

# Xuping Sun

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/16423/xuping-sun-publications-by-citations.pdf>

**Version:** 2024-04-25

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	Self-supported nanoporous cobalt phosphide nanowire arrays: an efficient 3D hydrogen-evolving cathode over the wide range of pH 0-14. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 7587-90	16.4	1859
600	Recent Progress in Cobalt-Based Heterogeneous Catalysts for Electrochemical Water Splitting. <i>Advanced Materials</i> , <b>2016</b> , 28, 215-30	24	1708
599	Hydrothermal treatment of grass: a low-cost, green route to nitrogen-doped, carbon-rich, photoluminescent polymer nanodots as an effective fluorescent sensing platform for label-free detection of Cu(II) ions. <i>Advanced Materials</i> , <b>2012</b> , 24, 2037-41	24	1151
598	NiSe Nanowire Film Supported on Nickel Foam: An Efficient and Stable 3D Bifunctional Electrode for Full Water Splitting. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 9351-5	16.4	1100
597	Economical, green synthesis of fluorescent carbon nanoparticles and their use as probes for sensitive and selective detection of mercury(II) ions. <i>Analytical Chemistry</i> , <b>2012</b> , 84, 5351-7	7.8	842
596	Carbon nanotubes decorated with CoP nanocrystals: a highly active non-noble-metal nanohybrid electrocatalyst for hydrogen evolution. <i>Angewandte Chemie - International Edition</i> , <b>2014</b> , 53, 6710-4	16.4	809
595	A cost-effective 3D hydrogen evolution cathode with high catalytic activity: FeP nanowire array as the active phase. <i>Angewandte Chemie - International Edition</i> , <b>2014</b> , 53, 12855-9	16.4	736
594	Closely interconnected network of molybdenum phosphide nanoparticles: a highly efficient electrocatalyst for generating hydrogen from water. <i>Advanced Materials</i> , <b>2014</b> , 26, 5702-7	24	722
593	Self-supported Cu <sub>3</sub> P nanowire arrays as an integrated high-performance three-dimensional cathode for generating hydrogen from water. <i>Angewandte Chemie - International Edition</i> , <b>2014</b> , 53, 9577-81	16.4	720
592	Fe-Doped CoP Nanoarray: A Monolithic Multifunctional Catalyst for Highly Efficient Hydrogen Generation. <i>Advanced Materials</i> , <b>2017</b> , 29, 1602441	24	690
591	Ternary FeCoP Nanowire Array as a Robust Hydrogen Evolution Reaction Electrocatalyst with Pt-like Activity: Experimental and Theoretical Insight. <i>Nano Letters</i> , <b>2016</b> , 16, 6617-6621	11.5	531
590	Electrochemical Ammonia Synthesis via Nitrogen Reduction Reaction on a MoS Catalyst: Theoretical and Experimental Studies. <i>Advanced Materials</i> , <b>2018</b> , 30, e1800191	24	524
589	High-performance artificial nitrogen fixation at ambient conditions using a metal-free electrocatalyst. <i>Nature Communications</i> , <b>2018</b> , 9, 3485	17.4	469
588	Au-nanoparticle-loaded graphitic carbon nitride nanosheets: green photocatalytic synthesis and application toward the degradation of organic pollutants. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2013</b> , 5, 6815-9	9.5	445
587	Enhanced Electrocatalysis for Energy-Efficient Hydrogen Production over CoP Catalyst with Nonelectroactive Zn as a Promoter. <i>Advanced Energy Materials</i> , <b>2017</b> , 7, 1700020	21.8	428
586	Energy-Saving Electrolytic Hydrogen Generation: Ni P Nanoarray as a High-Performance Non-Noble-Metal Electrocatalyst. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 842-846	16.4	428
585	Ultrathin graphitic carbon nitride nanosheet: a highly efficient fluorosensor for rapid, ultrasensitive detection of Cu(2+). <i>Analytical Chemistry</i> , <b>2013</b> , 85, 5595-9	7.8	405

584	Boosted Electrocatalytic N <sub>2</sub> Reduction to NH <sub>3</sub> by Defect-Rich MoS <sub>2</sub> Nanoflower. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1801357	21.8	371
583	Phosphorus-Doped Co <sub>3</sub> O <sub>4</sub> Nanowire Array: A Highly Efficient Bifunctional Electrocatalyst for Overall Water Splitting. <i>ACS Catalysis</i> , <b>2018</b> , 8, 2236-2241	13.1	367
582	Mn Doping of CoP Nanosheets Array: An Efficient Electrocatalyst for Hydrogen Evolution Reaction with Enhanced Activity at All pH Values. <i>ACS Catalysis</i> , <b>2017</b> , 7, 98-102	13.1	362
581	Self-Supported FeP Nanorod Arrays: A Cost-Effective 3D Hydrogen Evolution Cathode with High Catalytic Activity. <i>ACS Catalysis</i> , <b>2014</b> , 4, 4065-4069	13.1	356
580	Stable Aqueous Dispersion of Graphene Nanosheets: Noncovalent Functionalization by a Polymeric Reducing Agent and Their Subsequent Decoration with Ag Nanoparticles for Enzymeless Hydrogen Peroxide Detection. <i>Macromolecules</i> , <b>2010</b> , 43, 10078-10083	5.5	345
579	NiP Nanosheet arrays supported on carbon cloth: an efficient 3D hydrogen evolution cathode in both acidic and alkaline solutions. <i>Nanoscale</i> , <b>2014</b> , 6, 13440-5	7.7	336
578	Self-Standing CoP Nanosheets Array: A Three-Dimensional Bifunctional Catalyst Electrode for Overall Water Splitting in both Neutral and Alkaline Media. <i>ChemElectroChem</i> , <b>2017</b> , 4, 1840-1845	4.3	322
577	Carbon Nanotubes Decorated with CoP Nanocrystals: A Highly Active Non-Noble-Metal Nanohybrid Electrocatalyst for Hydrogen Evolution. <i>Angewandte Chemie</i> , <b>2014</b> , 126, 6828-6832	3.6	320
576	NiCo <sub>2</sub> S <sub>4</sub> nanowires array as an efficient bifunctional electrocatalyst for full water splitting with superior activity. <i>Nanoscale</i> , <b>2015</b> , 7, 15122-6	7.7	319
575	High-Performance Electrolytic Oxygen Evolution in Neutral Media Catalyzed by a Cobalt Phosphate Nanoarray. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 1064-1068	16.4	305
574	NiSe Nanowire Film Supported on Nickel Foam: An Efficient and Stable 3D Bifunctional Electrode for Full Water Splitting. <i>Angewandte Chemie</i> , <b>2015</b> , 127, 9483-9487	3.6	304
573	Electrodeposited Co-doped NiSe <sub>2</sub> nanoparticles film: a good electrocatalyst for efficient water splitting. <i>Nanoscale</i> , <b>2016</b> , 8, 3911-5	7.7	299
572	An amorphous CoSe film behaves as an active and stable full water-splitting electrocatalyst under strongly alkaline conditions. <i>Chemical Communications</i> , <b>2015</b> , 51, 16683-6	5.8	296
571	Mo <sub>2</sub> C Nanoparticles Decorated Graphitic Carbon Sheets: Biopolymer-Derived Solid-State Synthesis and Application as an Efficient Electrocatalyst for Hydrogen Generation. <i>ACS Catalysis</i> , <b>2014</b> , 4, 2658-2664	13.1	295
570	Ultrathin graphitic carbon nitride nanosheets: a low-cost, green, and highly efficient electrocatalyst toward the reduction of hydrogen peroxide and its glucose biosensing application. <i>Nanoscale</i> , <b>2013</b> , 5, 8921-4	7.7	282
569	A method for the production of reduced graphene oxide using benzylamine as a reducing and stabilizing agent and its subsequent decoration with Ag nanoparticles for enzymeless hydrogen peroxide detection. <i>Carbon</i> , <b>2011</b> , 49, 3158-3164	10.4	279
568	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> , <b>2005</b> , 127, 13102-3	16.4	269
567	Ultrathin graphitic carbon nitride nanosheets: a novel peroxidase mimetic, Fe doping-mediated catalytic performance enhancement and application to rapid, highly sensitive optical detection of glucose. <i>Nanoscale</i> , <b>2013</b> , 5, 11604-9	7.7	268

566	A Zn-doped NiS nanosheet array as a high-performance electrochemical water oxidation catalyst in alkaline solution. <i>Chemical Communications</i> , <b>2017</b> , 53, 12446-12449	5.8	264
565	In Situ Derived Co <sub>2</sub> B Nanoarray: A High-Efficiency and Durable 3D Bifunctional Electrocatalyst for Overall Alkaline Water Splitting. <i>Small</i> , <b>2017</b> , 13, 1700805	11	257
564	A Fe-doped Ni <sub>3</sub> S <sub>2</sub> particle film as a high-efficiency robust oxygen evolution electrode with very high current density. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 23207-23212	13	256
563	Ambient N <sub>2</sub> fixation to NH <sub>3</sub> at ambient conditions: Using Nb <sub>2</sub> O <sub>5</sub> nanofiber as a high-performance electrocatalyst. <i>Nano Energy</i> , <b>2018</b> , 52, 264-270	17.1	256
562	CoP Nanosheet Arrays Supported on a Ti Plate: An Efficient Cathode for Electrochemical Hydrogen Evolution. <i>Chemistry of Materials</i> , <b>2014</b> , 26, 4326-4329	9.6	255
561	Ni <sub>2</sub> P nanoparticle films supported on a Ti plate as an efficient hydrogen evolution cathode. <i>Nanoscale</i> , <b>2014</b> , 6, 11031-4	7.7	255
560	Nucleic acid detection using carbon nanoparticles as a fluorescent sensing platform. <i>Chemical Communications</i> , <b>2011</b> , 47, 961-3	5.8	253
559	Greatly Improving Electrochemical N Reduction over TiO Nanoparticles by Iron Doping. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 18449-18453	16.4	250
558	One-pot green synthesis of Ag nanoparticles-graphene nanocomposites and their applications in SERS, H <sub>2</sub> O <sub>2</sub> , and glucose sensing. <i>RSC Advances</i> , <b>2012</b> , 2, 538-545	3.7	250
557	Biomolecule-assisted, environmentally friendly, one-pot synthesis of CuS/reduced graphene oxide nanocomposites with enhanced photocatalytic performance. <i>Langmuir</i> , <b>2012</b> , 28, 12893-900	4	246
556	Tungsten phosphide nanorod arrays directly grown on carbon cloth: a highly efficient and stable hydrogen evolution cathode at all pH values. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 21874-9	9.5	243
555	A Mn-doped NiP nanosheet array: an efficient and durable hydrogen evolution reaction electrocatalyst in alkaline media. <i>Chemical Communications</i> , <b>2017</b> , 53, 11048-11051	5.8	242
554	Co(OH) Nanoparticle-Encapsulating Conductive Nanowires Array: Room-Temperature Electrochemical Preparation for High-Performance Water Oxidation Electrocatalysis. <i>Advanced Materials</i> , <b>2018</b> , 30, 1705366	24	240
553	MoO <sub>3</sub> nanosheets for efficient electrocatalytic N <sub>2</sub> fixation to NH <sub>3</sub> . <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 12974-12977	13	227
552	Cobalt nitride nanowire array as an efficient electrochemical sensor for glucose and H <sub>2</sub> O <sub>2</sub> detection. <i>Sensors and Actuators B: Chemical</i> , <b>2018</b> , 255, 1254-1261	8.5	225
551	Large-scale synthesis of micrometer-scale single-crystalline Au plates of nanometer thickness by a wet-chemical route. <i>Angewandte Chemie - International Edition</i> , <b>2004</b> , 43, 6360-3	16.4	224
550	Electrochemical N fixation to NH under ambient conditions: MoN nanorod as a highly efficient and selective catalyst. <i>Chemical Communications</i> , <b>2018</b> , 54, 8474-8477	5.8	224
549	High-Performance N-to-NH Conversion Electrocatalyzed by MoC Nanorod. <i>ACS Central Science</i> , <b>2019</b> , 5, 116-121	16.8	223

548	High-Performance Electrohydrogenation of N <sub>2</sub> to NH <sub>3</sub> Catalyzed by Multishelled Hollow Cr <sub>2</sub> O <sub>3</sub> Microspheres under Ambient Conditions. <i>ACS Catalysis</i> , <b>2018</b> , 8, 8540-8544	13.1	218
547	In situ green synthesis of Au nanostructures on graphene oxide and their application for catalytic reduction of 4-nitrophenol. <i>Catalysis Science and Technology</i> , <b>2011</b> , 1, 1142	5.5	216
546	High-performance urea electrolysis towards less energy-intensive electrochemical hydrogen production using a bifunctional catalyst electrode. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 3208-3213	13	211
545	Co-Doped CuO Nanoarray: An Efficient Oxygen Evolution Reaction Electrocatalyst with Enhanced Activity. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 2883-2887	8.3	211
544	Three-dimensional porous supramolecular architecture from ultrathin g-C(3)N(4) nanosheets and reduced graphene oxide: solution self-assembly construction and application as a highly efficient metal-free electrocatalyst for oxygen reduction reaction. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 1011-7	9.5	210
543	Efficient Electrochemical Water Splitting Catalyzed by Electrodeposited Nickel Diselenide Nanoparticles Based Film. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 4718-23	9.5	207
542	CoP nanostructures with different morphologies: synthesis, characterization and a study of their electrocatalytic performance toward the hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 14634	13	205
541	Synthesis of functional SiO <sub>2</sub> -coated graphene oxide nanosheets decorated with Ag nanoparticles for H <sub>2</sub> O <sub>2</sub> and glucose detection. <i>Biosensors and Bioelectronics</i> , <b>2011</b> , 26, 4791-7	11.8	205
540	Design and Application of Foams for Electrocatalysis. <i>ChemCatChem</i> , <b>2017</b> , 9, 1721-1743	5.2	202
539	Al-Doped CoP nanoarray: a durable water-splitting electrocatalyst with superhigh activity. <i>Nanoscale</i> , <b>2017</b> , 9, 4793-4800	7.7	200
538	High-Efficiency Electrochemical Hydrogen Evolution Catalyzed by Tungsten Phosphide Submicroparticles. <i>ACS Catalysis</i> , <b>2015</b> , 5, 145-149	13.1	200
537	Ultrathin graphitic C <sub>3</sub> N <sub>4</sub> nanosheets/graphene composites: efficient organic electrocatalyst for oxygen evolution reaction. <i>ChemSusChem</i> , <b>2014</b> , 7, 2125-30	8.3	198
536	Cobalt phosphide nanowires: efficient nanostructures for fluorescence sensing of biomolecules and photocatalytic evolution of dihydrogen from water under visible light. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 5493-7	16.4	196
535	Ni <sub>3</sub> S <sub>2</sub> coated ZnO array for high-performance supercapacitors. <i>Journal of Power Sources</i> , <b>2014</b> , 245, 4638-467	11.7	191
534	Self-supported NiMo hollow nanorod array: an efficient 3D bifunctional catalytic electrode for overall water splitting. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 20056-20059	13	189
533	Ag nanosheets for efficient electrocatalytic N fixation to NH <sub>3</sub> under ambient conditions. <i>Chemical Communications</i> , <b>2018</b> , 54, 11427-11430	5.8	185
532	Microwave-assisted rapid green synthesis of photoluminescent carbon nanodots from flour and their applications for sensitive and selective detection of mercury(II) ions. <i>Sensors and Actuators B: Chemical</i> , <b>2013</b> , 184, 156-162	8.5	184
531	A porous Ni <sub>3</sub> N nanosheet array as a high-performance non-noble-metal catalyst for urea-assisted electrochemical hydrogen production. <i>Inorganic Chemistry Frontiers</i> , <b>2017</b> , 4, 1120-1124	6.8	183

