

Xuping Sun

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

601
papers

56,603
citations

126
h-index

209
g-index

625
ext. papers

65,823
ext. citations

7.7
avg, IF

8.35
L-index

#	Paper	IF	Citations
601	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
600	High-efficiency ammonia electrosynthesis via selective reduction of nitrate on ZnCo ₂ O ₄ nanosheet array. <i>Materials Today Physics</i> , 2022 , 23, 100619	8	11
599	Bi nanodendrites for highly efficient electrocatalytic NO reduction to NH ₃ at ambient conditions. <i>Materials Today Physics</i> , 2022 , 22, 100611	8	12
598	Superior hydrogen evolution electrocatalysis enabled by CoP nanowire array on graphite felt. <i>International Journal of Hydrogen Energy</i> , 2022 , 47, 3580-3586	6.7	22
597	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
596	Ambient Ammonia Synthesis via Electrochemical Reduction of Nitrate Enabled by NiCo O Nanowire Array.. <i>Small</i> , 2022 , e2106961	11	27
595	High-efficiency ammonia electrosynthesis on self-supported Co ₂ AlO ₄ nanoarray in neutral media by selective reduction of nitrate. <i>Chemical Engineering Journal</i> , 2022 , 435, 135104	14.7	9
594	Recent advances in MoS-based materials for electrocatalysis.. <i>Chemical Communications</i> , 2022 ,	5.8	4
593	Polyrrole-encapsulated Cu ₂ Se nanosheets in situ grown on Cu mesh for high stability sodium-ion battery anode. <i>Chemical Engineering Journal</i> , 2022 , 433, 134477	14.7	5
592	Improving the intrinsic electronic conductivity of NiMoO ₄ anodes by phosphorous doping for high lithium storage. <i>Nano Research</i> , 2022 , 15, 186	10	18
591	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
590	Co-NCNT nanohybrid as a highly active catalyst for the electroreduction of nitrate to ammonia.. <i>Chemical Communications</i> , 2022 ,	5.8	1
589	Ambient electrochemical N ₂ -to-NH ₃ conversion catalyzed by TiO ₂ decorated juncus effusus-derived carbon microtubes. <i>Inorganic Chemistry Frontiers</i> , 2022 , 9, 1514-1519	6.8	9
588	A TiO nanobelt array with oxygen vacancies: an efficient electrocatalyst toward nitrite conversion to ammonia.. <i>Chemical Communications</i> , 2022 ,	5.8	4
587	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
586	Amorphous Boron Carbide on Titanium Dioxide Nanobelt Arrays for High-Efficiency Electrocatalytic NO Reduction to NH ₃ .. <i>Angewandte Chemie - International Edition</i> , 2022 ,	16.4	13
585	High-efficiency NO electroreduction to NH over honeycomb carbon nanofiber at ambient conditions.. <i>Journal of Colloid and Interface Science</i> , 2022 , 616, 261-267	9.3	2

