Qingquan Kong

List of Publications by Year
in descending order

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75 papers	2,627 citations	186265 28 h-index	197818 49 g-index
76 all docs	76 docs citations	76 times ranked	1340 citing authors

#	Article	IF	Citations
1	Ambient Ammonia Synthesis via Electrochemical Reduction of Nitrate Enabled by NiCo₂O₄ Nanowire Array. Small, 2022, 18, e2106961.	10.0	171
2	Recent advances in strategies for highly selective electrocatalytic N2 reduction toward ambient NH3 synthesis. Current Opinion in Electrochemistry, 2021, 29, 100766.	4.8	147
3	A Ni-MOF nanosheet array for efficient oxygen evolution electrocatalysis in alkaline media. Inorganic Chemistry Frontiers, 2021, 8, 3007-3011.	6.0	143
4	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
5	N/O double-doped biomass hard carbon material realizes fast and stable potassium ion storage. Carbon, 2021, 176, 71-82.	10.3	105
6	Progress and perspective of metal phosphide/carbon heterostructure anodes for rechargeable ion batteries. Journal of Materials Chemistry A, 2021, 9, 11879-11907.	10.3	102
7	Ambient ammonia production via electrocatalytic nitrite reduction catalyzed by a CoP nanoarray. Nano Research, 2022, 15, 972-977.	10.4	98
8	Ti₂O₃ Nanoparticles with Ti³⁺ Sites toward Efficient NH₃ Electrosynthesis under Ambient Conditions. ACS Applied Materials & Interfaces, 2021, 13, 41715-41722.	8.0	89
9	Alkylthiol surface engineering: an effective strategy toward enhanced electrocatalytic N₂-to-NH₃ fixation by a CoP nanoarray. Journal of Materials Chemistry A, 2021, 9, 13861-13866.	10.3	83
10	Enhancing electrocatalytic N2-to-NH3 fixation by suppressing hydrogen evolution with alkylthiols modified Fe3P nanoarrays. Nano Research, 2022, 15, 1039-1046.	10.4	74
11	High-efficiency ammonia electrosynthesis via selective reduction of nitrate on ZnCo2O4 nanosheet array. Materials Today Physics, 2022, 23, 100619.	6.0	72
12	Enhanced N2-to-NH3 conversion efficiency on Cu3P nanoribbon electrocatalyst. Nano Research, 2022, 15, 7134-7138.	10.4	72
13	High-efficiency ammonia electrosynthesis on self-supported Co2AlO4 nanoarray in neutral media by selective reduction of nitrate. Chemical Engineering Journal, 2022, 435, 135104.	12.7	71
14	Nitrite reduction over Ag nanoarray electrocatalyst for ammonia synthesis. Journal of Colloid and Interface Science, 2022, 623, 513-519.	9.4	71
15	Iron-doped cobalt oxide nanoarray for efficient electrocatalytic nitrate-to-ammonia conversion. Journal of Colloid and Interface Science, 2022, 615, 636-642.	9.4	67
16	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
17	High-efficiency nitrate electroreduction to ammonia on electrodeposited cobaltâ€“phosphorus alloy film. Chemical Communications, 2021, 57, 9720-9723.	4.1	58
18	High-Performance Electrochemical Nitrate Reduction to Ammonia under Ambient Conditions Using a FeOOH Nanorod Catalyst. ACS Applied Materials & Interfaces, 2022, 14, 17312-17318.	8.0	58