530	Boron Nanosheet: An Elemental Two-Dimensional (2D) Material for Ambient Electrocatalytic N <sub>2</sub> -to-NH <sub>3</sub> Fixation in Neutral Media. <i>ACS Catalysis</i> , <b>2019</b> , 9, 4609-4615	13.1	180
529	A general strategy for the production of photoluminescent carbon nitride dots from organic amines and their application as novel peroxidase-like catalysts for colorimetric detection of H <sub>2</sub> O <sub>2</sub> and glucose. <i>RSC Advances</i> , <b>2012</b> , 2, 411-413	3.7	179
528	Fabrication of hierarchical CoP nanosheet@microwire arrays via space-confined phosphidation toward high-efficiency water oxidation electrocatalysis under alkaline conditions. <i>Nanoscale</i> , <b>2018</b> , 10, 7941-7945	7.7	178
527	MnO <sub>2</sub> -CoP <sub>3</sub> nanowires array: An efficient electrocatalyst for alkaline oxygen evolution reaction with enhanced activity. <i>Electrochemistry Communications</i> , <b>2018</b> , 86, 161-165	5.1	178
526	Electrodeposition of cobalt-sulfide nanosheets film as an efficient electrocatalyst for oxygen evolution reaction. <i>Electrochemistry Communications</i> , <b>2015</b> , 60, 92-96	5.1	177
525	Enabling Effective Electrocatalytic N Conversion to NH <sub>3</sub> by the TiO Nanosheets Array under Ambient Conditions. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 28251-28255	9.5	174
524	In situ formation of a 3D core/shell structured Ni <sub>3</sub> N@NiBi nanosheet array: an efficient non-noble-metal bifunctional electrocatalyst toward full water splitting under near-neutral conditions. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 7806-7810	13	172
523	P-Doped Ag Nanoparticles Embedded in N-Doped Carbon Nanoflake: An Efficient Electrocatalyst for the Hydrogen Evolution Reaction. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 4499-4503	8.3	172
522	Three-Dimensional Ni <sub>2</sub> P Nanoarray: An Efficient Catalyst Electrode for Sensitive and Selective Nonenzymatic Glucose Sensing with High Specificity. <i>Analytical Chemistry</i> , <b>2016</b> , 88, 7885-9	7.8	172
521	Hierarchical coral-like NiMoS nanohybrids as highly efficient bifunctional electrocatalysts for overall urea electrolysis. <i>Nano Research</i> , <b>2018</b> , 11, 988-996	10	172
520	Identifying the Origin of Ti Activity toward Enhanced Electrocatalytic N Reduction over TiO Nanoparticles Modulated by Mixed-Valent Copper. <i>Advanced Materials</i> , <b>2020</b> , 32, e2000299	24	171
519	Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> (T = F, OH) MXene nanosheets: conductive 2D catalysts for ambient electrohydrogenation of N <sub>2</sub> to NH <sub>3</sub> . <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 24031-24035	13	169
518	Iron-based phosphides as electrocatalysts for the hydrogen evolution reaction: recent advances and future prospects. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 19729-19745	13	166
517	A self-standing nanoporous MoP <sub>2</sub> nanosheet array: an advanced pH-universal catalytic electrode for the hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 7169-7173	13	165
516	Fe-Doped NiP Nanosheet Array for High-Efficiency Electrochemical Water Oxidation. <i>Inorganic Chemistry</i> , <b>2017</b> , 56, 1041-1044	5.1	164
515	Efficient Electrochemical N <sub>2</sub> Reduction to NH <sub>3</sub> on MoN Nanosheets Array under Ambient Conditions. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 9550-9554	8.3	164
514	Activated carbon nanotubes: a highly-active metal-free electrocatalyst for hydrogen evolution reaction. <i>Chemical Communications</i> , <b>2014</b> , 50, 9340-2	5.8	163
513	Preparation of photoluminescent carbon nitride dots from CCl <sub>4</sub> and 1,2-ethylenediamine: a heat-treatment-based strategy. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 11726		163

512	An ultrafine platinum-cobalt alloy decorated cobalt nanowire array with superb activity toward alkaline hydrogen evolution. <i>Nanoscale</i> , <b>2018</b> , 10, 12302-12307	7.7	162
511	NiS <sub>2</sub> nanosheets array grown on carbon cloth as an efficient 3D hydrogen evolution cathode. <i>Electrochimica Acta</i> , <b>2015</b> , 153, 508-514	6.7	161
510	High-yield synthesis of large single-crystalline gold nanoplates through a polyamine process. <i>Langmuir</i> , <b>2005</b> , 21, 4710-2	4	161
509	CoSe <sub>2</sub> nanowires array as a 3D electrode for highly efficient electrochemical hydrogen evolution. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 3877-81	9.5	160
508	One-Step Preparation and Characterization of Poly(propyleneimine) Dendrimer-Protected Silver Nanoclusters. <i>Macromolecules</i> , <b>2004</b> , 37, 7105-7108	5.5	160
507	Self-assembled graphene platelet-glucose oxidase nanostructures for glucose biosensing. <i>Biosensors and Bioelectronics</i> , <b>2011</b> , 26, 4491-6	11.8	158
506	Aqueous electrocatalytic N <sub>2</sub> reduction for ambient NH <sub>3</sub> synthesis: recent advances in catalyst development and performance improvement. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 1545-1556	13	158
505	Synthesis of Au nanoparticles decorated graphene oxide nanosheets: noncovalent functionalization by TWEEN 20 in situ reduction of aqueous chloroaurate ions for hydrazine detection and catalytic reduction of 4-nitrophenol. <i>Journal of Hazardous Materials</i> , <b>2011</b> , 197, 320-6	12.8	157
504	Environmentally friendly, one-pot synthesis of Ag nanoparticle-decorated reduced graphene oxide composites and their application to photocurrent generation. <i>Inorganic Chemistry</i> , <b>2012</b> , 51, 4742-6	5.1	155
503	Recent Advances in the Development of Water Oxidation Electrocatalysts at Mild pH. <i>Small</i> , <b>2019</b> , 15, e1805103	11	153
502	Ag nanoparticles decorated polyaniline nanofibers: synthesis, characterization, and applications toward catalytic reduction of 4-nitrophenol and electrochemical detection of H <sub>2</sub> O <sub>2</sub> and glucose. <i>Catalysis Science and Technology</i> , <b>2012</b> , 2, 800	5.5	153
501	Selective phosphidation: an effective strategy toward CoP/CeO <sub>2</sub> interface engineering for superior alkaline hydrogen evolution electrocatalysis. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 1985-1990	13	151
500	Co-MOF nanosheet array: A high-performance electrochemical sensor for non-enzymatic glucose detection. <i>Sensors and Actuators B: Chemical</i> , <b>2019</b> , 278, 126-132	8.5	151
499	Green, low-cost synthesis of photoluminescent carbon dots by hydrothermal treatment of willow bark and their application as an effective photocatalyst for fabricating Au nanoparticles/reduced graphene oxide nanocomposites for glucose detection. <i>Catalysis Science and Technology</i> , <b>2013</b> , 3, 1027	5.5	150
498	FeP nanoparticles film grown on carbon cloth: an ultrahighly active 3D hydrogen evolution cathode in both acidic and neutral solutions. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 20579-84	9.5	150
497	One-pot synthesis of CuO nanoflower-decorated reduced graphene oxide and its application to photocatalytic degradation of dyes. <i>Catalysis Science and Technology</i> , <b>2012</b> , 2, 339-344	5.5	146
496	An amorphous Co-carbonate-hydroxide nanowire array for efficient and durable oxygen evolution reaction in carbonate electrolytes. <i>Nanoscale</i> , <b>2017</b> , 9, 16612-16615	7.7	145
495	Highly-active oxygen evolution electrocatalyzed by an Fe-doped NiCrO nanoparticle film. <i>Chemical Communications</i> , <b>2018</b> , 54, 5462-5465	5.8	142

494	Ambient N fixation to NH electrocatalyzed by a spinel FeO nanorod. <i>Nanoscale</i> , <b>2018</b> , 10, 14386-14389	7.7	142
493	Carbon nanoparticle for highly sensitive and selective fluorescent detection of mercury(II) ion in aqueous solution. <i>Biosensors and Bioelectronics</i> , <b>2011</b> , 26, 4656-60	11.8	142
492	A Cost-Effective 3D Hydrogen Evolution Cathode with High Catalytic Activity: FeP Nanowire Array as the Active Phase. <i>Angewandte Chemie</i> , <b>2014</b> , 126, 13069-13073	3.6	141
491	Ni <sub>3</sub> S <sub>2</sub> nanosheets array supported on Ni foam: A novel efficient three-dimensional hydrogen-evolving electrocatalyst in both neutral and basic solutions. <i>International Journal of Hydrogen Energy</i> , <b>2015</b> , 40, 4727-4732	6.7	140
490	Self-supported CoP nanosheet arrays: a non-precious metal catalyst for efficient hydrogen generation from alkaline NaBH <sub>4</sub> solution. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 13053-13057	13	139
489	Self-Supported Cu <sub>3</sub> P Nanowire Arrays as an Integrated High-Performance Three-Dimensional Cathode for Generating Hydrogen from Water. <i>Angewandte Chemie</i> , <b>2014</b> , 126, 9731-9735	3.6	138
488	Synthesis of porous tubular C/MoS <sub>2</sub> nanocomposites and their application as a novel electrode material for supercapacitors with excellent cycling stability. <i>Electrochimica Acta</i> , <b>2013</b> , 100, 24-28	6.7	137
487	Iron-doped nickel disulfide nanoarray: A highly efficient and stable electrocatalyst for water splitting. <i>Nano Research</i> , <b>2016</b> , 9, 3346-3354	10	135
486	S-Doped Carbon Nanospheres: An Efficient Electrocatalyst toward Artificial N <sub>2</sub> Fixation to NH <sub>3</sub> . <i>Small Methods</i> , <b>2019</b> , 3, 1800251	12.8	135
485	Ni foam: a novel three-dimensional porous sensing platform for sensitive and selective nonenzymatic glucose detection. <i>Analyst, The</i> , <b>2013</b> , 138, 417-20	5	134
484	In Situ Growth of NiSe Nanowire Film on Nickel Foam as an Electrode for High-Performance Supercapacitors. <i>ChemElectroChem</i> , <b>2015</b> , 2, 1903-1907	4.3	132
483	Sulfur-doped graphene for efficient electrocatalytic N-to-NH fixation. <i>Chemical Communications</i> , <b>2019</b> , 55, 3371-3374	5.8	131
482	Enhanced electrooxidation of urea using NiMoO <sub>4</sub> ·xH <sub>2</sub> O nanosheet arrays on Ni foam as anode. <i>Electrochimica Acta</i> , <b>2015</b> , 153, 456-460	6.7	130
481	3D macroporous MoS <sub>2</sub> thin film: in situ hydrothermal preparation and application as a highly active hydrogen evolution electrocatalyst at all pH values. <i>Electrochimica Acta</i> , <b>2015</b> , 168, 133-138	6.7	128
480	High-Efficiency Electrosynthesis of Ammonia with High Selectivity under Ambient Conditions Enabled by VN Nanosheet Array. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 9545-9549	8.3	127
479	TiO <sub>2</sub> nanoparticles-reduced graphene oxide hybrid: an efficient and durable electrocatalyst toward artificial N <sub>2</sub> fixation to NH <sub>3</sub> under ambient conditions. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 17303-17306	13	127
478	Surface plasmon resonance-induced visible light photocatalytic reduction of graphene oxide: using Ag nanoparticles as a plasmonic photocatalyst. <i>Nanoscale</i> , <b>2011</b> , 3, 2142-4	7.7	127
477	Hydrothermal synthesis of well-stable silver nanoparticles and their application for enzymeless hydrogen peroxide detection. <i>Electrochimica Acta</i> , <b>2011</b> , 56, 2295-2298	6.7	127



476	One-Step Synthesis and Size Control of Dendrimer-Protected Gold Nanoparticles: A Heat-Treatment-Based Strategy. <i>Macromolecular Rapid Communications</i> , <b>2003</b> , 24, 1024-1028	4.8	127
475	Acidically oxidized carbon cloth: a novel metal-free oxygen evolution electrode with high catalytic activity. <i>Chemical Communications</i> , <b>2015</b> , 51, 1616-9	5.8	126
474	Method for effective immobilization of Ru(bpy)(3)2+ on an electrode surface for solid-state electrochemiluminescence detection. <i>Analytical Chemistry</i> , <b>2005</b> , 77, 8166-9	7.8	126
473	Nickel promoted cobalt disulfide nanowire array supported on carbon cloth: An efficient and stable bifunctional electrocatalyst for full water splitting. <i>Electrochemistry Communications</i> , <b>2016</b> , 63, 60-64	5.1	125
472	Template-assisted synthesis of CoP nanotubes to efficiently catalyze hydrogen-evolving reaction. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 14812-14816	13	125
471	Biomolecule-assisted synthesis of nickel sulfides/reduced graphene oxide nanocomposites as electrode materials for supercapacitors. <i>Electrochemistry Communications</i> , <b>2013</b> , 32, 9-13	5.1	125
470	Nanoporous CoP3 Nanowire Array: Acid Etching Preparation and Application as a Highly Active Electrocatalyst for the Hydrogen Evolution Reaction in Alkaline Solution. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 11186-11189	8.3	122
469	One-step synthesis and characterization of polyelectrolyte-protected gold nanoparticles through a thermal process. <i>Polymer</i> , <b>2004</b> , 45, 2181-2184	3.9	122
468	Integrating natural biomass electro-oxidation and hydrogen evolution: using a porous Fe-doped CoP nanosheet array as a bifunctional catalyst. <i>Chemical Communications</i> , <b>2017</b> , 53, 5710-5713	5.8	121
467	A Ni(OH)2/BtO2 hybrid nanosheet array with ultralow Pt loading toward efficient and durable alkaline hydrogen evolution. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 1967-1970	13	119
466	Greatly Enhanced Electrocatalytic N2 Reduction on TiO2 via V Doping. <i>Small Methods</i> , <b>2019</b> , 3, 1900356	12.8	117
465	Ni3Se2 film as a non-precious metal bifunctional electrocatalyst for efficient water splitting. <i>Catalysis Science and Technology</i> , <b>2015</b> , 5, 4954-4958	5.5	117
464	Ni3N@Ni-Ci nanoarray as a highly active and durable non-noble-metal electrocatalyst for water oxidation at near-neutral pH. <i>Journal of Catalysis</i> , <b>2017</b> , 356, 165-172	7.3	117
463	Energy-Saving Electrolytic Hydrogen Generation: Ni2P Nanoarray as a High-Performance Non-Noble-Metal Electrocatalyst. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 860-864	3.6	116
462	Ambient NH synthesis via electrochemical reduction of N over cubic sub-micron SnO particles. <i>Chemical Communications</i> , <b>2018</b> , 54, 12966-12969	5.8	115
461	Copper-Nitride Nanowires Array: An Efficient Dual-Functional Catalyst Electrode for Sensitive and Selective Non-Enzymatic Glucose and Hydrogen Peroxide Sensing. <i>Chemistry - A European Journal</i> , <b>2017</b> , 23, 4986-4989	4.8	114
460	Three-Dimensional Structures of MoS2@Ni Core/Shell Nanosheets Array toward Synergetic Electrocatalytic Water Splitting. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 14521-6	9.5	114
459	Efficient and durable N reduction electrocatalysis under ambient conditions: FeOOH nanorods as a non-noble-metal catalyst. <i>Chemical Communications</i> , <b>2018</b> , 54, 11332-11335	5.8	113