584	Nitrite reduction over Ag nanoarray electrocatalyst for ammonia synthesis. <i>Journal of Colloid and Interface Science</i> , 2022 ,	9.3	4
583	Cu nanoparticles decorated juncus-derived carbon for efficient electrocatalytic nitrite-to-ammonia conversion. <i>Journal of Colloid and Interface Science</i> , 2022 , 624, 394-399	9.3	2
582	High-performance NH ₃ production NO electroreduction over a NiO nanosheet array. <i>Chemical Communications</i> , 2021 ,	5.8	14
581	Boosting electrochemical nitrite-ammonia conversion properties by a Cu foam@CuO catalyst.. <i>Chemical Communications</i> , 2021 ,	5.8	5
580	Plasma-induced defective TiO _{2-x} with oxygen vacancies: A high-active and robust bifunctional catalyst toward H ₂ O ₂ electrosynthesis. <i>Chem Catalysis</i> , 2021 ,		17
579	MnO ₂ nanoarray with oxygen vacancies: An efficient catalyst for NO electroreduction to NH ₃ at ambient conditions. <i>Materials Today Physics</i> , 2021 , 22, 100586	8	18
578	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	13	9
577	Electrochemical two-electron O ₂ reduction reaction toward H ₂ O ₂ production: using cobalt porphyrin decorated carbon nanotubes as a nanohybrid catalyst. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 26019-26027	13	7
576	Electrocatalytic H ₂ O ₂ production via two-electron O ₂ reduction by Mo-doped TiO ₂ nanocrystallines. <i>Catalysis Science and Technology</i> , 2021 , 11, 6970-6974	5.5	1
575	A MnS/FeS ₂ heterostructure with a high degree of lattice matching anchored into carbon skeleton for ultra-stable sodium-ion storage. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 24024-24035	13	12
574	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	13	19
573	CoFe-LDH nanowire arrays on graphite felt: A high-performance oxygen evolution electrocatalyst in alkaline media. <i>Chinese Chemical Letters</i> , 2021 ,	8.1	24
572	Constructing hydrogen-bonding microenvironment for boosting CO ₂ to CH ₄ . <i>Chem Catalysis</i> , 2021 , 1, 974-976		0
571	A three-dimensional CoNi-MOF nanosheet array-based immunosensor for sensitive monitoring of human chorionic gonadotropin with core-shell ZnNi-MOF@Nile Blue nanotags. <i>Analyst, The</i> , 2021 , 145, 8097-8103	5	6
570	Recent Advances in Nonprecious Metal Oxide Electrocatalysts and Photocatalysts for N ₂ Reduction Reaction under Ambient Condition. <i>Small Science</i> , 2021 , 1, 2000069		33
569	2D Vanadium Carbide (MXene) for Electrochemical Synthesis of Ammonia Under Ambient Conditions. <i>Catalysis Letters</i> , 2021 , 151, 3516	2.8	10
568	Honeycomb Carbon Nanofibers: A Superhydrophilic O ₂ -Entrapping Electrocatalyst Enables Ultrahigh Mass Activity for the Two-Electron Oxygen Reduction Reaction. <i>Angewandte Chemie</i> , 2021 , 133, 10677-10681	3.6	12
567	Honeycomb Carbon Nanofibers: A Superhydrophilic O ₂ -Entrapping Electrocatalyst Enables Ultrahigh Mass Activity for the Two-Electron Oxygen Reduction Reaction. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 10583-10587	16.4	76

566	2021 Roadmap: electrocatalysts for green catalytic processes. <i>JPhys Materials</i> , 2021 , 4, 022004	4.2	24
565	In Situ Derived Bi Nanoparticles Confined in Carbon Rods as an Efficient Electrocatalyst for Ambient N Reduction to NH. <i>Inorganic Chemistry</i> , 2021 , 60, 7584-7589	5.1	2
564	N-doped carbon nanotubes supported CoSe nanoparticles: A highly efficient and stable catalyst for HO electrosynthesis in acidic media. <i>Nano Research</i> , 2021 , 15, 1-6	10	19
563	Zinc doped Fe ₂ O ₃ for boosting Electrocatalytic Nitrogen Fixation to ammonia under mild conditions. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 14331-14337	6.7	5
562	TiB ₂ thin film enabled efficient NH ₃ electrosynthesis at ambient conditions. <i>Materials Today Physics</i> , 2021 , 18, 100396	8	37
561	Co-MOF Nanosheet Arrays for Efficient Alkaline Oxygen Evolution Electrocatalysis. <i>ChemNanoMat</i> , 2021 , 7, 906-909	3.5	11
560	Directionally Tailoring Macroporous Honeycomb-Like Structured Carbon Nanofibers toward High-Capacitive Potassium Storage. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 30693-30702	9.5	7
559	Ag@TiO ₂ as an Efficient Electrocatalyst for N ₂ Fixation to NH ₃ under Ambient Conditions. <i>ChemistrySelect</i> , 2021 , 6, 5271-5274	1.8	3
558	Facile electrochemical fabrication of magnetic Fe ₃ O ₄ for electrocatalytic synthesis of ammonia used for hydrogen storage application. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 24128-24134	6.7	1
557	Enhanced Electrochemical HO Production via Two-Electron Oxygen Reduction Enabled by Surface-Derived Amorphous Oxygen-Deficient TiO. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 33182-33187	9.5	24
556	Recent Advances in 1D Electrospun Nanocatalysts for Electrochemical Water Splitting. <i>Small Structures</i> , 2021 , 2, 2000048	8.7	86
555	Facilitating active species by decorating CeO ₂ on Ni ₃ S ₂ nanosheets for efficient water oxidation electrocatalysis. <i>Chinese Journal of Catalysis</i> , 2021 , 42, 482-489	11.3	29
554	Rational design of carbon materials as anodes for potassium-ion batteries. <i>Energy Storage Materials</i> , 2021 , 34, 483-507	19.4	59
553	Recent advances in lithium-based batteries using metal organic frameworks as electrode materials. <i>Electrochemistry Communications</i> , 2021 , 122, 106881	5.1	25
552	Commercial indium-tin oxide glass: A catalyst electrode for efficient N ₂ reduction at ambient conditions. <i>Chinese Journal of Catalysis</i> , 2021 , 42, 1024-1029	11.3	44
551	Electrospun zirconia nanofibers for enhancing the electrochemical synthesis of ammonia by artificial nitrogen fixation. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 2145-2151	13	19
550	A magnetron sputtered Mo ₃ Si thin film: an efficient electrocatalyst for N ₂ reduction under ambient conditions. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 884-888	13	53
549	Iron-group electrocatalysts for ambient nitrogen reduction reaction in aqueous media. <i>Nano Research</i> , 2021 , 14, 555-569	10	84