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19	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
20	Exceptional Photocatalytic Activities of rGO Modified (B,N) Coâ€Doped WO₃, Coupled with CdSe QDs for One Photon Zâ€Scheme System: A Joint Experimental and DFT Study. Advanced Science, 2022, 9, e2102530.	11.2	52
21	High-performance NH₃ production via NO electroreduction over a NiO nanosheet array. Chemical Communications, 2021, 57, 13562-13565.	4.1	51
22	Cu nanoparticles decorated juncus-derived carbon for efficient electrocatalytic nitrite-to-ammonia conversion. Journal of Colloid and Interface Science, 2022, 624, 394-399.	9.4	39
23	Accelerating CO2 reduction on novel double perovskite oxide with sulfur, carbon incorporation: Synergistic electronic and chemical engineering. Chemical Engineering Journal, 2022, 446, 137161.	12.7	34
24	Caged biomass carbon with anchoring MoO2/NC Nanospheres: Synergistic enhancement of potassium ion storage and electrochemical performance. Applied Surface Science, 2021, 569, 150984.	6.1	33
25	The effect of heat treatment on the anataseâ€“rutile phase transformation and photocatalytic activity of Sn-doped TiO₂ nanomaterials. RSC Advances, 2018, 8, 14249-14257.	3.6	32
26	Reduced graphene oxide supported ZIF-67 derived CoP enables high-performance potassium ion storage. Journal of Colloid and Interface Science, 2021, 604, 319-326.	9.4	32
27	Boosting electrochemical nitriteâ€“ammonia conversion properties by a Cu foam@Cu₂O catalyst. Chemical Communications, 2022, 58, 517-520.	4.1	32
28	Bi nanoparticles/carbon nanosheet composite: A high-efficiency electrocatalyst for NO reduction to NH3. Nano Research, 2022, 15, 5032-5037.	10.4	32
29	Promoting the Oxygen Evolution Activity of Perovskite Nickelates through Phase Engineering. ACS Applied Materials & Interfaces, 2021, 13, 58566-58575.	8.0	30
30	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
31	Bulk hierarchical nanoporous palladium prepared by dealloying PdAl alloys and its electrochemical properties. Microporous and Mesoporous Materials, 2015, 208, 152-159.	4.4	28
32	Fabrication of ultrafine grained FeCrAl-0.6Âwt.% ZrC alloys with enhanced mechanical properties by spark plasma sintering. Advanced Powder Technology, 2021, 32, 1380-1389.	4.1	28
33	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
34	Multiscale manipulating induced flexible heterogeneous V-NiFe2O4@Ni2P electrocatalyst for efficient and durable oxygen evolution reaction. Nano Research, 2022, 15, 4942-4949.	10.4	26
35	Directionally Tailoring Macroporous Honeycomb-Like Structured Carbon Nanofibers toward High-Capacitive Potassium Storage. ACS Applied Materials & Interfaces, 2021, 13, 30693-30702.	8.0	25
36	High-performance electrochemical nitrate reduction to ammonia under ambient conditions using NiFe₂O₄nanosheet arrays. Inorganic Chemistry Frontiers, 2022, 9, 3392-3397.	6.0	25

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37	One-step hydrothermal synthesis and characterization of Cu-doped TiO2 nanoparticles/nanobucks/nanorods with enhanced photocatalytic performance under simulated solar light. Journal of Materials Science: Materials in Electronics, 2019, 30, 13826-13834.	2.2	24
38	Fabrication and compression properties of bulk hierarchical nanoporous copper with fine ligament. Materials Letters, 2014, 127, 59-62.	2.6	23
39	Exploring the high-temperature steam oxidation behaviors of the lean-Cr (7â€“10Âwt%) FeCrAl alloys. Corrosion Science, 2022, 194, 109927.	6.6	19
40	Characterization and corrosion behaviour of Ti-13Nb-13Zr alloy prepared by mechanical alloying and spark plasma sintering. Materials Today Communications, 2020, 23, 101130.	1.9	17
41	Hydrogen absorption/desorption properties of porous hollow palladium spheres prepared by templating method. Journal of Alloys and Compounds, 2016, 664, 188-192.	5.5	14
42	Hydrothermal Synthesis of Nanoporous NiO Rods Self-Supported on Ni Foam as Efficient Electrocatalysts for Hydrogen Evolution Reaction. Jom, 2019, 71, 621-625.	1.9	14
43	Ni_xCu_{1â^'x}/CuO/Ni(OH)₂ as highly active and stable electrocatalysts for oxygen evolution reaction. New Journal of Chemistry, 2021, 45, 18482-18490.	2.8	14
44	Multidimensional VO2 nanotubes/Ti3C2 MXene composite for efficient electrochemical lithium/sodium-ion storage. Journal of Power Sources, 2022, 521, 230946.	7.8	14
45	Hierarchical porous copper materials: fabrication and characterisation. Micro and Nano Letters, 2013, 8, 432-435.	1.3	13
46	Enhanced electrocatalytic nitrate reduction to ammonia using plasmaâ€induced oxygen vacancies in CoTiO_{3â€‰â^'â€‰x} nanofiber. , 2022, 1, 6-13.		13
47	Morphology-Controlled Synthesis of Co3O4 Materials and its Electrochemical Catalytic Properties Towards Oxygen Evolution Reaction. Catalysis Letters, 2018, 148, 3771-3778.	2.6	12
48	Improved catalytic combustion of methane using CuO nanobelts with predominantly (001) surfaces. Beilstein Journal of Nanotechnology, 2018, 9, 2526-2532.	2.8	12
49	Hybrid Amorphous/Crystalline FeNi (Oxy) Hydroxide Nanosheets for Enhanced Oxygen Evolution. ChemCatChem, 2019, 11, 3004-3009.	3.7	12
50	A DFT study of Ti3C2O2 MXenes quantum dots supported on single layer graphene: Electronic structure an hydrogen evolution performance. Frontiers of Physics, 2021, 16, 1.	5.0	12
51	Fabrication and Characterization of Nanocrystalline Alâ€“Cu Alloy by Spark Plasma Sintering. Materials and Manufacturing Processes, 2014, 29, 1232-1236.	4.7	11
52	Fabrication, characterization and electrochemical properties of porous hollow palladium spheres. Journal of Alloys and Compounds, 2015, 632, 701-706.	5.5	11
53	SiS nanosheets as a promising anode material for Li-ion batteries: a computational study. Physical Chemistry Chemical Physics, 2017, 19, 8563-8567.	2.8	11
54	Urchin-liked FexCo1-x/CoOOH/FeOOH nanoparticles for highly efficient oxygen evolution reaction. Applied Surface Science, 2022, 577, 151830.	6.1	11