458	Ultrathin CoFe-Borate Layer Coated CoFe-Layered Double Hydroxide Nanosheets Array: A Non-Noble-Metal 3D Catalyst Electrode for Efficient and Durable Water Oxidation in Potassium Borate. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 1527-1531	8.3	112
457	Cu(OH) @CoCO (OH) $\Gamma$ H O Core-Shell Heterostructure Nanowire Array: An Efficient 3D Anodic Catalyst for Oxygen Evolution and Methanol Electrooxidation. <i>Small</i> , <b>2017</b> , 13, 1602755	11	110
456	A self-supported hierarchical Co-MOF as a supercapacitor electrode with ultrahigh areal capacitance and excellent rate performance. <i>Chemical Communications</i> , <b>2018</b> , 54, 10499-10502	5.8	110
455	An amorphous FeMoS nanorod array toward efficient hydrogen evolution electrocatalysis under neutral conditions. <i>Chemical Communications</i> , <b>2017</b> , 53, 9000-9003	5.8	108
454	Large scale, templateless, surfactantless route to rapid synthesis of uniform poly(o-phenylenediamine) nanobelts. <i>Chemical Communications</i> , <b>2004</b> , 1182	5.8	108
453	A hierarchical CoTe-MnTe hybrid nanowire array enables high activity for oxygen evolution reactions. <i>Chemical Communications</i> , <b>2018</b> , 54, 10993-10996	5.8	108
452	Highly-active oxygen evolution electrocatalyzed by a Fe-doped NiSe nanoflake array electrode. <i>Chemical Communications</i> , <b>2016</b> , 52, 4529-32	5.8	105
451	Recent progress in the electrochemical ammonia synthesis under ambient conditions. <i>EnergyChem</i> , <b>2019</b> , 1, 100011	36.9	105
450	Fe N-Co N Nanowires Array: A Non-Noble-Metal Bifunctional Catalyst Electrode for High-Performance Glucose Oxidation and H O Reduction toward Non-Enzymatic Sensing Applications. <i>Chemistry - A European Journal</i> , <b>2017</b> , 23, 5214-5218	4.8	103
449	An Fe(TCNQ) nanowire array on Fe foil: an efficient non-noble-metal catalyst for the oxygen evolution reaction in alkaline media. <i>Chemical Communications</i> , <b>2018</b> , 54, 2300-2303	5.8	102
448	Fabrication of Ni(OH) <sub>2</sub> nanoflakes array on Ni foam as a binder-free electrode material for high performance supercapacitors. <i>Electrochimica Acta</i> , <b>2013</b> , 107, 339-342	6.7	102
447	NiCoP Nanoarray: A Superior Pseudocapacitor Electrode with High Areal Capacitance. <i>Chemistry - A European Journal</i> , <b>2017</b> , 23, 4435-4441	4.8	101
446	Aniline as a dispersing and stabilizing agent for reduced graphene oxide and its subsequent decoration with Ag nanoparticles for enzymeless hydrogen peroxide detection. <i>Journal of Colloid and Interface Science</i> , <b>2011</b> , 363, 615-9	9.3	101
445	Boron Phosphide Nanoparticles: A Nonmetal Catalyst for High-Selectivity Electrochemical Reduction of CO to CH OH. <i>Advanced Materials</i> , <b>2019</b> , 31, e1903499	24	100
444	Mn O Nanocube: An Efficient Electrocatalyst Toward Artificial N Fixation to NH. <i>Small</i> , <b>2018</b> , 14, e1803111	11	100
443	Tungsten nitride nanorods array grown on carbon cloth as an efficient hydrogen evolution cathode at all pH values. <i>Electrochimica Acta</i> , <b>2015</b> , 154, 345-351	6.7	98
442	Ultrarapid in Situ Synthesis of Cu <sub>2</sub> S Nanosheet Arrays on Copper Foam with Room-Temperature-Active Iodine Plasma for Efficient and Cost-Effective Oxygen Evolution. <i>ACS Catalysis</i> , <b>2018</b> , 8, 3859-3864	13.1	97
441	Full Water Splitting Electrocatalyzed by NiWO <sub>4</sub> Nanowire Array. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 9555-9559	8.3	96

440	Insights into defective TiO in electrocatalytic N reduction: combining theoretical and experimental studies. <i>Nanoscale</i> , <b>2019</b> , 11, 1555-1562	7.7	95
439	Graphitic carbon nitride nanosheets: one-step, high-yield synthesis and application for Cu <sup>2+</sup> detection. <i>Analyst, The</i> , <b>2014</b> , 139, 5065-8	5	95
438	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> , <b>2020</b> , 4, 3884-3887	5.8	94
437	A self-supported NiMoS <sub>4</sub> nanoarray as an efficient 3D cathode for the alkaline hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 16585-16589	13	94
436	Boron-Doped TiO <sub>2</sub> for Efficient Electrocatalytic N <sub>2</sub> Fixation to NH <sub>3</sub> at Ambient Conditions. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 117-122	8.3	94
435	Fe -Doped Two-Dimensional C N Nanofusiform: A New O <sup>-</sup> -Evolving and Mitochondria-Targeting Photodynamic Agent for MRI and Enhanced Antitumor Therapy. <i>Small</i> , <b>2016</b> , 12, 5477-5487	11	92
434	Interconnected urchin-like cobalt phosphide microspheres film for highly efficient electrochemical hydrogen evolution in both acidic and basic media. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 10114-10117	13	92
433	Ag@poly(m-phenylenediamine) core-shell nanoparticles for highly selective, multiplex nucleic acid detection. <i>Langmuir</i> , <b>2011</b> , 27, 2170-5	4	92
432	Electrocatalytic Hydrogenation of N to NH by MnO: Experimental and Theoretical Investigations. <i>Advanced Science</i> , <b>2019</b> , 6, 1801182	13.6	92
431	Enhanced Photoelectrochemical Water Oxidation Performance of Fe <sub>2</sub> O <sub>3</sub> Nanorods Array by S Doping. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2017</b> , 5, 7502-7506	8.3	91
430	Novel application of CoFe layered double hydroxide nanoplates for colorimetric detection of H <sub>2</sub> O <sub>2</sub> and glucose. <i>Analyst, The</i> , <b>2012</b> , 137, 1325-8	5	91
429	Supramolecular microfibrils of o-phenylenediamine dimers: oxidation-induced morphology change and the spontaneous formation of Ag nanoparticle decorated nanofibers. <i>Langmuir</i> , <b>2010</b> , 26, 15112-6	4	91
428	WS <sub>2</sub> nanoparticles encapsulated amorphous carbon tubes: A novel electrode material for supercapacitors with a high rate capability. <i>Electrochemistry Communications</i> , <b>2013</b> , 28, 75-78	5.1	90
427	Conjugation polymer nanobelts: a novel fluorescent sensing platform for nucleic acid detection. <i>Nucleic Acids Research</i> , <b>2011</b> , 39, e37	20.1	89
426	Hexagonal boron nitride nanosheet for effective ambient N <sub>2</sub> fixation to NH <sub>3</sub> . <i>Nano Research</i> , <b>2019</b> , 12, 919-924	10	88
425	Microwave-assisted rapid synthesis of Ag nanoparticles/graphene nanosheet composites and their application for hydrogen peroxide detection. <i>Journal of Nanoparticle Research</i> , <b>2011</b> , 13, 4539-4548	2.3	88
424	One-step electrodeposition of NiCo nanosheets film as a bifunctional electrocatalyst for efficient water splitting. <i>International Journal of Hydrogen Energy</i> , <b>2016</b> , 41, 7264-7269	6.7	88
423	Sulfur dots-graphene nano hybrid: a metal-free electrocatalyst for efficient N-to-NH fixation under ambient conditions. <i>Chemical Communications</i> , <b>2019</b> , 55, 3152-3155	5.8	88

422	Defect-rich fluorographene nanosheets for artificial N fixation under ambient conditions. <i>Chemical Communications</i> , <b>2019</b> , 55, 4266-4269	5.8	87
421	Self-supported nickel nitride as an efficient high-performance three-dimensional cathode for the alkaline hydrogen evolution reaction. <i>Electrochimica Acta</i> , <b>2016</b> , 191, 841-845	6.7	87
420	Nano-C(60) : a novel, effective, fluorescent sensing platform for biomolecular detection. <i>Small</i> , <b>2011</b> , 7, 1562-8	11	87
419	Luminescent supramolecular microstructures containing Ru(bpy) <sub>3</sub> (2+): solution-based self-assembly preparation and solid-state electrochemiluminescence detection application. <i>Analytical Chemistry</i> , <b>2007</b> , 79, 2588-92	7.8	87
418	An ultrasmall Ru <sub>2</sub> P nanoparticles/reduced graphene oxide hybrid: an efficient electrocatalyst for NH <sub>3</sub> synthesis under ambient conditions. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 77-81	13	87
417	Boosting electrocatalytic N reduction to NH on FeOOH by fluorine doping. <i>Chemical Communications</i> , <b>2019</b> , 55, 3987-3990	5.8	86
416	Cu/(Cu(OH) <sub>2</sub> -CuO) core/shell nanorods array: in-situ growth and application as an efficient 3D oxygen evolution anode. <i>Electrochimica Acta</i> , <b>2015</b> , 163, 102-106	6.7	86
415	Metallic nickel nitride nanosheet: An efficient catalyst electrode for sensitive and selective non-enzymatic glucose sensing. <i>Sensors and Actuators B: Chemical</i> , <b>2018</b> , 255, 2794-2799	8.5	86
414	A practical-oriented NiFe-based water-oxidation catalyst enabled by ambient redox and hydrolysis co-precipitation strategy. <i>Applied Catalysis B: Environmental</i> , <b>2019</b> , 244, 844-852	21.8	86
413	Recent Advances in 1D Electrospun Nanocatalysts for Electrochemical Water Splitting. <i>Small Structures</i> , <b>2021</b> , 2, 2000048	8.7	86
412	Energy-efficient electrolytic hydrogen generation using a Cu <sub>3</sub> P nanoarray as a bifunctional catalyst for hydrazine oxidation and water reduction. <i>Inorganic Chemistry Frontiers</i> , <b>2017</b> , 4, 420-423	6.8	84
411	Bimetallic Nickel-Substituted Cobalt-Borate Nanowire Array: An Earth-Abundant Water Oxidation Electrocatalyst with Superior Activity and Durability at Near Neutral pH. <i>Small</i> , <b>2017</b> , 13, 1700394	11	84
410	Ambient electrohydrogenation of N <sub>2</sub> for NH <sub>3</sub> synthesis on non-metal boron phosphide nanoparticles: the critical role of P in boosting the catalytic activity. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 16117-16121	13	84
409	Electrocatalytic N-to-NH conversion with high faradaic efficiency enabled using a Bi nanosheet array. <i>Chemical Communications</i> , <b>2019</b> , 55, 5263-5266	5.8	84
408	Interface engineering of a CeO-CuP nanoarray for efficient alkaline hydrogen evolution. <i>Nanoscale</i> , <b>2018</b> , 10, 2213-2217	7.7	84
407	High-performance water oxidation electrocatalysis enabled by a Ni-MOF nanosheet array. <i>Inorganic Chemistry Frontiers</i> , <b>2018</b> , 5, 1570-1574	6.8	84
406	Ternary NiCoP nanosheet array on a Ti mesh: a high-performance electrochemical sensor for glucose detection. <i>Chemical Communications</i> , <b>2016</b> , 52, 14438-14441	5.8	84
405	Iron-group electrocatalysts for ambient nitrogen reduction reaction in aqueous media. <i>Nano Research</i> , <b>2021</b> , 14, 555-569	10	84

404	Cobalt phosphide nanowire array as an effective electrocatalyst for non-enzymatic glucose sensing. <i>Journal of Materials Chemistry B</i> , <b>2017</b> , 5, 1901-1904	7.3	83
403	Boosting electrocatalytic N reduction by MnO with oxygen vacancies. <i>Chemical Communications</i> , <b>2019</b> , 55, 4627-4630	5.8	83
402	Zn <sub>0.76</sub> Co <sub>0.24</sub> S/CoS <sub>2</sub> nanowires array for efficient electrochemical splitting of water. <i>Electrochimica Acta</i> , <b>2016</b> , 190, 360-364	6.7	83
401	A Ni(OH)-CoS hybrid nanowire array: a superior non-noble-metal catalyst toward the hydrogen evolution reaction in alkaline media. <i>Nanoscale</i> , <b>2017</b> , 9, 16632-16637	7.7	82
400	In Situ Electrochemically Activated CoMn-S@NiO/CC Nanosheets Array for Enhanced Hydrogen Evolution. <i>ACS Catalysis</i> , <b>2016</b> , 6, 2797-2801	13.1	82
399	Multi-walled carbon nanotubes as an effective fluorescent sensing platform for nucleic acid detection. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 824-828		82
398	Ni <sub>2</sub> P nanosheets array as a novel electrochemical catalyst electrode for non-enzymatic H <sub>2</sub> O <sub>2</sub> sensing. <i>Electrochimica Acta</i> , <b>2017</b> , 253, 517-521	6.7	81
397	Preparation of Ag nanoparticle-decorated poly(m-phenylenediamine) microparticles and their application for hydrogen peroxide detection. <i>Analyst, The</i> , <b>2011</b> , 136, 1806-9	5	81
396	Improving the electrocatalytic N <sub>2</sub> reduction activity of Pd nanoparticles through surface modification. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 21674-21677	13	80
395	One-step preparation of highly concentrated well-stable gold colloids by direct mix of polyelectrolyte and HAuCl <sub>4</sub> aqueous solutions at room temperature. <i>Journal of Colloid and Interface Science</i> , <b>2005</b> , 288, 301-3	9.3	80
394	CrO Nanoparticle-Reduced Graphene Oxide Hybrid: A Highly Active Electrocatalyst for N Reduction at Ambient Conditions. <i>Inorganic Chemistry</i> , <b>2019</b> , 58, 2257-2260	5.1	79
393	Lewis acid/base approach for efficacious defect passivation in perovskite solar cells. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 12201-12225	13	79
392	Recent advances in electrospun nanofibers for supercapacitors. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 16747-16789	13	79
391	Cobalt phosphide nanoparticles film growth on carbon cloth: A high-performance cathode for electrochemical hydrogen evolution. <i>International Journal of Hydrogen Energy</i> , <b>2014</b> , 39, 16806-16811	6.7	79
390	High-yield, large-scale production of few-layer graphene flakes within seconds: using chlorosulfonic acid and H <sub>2</sub> O <sub>2</sub> as exfoliating agents. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 8775		79
389	Electrochemical non-enzymatic glucose sensors: recent progress and perspectives. <i>Chemical Communications</i> , <b>2020</b> , 56, 14553-14569	5.8	79
388	A simple route for preparation of highly stable CuO nanoparticles for nonenzymatic glucose detection. <i>Catalysis Science and Technology</i> , <b>2012</b> , 2, 813	5.5	77
387	One-step synthesis of Ag nanoparticles-decorated reduced graphene oxide and their application for H <sub>2</sub> O <sub>2</sub> detection. <i>Electrochimica Acta</i> , <b>2012</b> , 79, 46-51	6.7	77