548	One-dimensional conductive metal-organic framework nanorods: a highly selective electrocatalyst for the oxygen reduction to hydrogen peroxide. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 20345-20349	13	9
547	Hexagonal boron nitride nanosheet as an effective nanoquencher for the fluorescence detection of microRNA. <i>Chemical Communications</i> , 2021 , 57, 8039-8042	5.8	7
546	Modulating Oxygen Vacancies of TiO ₂ Nanospheres by Mn-Doping to Boost Electrocatalytic N ₂ Reduction. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 1512-1517	8.3	18
545	Magnetron sputtering enabled sustainable synthesis of nanomaterials for energy electrocatalysis. <i>Green Chemistry</i> , 2021 , 23, 2834-2867	10	40
544	Analysis of Thermal Stress in a Solid Oxide Fuel Cell Due to the Sulfur Poisoning Interface of the Electrolyte and Cathode. <i>Energy & Fuels</i> , 2021 , 35, 2674-2682	4.1	4
543	Practical strategies for enhanced performance of anode materials in Na ⁺ /K ⁺ -ion batteries. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 7317-7335	13	19
542	Isolated copper single sites for high-performance electroreduction of carbon monoxide to multicarbon products. <i>Nature Communications</i> , 2021 , 12, 238	17.4	62
541	High-efficiency nitrate electroreduction to ammonia on electrodeposited cobalt-phosphorus alloy film. <i>Chemical Communications</i> , 2021 , 57, 9720-9723	5.8	19
540	Self-supported NiS@NiP/MoS heterostructures on nickel foam for an outstanding oxygen evolution reaction and efficient overall water splitting. <i>Dalton Transactions</i> , 2021 , 50, 15094-15102	4.3	9
539	Recent advances in perovskite oxides as electrode materials for supercapacitors. <i>Chemical Communications</i> , 2021 , 57, 2343-2355	5.8	29
538	Cu ₂ Sb decorated Cu nanowire arrays for selective electrocatalytic CO ₂ to CO conversion. <i>Nano Research</i> , 2021 , 14, 2831-2836	10	24
537	Progress and perspective of metal phosphide/carbon heterostructure anodes for rechargeable ion batteries. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 11879-11907	13	28
536	Electrochemical nitrogen reduction: recent progress and prospects. <i>Chemical Communications</i> , 2021 , 57, 7335-7349	5.8	13
535	A-site perovskite oxides: an emerging functional material for electrocatalysis and photocatalysis. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 6650-6670	13	48
534	Iron-Doped MoO Nanosheets for Boosting Nitrogen Fixation to Ammonia at Ambient Conditions. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 7142-7151	9.5	6
533	Highly Efficient Na ⁺ Storage in Uniform Thorn Ball-Like BiMnSe/C Nanospheres. <i>Acta Metallurgica Sinica (English Letters)</i> , 2021 , 34, 373-382	2.5	5
532	Numerical simulation of solid oxide fuel cells comparing different electrochemical kinetics. <i>International Journal of Energy Research</i> , 2021 , 45, 12980-12995	4.5	2
531	Bilateral Interfaces in InSe-CoIn-CoSe Heterostructures for High-Rate Reversible Sodium Storage. <i>ACS Nano</i> , 2021 ,	16.7	21