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55	FeCoNi Ternary Spinel Oxides Nanosheets as High Performance Water Oxidation Electrocatalyst. ChemCatChem, 2020, 12, 2209-2214.	3.7	10
56	Development of biomedical Ti-Nb-Zr-Mn alloys with enhanced mechanical properties and corrosion resistance. Materials Today Communications, 2022, 30, 103027.	1.9	10
57	A Singleâ€Layer Composite Separator with 3Dâ€Reinforced Microstructure for Practical Highâ€Temperature Lithium Ion Batteries. Small, 2022, 18, e2107664.	10.0	10
58	Influence of Hydrogen Sulfide and Redox Reactions on the Surface Properties and Hydrogen Permeability of Pd Membranes. Energies, 2018, 11, 1127.	3.1	9
59	Rapid screening of NixFe1â^'x/Fe2O3/Ni(OH)2 complexes with excellent oxygen evolution reaction activity and durability by a two-step electrodeposition method. Applied Surface Science, 2022, 592, 153251.	6.1	9
60	Significantly enhanced oxygen evolution reaction performance by tuning surface states of Co through Cu modification in alloy structure. Journal of Electroanalytical Chemistry, 2021, 903, 115823.	3.8	8
61	Fabrication and characterization of bulk nanoporous Cu with hierarchical pore structure. Journal of Materials Science, 2017, 52, 12445-12454.	3.7	6
62	Facile synthesis of self support Fe doped Ni3S2 nanosheet arrays for high performance alkaline oxygen evolution. Journal of Electroanalytical Chemistry, 2022, 907, 116047.	3.8	6
63	Controlled synthesis of monodisperse silica particles. Micro and Nano Letters, 2016, 11, 532-534.	1.3	5
64	Influence of High-Temperature Water Vapor on Titanium Film Surface. Oxidation of Metals, 2016, 86, 179-192.	2.1	5
65	Preparation and characterisation of Ag modified rutile titanium dioxide and its photocatalytic activity under simulated solar light. Micro and Nano Letters, 2019, 14, 757-760.	1.3	4
66	Low-temperature hydrogen release through LiAlH4 and NH4F react in Et2O. International Journal of Hydrogen Energy, 2020, 45, 8774-8782.	7.1	4
67	Ni75Cu25O polyhedron material derived from nickel-copper oxalate as high-performance electrocatalyst for glucose oxidation. Composites Communications, 2022, 29, 100999.	6.3	4
68	Controllable fabrication of bulk hierarchical nanoporous palladium by chemical dealloying at various temperature and its thermal coarsening. Journal of Porous Materials, 2018, 25, 555-563.	2.6	3
69	Effect of Spark Plasma Sintering on the Structure and Compressive Strength of Porous Nickel. Powder Metallurgy and Metal Ceramics, 2018, 57, 154-160.	0.8	3
70	Electrodeposition of Amorphous Feâ^'P Shell on Co(OH)F Nanowire Arrays for Boosting Oxygen Evolution Electrocatalysis in Alkaline Media. ChemNanoMat, 2022, 8, .	2.8	3
71	ZrO₂/C Nanosphere Enables Highâ€Efficiency Nitrogen Reduction to Ammonia at Ambient Conditions. ChemCatChem, 2022, 14, .	3.7	3
72	Fabrication, characterization and electrochemical properties of porous palladium bulk samples with high porosity and hierarchical pore structure. Chinese Journal of Catalysis, 2017, 38, 1038-1044.	14.0	2

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73	Characterization and Thermal Stability Properties of Bulk Hierarchical Porous Pd Prepared by Kirkendall Effect and Dealloying Method. Journal of Nanomaterials, 2018, 2018, 1-7.	2.7	2
74	Design of heterojunction with components in different dimensions for electrocatalysis applications. Frontiers of Physics, 2022, 17, .	5.0	2
75	Moâ€Doped Sulfurâ€Vacancyâ€Rich V _{1.11} S ₂ Nanosheets for Efficient Hydrogen Evolution. ChemistrySelect, 2022, 7, .	1.5	1