386	A new preparation of Au nanoplates and their application for glucose sensing. <i>Biosensors and Bioelectronics</i> , <b>2011</b> , 28, 344-8	11.8	77
385	Hierarchical CuCoS nanoarrays for high-efficient and durable water oxidation electrocatalysis. <i>Chemical Communications</i> , <b>2017</b> , 54, 78-81	5.8	77
384	N-Doped carbon dots: a metal-free co-catalyst on hematite nanorod arrays toward efficient photoelectrochemical water oxidation. <i>Inorganic Chemistry Frontiers</i> , <b>2017</b> , 4, 537-540	6.8	76
383	A Ni <sub>2</sub> P nanosheet array integrated on 3D Ni foam: an efficient, robust and reusable monolithic catalyst for the hydrolytic dehydrogenation of ammonia borane toward on-demand hydrogen generation. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 12407-12410	13	76
382	FeP nanorod arrays on carbon cloth: a high-performance anode for sodium-ion batteries. <i>Chemical Communications</i> , <b>2018</b> , 54, 9341-9344	5.8	76
381	Graphene film-confined molybdenum sulfide nanoparticles: Facile one-step electrodeposition preparation and application as a highly active hydrogen evolution reaction electrocatalyst. <i>Journal of Power Sources</i> , <b>2014</b> , 263, 181-185	8.9	76
380	Honeycomb Carbon Nanofibers: A Superhydrophilic O <sup>-</sup> -Entrapping Electrocatalyst Enables Ultrahigh Mass Activity for the Two-Electron Oxygen Reduction Reaction. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 10583-10587	16.4	76
379	Interface engineering of the Ni(OH) <sub>2</sub> /Ni <sub>3</sub> N nanoarray heterostructure for the alkaline hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 833-836	13	76
378	CoP nanoarray: a robust non-noble-metal hydrogen-generating catalyst toward effective hydrolysis of ammonia borane. <i>Inorganic Chemistry Frontiers</i> , <b>2017</b> , 4, 659-662	6.8	75
377	In situ electrochemical surface derivation of cobalt phosphate from a Co(CO)(OH) <sub>2</sub> ·11H <sub>2</sub> O nanoarray for efficient water oxidation in neutral aqueous solution. <i>Nanoscale</i> , <b>2017</b> , 9, 3752-3756	7.7	75
376	Three-dimensional interconnected network of nanoporous CoP nanowires as an efficient hydrogen evolution cathode. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 16909-13	3.6	75
375	Two-dimensional hybrid mesoporous Fe <sub>2</sub> O <sub>3</sub> -graphene nanostructures: a highly active and reusable peroxidase mimetic toward rapid, highly sensitive optical detection of glucose. <i>Biosensors and Bioelectronics</i> , <b>2014</b> , 52, 452-7	11.8	75
374	In situ electrochemical development of copper oxide nanocatalysts within a TCNQ nanowire array: a highly conductive electrocatalyst for the oxygen evolution reaction. <i>Chemical Communications</i> , <b>2018</b> , 54, 1425-1428	5.8	75
373	CoS <sub>2</sub> nanoneedle array on Ti mesh: A stable and efficient bifunctional electrocatalyst for urea-assisted electrolytic hydrogen production. <i>Electrochimica Acta</i> , <b>2017</b> , 246, 776-782	6.7	73
372	An Fe-MOF nanosheet array with superior activity towards the alkaline oxygen evolution reaction. <i>Inorganic Chemistry Frontiers</i> , <b>2018</b> , 5, 1405-1408	6.8	73
371	Amorphous Ni-B alloy nanoparticle film on Ni foam: rapid alternately dipping deposition for efficient overall water splitting. <i>Nanotechnology</i> , <b>2016</b> , 27, 12LT01	3.4	73
370	An MnO <sub>2</sub> /Ni <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXene nanohybrid: an efficient and durable electrocatalyst toward artificial N <sub>2</sub> fixation to NH <sub>3</sub> under ambient conditions. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 18823-18827	13	73
369	Nitrogen-doped carbon nanotube supported iron phosphide nanocomposites for highly active electrocatalysis of the hydrogen evolution reaction. <i>Electrochimica Acta</i> , <b>2014</b> , 149, 324-329	6.7	73

368	Polyaniline nanofibres for fluorescent nucleic acid detection. <i>Nanoscale</i> , <b>2011</b> , 3, 967-9	7.7	73
367	Preparation of Ag nanoparticle-decorated polypyrrole colloids and their application for H <sub>2</sub> O <sub>2</sub> detection. <i>Electrochemistry Communications</i> , <b>2011</b> , 13, 785-787	5.1	73
366	Highly Selective Electrochemical Reduction of CO to Alcohols on an FeP Nanoarray. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 758-762	16.4	73
365	Spinel LiMnO Nanofiber: An Efficient Electrocatalyst for N Reduction to NH under Ambient Conditions. <i>Inorganic Chemistry</i> , <b>2019</b> , 58, 9597-9601	5.1	72
364	Photocatalytic synthesis of highly dispersed Pd nanoparticles on reduced graphene oxide and their application in methanol electro-oxidation. <i>Catalysis Science and Technology</i> , <b>2012</b> , 2, 1153	5.5	71
363	Acid-driven, microwave-assisted production of photoluminescent carbon nitride dots from N,N-dimethylformamide. <i>RSC Advances</i> , <b>2011</b> , 1, 951	3.7	71
362	Emerging alkali metal ion (Li <sup>+</sup> , Na <sup>+</sup> , K <sup>+</sup> and Rb <sup>+</sup> ) doped perovskite films for efficient solar cells: recent advances and prospects. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 24150-24163	13	71
361	Enhancing Electrocatalytic N <sub>2</sub> Reduction to NH <sub>3</sub> by CeO <sub>2</sub> Nanorod with Oxygen Vacancies. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 2889-2893	8.3	71
360	Rapid, sensitive, and selective fluorescent DNA detection using iron-based metal-organic framework nanorods: Synergies of the metal center and organic linker. <i>Biosensors and Bioelectronics</i> , <b>2015</b> , 71, 1-6	11.8	70
359	A nickel-borate nanoarray: a highly active 3D oxygen-evolving catalyst electrode operating in near-neutral water. <i>Chemical Communications</i> , <b>2017</b> , 53, 3070-3073	5.8	69
358	Se doping: an effective strategy toward Fe <sub>2</sub> O <sub>3</sub> nanorod arrays for greatly enhanced solar water oxidation. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 12086-12090	13	69
357	Recent advances in electrospun one-dimensional carbon nanofiber structures/heterostructures as anode materials for sodium ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 11493-11510	13	69
356	Surface Modification of a NiS Nanoarray with Ni(OH) toward Superior Water Reduction Electrocatalysis in Alkaline Media. <i>Inorganic Chemistry</i> , <b>2017</b> , 56, 13651-13654	5.1	69
355	Ultrathin graphitic C <sub>3</sub> N <sub>4</sub> nanofibers: Hydrolysis-driven top-down rapid synthesis and application as a novel fluorosensor for rapid, sensitive, and selective detection of Fe <sup>3+</sup> . <i>Sensors and Actuators B: Chemical</i> , <b>2015</b> , 216, 453-460	8.5	69
354	Hierarchical CuO@ZnCo LDH heterostructured nanowire arrays toward enhanced water oxidation electrocatalysis. <i>Nanoscale</i> , <b>2020</b> , 12, 5359-5362	7.7	68
353	Electrodeposited Ni-P Alloy Nanoparticle Films for Efficiently Catalyzing Hydrogen- and Oxygen-Evolution Reactions. <i>ChemNanoMat</i> , <b>2015</b> , 1, 558-561	3.5	68
352	Interconnected Co-Entrapped, N-Doped Carbon Nanotube Film as Active Hydrogen Evolution Cathode over the Whole pH Range. <i>ChemSusChem</i> , <b>2015</b> , 8, 1850-5	8.3	67
351	Ammonia Synthesis from Electrocatalytic N <sub>2</sub> Reduction under Ambient Conditions by Fe <sub>2</sub> O <sub>3</sub> Nanorods. <i>ChemCatChem</i> , <b>2018</b> , 10, 4530-4535	5.2	67

350	PdP2 nanoparticles@reduced graphene oxide for electrocatalytic N <sub>2</sub> conversion to NH <sub>3</sub> under ambient conditions. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 24760-24764	13	67
349	A cobalt-borate nanosheet array: an efficient and durable non-noble-metal electrocatalyst for water oxidation at near neutral pH. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 7305-7308	13	66
348	Mn <sub>3</sub> O <sub>4</sub> nanoparticles@reduced graphene oxide composite: An efficient electrocatalyst for artificial N <sub>2</sub> fixation to NH <sub>3</sub> at ambient conditions. <i>Nano Research</i> , <b>2019</b> , 12, 1093-1098	10	66
347	Efficient electrohydrogenation of N to NH by oxidized carbon nanotubes under ambient conditions. <i>Chemical Communications</i> , <b>2019</b> , 55, 4997-5000	5.8	66
346	In situ surface derivation of an Fe <sub>3</sub> O <sub>4</sub> /Bi layer on an Fe-doped Co <sub>3</sub> O <sub>4</sub> nanoarray for efficient water oxidation electrocatalysis under near-neutral conditions. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 6388-6392	13	65
345	Metal-organic framework-derived shuttle-like V <sub>2</sub> O <sub>3</sub> /C for electrocatalytic N <sub>2</sub> reduction under ambient conditions. <i>Inorganic Chemistry Frontiers</i> , <b>2019</b> , 6, 391-395	6.8	65
344	Facile synthesis of novel Ni(II)-based metal-organic coordination polymer nanoparticle/reduced graphene oxide nanocomposites and their application for highly sensitive and selective nonenzymatic glucose sensing. <i>Analyst</i> , <b>2013</b> , 138, 429-33	5	64
343	Fe(III)-based coordination polymer nanoparticles: peroxidase-like catalytic activity and their application to hydrogen peroxide and glucose detection. <i>Catalysis Science and Technology</i> , <b>2012</b> , 2, 432-436	5.5	64
342	High-Performance Electrolytic Oxygen Evolution in Neutral Media Catalyzed by a Cobalt Phosphate Nanoarray. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 1084-1088	3.6	63
341	Electrocatalytic N-to-NH conversion using oxygen-doped graphene: experimental and theoretical studies. <i>Chemical Communications</i> , <b>2019</b> , 55, 7502-7505	5.8	63
340	High-performance non-enzymatic glucose detection: using a conductive Ni-MOF as an electrocatalyst. <i>Journal of Materials Chemistry B</i> , <b>2020</b> , 8, 5411-5415	7.3	63
339	Efficient Hydrogen Evolution Electrocatalysis at Alkaline pH by Interface Engineering of NiP-CeO. <i>Inorganic Chemistry</i> , <b>2018</b> , 57, 548-552	5.1	63
338	Monolithically integrated copper phosphide nanowire: An efficient electrocatalyst for sensitive and selective nonenzymatic glucose detection. <i>Sensors and Actuators B: Chemical</i> , <b>2017</b> , 244, 11-16	8.5	62
337	Greatly Enhanced Electrocatalytic N <sub>2</sub> Reduction over V <sub>2</sub> O <sub>3</sub> /C by P Doping. <i>ChemNanoMat</i> , <b>2020</b> , 6, 1315-1319	3.5	62
336	Green synthesis of carbon nanodots as an effective fluorescent probe for sensitive and selective detection of mercury(II) ions. <i>Journal of Nanoparticle Research</i> , <b>2013</b> , 15, 1	2.3	62
335	N-doped carbon nanotubes from functional tubular polypyrrole: A highly efficient electrocatalyst for oxygen reduction reaction. <i>Electrochemistry Communications</i> , <b>2013</b> , 36, 57-61	5.1	62
334	Spinel ZnCo <sub>2</sub> O <sub>4</sub> /N-doped carbon nanotube composite: A high active oxygen reduction reaction electrocatalyst. <i>Journal of Power Sources</i> , <b>2014</b> , 257, 170-173	8.9	62
333	Porous LaFeO <sub>3</sub> nanofiber with oxygen vacancies as an efficient electrocatalyst for N <sub>2</sub> conversion to NH <sub>3</sub> under ambient conditions. <i>Journal of Energy Chemistry</i> , <b>2020</b> , 50, 402-408	12	62



332	Isolated copper single sites for high-performance electroreduction of carbon monoxide to multicarbon products. <i>Nature Communications</i> , <b>2021</b> , 12, 238	17.4	62
331	WO nanosheets rich in oxygen vacancies for enhanced electrocatalytic N reduction to NH <sub>3</sub> . <i>Nanoscale</i> , <b>2019</b> , 11, 19274-19277	7.7	61
330	Flexible RFID Tag Metal Antenna on Paper-Based Substrate by Inkjet Printing Technology. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1902579	15.6	61
329	One-step electrodeposition fabrication of graphene film-confined WS <sub>2</sub> nanoparticles with enhanced electrochemical catalytic activity for hydrogen evolution. <i>Electrochimica Acta</i> , <b>2014</b> , 134, 8-12	6.7	61
328	Hierarchical nickel oxide nanosheet@nanowire arrays on nickel foam: an efficient 3D electrode for methanol electro-oxidation. <i>Catalysis Science and Technology</i> , <b>2016</b> , 6, 1157-1161	5.5	60
327	Fast and Sensitive Colorimetric Detection of H <sub>2</sub> O <sub>2</sub> and Glucose: A Strategy Based on Polyoxometalate Clusters. <i>ChemPlusChem</i> , <b>2012</b> , 77, 541-544	2.8	60
326	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
325	Rapid self-assembly of oligo(o-phenylenediamine) into one-dimensional structures through a facile reprecipitation route. <i>Langmuir</i> , <b>2006</b> , 22, 3358-61	4	59
324	2020 Roadmap on gas-involved photo- and electro- catalysis. <i>Chinese Chemical Letters</i> , <b>2019</b> , 30, 2089-2109	10.9	59
323	Rational design of carbon materials as anodes for potassium-ion batteries. <i>Energy Storage Materials</i> , <b>2021</b> , 34, 483-507	19.4	59
322	A perovskite LaTiO nanosheet as an efficient electrocatalyst for artificial N fixation to NH <sub>3</sub> in acidic media. <i>Chemical Communications</i> , <b>2019</b> , 55, 6401-6404	5.8	58
321	Facilitating Active Species Generation by Amorphous NiFe-B Layer Formation on NiFe-LDH Nanoarray for Efficient Electrocatalytic Oxygen Evolution at Alkaline pH. <i>Chemistry - A European Journal</i> , <b>2017</b> , 23, 11499-11503	4.8	57
320	Production of stable aqueous dispersion of poly(3,4-ethylenedioxythiophene) nanorods using graphene oxide as a stabilizing agent and their application for nitrite detection. <i>Analyst, The</i> , <b>2011</b> , 136, 4898-902	5	57
319	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
318	Method for effective immobilization of Ag nanoparticles/graphene oxide composites on single-stranded DNA modified gold electrode for enzymeless H <sub>2</sub> O <sub>2</sub> detection. <i>Journal of Materials Science</i> , <b>2011</b> , 46, 5260-5266	4.3	56
317	Fluorescence-enhanced nucleic acid detection: using coordination polymer colloids as a sensing platform. <i>Chemical Communications</i> , <b>2011</b> , 47, 2625-7	5.8	56
316	Interconnected Network of Core-Shell CoP@CoBiPi for Efficient Water Oxidation Electrocatalysis under Near Neutral Conditions. <i>ChemSusChem</i> , <b>2017</b> , 10, 1370-1374	8.3	55
315	Hydrazine-assisted electrolytic hydrogen production: CoS <sub>2</sub> nanoarray as a superior bifunctional electrocatalyst. <i>New Journal of Chemistry</i> , <b>2017</b> , 41, 4754-4757	3.6	55

314	Bi nanodendrites for efficient electrocatalytic N fixation to NH under ambient conditions. <i>Chemical Communications</i> , <b>2020</b> , 56, 2107-2110	5.8	55
313	Iron-substituted SBA-15 microparticles: a peroxidase-like catalyst for H <sub>2</sub> O <sub>2</sub> detection. <i>Analyst, The</i> , <b>2011</b> , 136, 4894-7	5	55
312	Highly efficient electrochemical hydrogen evolution based on nickel diselenide nanowall film. <i>Nanotechnology</i> , <b>2016</b> , 27, 20LT02	3.4	55
311	Ambient electrochemical NH synthesis from N and water enabled by ZrO nanoparticles. <i>Chemical Communications</i> , <b>2020</b> , 56, 3673-3676	5.8	54
310	Ultrafine PtO nanoparticles coupled with a Co(OH)F nanowire array for enhanced hydrogen evolution. <i>Chemical Communications</i> , <b>2018</b> , 54, 810-813	5.8	54
309	Metal-based electrocatalytic conversion of CO <sub>2</sub> to formic acid/formate. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 21947-21960	13	54
308	One-step electrodeposition of a nickel cobalt sulfide nanosheet film as a highly sensitive nonenzymatic glucose sensor. <i>Journal of Materials Chemistry B</i> , <b>2016</b> , 4, 7540-7544	7.3	53
307	Microwave-assisted, environmentally friendly, one-pot preparation of Pd nanoparticles/graphene nanocomposites and their application in electrocatalytic oxidation of methanol. <i>Catalysis Science and Technology</i> , <b>2011</b> , 1, 1636	5.5	53
306	Large-Scale Synthesis of Micrometer-Scale Single-Crystalline Au Plates of Nanometer Thickness by a Wet-Chemical Route. <i>Angewandte Chemie</i> , <b>2004</b> , 116, 6520-6523	3.6	53
305	Noble-metal-free electrocatalysts toward H <sub>2</sub> O <sub>2</sub> production. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 23123-23141	13	53
304	A magnetron sputtered Mo <sub>3</sub> Si thin film: an efficient electrocatalyst for N <sub>2</sub> reduction under ambient conditions. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 884-888	13	53
303	Nickel oxide nanosheets array grown on carbon cloth as a high-performance three-dimensional oxygen evolution electrode. <i>International Journal of Hydrogen Energy</i> , <b>2015</b> , 40, 9866-9871	6.7	52
302	Efficient oxygen evolution electrocatalyzed by a Cu nanoparticle-embedded N-doped carbon nanowire array. <i>Inorganic Chemistry Frontiers</i> , <b>2018</b> , 5, 1188-1192	6.8	52
301	Dendritic Cu: a high-efficiency electrocatalyst for N fixation to NH under ambient conditions. <i>Chemical Communications</i> , <b>2019</b> , 55, 14474-14477	5.8	52
300	A platinum oxide decorated amorphous cobalt oxide hydroxide nanosheet array towards alkaline hydrogen evolution. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 3864-3868	13	51
299	A novel fluorescent aptasensor for thrombin detection: using poly(m-phenylenediamine) rods as an effective sensing platform. <i>Chemical Communications</i> , <b>2011</b> , 47, 3927-9	5.8	51
298	A Biomass-Derived Carbon-Based Electrocatalyst for Efficient N Fixation to NH under Ambient Conditions. <i>Chemistry - A European Journal</i> , <b>2019</b> , 25, 1914-1917	4.8	51
297	Synthesis and study of plasmon-induced carrier behavior at Ag/TiO <sub>2</sub> nanowires. <i>Chemistry - A European Journal</i> , <b>2012</b> , 18, 8508-14	4.8	50