530	TiO Nanoparticles with Ti Sites toward Efficient NH Electrosynthesis under Ambient Conditions. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 41715-41722	9.5	32
529	Monodisperse Cu Cluster-Loaded Defective ZrO Nanofibers for Ambient N Fixation to NH. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 40724-40730	9.5	2
528	NiFe Layered-Double-Hydroxide Nanosheet Arrays on Graphite Felt: A 3D Electrocatalyst for Highly Efficient Water Oxidation in Alkaline Media. <i>Inorganic Chemistry</i> , 2021 , 60, 12703-12708	5.1	36
527	Greatly Facilitated Two-Electron Electroreduction of Oxygen into Hydrogen Peroxide over TiO by Mn Doping. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 46659-46664	9.5	14
526	High-Performance Electrochemical NO Reduction into NH by MoS Nanosheet. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 25263-25268	16.4	42
525	La-doped TiO ₂ nanorods toward boosted electrocatalytic N ₂ -to-NH ₃ conversion at ambient conditions. <i>Chinese Journal of Catalysis</i> , 2021 , 42, 1755-1762	11.3	14
524	Recent advances in strategies for highly selective electrocatalytic N ₂ reduction toward ambient NH ₃ synthesis. <i>Current Opinion in Electrochemistry</i> , 2021 , 29, 100766	7.2	43
523	Reduced graphene oxide supported ZIF-67 derived CoP enables high-performance potassium ion storage. <i>Journal of Colloid and Interface Science</i> , 2021 , 604, 319-326	9.3	9
522	An amorphous WC thin film enabled high-efficiency N reduction electrocatalysis under ambient conditions. <i>Chemical Communications</i> , 2021 , 57, 7806-7809	5.8	19
521	Recent Progress in Electrocatalytic Methanation of CO ₂ at Ambient Conditions. <i>Advanced Functional Materials</i> , 2021 , 31, 2009449	15.6	40
520	Constructing a hollow microflower-like ZnS/CuS@C heterojunction as an effective ion-transport booster for an ultrastable and high-rate sodium storage anode. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 6402-6412	13	39
519	Coralloid Au enables high-performance Zn O ₂ battery and self-driven CO production. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 21024-21031	13	8
518	High-efficiency electrochemical nitrite reduction to ammonium using a Cu ₃ P nanowire array under ambient conditions. <i>Green Chemistry</i> , 2021 , 23, 5487-5493	10	25
517	An Mn-doped NiCoP flower-like structure as a highly efficient electrocatalyst for hydrogen evolution reaction in acidic and alkaline solutions with long duration. <i>Nanoscale</i> , 2021 , 13, 11069-11076	7.7	19
516	A Cr-FeOOH@Ni-P/NF binder-free electrode as an excellent oxygen evolution reaction electrocatalyst. <i>Nanoscale</i> , 2021 , 13, 17003-17010	7.7	6
515	Alkylthiol surface engineering: an effective strategy toward enhanced electrocatalytic N ₂ -to-NH ₃ fixation by a CoP nanoarray. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 13861-13866	13	45
514	Electrocatalytic hydrogen peroxide production in acidic media enabled by NiS ₂ nanosheets. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 6117-6122	13	45
513	Oxidation-etching induced morphology regulation of Cu catalysts for high-performance electrochemical N ₂ reduction. <i>EcoMat</i> , 2020 , 2, e12026	9.4	7

