed alkaline-earth metals for electroreduction of nitrate to ammonia.	9
10	Highly Dispersed In-Situ Grown Bi ₂ O ₃ Nanosheets on Ti ₃ C ₂ T _x MXene for Selective Electroreduction of Nitrate to Ammonia.	0
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6	Size-Selected Cu ₄ cluster anchored on C ₂ N monolayer for efficient nitrite electroreduction to ammonia: a computational study. 2023 , 620, 156825	0
5	Fe ₂ P nanoparticle-decorated porous biochar for high-efficiency electrosynthesis of ammonia from toxic nitrite. 2023 , 38, 102818	0
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3	Ni@TiO ₂ Nanoarray with the Schottky Junction for the Highly Selective Electrochemical Reduction of Nitrite to Ammonia. 2023 , 11, 2686-2691	0
2	Development of copper foam-based composite catalysts for electrolysis of water and beyond. 2023 , 7, 1604-1626	0
1	Rational Construction of Heterostructured Cu ₃ P@TiO ₂ Nanoarray for High-Efficiency Electrochemical Nitrite Reduction to Ammonia.	0