296	Ag@poly(m-phenylenediamine)-Ag core-shell nanoparticles: one-step preparation, characterization, and their application for H <sub>2</sub> O <sub>2</sub> detection. <i>Catalysis Science and Technology</i> , <b>2011</b> , 1, 1393	5.5	50
295	Poly(o-phenylenediamine) colloid-quenched fluorescent oligonucleotide as a probe for fluorescence-enhanced nucleic acid detection. <i>Langmuir</i> , <b>2011</b> , 27, 874-7	4	50
294	Replacing Oxygen Evolution with Hydrazine Oxidation at the Anode for Energy-Saving Electrolytic Hydrogen Production. <i>ChemElectroChem</i> , <b>2017</b> , 4, 481-484	4.3	49
293	Core-shell CoFeO@Co-Fe-Bi nanoarray: a surface-amorphization water oxidation catalyst operating at near-neutral pH. <i>Nanoscale</i> , <b>2017</b> , 9, 7714-7718	7.7	49
292	Homologous Catalysts Based on Fe-Doped CoP Nanoarrays for High-Performance Full Water Splitting under Benign Conditions. <i>ChemSusChem</i> , <b>2017</b> , 10, 3188-3192	8.3	49
291	Carbon nanospheres for fluorescent biomolecular detection. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 4663		49
290	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> , <b>2007</b> , 23, 10441-4	4	49
289	High-Performance Non-Enzyme Hydrogen Peroxide Detection in Neutral Solution: Using a Nickel Borate Nanoarray as a 3D Electrochemical Sensor. <i>Chemistry - A European Journal</i> , <b>2017</b> , 23, 16179-16183	4.8	48
288	Electrocatalytic CO <sub>2</sub> Reduction to Alcohols with High Selectivity over a Two-Dimensional Fe <sub>2</sub> P <sub>2</sub> S <sub>6</sub> Nanosheet. <i>ACS Catalysis</i> , <b>2019</b> , 9, 9721-9725	13.1	48
287	Cathodic electrochemical activation of CoO nanoarrays: a smart strategy to significantly boost the hydrogen evolution activity. <i>Chemical Communications</i> , <b>2018</b> , 54, 2150-2153	5.8	48
286	One-pot green hydrothermal synthesis of CuO@Cu <sub>2</sub> O@Cu nanorod-decorated reduced graphene oxide composites and their application in photocurrent generation. <i>Catalysis Science and Technology</i> , <b>2012</b> , 2, 2227	5.5	48
285	A new application of mesoporous carbon microparticles to nucleic acid detection. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 339-341		48
284	P-Doped graphene toward enhanced electrocatalytic N reduction. <i>Chemical Communications</i> , <b>2020</b> , 56, 1831-1834	5.8	48
283	A-site perovskite oxides: an emerging functional material for electrocatalysis and photocatalysis. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 6650-6670	13	48
282	NiS <sub>2</sub> nanosheet array: A high-active bifunctional electrocatalyst for hydrazine oxidation and water reduction toward energy-efficient hydrogen production. <i>Materials Today Energy</i> , <b>2017</b> , 3, 9-14	7	47
281	Self-standing Ni-WN heterostructure nanowires array: A highly efficient catalytic cathode for hydrogen evolution reaction in alkaline solution. <i>Electrochimica Acta</i> , <b>2016</b> , 210, 729-733	6.7	47
280	Photoassisted preparation of cobalt phosphate/graphene oxide composites: a novel oxygen-evolving catalyst with high efficiency. <i>Small</i> , <b>2013</b> , 9, 2709-14	11	47
279	One-step solvothermal synthesis of MoS <sub>2</sub> /TiO <sub>2</sub> nanocomposites with enhanced photocatalytic H <sub>2</sub> production. <i>Journal of Nanoparticle Research</i> , <b>2013</b> , 15, 1	2.3	46

278	A novel single-labeled fluorescent oligonucleotide probe for silver(I) ion detection based on the inherent quenching ability of deoxyguanosines. <i>Analyst, The</i> , <b>2011</b> , 136, 891-3	5	46
277	Efficient electrochemical water splitting catalyzed by electrodeposited NiFe nanosheets film. <i>International Journal of Hydrogen Energy</i> , <b>2016</b> , 41, 8785-8792	6.7	46
276	A Ni-MOF nanosheet array for efficient oxygen evolution electrocatalysis in alkaline media. <i>Inorganic Chemistry Frontiers</i> ,	6.8	46
275	A novel strategy to synthesize Au nanoplates and their application for enzymeless H <sub>2</sub> O <sub>2</sub> detection. <i>Electrochimica Acta</i> , <b>2012</b> , 60, 13-16	6.7	45
274	Surface Amorphization: A Simple and Effective Strategy toward Boosting the Electrocatalytic Activity for Alkaline Water Oxidation. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2017</b> , 5, 8518-8522	8.3	45
273	Noble-metal-free electrospun nanomaterials as electrocatalysts for oxygen reduction reaction. <i>Materials Today Physics</i> , <b>2020</b> , 15, 100280	8	45
272	Alkylthiol surface engineering: an effective strategy toward enhanced electrocatalytic N <sub>2</sub> -to-NH <sub>3</sub> fixation by a CoP nanoarray. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 13861-13866	13	45
271	Electrocatalytic hydrogen peroxide production in acidic media enabled by NiS <sub>2</sub> nanosheets. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 6117-6122	13	45
270	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> , <b>2006</b> , 78, 6674-7	7.8	44
269	Commercial indium-tin oxide glass: A catalyst electrode for efficient N <sub>2</sub> reduction at ambient conditions. <i>Chinese Journal of Catalysis</i> , <b>2021</b> , 42, 1024-1029	11.3	44
268	Sn dendrites for electrocatalytic N <sub>2</sub> reduction to NH <sub>3</sub> under ambient conditions. <i>Sustainable Energy and Fuels</i> , <b>2020</b> , 4, 4469-4472	5.8	43
267	Hierarchically porous N-doped carbon nanoflakes: Large-scale facile synthesis and application as an oxygen reduction reaction electrocatalyst with high activity. <i>Carbon</i> , <b>2014</b> , 78, 60-69	10.4	43
266	Reduced graphene oxide decorated with FeF <sub>3</sub> nanoparticles: Facile synthesis and application as a high capacity cathode material for rechargeable lithium batteries. <i>Electrochimica Acta</i> , <b>2013</b> , 111, 80-85	6.7	43
265	Nano-C60 as a novel, effective fluorescent sensing platform for mercury(II) ion detection at critical sensitivity and selectivity. <i>Nanoscale</i> , <b>2011</b> , 3, 2155-7	7.7	43
264	Carboxyl functionalized mesoporous polymer: A novel peroxidase-like catalyst for H <sub>2</sub> O <sub>2</sub> detection. <i>Analytical Methods</i> , <b>2011</b> , 3, 1475	3.2	43
263	An efficient bifunctional electrocatalyst for water splitting based on cobalt phosphide. <i>Nanotechnology</i> , <b>2016</b> , 27, 23LT01	3.4	43
262	Electrocatalytic N <sub>2</sub> Fixation over Hollow VO <sub>2</sub> Microspheres at Ambient Conditions. <i>ChemElectroChem</i> , <b>2019</b> , 6, 1014-1018	4.3	43
261	Recent advances in strategies for highly selective electrocatalytic N <sub>2</sub> reduction toward ambient NH <sub>3</sub> synthesis. <i>Current Opinion in Electrochemistry</i> , <b>2021</b> , 29, 100766	7.2	43

260	High-Efficiency and Durable Water Oxidation under Mild pH Conditions: An Iron Phosphate-Borate Nanosheet Array as a Non-Noble-Metal Catalyst Electrode. <i>Inorganic Chemistry</i> , <b>2017</b> , 56, 3131-3135	5.1	42
259	Methylamine-induced defect-healing and cationic substitution: a new method for low-defect perovskite thin films and solar cells. <i>Journal of Materials Chemistry C</i> , <b>2019</b> , 7, 10724-10742	7.1	42
258	NixSy-MoS2 hybrid microspheres: One-pot hydrothermal synthesis and their application as a novel hydrogen evolution reaction electrocatalyst with enhanced activity. <i>Electrochimica Acta</i> , <b>2014</b> , 137, 504-510	6.7	42
257	Holey graphene nanosheets: large-scale rapid preparation and their application toward highly-effective water cleaning. <i>Nanoscale</i> , <b>2014</b> , 6, 11659-63	7.7	42
256	PH-driven dissolution-precipitation: a novel route toward ultrathin Ni(OH) <sub>2</sub> nanosheets array on nickel foam as binder-free anode for Li-ion batteries with ultrahigh capacity. <i>CrystEngComm</i> , <b>2013</b> , 15, 8300	3.3	42
255	Benzoate Anion-Intercalated Layered Cobalt Hydroxide Nanoarray: An Efficient Electrocatalyst for the Oxygen Evolution Reaction. <i>ChemSusChem</i> , <b>2017</b> , 10, 4004-4008	8.3	42
254	One-step preparation of ZnO nanoparticle-decorated reduced graphene oxide composites and their application to photocurrent generation. <i>RSC Advances</i> , <b>2012</b> , 2, 1318	3.7	42
253	Green photocatalytic synthesis of Ag nanoparticle-decorated TiO <sub>2</sub> nanowires for nonenzymatic amperometric H <sub>2</sub> O <sub>2</sub> detection. <i>Electrochimica Acta</i> , <b>2012</b> , 74, 275-279	6.7	42
252	High-Performance Electrochemical NO Reduction into NH <sub>3</sub> by MoS Nanosheet. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 25263-25268	16.4	42
251	Nickel/Iron foam as a three-dimensional robust oxygen evolution electrode with high activity. <i>International Journal of Hydrogen Energy</i> , <b>2015</b> , 40, 13258-13263	6.7	41
250	Electrospun TiC/C nanofibers for ambient electrocatalytic N <sub>2</sub> reduction. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 19657-19661	13	41
249	A NiCoO@Ni-Co-Ci core-shell nanowire array as an efficient electrocatalyst for water oxidation at near-neutral pH. <i>Chemical Communications</i> , <b>2017</b> , 53, 7812-7815	5.8	40
248	In situ development of amorphous Mn-Co-P shell on MnCoO nanowire array for superior oxygen evolution electrocatalysis in alkaline media. <i>Chemical Communications</i> , <b>2018</b> , 54, 1077-1080	5.8	40
247	Polydopamine nanospheres: A biopolymer-based fluorescent sensing platform for DNA detection. <i>Sensors and Actuators B: Chemical</i> , <b>2014</b> , 191, 567-571	8.5	40
246	Fabrication of Ni(OH) <sub>2</sub> coated ZnO array for high-rate pseudocapacitive energy storage. <i>Electrochimica Acta</i> , <b>2013</b> , 109, 252-255	6.7	40
245	Self-Templating Construction of Hollow Amorphous CoMoS Nanotube Array towards Efficient Hydrogen Evolution Electrocatalysis at Neutral pH. <i>Chemistry - A European Journal</i> , <b>2017</b> , 23, 12718-12723	4.8	40
244	Formation of o-Phenylenediamine Oligomers and their Self-Assembly into One-Dimensional Structures in Aqueous Medium. <i>Macromolecular Rapid Communications</i> , <b>2005</b> , 26, 1504-1508	4.8	40
243	Magnetron sputtering enabled sustainable synthesis of nanomaterials for energy electrocatalysis. <i>Green Chemistry</i> , <b>2021</b> , 23, 2834-2867	10	40

242	Recent Progress in Electrocatalytic Methanation of CO <sub>2</sub> at Ambient Conditions. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2009449	15.6	40
241	Off-Stoichiometric Methylammonium Iodide Passivated Large-Grain Perovskite Film in Ambient Air for Efficient Inverted Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 39882-39889	9.5	39
240	Biomass-derived oxygen-doped hollow carbon microtubes for electrocatalytic N-to-NH fixation under ambient conditions. <i>Chemical Communications</i> , <b>2019</b> , 55, 2684-2687	5.8	39
239	Superior alkaline hydrogen evolution electrocatalysis enabled by an ultrafine PtNi nanoparticle-decorated Ni nanoarray with ultralow Pt loading. <i>Inorganic Chemistry Frontiers</i> , <b>2018</b> , 5, 1365-1369	6.8	39
238	Iodide-derived nanostructured silver promotes selective and efficient carbon dioxide conversion into carbon monoxide. <i>Chemical Communications</i> , <b>2018</b> , 54, 2666-2669	5.8	39
237	Bimetallic NiCoP Nanosheets Array for High-Performance Urea Electro-Oxidation and Less Energy-Intensive Electrolytic Hydrogen Production. <i>ChemistrySelect</i> , <b>2017</b> , 2, 10285-10289	1.8	39
236	Se <sub>2</sub> C Bonding Promoting Fast and Durable Na Storage in Yolk-Shell SnSe @Se <sub>2</sub> C. <i>Small</i> , <b>2020</b> , 16, e2002486	4.8	39
235	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> , <b>2021</b> , 9, 6402-6412	13	39
234	Three-Dimensional Nickel-Borate Nanosheets Array for Efficient Oxygen Evolution at Near-Neutral pH. <i>Chemistry - A European Journal</i> , <b>2017</b> , 23, 6959-6963	4.8	38
233	A nickel borate phosphate nanoarray for efficient and durable water oxidation under benign conditions. <i>Inorganic Chemistry Frontiers</i> , <b>2017</b> , 4, 840-844	6.8	38
232	Photochemical preparation of fluorescent 2,3-diaminophenazine nanoparticles for sensitive and selective detection of Hg(II) ions. <i>Sensors and Actuators B: Chemical</i> , <b>2012</b> , 171-172, 886-890	8.5	38
231	CuP nanoparticle-reduced graphene oxide hybrid: an efficient electrocatalyst to realize N-to-NH conversion under ambient conditions. <i>Chemical Communications</i> , <b>2020</b> , 56, 9328-9331	5.8	38
230	CuO@CoFe Layered Double Hydroxide Core-Shell Heterostructure as an Efficient Water Oxidation Electrocatalyst under Mild Alkaline Conditions. <i>Inorganic Chemistry</i> , <b>2020</b> , 59, 9491-9495	5.1	37
229	TiB <sub>2</sub> thin film enabled efficient NH <sub>3</sub> electrosynthesis at ambient conditions. <i>Materials Today Physics</i> , <b>2021</b> , 18, 100396	8	37
228	NiFe Layered-Double-Hydroxide Nanosheet Arrays on Graphite Felt: A 3D Electrocatalyst for Highly Efficient Water Oxidation in Alkaline Media. <i>Inorganic Chemistry</i> , <b>2021</b> , 60, 12703-12708	5.1	36
227	Carbon nitride dots can serve as an effective stabilizing agent for reduced graphene oxide and help in subsequent assembly with glucose oxidase into hybrids for glucose detection application. <i>Electrochimica Acta</i> , <b>2013</b> , 95, 260-267	6.7	35
226	Enabling electrochemical conversion of N <sub>2</sub> to NH <sub>3</sub> under ambient conditions by a CoP <sub>3</sub> nanoneedle array. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 17956-17959	13	35
225	Topotactic Conversion of FeO Nanowires into FeP as a Superior Fluorosensor for Nucleic Acid Detection: Insights from Experiment and Theory. <i>Analytical Chemistry</i> , <b>2017</b> , 89, 2191-2195	7.8	34