512	High-performance non-enzymatic glucose detection: using a conductive Ni-MOF as an electrocatalyst. <i>Journal of Materials Chemistry B</i> , 2020 , 8, 5411-5415	7.3	63
511	Recent advances in electrospun one-dimensional carbon nanofiber structures/heterostructures as anode materials for sodium ion batteries. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 11493-11510	13	69
510	Lewis acid/base approach for efficacious defect passivation in perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 12201-12225	13	79
509	The synthesis of highly active carbon dot-coated gold nanoparticles the room-temperature carbonization of organic ligands for 4-nitrophenol reduction.. <i>RSC Advances</i> , 2020 , 10, 19419-19424	3.7	4
508	A cobalt-phosphorus nanoparticle decorated N-doped carbon nanosheet array for efficient and durable hydrogen evolution at alkaline pH. <i>Sustainable Energy and Fuels</i> , 2020 , 4, 3884-3887	5.8	94
507	Identifying the Origin of Ti Activity toward Enhanced Electrocatalytic N Reduction over TiO Nanoparticles Modulated by Mixed-Valent Copper. <i>Advanced Materials</i> , 2020 , 32, e2000299	24	171
506	Sn dendrites for electrocatalytic N ₂ reduction to NH ₃ under ambient conditions. <i>Sustainable Energy and Fuels</i> , 2020 , 4, 4469-4472	5.8	43
505	Greatly Enhanced Electrocatalytic N ₂ Reduction over V ₂ O ₃ /C by P Doping. <i>ChemNanoMat</i> , 2020 , 6, 13153-1319	5.3	62
504	CuO@CoFe Layered Double Hydroxide Core-Shell Heterostructure as an Efficient Water Oxidation Electrocatalyst under Mild Alkaline Conditions. <i>Inorganic Chemistry</i> , 2020 , 59, 9491-9495	5.1	37
503	Recent advances in electrospun nanofibers for supercapacitors. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 16747-16789	13	79
502	Analysis of electromagnetic pulses generation from laser coupling with polymer targets: Effect of metal content in target. <i>Matter and Radiation at Extremes</i> , 2020 , 5, 017401	4.7	7
501	Hierarchical CuO@ZnCo LDH heterostructured nanowire arrays toward enhanced water oxidation electrocatalysis. <i>Nanoscale</i> , 2020 , 12, 5359-5362	7.7	68
500	Ambient electrochemical NH ₃ synthesis from N and water enabled by ZrO nanoparticles. <i>Chemical Communications</i> , 2020 , 56, 3673-3676	5.8	54
499	Temperature control strategy for polymer electrolyte fuel cells. <i>International Journal of Energy Research</i> , 2020 , 44, 4352-4365	4.5	5
498	Bi nanodendrites for efficient electrocatalytic N fixation to NH ₃ under ambient conditions. <i>Chemical Communications</i> , 2020 , 56, 2107-2110	5.8	55
497	Co ₃ (hexahydroxytriphenylene) ₂ : A conductive metal-organic framework for ambient electrocatalytic N ₂ reduction to NH ₃ . <i>Nano Research</i> , 2020 , 13, 1008-1012	10	33
496	Environmentally friendly Mn-alloyed core/shell quantum dots for high-efficiency photoelectrochemical cells. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 10736-10741	13	20
495	Enhancing electromagnetic radiations by a pre-ablation laser during laser interaction with solid target. <i>Physics of Plasmas</i> , 2020 , 27, 032705	2.1	3

494	Highly Selective Electrochemical Reduction of CO ₂ to Alcohols on an FeP Nanoarray. <i>Angewandte Chemie</i> , 2020 , 132, 768-772	3.6	14
493	Highly Selective Electrochemical Reduction of CO to Alcohols on an FeP Nanoarray. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 758-762	16.4	73
492	Unusual electrochemical N reduction activity in an earth-abundant iron catalyst via phosphorous modulation. <i>Chemical Communications</i> , 2020 , 56, 731-734	5.8	19
491	Ti self-doped TiO nanowires for efficient electrocatalytic N reduction to NH. <i>Chemical Communications</i> , 2020 , 56, 1074-1077	5.8	29
490	An ultrasmall Ru ₂ P nanoparticles-reduced graphene oxide hybrid: an efficient electrocatalyst for NH ₃ synthesis under ambient conditions. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 77-81	13	87
489	Aqueous electrocatalytic N ₂ reduction for ambient NH ₃ synthesis: recent advances in catalyst development and performance improvement. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 1545-1556	13	158
488	FeOOH quantum dots decorated graphene sheet: An efficient electrocatalyst for ambient N ₂ reduction. <i>Nano Research</i> , 2020 , 13, 209-214	10	31
487	Bioinspired Electrocatalyst for Electrochemical Reduction of N to NH in Ambient Conditions. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 2445-2451	9.5	28
486	DyF : An Efficient Electrocatalyst for N Fixation to NH under Ambient Conditions. <i>Chemistry - an Asian Journal</i> , 2020 , 15, 487-489	4.5	30
485	P-Doped graphene toward enhanced electrocatalytic N reduction. <i>Chemical Communications</i> , 2020 , 56, 1831-1834	5.8	48
484	CoS ₂ Nanoparticles-Embedded N-Doped Carbon Nanobox Derived from ZIF-67 for Electrocatalytic N ₂ -to-NH ₃ Fixation under Ambient Conditions. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 29-33	8.3	23
483	Noble-metal-free electrospun nanomaterials as electrocatalysts for oxygen reduction reaction. <i>Materials Today Physics</i> , 2020 , 15, 100280	8	45
482	A comparative study of electrocatalytic oxidation of glucose on conductive Ni-MOF nanosheet arrays with different ligands. <i>New Journal of Chemistry</i> , 2020 , 44, 17849-17853	3.6	10
481	Noble-metal-free electrocatalysts toward H ₂ O ₂ production. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 23123-23141	13	53
480	Metal-based electrocatalytic conversion of CO ₂ to formic acid/formate. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 21947-21960	13	54
479	Electrochemical non-enzymatic glucose sensors: recent progress and perspectives. <i>Chemical Communications</i> , 2020 , 56, 14553-14569	5.8	79
478	CuP nanoparticle-reduced graphene oxide hybrid: an efficient electrocatalyst to realize N-to-NH conversion under ambient conditions. <i>Chemical Communications</i> , 2020 , 56, 9328-9331	5.8	38
477	Self-supported cobalt phosphate nanoarray with pseudocapacitive behavior: An efficient 3D anode material for sodium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2020 , 848, 156285	5.7	10

476	Electrocatalytic N ₂ reduction to NH ₃ with high Faradaic efficiency enabled by vanadium phosphide nanoparticle on V foil. <i>Nano Research</i> , 2020 , 13, 2967-2972	10	32
475	3D shell-core structured NiCu-OH@Cu(OH) ₂ nanorod: A high-performance catalytic electrode for non-enzymatic glucose detection. <i>Journal of Electroanalytical Chemistry</i> , 2020 , 876, 114477	4.1	10
474	Enabling electrochemical conversion of N ₂ to NH ₃ under ambient conditions by a CoP ₃ nanoneedle array. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 17956-17959	13	35
473	Enhanced electrocatalytic N-to-NH fixation by ZrS nanofibers with a sulfur vacancy. <i>Chemical Communications</i> , 2020 , 56, 14031-14034	5.8	16
472	Magnetron sputtering enabled synthesis of nanostructured materials for electrochemical energy storage. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 20260-20285	13	7
471	Iron-based phosphides as electrocatalysts for the hydrogen evolution reaction: recent advances and future prospects. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 19729-19745	13	166
470	Se?C Bonding Promoting Fast and Durable Na Storage in Yolk-Shell SnSe @Se?C. <i>Small</i> , 2020 , 16, e2002486	486	39
469	Electrochemical Synthesis of Ammonia Based on a Perovskite LaCrO ₃ Catalyst. <i>ChemCatChem</i> , 2020 , 12, 731-735	5.2	17
468	Biomimetic Assembly of a Polydopamine Layer on Graphene as an Electron Gate for Fluorescent MicroRNA Detection in Living Cells. <i>ChemBioChem</i> , 2020 , 21, 801-806	3.8	4
467	Progress in the use of electrospun nanofiber electrodes for solid oxide fuel cells: a review. <i>Reviews in Chemical Engineering</i> , 2020 , 36, 879-931	5	4
466	Porous LaFeO ₃ nanofiber with oxygen vacancies as an efficient electrocatalyst for N ₂ conversion to NH ₃ under ambient conditions. <i>Journal of Energy Chemistry</i> , 2020 , 50, 402-408	12	62
465	Greatly Improving Electrochemical N Reduction over TiO Nanoparticles by Iron Doping. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 18449-18453	16.4	250
464	An Fe ₂ O ₃ nanoparticle-reduced graphene oxide composite for ambient electrocatalytic N ₂ reduction to NH ₃ . <i>Inorganic Chemistry Frontiers</i> , 2019 , 6, 2682-2685	6.8	20
463	Ni foam-supported NiCoP nanosheets as bifunctional electrocatalysts for efficient overall water splitting. <i>Chinese Journal of Catalysis</i> , 2019 , 40, 1405-1407	11.3	7
462	Improving the electrocatalytic N ₂ reduction activity of Pd nanoparticles through surface modification. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 21674-21677	13	80
461	CrC Nanoparticle-Embedded Carbon Nanofiber for Artificial Synthesis of NH ₃ through N Fixation under Ambient Conditions. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 35764-35769	9.5	30
460	Electrocatalytic CO ₂ Reduction to Alcohols with High Selectivity over a Two-Dimensional Fe ₂ P ₂ S ₆ Nanosheet. <i>ACS Catalysis</i> , 2019 , 9, 9721-9725	13.1	48
459	Off-Stoichiometric Methylammonium Iodide Passivated Large-Grain Perovskite Film in Ambient Air for Efficient Inverted Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 39882-39889	9.5	39