224	Co-based nanowire films as complementary hydrogen- and oxygen-evolving electrocatalysts in neutral electrolyte. <i>Catalysis Science and Technology</i> , <b>2017</b> , 7, 2689-2694	5.5	34
223	Fe-doped CoP nanosheet arrays: an efficient bifunctional catalyst for zinc-air batteries. <i>Chemical Communications</i> , <b>2018</b> , 54, 7693-7696	5.8	34
222	Microwave-assisted rapid synthesis of Pt/graphene nanosheet composites and their application for methanol oxidation. <i>Journal of Nanoparticle Research</i> , <b>2011</b> , 13, 4731-4737	2.3	34
221	Ambient electrochemical N <sub>2</sub> -to-NH <sub>3</sub> fixation enabled by Nb <sub>2</sub> O <sub>5</sub> nanowire array. <i>Inorganic Chemistry Frontiers</i> , <b>2019</b> , 6, 423-427	6.8	33
220	Co <sub>3</sub> (hexahydroxytriphenylene) <sub>2</sub> : A conductive metal-organic framework for ambient electrocatalytic N <sub>2</sub> reduction to NH <sub>3</sub> . <i>Nano Research</i> , <b>2020</b> , 13, 1008-1012	10	33
219	Hematite nanorods array on carbon cloth as an efficient 3D oxygen evolution anode. <i>Electrochemistry Communications</i> , <b>2014</b> , 49, 21-24	5.1	33
218	Recent Advances in Nonprecious Metal Oxide Electrocatalysts and Photocatalysts for N <sub>2</sub> Reduction Reaction under Ambient Condition. <i>Small Science</i> , <b>2021</b> , 1, 2000069		33
217	Hierarchical CoTe <sub>2</sub> Nanowire Array: An Effective Oxygen Evolution Catalyst in Alkaline Media. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 4481-4485	8.3	32
216	Submicrometre-scale polyaniline colloidal spheres: photopolymerization preparation using fluorescent carbon nitride dots as a photocatalyst. <i>Catalysis Science and Technology</i> , <b>2012</b> , 2, 711	5.5	32
215	Electrocatalytic N <sub>2</sub> reduction to NH <sub>3</sub> with high Faradaic efficiency enabled by vanadium phosphide nanoparticle on V foil. <i>Nano Research</i> , <b>2020</b> , 13, 2967-2972	10	32
214	CuS concave polyhedral superstructures enabled efficient N <sub>2</sub> electroreduction to NH <sub>3</sub> at ambient conditions. <i>Inorganic Chemistry Frontiers</i> ,	6.8	32
213	TiO Nanoparticles with Ti Sites toward Efficient NH Electrosynthesis under Ambient Conditions. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 41715-41722	9.5	32
212	Core-Shell-Structured NiS <sub>2</sub> @Ni-Bi Nanoarray for Efficient Water Oxidation at Near-Neutral pH. <i>ChemCatChem</i> , <b>2017</b> , 9, 3138-3143	5.2	31
211	Hollow Bi <sub>2</sub> MoO <sub>6</sub> Sphere Effectively Catalyzes the Ambient Electroreduction of N <sub>2</sub> to NH <sub>3</sub> . <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 12692-12696	8.3	31
210	Greatly Improving Electrochemical N <sub>2</sub> Reduction over TiO <sub>2</sub> Nanoparticles by Iron Doping. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 18620-18624	3.6	31
209	Poly(m-phenylenediamine) nanospheres and nanorods: selective synthesis and their application for multiplex nucleic acid detection. <i>PLoS ONE</i> , <b>2011</b> , 6, e20569	3.7	31
208	FeOOH quantum dots decorated graphene sheet: An efficient electrocatalyst for ambient N <sub>2</sub> reduction. <i>Nano Research</i> , <b>2020</b> , 13, 209-214	10	31
207	La <sub>2</sub> O <sub>3</sub> nanoplate: An efficient electrocatalyst for artificial N <sub>2</sub> fixation to NH <sub>3</sub> with excellent selectivity at ambient condition. <i>Electrochimica Acta</i> , <b>2019</b> , 298, 106-111	6.7	31

206	CrC Nanoparticle-Embedded Carbon Nanofiber for Artificial Synthesis of NH through N Fixation under Ambient Conditions. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 35764-35769	9.5	30
205	Electrochemical synthesis of ammonia by zirconia-based catalysts at ambient conditions. <i>Applied Catalysis A: General</i> , <b>2019</b> , 581, 116-122	5.1	30
204	MnO nanoarrays: an efficient catalyst electrode for nitrite electroreduction toward sensing and NH synthesis applications. <i>Chemical Communications</i> , <b>2018</b> , 54, 10340-10342	5.8	30
203	Remarkable enhancement of the alkaline oxygen evolution reaction activity of NiCo <sub>2</sub> O <sub>4</sub> by an amorphous borate shell. <i>Inorganic Chemistry Frontiers</i> , <b>2017</b> , 4, 1546-1550	6.8	30
202	One-pot synthesis of Au nanoparticles/reduced graphene oxide nanocomposites and their application for electrochemical H <sub>2</sub> O <sub>2</sub> , glucose, and hydrazine sensing. <i>Gold Bulletin</i> , <b>2014</b> , 47, 3-8	1.6	30
201	A novel acid-driven, microwave-assisted, one-pot strategy toward rapid production of graphitic N-doped carbon nanoparticles-decorated carbon flakes from N,N-dimethylformamide and their application in removal of dye from water. <i>RSC Advances</i> , <b>2012</b> , 2, 4632	3.7	30
200	Coordination polymer nanobelts for nucleic acid detection. <i>Nanotechnology</i> , <b>2011</b> , 22, 195502	3.4	30
199	DyF : An Efficient Electrocatalyst for N Fixation to NH under Ambient Conditions. <i>Chemistry - an Asian Journal</i> , <b>2020</b> , 15, 487-489	4.5	30
198	Ambient ammonia production via electrocatalytic nitrite reduction catalyzed by a CoP nanoarray. <i>Nano Research</i> , <b>1</b>	10	30
197	Carbon nanofiber-templated mesoporous TiO <sub>2</sub> nanotubes as a high-capacity anode material for lithium-ion batteries. <i>RSC Advances</i> , <b>2014</b> , 4, 9061	3.7	29
196	Monolithically integrated NiCoP nanosheet array on Ti mesh: An efficient and reusable catalyst in NaBH <sub>4</sub> alkaline media toward on-demand hydrogen generation. <i>International Journal of Hydrogen Energy</i> , <b>2017</b> , 42, 19028-19034	6.7	29
195	CdS quantum dots as a fluorescent sensing platform for nucleic acid detection. <i>Mikrochimica Acta</i> , <b>2011</b> , 175, 355-359	5.8	29
194	Ti self-doped TiO nanowires for efficient electrocatalytic N reduction to NH. <i>Chemical Communications</i> , <b>2020</b> , 56, 1074-1077	5.8	29
193	Enabling the electrocatalytic fixation of N <sub>2</sub> to NH <sub>3</sub> by C-doped TiO <sub>2</sub> nanoparticles under ambient conditions. <i>Nanoscale Advances</i> , <b>2019</b> , 1, 961-964	5.1	29
192	Facilitating active species by decorating CeO <sub>2</sub> on Ni <sub>3</sub> S <sub>2</sub> nanosheets for efficient water oxidation electrocatalysis. <i>Chinese Journal of Catalysis</i> , <b>2021</b> , 42, 482-489	11.3	29
191	Recent advances in perovskite oxides as electrode materials for supercapacitors. <i>Chemical Communications</i> , <b>2021</b> , 57, 2343-2355	5.8	29
190	Benzoate Anions-Intercalated Layered Nickel Hydroxide Nanobelts Array: An Earth-Abundant Electrocatalyst with Greatly Enhanced Oxygen Evolution Activity. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2017</b> , 5, 9625-9629	8.3	28
189	Cobalt Phosphide Nanowires: Efficient Nanostructures for Fluorescence Sensing of Biomolecules and Photocatalytic Evolution of Dihydrogen from Water under Visible Light. <i>Angewandte Chemie</i> , <b>2015</b> , 127, 5583-5587	3.6	28



188	N-doped carbon-coated tungsten oxynitride nanowire arrays for highly efficient electrochemical hydrogen evolution. <i>ChemSusChem</i> , <b>2015</b> , 8, 2487-91	8.3	28
187	Coordination polymer nanobelts as an effective sensing platform for fluorescence-enhanced nucleic acid detection. <i>Macromolecular Rapid Communications</i> , <b>2011</b> , 32, 899-904	4.8	28
186	Bioinspired Electrocatalyst for Electrochemical Reduction of N to NH in Ambient Conditions. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 2445-2451	9.5	28
185	Progress and perspective of metal phosphide/carbon heterostructure anodes for rechargeable ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 11879-11907	13	28
184	Enhancing electrocatalytic N <sub>2</sub> -to-NH <sub>3</sub> fixation by suppressing hydrogen evolution with alkylthiols modified Fe <sub>3</sub> P nanoarrays. <i>Nano Research</i> , 1	10	28
183	A Ni <sub>3</sub> NiCo <sub>3</sub> N hybrid nanowire array electrode for high-performance nonenzymatic glucose detection. <i>Analytical Methods</i> , <b>2018</b> , 10, 1680-1684	3.2	27
182	Ambient Ammonia Synthesis via Electrochemical Reduction of Nitrate Enabled by NiCo O Nanowire Array.. <i>Small</i> , <b>2022</b> , e2106961	11	27
181	In situ growth of nickel selenide nanowire arrays on nickel foil for methanol electro-oxidation in alkaline media. <i>RSC Advances</i> , <b>2015</b> , 5, 87051-87054	3.7	26
180	Ambient electrocatalytic N <sub>2</sub> reduction to NH <sub>3</sub> by metal fluorides. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 17761-17765	13	26
179	Co O Nanowire Arrays toward Superior Water Oxidation Electrocatalysis in Alkaline Media by Surface Amorphization. <i>Chemistry - A European Journal</i> , <b>2017</b> , 23, 15601-15606	4.8	26
178	Hydrothermal synthesis of ultra-highly concentrated, well-stable Ag nanoparticles and their application for enzymeless hydrogen peroxide detection. <i>Journal of Nanoparticle Research</i> , <b>2011</b> , 13, 2689-2695	2.3	26
177	Ternary Nanocomposites of Porphyrin, Angular Au Nanoparticles and Reduced Graphene Oxide: Photocatalytic Synthesis and Enhanced Photocurrent Generation. <i>ChemCatChem</i> , <b>2012</b> , 4, 1079-1083	5.2	25
176	Electrostatic-assembly-driven formation of micrometer-scale supramolecular sheets of (3-aminopropyl)triethoxysilane(APTES)-HAuCl <sub>4</sub> and their subsequent transformation into stable APTES bilayer-capped gold nanoparticles through a thermal process. <i>Langmuir</i> , <b>2010</b> , 26, 6133-5	4	25
175	Rapid preparation and characterization of uniform, large, spherical Ag particles through a simple wet-chemical route. <i>Journal of Colloid and Interface Science</i> , <b>2005</b> , 290, 130-3	9.3	25
174	Recent advances in lithium-based batteries using metal organic frameworks as electrode materials. <i>Electrochemistry Communications</i> , <b>2021</b> , 122, 106881	5.1	25
173	High-efficiency electrochemical nitrite reduction to ammonium using a Cu <sub>3</sub> P nanowire array under ambient conditions. <i>Green Chemistry</i> , <b>2021</b> , 23, 5487-5493	10	25
172	NiP Nanosheets on Carbon Cloth: An Efficient Flexible Electrode for Sodium-Ion Batteries. <i>Inorganic Chemistry</i> , <b>2019</b> , 58, 6579-6583	5.1	24
171	CuMoO Nanosheet Array as a High-Efficiency Oxygen Evolution Electrode in Alkaline Solution. <i>Inorganic Chemistry</i> , <b>2018</b> , 57, 1220-1225	5.1	24

170	Low-cost coenzyme Q10 as an efficient electron transport layer for inverted perovskite solar cells. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 18626-18633	13	24
169	Application of Zeolitic Imidazolate Framework-8 Nanoparticles for the Fluorescence-Enhanced Detection of Nucleic Acids. <i>ChemPlusChem</i> , <b>2012</b> , 77, 23-26	2.8	24
168	CoFe-LDH nanowire arrays on graphite felt: A high-performance oxygen evolution electrocatalyst in alkaline media. <i>Chinese Chemical Letters</i> , <b>2021</b> ,	8.1	24
167	2021 Roadmap: electrocatalysts for green catalytic processes. <i>JPhys Materials</i> , <b>2021</b> , 4, 022004	4.2	24
166	Enhanced Electrochemical HO <sub>2</sub> Production via Two-Electron Oxygen Reduction Enabled by Surface-Derived Amorphous Oxygen-Deficient TiO <sub>2</sub> . <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 33182-33187	9.5	24
165	Cobalt phosphide nanowires: an efficient electrocatalyst for enzymeless hydrogen peroxide detection. <i>Nanotechnology</i> , <b>2016</b> , 27, 33LT01	3.4	24
164	Cu <sub>2</sub> Sb decorated Cu nanowire arrays for selective electrocatalytic CO <sub>2</sub> to CO conversion. <i>Nano Research</i> , <b>2021</b> , 14, 2831-2836	10	24
163	In situ tailoring bimetallic organic framework-derived yolk-shell NiS <sub>2</sub> /CuS hollow microspheres: an extraordinary kinetically pseudocapacitive nanoreactor for an effective sodium-ion storage anode. <i>Journal of Materials Chemistry A</i> ,	13	24
162	CaMoO <sub>4</sub> nanosheet arrays for efficient and durable water oxidation electrocatalysis under alkaline conditions. <i>Chemical Communications</i> , <b>2018</b> , 54, 5066-5069	5.8	23
161	One-Step Hydrothermal Synthesis of Ag Nanoparticle Decorated Submicrometer-Scale Spherical AgBr Colloids: A Highly Efficient Visible Light Plasmonic Photocatalyst for Degradation of Organic Dyes. <i>Particle and Particle Systems Characterization</i> , <b>2013</b> , 30, 67-71	3.1	23
160	WO <sub>3</sub> Nanoarray: An Efficient Electrochemical Oxygen Evolution Catalyst Electrode Operating in Alkaline Solution. <i>Inorganic Chemistry</i> , <b>2017</b> , 56, 14743-14746	5.1	23
159	CoS <sub>2</sub> Nanoparticles-Embedded N-Doped Carbon Nanobox Derived from ZIF-67 for Electrocatalytic N <sub>2</sub> -to-NH <sub>3</sub> Fixation under Ambient Conditions. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 29-33	8.3	23
158	FeMoO <sub>4</sub> nanorod array: a highly active 3D anode for water oxidation under alkaline conditions. <i>Inorganic Chemistry Frontiers</i> , <b>2018</b> , 5, 665-668	6.8	22
157	A Bunch-like Copper Oxide Nanowire Array as an Efficient, Durable, and Economical Catalyst for the Methanolysis of Ammonia Borane. <i>ChemCatChem</i> , <b>2018</b> , 10, 710-715	5.2	22
156	Novel use of poly(3,4-ethylenedioxythiophene) nanoparticles for fluorescent nucleic acid detection. <i>ACS Combinatorial Science</i> , <b>2012</b> , 14, 191-6	3.9	22
155	Novel synthesis of Au nanoparticles using fluorescent carbon nitride dots as photocatalyst. <i>Gold Bulletin</i> , <b>2012</b> , 45, 61-67	1.6	22
154	A novel application of porphyrin nanoparticles as an effective fluorescent assay platform for nucleic acid detection. <i>RSC Advances</i> , <b>2011</b> , 1, 36	3.7	22
153	Large-scale synthesis of coordination polymer microdendrites and their application as a sensing platform for fluorescent DNA detection. <i>RSC Advances</i> , <b>2011</b> , 1, 725	3.7	22