458	Metal-organic framework-derived shuttle-like V ₂ O ₃ /C for electrocatalytic N ₂ reduction under ambient conditions. <i>Inorganic Chemistry Frontiers</i> , 2019 , 6, 391-395	6.8	65
457	CrO Nanoparticle-Reduced Graphene Oxide Hybrid: A Highly Active Electrocatalyst for N Reduction at Ambient Conditions. <i>Inorganic Chemistry</i> , 2019 , 58, 2257-2260	5.1	79
456	Biomass-derived oxygen-doped hollow carbon microtubes for electrocatalytic N-to-NH fixation under ambient conditions. <i>Chemical Communications</i> , 2019 , 55, 2684-2687	5.8	39
455	Insights into defective TiO in electrocatalytic N reduction: combining theoretical and experimental studies. <i>Nanoscale</i> , 2019 , 11, 1555-1562	7.7	95
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448	Electrocatalytic N-to-NH conversion using oxygen-doped graphene: experimental and theoretical studies. <i>Chemical Communications</i> , 2019 , 55, 7502-7505	5.8	63
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444	NiP Nanosheets on Carbon Cloth: An Efficient Flexible Electrode for Sodium-Ion Batteries. <i>Inorganic Chemistry</i> , 2019 , 58, 6579-6583	5.1	24
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442	Boosting electrocatalytic N reduction by MnO with oxygen vacancies. <i>Chemical Communications</i> , 2019 , 55, 4627-4630	5.8	83
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438	Boosting electrocatalytic N reduction to NH on FeOOH by fluorine doping. <i>Chemical Communications</i> , 2019 , 55, 3987-3990	5.8	86
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436	SnO ₂ nanorod: An efficient non-noble-metal electrocatalyst for non-enzymatic H ₂ O ₂ sensing. <i>Materials Research Express</i> , 2019 , 6, 065055	1.7	5
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4 ¹⁹	Greatly Improving Electrochemical N ₂ Reduction over TiO ₂ Nanoparticles by Iron Doping. <i>Angewandte Chemie</i> , 2019 , 131, 18620-18624	3.6	31
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4 ¹⁶	2020 Roadmap on gas-involved photo- and electro- catalysis. <i>Chinese Chemical Letters</i> , 2019 , 30, 2089-2109	10.9	59
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4 ¹³	PdP ₂ nanoparticles/reduced graphene oxide for electrocatalytic N ₂ conversion to NH ₃ under ambient conditions. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 24760-24764	13	67
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4 ⁰⁷	Electrocatalytic Hydrogenation of N to NH by MnO: Experimental and Theoretical Investigations. <i>Advanced Science</i> , 2019 , 6, 1801182	13.6	92
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4 ⁰⁵	Enhancing Electrocatalytic N ₂ Reduction to NH ₃ by CeO ₂ Nanorod with Oxygen Vacancies. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 2889-2893	8.3	71

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36	Supramolecular microrods can be prepared by mixing aqueous Ru(NH ₃) ₆ Cl ₃ and K ₃ Fe(CN) ₆ solutions at room temperature. <i>Colloid Journal</i> , 2010 , 72, 141-144	1.1	1
35	Synthesis and characterization of CuInS ₂ nanoflowers. <i>Colloid Journal</i> , 2010 , 72, 282-285	1.1	7
34	Formation of [Ru(bpy) ₃] ²⁺ -containing microstructures induced by electrostatic assembly and their application in solid-state detection of electrochemiluminescence. <i>Chemistry - an Asian Journal</i> , 2007 , 2, 1137-41	4.5	6
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32	Mixing aqueous ferric chloride and O-phenylenediamine solutions at room temperature: a fast, economical route to ultralong microfibrils of assembled O-phenylenediamine dimers. <i>Langmuir</i> , 2007 , 23, 10441-4	4	49
31	Rapid self-assembly of oligo(o-phenylenediamine) into one-dimensional structures through a facile reprecipitation route. <i>Langmuir</i> , 2006 , 22, 3358-61	4	59
30	Pt nanoparticles: Heat treatment-based preparation and Ru(bpy) ₃ (²⁺)-mediated formation of aggregates that can form stable films on bare solid electrode surfaces for solid-state electrochemiluminescence detection. <i>Analytical Chemistry</i> , 2006 , 78, 6674-7	7.8	44
29	High-yield synthesis of large single-crystalline gold nanoplates through a polyamine process. <i>Langmuir</i> , 2005 , 21, 4710-2	4	161
28	Coordination-induced formation of submicrometer-scale, monodisperse, spherical colloids of organic-inorganic hybrid materials at room temperature. <i>Journal of the American Chemical Society</i> , 2005 , 127, 13102-3	16.4	269
27	Method for effective immobilization of Ru(bpy) ₃ (²⁺) on an electrode surface for solid-state electrochemiluminescence detection. <i>Analytical Chemistry</i> , 2005 , 77, 8166-9	7.8	126

26	One-step preparation of highly concentrated well-stable gold colloids by direct mix of polyelectrolyte and H ₂ AuCl ₄ aqueous solutions at room temperature. <i>Journal of Colloid and Interface Science</i> , 2005 , 288, 301-3	9.3	80
25	Formation of o-Phenylenediamine Oligomers and their Self-Assembly into One-Dimensional Structures in Aqueous Medium. <i>Macromolecular Rapid Communications</i> , 2005 , 26, 1504-1508	4.8	40
24	Rapid preparation and characterization of uniform, large, spherical Ag particles through a simple wet-chemical route. <i>Journal of Colloid and Interface Science</i> , 2005 , 290, 130-3	9.3	25
23	Large-scale synthesis of micrometer-scale single-crystalline Au plates of nanometer thickness by a wet-chemical route. <i>Angewandte Chemie - International Edition</i> , 2004 , 43, 6360-3	16.4	224
22	Large-Scale Synthesis of Micrometer-Scale Single-Crystalline Au Plates of Nanometer Thickness by a Wet-Chemical Route. <i>Angewandte Chemie</i> , 2004 , 116, 6520-6523	3.6	53
21	One-step synthesis and characterization of polyelectrolyte-protected gold nanoparticles through a thermal process. <i>Polymer</i> , 2004 , 45, 2181-2184	3.9	122
20	One-Step Preparation and Characterization of Poly(propyleneimine) Dendrimer-Protected Silver Nanoclusters. <i>Macromolecules</i> , 2004 , 37, 7105-7108	5.5	160
19	Large scale, templateless, surfactantless route to rapid synthesis of uniform poly(o-phenylenediamine) nanobelts. <i>Chemical Communications</i> , 2004 , 1182	5.8	108
18	One-Step Synthesis and Size Control of Dendrimer-Protected Gold Nanoparticles: A Heat-Treatment-Based Strategy. <i>Macromolecular Rapid Communications</i> , 2003 , 24, 1024-1028	4.8	127
17	Highly efficient two-electron electroreduction of oxygen into hydrogen peroxide over Cu-doped TiO ₂ . <i>Nano Research</i> , 1	10	3
16	Efficient nitric oxide electroreduction toward ambient ammonia synthesis catalyzed by a CoP nanoarray. <i>Inorganic Chemistry Frontiers</i> ,	6.8	7
15	In situ grown Fe ₃ O ₄ particle on stainless steel: A highly efficient electrocatalyst for nitrate reduction to ammonia. <i>Nano Research</i> , 1	10	17
14	Electrocatalysis enabled transformation of earth-abundant water, nitrogen and carbon dioxide for a sustainable future. <i>Materials Advances</i> ,	3.3	1
13	Ambient ammonia production via electrocatalytic nitrite reduction catalyzed by a CoP nanoarray. <i>Nano Research</i> , 1	10	30
12	CuS concave polyhedral superstructures enabled efficient N ₂ electroreduction to NH ₃ at ambient conditions. <i>Inorganic Chemistry Frontiers</i> ,	6.8	32
11	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> ,	13	9
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9	High-Performance Electrochemical NO Reduction into NH ₃ by MoS ₂ Nanosheet. <i>Angewandte Chemie</i> ,	3.6	8

8	In situ tailoring bimetallic organic framework-derived yolk-shell NiS ₂ /CuS hollow microspheres: an extraordinary kinetically pseudocapacitive nanoreactor for an effective sodium-ion storage anode. <i>Journal of Materials Chemistry A</i> ,	13	24
7	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> ,	6.8	60
6	A Ni-MOF nanosheet array for efficient oxygen evolution electrocatalysis in alkaline media. <i>Inorganic Chemistry Frontiers</i> ,	6.8	46
5	A hierarchical CuO@NiCo layered double hydroxide core-shell nanoarray as an efficient electrocatalyst for the oxygen evolution reaction. <i>Inorganic Chemistry Frontiers</i> ,	6.8	57
4	FeP nanorod array: A high-efficiency catalyst for electroreduction of NO to NH ₃ under ambient conditions. <i>Nano Research</i> ,1	10	4
3	Bi nanoparticles/carbon nanosheet composite: A high-efficiency electrocatalyst for NO reduction to NH ₃ . <i>Nano Research</i> ,1	10	3
2	Ni(OH) ₂ nanoparticles encapsulated in conductive nanowire array for high-performance alkaline seawater oxidation. <i>Nano Research</i> ,1	10	6
1	Conductive Two-Dimensional Magnesium Metal-Organic Frameworks for High-Efficiency O ₂ Electroreduction to H ₂ O ₂ . <i>ACS Catalysis</i> ,6092-6099	13.1	7