152	Superior hydrogen evolution electrocatalysis enabled by CoP nanowire array on graphite felt. <i>International Journal of Hydrogen Energy</i> , <b>2022</b> , 47, 3580-3586	6.7	22
151	Nanostructured Bromide-Derived Ag Film: An Efficient Electrocatalyst for N Reduction to NH under Ambient Conditions. <i>Inorganic Chemistry</i> , <b>2018</b> , 57, 14692-14697	5.1	22
150	Electrochemical Hydrazine Oxidation Catalyzed by Iron Phosphide Nanosheets Array toward Energy-Efficient Electrolytic Hydrogen Production from Water. <i>ChemistrySelect</i> , <b>2017</b> , 2, 3401-3407	1.8	21
149	Cobalt Carbonate Hydroxide Nanowire Array on Ti Mesh: An Efficient and Robust 3D Catalyst for On-Demand Hydrogen Generation from Alkaline NaBH Solution. <i>Chemistry - A European Journal</i> , <b>2016</b> , 22, 14831-14835	4.8	21
148	Bilateral Interfaces in InSe-CoIn-CoSe Heterostructures for High-Rate Reversible Sodium Storage. <i>ACS Nano</i> , <b>2021</b> ,	16.7	21
147	An Fe <sub>2</sub> O <sub>3</sub> nanoparticle-reduced graphene oxide composite for ambient electrocatalytic N <sub>2</sub> reduction to NH <sub>3</sub> . <i>Inorganic Chemistry Frontiers</i> , <b>2019</b> , 6, 2682-2685	6.8	20
146	Environmentally friendly Mn-alloyed core/shell quantum dots for high-efficiency photoelectrochemical cells. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 10736-10741	13	20
145	A Br <sup>-</sup> anion adsorbed porous Ag nanowire film: in situ electrochemical preparation and application toward efficient CO <sub>2</sub> electroreduction to CO with high selectivity. <i>Inorganic Chemistry Frontiers</i> , <b>2018</b> , 5, 2238-2241	6.8	20
144	Environmentally Friendly Photocatalytic Synthesis of Porphyrin/Ag Nanoparticles/Reduced Graphene Oxide Ternary Nanohybrids Having Superior Catalytic Activity. <i>ChemPlusChem</i> , <b>2012</b> , 77, 545-550	2.8	20
143	A novel single-labeled fluorescent oligonucleotide probe for mercury(II) ion detection: using the inherent quenching of deoxyguanosines. <i>Journal of Fluorescence</i> , <b>2011</b> , 21, 1049-52	2.4	20
142	Titanium silicalite-1 zeolite microparticles for enzymeless H <sub>2</sub> O <sub>2</sub> detection. <i>Analyst, The</i> , <b>2011</b> , 136, 2037-9	3.9	20
141	Synergistic electrocatalytic N <sub>2</sub> reduction using a PTCA nanorod/GO hybrid. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 12446-12450	13	19
140	Oxygen-Doped Porous Carbon Nanosheet for Efficient N <sub>2</sub> Fixation to NH <sub>3</sub> at Ambient Conditions. <i>ChemistrySelect</i> , <b>2019</b> , 4, 3547-3550	1.8	19
139	3D hierarchical CuO/Co <sub>3</sub> O <sub>4</sub> core-shell nanowire array on copper foam for on-demand hydrogen generation from alkaline NaBH <sub>4</sub> solution. <i>RSC Advances</i> , <b>2016</b> , 6, 88846-88850	3.7	19
138	Nickel-carbonate nanowire array: An efficient and durable electrocatalyst for water oxidation under nearly neutral conditions. <i>Frontiers of Chemical Science and Engineering</i> , <b>2018</b> , 12, 467-472	4.5	19
137	High-efficiency electrohydrogenation of nitric oxide to ammonia on a Ni <sub>2</sub> P nanoarray under ambient conditions. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 24268-24275	13	19
136	Unusual electrochemical N reduction activity in an earth-abundant iron catalyst via phosphorous modulation. <i>Chemical Communications</i> , <b>2020</b> , 56, 731-734	5.8	19
135	N-doped carbon nanotubes supported CoSe nanoparticles: A highly efficient and stable catalyst for HO electrosynthesis in acidic media. <i>Nano Research</i> , <b>2021</b> , 15, 1-6	10	19

134	Electrospun zirconia nanofibers for enhancing the electrochemical synthesis of ammonia by artificial nitrogen fixation. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 2145-2151	13	19
133	Practical strategies for enhanced performance of anode materials in Na <sup>+</sup> /K <sup>+</sup> -ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 7317-7335	13	19
132	High-efficiency nitrate electroreduction to ammonia on electrodeposited cobalt-phosphorus alloy film. <i>Chemical Communications</i> , <b>2021</b> , 57, 9720-9723	5.8	19
131	An amorphous WC thin film enabled high-efficiency N reduction electrocatalysis under ambient conditions. <i>Chemical Communications</i> , <b>2021</b> , 57, 7806-7809	5.8	19
130	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> , <b>2021</b> , 13, 11069-11076	7.7	19
129	Highly efficient and durable water oxidation in a near-neutral carbonate electrolyte electrocatalyzed by a core-shell structured NiO@NiTi nanosheet array. <i>Sustainable Energy and Fuels</i> , <b>2017</b> , 1, 1287-1291	5.8	18
128	Porous NiTe <sub>2</sub> nanosheet array: An effective electrochemical sensor for glucose detection. <i>Sensors and Actuators B: Chemical</i> , <b>2018</b> , 274, 427-432	8.5	18
127	Ni nanoparticles-graphene hybrid film: one-step electrodeposition preparation and application as highly efficient oxygen evolution reaction electrocatalyst. <i>Journal of Applied Electrochemistry</i> , <b>2014</b> , 44, 1165-1170	2.6	18
126	Fluorescence resonance energy transfer dye-labeled probe for fluorescence-enhanced DNA detection: an effective strategy to greatly improve discrimination ability toward single-base mismatch. <i>Biosensors and Bioelectronics</i> , <b>2011</b> , 27, 167-71	11.8	18
125	Electrostatic-assembly-driven formation of supramolecular rhombus microparticles and their application for fluorescent nucleic acid detection. <i>PLoS ONE</i> , <b>2011</b> , 6, e18958	3.7	18
124	MnO <sub>2</sub> nanoarray with oxygen vacancies: An efficient catalyst for NO electroreduction to NH <sub>3</sub> at ambient conditions. <i>Materials Today Physics</i> , <b>2021</b> , 22, 100586	8	18
123	Improving the intrinsic electronic conductivity of NiMoO <sub>4</sub> anodes by phosphorous doping for high lithium storage. <i>Nano Research</i> , <b>2022</b> , 15, 186	10	18
122	Modulating Oxygen Vacancies of TiO <sub>2</sub> Nanospheres by Mn-Doping to Boost Electrocatalytic N <sub>2</sub> Reduction. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2021</b> , 9, 1512-1517	8.3	18
121	Cobalt phosphide nanowall arrays supported on carbon cloth: an efficient monolithic non-noble-metal hydrogen evolution catalyst. <i>Nanotechnology</i> , <b>2016</b> , 27, 475702	3.4	17
120	BCNO nanoparticles: A novel highly efficient fluorosensor for ultrarapid detection of Cu <sup>2+</sup> . <i>Sensors and Actuators B: Chemical</i> , <b>2014</b> , 194, 492-497	8.5	17
119	Anion-exchange synthesis of a nanoporous crystalline CoBO nanowire array for high-performance water oxidation electrocatalysis in borate solution. <i>Nanoscale</i> , <b>2017</b> , 9, 12343-12347	7.7	17
118	Self-standing cobalt oxide nanosheet array: An monolithic catalyst for effective hydrolysis of NaBH <sub>4</sub> in alkaline media. <i>International Journal of Hydrogen Energy</i> , <b>2017</b> , 42, 30639-30645	6.7	17
117	Mesoporous carbon microparticles as a novel fluorescent sensing platform for thrombin detection. <i>Biosensors and Bioelectronics</i> , <b>2011</b> , 26, 3876-80	11.8	17

116	In situ grown Fe <sub>3</sub> O <sub>4</sub> particle on stainless steel: A highly efficient electrocatalyst for nitrate reduction to ammonia. <i>Nano Research</i> , 1	10	17
115	Plasma-induced defective TiO <sub>2-x</sub> with oxygen vacancies: A high-active and robust bifunctional catalyst toward H <sub>2</sub> O <sub>2</sub> electrosynthesis. <i>Chem Catalysis</i> , 2021,		17
114	Electrochemical Synthesis of Ammonia Based on a Perovskite LaCrO <sub>3</sub> Catalyst. <i>ChemCatChem</i> , 2020 , 12, 731-735	5.2	17
113	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
112	Synthesis of a MnO <sub>2</sub> Nanosheet/Graphene Flake Composite and Its Application as a Supercapacitor having High Rate Capability. <i>ChemPlusChem</i> , 2012, 77, 872-876	2.8	16
111	Enhanced electrocatalytic N-to-NH fixation by ZrS nanofibers with a sulfur vacancy. <i>Chemical Communications</i> , 2020, 56, 14031-14034	5.8	16
110	Facile synthesis of MWCNTs/Ag <sub>3</sub> PO <sub>4</sub> : novel photocatalysts with enhanced photocatalytic activity under visible light. <i>Journal of Nanoparticle Research</i> , 2013, 15, 1	2.3	15
109	Single-Stranded DNA-Mediated Immobilization of Graphene on a Gold Electrode for Sensitive and Selective Determination of Dopamine. <i>ChemPlusChem</i> , 2012, 77, 19-22	2.8	15
108	Poly(2,3-diaminonaphthalene) microspheres as a novel quencher for fluorescence-enhanced nucleic acid detection. <i>Analyst, The</i> , 2011, 136, 2221-4	5	15
107	Enhanced Electrochemical N <sub>2</sub> Reduction to NH <sub>3</sub> on Reduced Graphene Oxide by Tannic Acid Modification. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 14368-14372	8.3	14
106	A MoN nanosheet array supported on carbon cloth as an efficient electrochemical sensor for nitrite detection. <i>Analyst, The</i> , 2019, 144, 5378-5380	5	14
105	Tetracyanoquinodimethane nanoparticles as an effective sensing platform for fluorescent nucleic acid detection. <i>Analytical Methods</i> , 2011, 3, 1051	3.2	14
104	High-performance NH production NO electroreduction over a NiO nanosheet array. <i>Chemical Communications</i> , 2021,	5.8	14
103	Highly Selective Electrochemical Reduction of CO <sub>2</sub> to Alcohols on an FeP Nanoarray. <i>Angewandte Chemie</i> , 2020, 132, 768-772	3.6	14
102	Greatly Facilitated Two-Electron Electroreduction of Oxygen into Hydrogen Peroxide over TiO by Mn Doping. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 46659-46664	9.5	14
101	La-doped TiO <sub>2</sub> nanorods toward boosted electrocatalytic N <sub>2</sub> -to-NH <sub>3</sub> conversion at ambient conditions. <i>Chinese Journal of Catalysis</i> , 2021, 42, 1755-1762	11.3	14
100	Self-supported spinel FeCoO nanowire array: an efficient non-noble-metal catalyst for the hydrolysis of NaBH toward on-demand hydrogen generation. <i>Nanotechnology</i> , 2016, 27, 46LT03	3.4	13
99	Rectangular coordination polymer nanoplates: large-scale, rapid synthesis and their application as a fluorescent sensing platform for DNA detection. <i>PLoS ONE</i> , 2012, 7, e30426	3.7	13

98	Fluorescence-enhanced potassium ions detection based on inherent quenching ability of deoxyguanosines and K(+)-induced conformational transition of G-rich ssDNA from duplex to G-quadruplex structures. <i>Journal of Fluorescence</i> , <b>2011</b> , 21, 1841-6	2.4	13
97	Electrodepositing ultra-thin Ni(OH) <sub>2</sub> amorphous film on Ni <sub>2</sub> P nanosheets array: an efficient strategy toward greatly enhanced alkaline hydrogen evolution reaction. <i>New Journal of Chemistry</i> , <b>2018</b> , 42, 11285-11288	3.6	13
96	Electrochemical nitrogen reduction: recent progress and prospects. <i>Chemical Communications</i> , <b>2021</b> , 57, 7335-7349	5.8	13
95	Amorphous Boron Carbide on Titanium Dioxide Nanobelt Arrays for High-Efficiency Electrocatalytic NO Reduction to NH <sub>3</sub> . <i>Angewandte Chemie - International Edition</i> , <b>2022</b> ,	16.4	13
94	Morphology and size-controllable preparation of silver nanostructures through a wet-chemical route at room temperature. <i>Inorganic Materials</i> , <b>2010</b> , 46, 679-682	0.9	12
93	Bi nanodendrites for highly efficient electrocatalytic NO reduction to NH <sub>3</sub> at ambient conditions. <i>Materials Today Physics</i> , <b>2022</b> , 22, 100611	8	12
92	A MnS/FeS <sub>2</sub> 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> , <b>2021</b> , 9, 24024-24035	13	12
91	Honeycomb Carbon Nanofibers: A Superhydrophilic O <sub>2</sub> -Entrapping Electrocatalyst Enables Ultrahigh Mass Activity for the Two-Electron Oxygen Reduction Reaction. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 10677-10681	3.6	12
90	Cobalt phosphide nanowall array as an efficient 3D catalyst electrode for methanol electro-oxidation. <i>Nanotechnology</i> , <b>2016</b> , 27, 44LT02	3.4	12
89	Self-supported Cu(OH) <sub>2</sub> @CoCO(OH) core-shell nanowire array as a robust catalyst for ammonia-borane hydrolysis. <i>Nanotechnology</i> , <b>2017</b> , 28, 045606	3.4	11
88	Nanoporous molybdenum carbide nanowires: a novel sensing platform for DNA detection. <i>Journal of Materials Chemistry B</i> , <b>2015</b> , 3, 7173-7176	7.3	11
87	FeNiN nanosheet array: an efficient non-noble-metal electrocatalyst for non-enzymatic glucose sensing. <i>Nanotechnology</i> , <b>2017</b> , 28, 365503	3.4	11
86	High-efficiency ammonia electrosynthesis via selective reduction of nitrate on ZnCo <sub>2</sub> O <sub>4</sub> nanosheet array. <i>Materials Today Physics</i> , <b>2022</b> , 23, 100619	8	11
85	Co-MOF Nanosheet Arrays for Efficient Alkaline Oxygen Evolution Electrocatalysis. <i>ChemNanoMat</i> , <b>2021</b> , 7, 906-909	3.5	11
84	Ambient electrochemical N reduction to NH <sub>3</sub> under alkaline conditions enabled by a layered KTiO nanobelt. <i>Chemical Communications</i> , <b>2019</b> , 55, 7546-7549	5.8	10
83	Polypyrrole colloidal nanospheres as an effective fluorescent sensing platform for DNA detection. <i>Synthetic Metals</i> , <b>2011</b> , 161, 1766-1770	3.6	10
82	A comparative study of electrocatalytic oxidation of glucose on conductive Ni-MOF nanosheet arrays with different ligands. <i>New Journal of Chemistry</i> , <b>2020</b> , 44, 17849-17853	3.6	10
81	Self-supported cobalt phosphate nanoarray with pseudocapacitive behavior: An efficient 3D anode material for sodium-ion batteries. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 848, 156285	5.7	10

80	3D shell-core structured NiCu-OH@Cu(OH) <sub>2</sub> nanorod: A high-performance catalytic electrode for non-enzymatic glucose detection. <i>Journal of Electroanalytical Chemistry</i> , <b>2020</b> , 876, 114477	4.1	10
79	2D Vanadium Carbide (MXene) for Electrochemical Synthesis of Ammonia Under Ambient Conditions. <i>Catalysis Letters</i> , <b>2021</b> , 151, 3516	2.8	10
78	Carbon nanobelts as a novel sensing platform for fluorescence-enhanced DNA detection. <i>Analyst, The</i> , <b>2014</b> , 139, 2318-21	5	9
77	High-efficiency ammonia electrosynthesis on self-supported Co <sub>2</sub> AlO <sub>4</sub> nanoarray in neutral media by selective reduction of nitrate. <i>Chemical Engineering Journal</i> , <b>2022</b> , 435, 135104	14.7	9
76	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> , <b>2021</b> , 9, 27615-27628	13	9
75	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> , <b>2021</b> , 9, 20345-20349	13	9
74	CoTe nanoparticle-embedded N-doped hollow carbon polyhedron: an efficient catalyst for H <sub>2</sub> O <sub>2</sub> electrosynthesis in acidic media. <i>Journal of Materials Chemistry A</i> ,	13	9
73	Self-supported NiS@NiP/MoS heterostructures on nickel foam for an outstanding oxygen evolution reaction and efficient overall water splitting. <i>Dalton Transactions</i> , <b>2021</b> , 50, 15094-15102	4.3	9
72	Reduced graphene oxide supported ZIF-67 derived CoP enables high-performance potassium ion storage. <i>Journal of Colloid and Interface Science</i> , <b>2021</b> , 604, 319-326	9.3	9
71	Ambient electrochemical N <sub>2</sub> -to-NH <sub>3</sub> conversion catalyzed by TiO <sub>2</sub> decorated juncus effusus-derived carbon microtubes. <i>Inorganic Chemistry Frontiers</i> , <b>2022</b> , 9, 1514-1519	6.8	9
70	Replacing oxygen evolution with sodium sulfide electro-oxidation toward energy-efficient electrochemical hydrogen production: Using cobalt phosphide nanoarray as a bifunctional catalyst. <i>International Journal of Hydrogen Energy</i> , <b>2017</b> , 42, 26289-26295	6.7	8
69	Structured Polyaniline: An Efficient and Durable Electrocatalyst for the Nitrogen Reduction Reaction in Acidic Media. <i>ChemElectroChem</i> , <b>2019</b> , 6, 2215-2218	4.3	8
68	Bamboo-like nitrogen-doped carbon nanotubes toward fluorescence recovery assay for DNA detection. <i>Sensors and Actuators B: Chemical</i> , <b>2015</b> , 206, 37-42	8.5	8
67	High-Performance Electrochemical NO Reduction into NH <sub>3</sub> by MoS <sub>2</sub> Nanosheet. <i>Angewandte Chemie</i> ,	3.6	8
66	Coralloid Au enables high-performance Zn  O <sub>2</sub> battery and self-driven CO production. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 21024-21031	13	8
65	Ni foam-supported NiCoP nanosheets as bifunctional electrocatalysts for efficient overall water splitting. <i>Chinese Journal of Catalysis</i> , <b>2019</b> , 40, 1405-1407	11.3	7
64	Oxidation-etching induced morphology regulation of Cu catalysts for high-performance electrochemical N <sub>2</sub> reduction. <i>EcoMat</i> , <b>2020</b> , 2, e12026	9.4	7
63	Analysis of electromagnetic pulses generation from laser coupling with polymer targets: Effect of metal content in target. <i>Matter and Radiation at Extremes</i> , <b>2020</b> , 5, 017401	4.7	7

62	Synthesis and characterization of CuInS <sub>2</sub> nanoflowers. <i>Colloid Journal</i> , <b>2010</b> , 72, 282-285	1.1	7
61	Efficient nitric oxide electroreduction toward ambient ammonia synthesis catalyzed by a CoP nanoarray. <i>Inorganic Chemistry Frontiers</i> ,	6.8	7
60	Electrochemical two-electron O <sub>2</sub> reduction reaction toward H <sub>2</sub> O <sub>2</sub> production: using cobalt porphyrin decorated carbon nanotubes as a nanohybrid catalyst. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 26019-26027	13	7
59	Magnetron sputtering enabled synthesis of nanostructured materials for electrochemical energy storage. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 20260-20285	13	7
58	Directionally Tailoring Macroporous Honeycomb-Like Structured Carbon Nanofibers toward High-Capacitive Potassium Storage. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 30693-30702	9.5	7
57	Hexagonal boron nitride nanosheet as an effective nanoquencher for the fluorescence detection of microRNA. <i>Chemical Communications</i> , <b>2021</b> , 57, 8039-8042	5.8	7
56	Conductive Two-Dimensional Magnesium Metal-Organic Frameworks for High-Efficiency O <sub>2</sub> Electroreduction to H <sub>2</sub> O <sub>2</sub> . <i>ACS Catalysis</i> , 6092-6099	13.1	7
55	Detection of single-stranded nucleic acids by hybridization of probe oligonucleotides on polystyrene nanospheres and subsequent release and recovery of fluorescence. <i>RSC Advances</i> , <b>2011</b> , 1, 1318	3.7	6
54	Formation of [Ru(bpy) <sub>3</sub> ] <sup>2+</sup> -containing microstructures induced by electrostatic assembly and their application in solid-state detection of electrochemiluminescence. <i>Chemistry - an Asian Journal</i> , <b>2007</b> , 2, 1137-41	4.5	6
53	Biomass Juncus derived carbon decorated with cobalt nanoparticles enables high-efficiency ammonia electrosynthesis by nitrite reduction. <i>Journal of Materials Chemistry A</i> , <b>2022</b> , 10, 2842-2848	13	6
52	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</i> , <b>2021</b> , 145, 8097-8103	5	6
51	Iron-Doped MoO Nanosheets for Boosting Nitrogen Fixation to Ammonia at Ambient Conditions. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 7142-7151	9.5	6
50	Nanowire of WP as a High-Performance Anode Material for Sodium-Ion Batteries. <i>Chemistry - A European Journal</i> , <b>2019</b> , 25, 971-975	4.8	6
49	A Cr-FeOOH@Ni-P/NF binder-free electrode as an excellent oxygen evolution reaction electrocatalyst. <i>Nanoscale</i> , <b>2021</b> , 13, 17003-17010	7.7	6
48	Ni(OH) <sub>2</sub> nanoparticles encapsulated in conductive nanowire array for high-performance alkaline seawater oxidation. <i>Nano Research</i> , 1	10	6
47	SnO <sub>2</sub> nanorod: An efficient non-noble-metal electrocatalyst for non-enzymatic H <sub>2</sub> O <sub>2</sub> sensing. <i>Materials Research Express</i> , <b>2019</b> , 6, 065055	1.7	5
46	Temperature control strategy for polymer electrolyte fuel cells. <i>International Journal of Energy Research</i> , <b>2020</b> , 44, 4352-4365	4.5	5
45	Carbon nanoparticles-induced formation of polyaniline nanofibers and their subsequent decoration with Ag nanoparticles for nonenzymatic H <sub>2</sub> O <sub>2</sub> detection. <i>Russian Journal of Electrochemistry</i> , <b>2014</b> , 50, 95-99	1.2	5



44	Boosting electrochemical nitrite-ammonia conversion properties by a Cu foam@CuO catalyst.. <i>Chemical Communications</i> , <b>2021</b> ,	5.8	5
43	Iron-doped cobalt oxide nanoarray for efficient electrocatalytic nitrate-to-ammonia conversion.. <i>Journal of Colloid and Interface Science</i> , <b>2022</b> , 615, 636-642	9.3	5
42	Polyrrole-encapsulated Cu <sub>2</sub> Se nanosheets in situ grown on Cu mesh for high stability sodium-ion battery anode. <i>Chemical Engineering Journal</i> , <b>2022</b> , 433, 134477	14.7	5
41	Zinc doped Fe <sub>2</sub> O <sub>3</sub> for boosting Electrocatalytic Nitrogen Fixation to ammonia under mild conditions. <i>International Journal of Hydrogen Energy</i> , <b>2021</b> , 46, 14331-14337	6.7	5
40	One-Step Preparation of Cobalt-Nanoparticle-Embedded Carbon for Effective Water Oxidation Electrocatalysis. <i>ChemElectroChem</i> , <b>2019</b> , 6, 1996-1999	4.3	5
39	Highly Efficient Na <sup>+</sup> Storage in Uniform Thorn Ball-Like MnSe/C Nanospheres. <i>Acta Metallurgica Sinica (English Letters)</i> , <b>2021</b> , 34, 373-382	2.5	5
38	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> , <b>2020</b> , 10, 19419-19424	3.7	4
37	Polyacetylene nanoparticles-based preparation of polyaniline nanofibers. <i>Journal of Nanoparticle Research</i> , <b>2011</b> , 13, 471-477	2.3	4
36	Recent advances in MoS <sub>2</sub> -based materials for electrocatalysis.. <i>Chemical Communications</i> , <b>2022</b> ,	5.8	4
35	Biomimetic Assembly of a Polydopamine Layer on Graphene as an Electron Gate for Fluorescent MicroRNA Detection in Living Cells. <i>ChemBioChem</i> , <b>2020</b> , 21, 801-806	3.8	4
34	Progress in the use of electrospun nanofiber electrodes for solid oxide fuel cells: a review. <i>Reviews in Chemical Engineering</i> , <b>2020</b> , 36, 879-931	5	4
33	Analysis of Thermal Stress in a Solid Oxide Fuel Cell Due to the Sulfur Poisoning Interface of the Electrolyte and Cathode. <i>Energy &amp; Fuels</i> , <b>2021</b> , 35, 2674-2682	4.1	4
32	A TiO <sub>2</sub> nanobelt array with oxygen vacancies: an efficient electrocatalyst toward nitrite conversion to ammonia.. <i>Chemical Communications</i> , <b>2022</b> ,	5.8	4
31	Coupling denitrification and ammonia synthesis via selective electrochemical reduction of nitric oxide over Fe <sub>2</sub> O <sub>3</sub> nanorods. <i>Journal of Materials Chemistry A</i> , <b>2022</b> , 10, 6454-6462	13	4
30	FeP nanorod array: A high-efficiency catalyst for electroreduction of NO to NH <sub>3</sub> under ambient conditions. <i>Nano Research</i> , 1	10	4
29	Nitrite reduction over Ag nanoarray electrocatalyst for ammonia synthesis. <i>Journal of Colloid and Interface Science</i> , <b>2022</b> ,	9.3	4
28	Enhancing electromagnetic radiations by a pre-ablation laser during laser interaction with solid target. <i>Physics of Plasmas</i> , <b>2020</b> , 27, 032705	2.1	3
27	Microwave-assisted one-pot synthesis of Ag NPs/C and its application in H <sub>2</sub> O <sub>2</sub> and glucose detection. <i>Chemical Research in Chinese Universities</i> , <b>2016</b> , 32, 433-436	2.2	3

26	A novel single fluorophore-labeled double-stranded oligonucleotide probe for fluorescence-enhanced nucleic acid detection based on the inherent quenching ability of deoxyguanosine bases and competitive strand-displacement reaction. <i>Journal of Fluorescence</i> , <b>2012</b> , 22, 43-6	2.4	3
25	Preparation of graphene platelet-Ru(phen) 2+3 assemblies and their application in electrochemiluminescence detection. <i>Russian Journal of Electrochemistry</i> , <b>2013</b> , 49, 1092-1096	1.2	3
24	Highly efficient two-electron electroreduction of oxygen into hydrogen peroxide over Cu-doped TiO <sub>2</sub> . <i>Nano Research</i> , 1	10	3
23	Ag@TiO <sub>2</sub> as an Efficient Electrocatalyst for N <sub>2</sub> Fixation to NH <sub>3</sub> under Ambient Conditions. <i>ChemistrySelect</i> , <b>2021</b> , 6, 5271-5274	1.8	3
22	In Situ Formation of a 3D Amorphous Cobalt- Borate Nanoarray: An Efficient Non-Noble Metal Catalytic Electrode for Non-Enzyme Glucose Detection. <i>ChemistrySelect</i> , <b>2018</b> , 3, 10580-10584	1.8	3
21	Bi nanoparticles/carbon nanosheet composite: A high-efficiency electrocatalyst for NO reduction to NH <sub>3</sub> . <i>Nano Research</i> , 1	10	3
20	Application of 3,4,9,10-perylenetetracarboxylic diimide microfibers as a fluorescent sensing platform for biomolecular detection. <i>Analytica Chimica Acta</i> , <b>2011</b> , 702, 109-13	6.6	2
19	2,4,6-Tris (2-pyridyl)-1,3,5-triazine nanobelts as an effective fluorescent sensing platform for DNA detection. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2012</b> , 12, 2089-93	1.3	2
18	In Situ Derived Bi Nanoparticles Confined in Carbon Rods as an Efficient Electrocatalyst for Ambient N Reduction to NH. <i>Inorganic Chemistry</i> , <b>2021</b> , 60, 7584-7589	5.1	2
17	Numerical simulation of solid oxide fuel cells comparing different electrochemical kinetics. <i>International Journal of Energy Research</i> , <b>2021</b> , 45, 12980-12995	4.5	2
16	Monodisperse Cu Cluster-Loaded Defective ZrO Nanofibers for Ambient N Fixation to NH. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 40724-40730	9.5	2
15	High-efficiency NO electroreduction to NH over honeycomb carbon nanofiber at ambient conditions.. <i>Journal of Colloid and Interface Science</i> , <b>2022</b> , 616, 261-267	9.3	2
14	Cu nanoparticles decorated juncus-derived carbon for efficient electrocatalytic nitrite-to-ammonia conversion. <i>Journal of Colloid and Interface Science</i> , <b>2022</b> , 624, 394-399	9.3	2
13	Supramolecular microrods can be prepared by mixing aqueous Ru(NH <sub>3</sub> ) <sub>6</sub> Cl <sub>3</sub> and K <sub>3</sub> Fe(CN) <sub>6</sub> solutions at room temperature. <i>Colloid Journal</i> , <b>2010</b> , 72, 141-144	1.1	1
12	Electrocatalysis enabled transformation of earth-abundant water, nitrogen and carbon dioxide for a sustainable future. <i>Materials Advances</i> ,	3.3	1
11	Electrocatalytic H <sub>2</sub> O <sub>2</sub> production via two-electron O <sub>2</sub> reduction by Mo-doped TiO <sub>2</sub> nanocrystallines. <i>Catalysis Science and Technology</i> , <b>2021</b> , 11, 6970-6974	5.5	1
10	Facile electrochemical fabrication of magnetic Fe <sub>3</sub> O <sub>4</sub> for electrocatalytic synthesis of ammonia used for hydrogen storage application. <i>International Journal of Hydrogen Energy</i> , <b>2021</b> , 46, 24128-24134	6.7	1
9	Performance experimental data of a polymer electrolyte fuel cell considering the variation of the relative humidity of reactants gases. <i>Data in Brief</i> , <b>2019</b> , 27, 104727	1.2	1

8	Co-NCNT nanohybrid as a highly active catalyst for the electroreduction of nitrate to ammonia.. <i>Chemical Communications</i> , <b>2022</b> ,	5.8	1
7	Fe-nitrilotriacetic acid coordination polymer nanowires: an effective sensing platform for fluorescence-enhanced nucleic acid detection. <i>Nanotechnology</i> , <b>2017</b> , 28, 075101	3.4	0
6	Solution self-assembly-based route towards hexagonal microdisks at room temperature. <i>Inorganic Materials</i> , <b>2010</b> , 46, 472-475	0.9	0
5	Constructing hydrogen-bonding microenvironment for boosting CO <sub>2</sub> to CH <sub>4</sub> . <i>Chem Catalysis</i> , <b>2021</b> , 1, 974-976		0
4	Computational simulation data using the Lattice Boltzmann method to generate correlations for gas diffusion layer parameters. <i>Data in Brief</i> , <b>2019</b> , 27, 104688	1.2	0
3	7,7,8,8-tetracyanoquinodimethane microsheets for hydrogen peroxide reduction. <i>Russian Journal of Electrochemistry</i> , <b>2013</b> , 49, 1097-1100	1.2	
2	Electrodeposition-based controllable fabrication of novel Pd nanotextured microelectrodes. <i>Russian Journal of Electrochemistry</i> , <b>2012</b> , 48, 1135-1139	1.2	
1	Nanotextured Au microelectrodes: Electrodeposition-based fabrication and their cyclic voltammograms study. <i>Russian Journal of Electrochemistry</i> , <b>2012</b> , 48, 89-92	1.2	