

You Xu

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174
papers

6,927
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40
h-index

79
g-index

191
ext. papers

8,659
ext. citations

9.9
avg, IF

6.61
L-index

#	Paper	IF	Citations
174	Nickel Nanoparticles Encapsulated in Few-Layer Nitrogen-Doped Graphene Derived from Metal-Organic Frameworks as Efficient Bifunctional Electrocatalysts for Overall Water Splitting. <i>Advanced Materials</i> , 2017 , 29, 1605957	24	421
173	Metal-free carbonaceous electrocatalysts and photocatalysts for water splitting. <i>Chemical Society Reviews</i> , 2016 , 45, 3039-52	58.5	419
172	Recent advances in porous Pt-based nanostructures: synthesis and electrochemical applications. <i>Chemical Society Reviews</i> , 2014 , 43, 2439-50	58.5	392
171	Anion-exchange synthesis of nanoporous FeP nanosheets as electrocatalysts for hydrogen evolution reaction. <i>Chemical Communications</i> , 2013 , 49, 6656-8	5.8	388
170	Synthesis of ultrathin CdS nanosheets as efficient visible-light-driven water splitting photocatalysts for hydrogen evolution. <i>Chemical Communications</i> , 2013 , 49, 9803-5	5.8	264
169	Investigating the Role of Tunable Nitrogen Vacancies in Graphitic Carbon Nitride Nanosheets for Efficient Visible-Light-Driven H ₂ Evolution and CO ₂ Reduction. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 7260-7268	8.3	224
168	Metal-free photocatalysts for various applications in energy conversion and environmental purification. <i>Green Chemistry</i> , 2017 , 19, 882-899	10	212
167	Ni ₂ P nanosheets/Ni foam composite electrode for long-lived and pH-tolerable electrochemical hydrogen generation. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 2376-84	9.5	195
166	Nickel-based cocatalysts for photocatalytic hydrogen production. <i>Applied Surface Science</i> , 2015 , 351, 779-793	6.7	174
165	Hierarchical nanosheet-based MoS ₂ nanotubes fabricated by an anion-exchange reaction of MoO ₃ -amine hybrid nanowires. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 8602-6	16.4	166
164	Cu ₂ O Nanocrystals: Surfactant-Free Room-Temperature Morphology-Modulated Synthesis and Shape-Dependent Heterogeneous Organic Catalytic Activities. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 15288-15296	3.8	140
163	Ambient Electrochemical Synthesis of Ammonia from Nitrogen and Water Catalyzed by Flower-Like Gold Microstructures. <i>ChemSusChem</i> , 2018 , 11, 3480-3485	8.3	139
162	Low-ruthenium-content NiRu nanoalloys encapsulated in nitrogen-doped carbon as highly efficient and pH-universal electrocatalysts for the hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 1376-1381	13	129
161	A spongy nickel-organic CO reduction photocatalyst for nearly 100% selective CO production. <i>Science Advances</i> , 2017 , 3, e1700921	14.3	124
160	Rational design of semiconductor-based photocatalysts for advanced photocatalytic hydrogen production: the case of cadmium chalcogenides. <i>Inorganic Chemistry Frontiers</i> , 2016 , 3, 591-615	6.8	119
159	Electrochemical Fabrication of Porous Au Film on Ni Foam for Nitrogen Reduction to Ammonia. <i>Small</i> , 2019 , 15, e1804769	11	109
158	One-pot synthesis of bi-metallic PdRu tripods as an efficient catalyst for electrocatalytic nitrogen reduction to ammonia. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 801-805	13	106

157	Synthesis of hollow Cd(x)Zn(1-x) Se nanoframes through the selective cation exchange of inorganic-organic hybrid ZnSe-amine nanoflakes with cadmium ions. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 3211-5	16.4	102
156	Coupled Cu(II)-EDTA degradation and Cu(II) removal from acidic wastewater by ozonation: Performance, products and pathways. <i>Chemical Engineering Journal</i> , 2016 , 299, 23-29	14.7	100
155	Recent Advances in Electrochemical Hydrogen Production from Water Assisted by Alternative Oxidation Reactions. <i>ChemElectroChem</i> , 2019 , 6, 3214-3226	4.3	97
154	Direct fabrication of tri-metallic PtPdCu tripods with branched exteriors for the oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 8662-8668	13	96
153	Facile synthesis of 3D Pd-P nanoparticle networks with enhanced electrocatalytic performance towards formic acid electrooxidation. <i>Chemical Communications</i> , 2014 , 50, 13451-3	5.8	82
152	Rational Design of Catalytic Centers in Crystalline Frameworks. <i>Advanced Materials</i> , 2018 , 30, e1707582	24	70
151	Facile one-step room-temperature synthesis of Pt ₃ Ni nanoparticle networks with improved electro-catalytic properties. <i>Chemical Communications</i> , 2012 , 48, 2665-7	5.8	70
150	Ambient Nitrogen Reduction to Ammonia Electrocatalyzed by Bimetallic PdRu Porous Nanostructures. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 2400-2405	8.3	65
149	Hierarchical Nanosheet-Based MoS ₂ Nanotubes Fabricated by an Anion-Exchange Reaction of MoO ₃ ·xH ₂ O/Amine Hybrid Nanowires. <i>Angewandte Chemie</i> , 2013 , 125, 8764-8768	3.6	64
148	One-step fabrication of tri-metallic PdCuAu nanothorn assemblies as an efficient catalyst for oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 3642-3648	13	61
147	Defect-Rich Porous Palladium Metallene for Enhanced Alkaline Oxygen Reduction Electrocatalysis. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 12027-12031	16.4	58
146	Hydrogen production on a hybrid photocatalytic system composed of ultrathin CdS nanosheets and a molecular nickel complex. <i>Chemistry - A European Journal</i> , 2015 , 21, 4571-5	4.8	55
145	Fabrication of Mesoporous Cage-Bell Pt Nanoarchitectonics as Efficient Catalyst for Oxygen Reduction Reaction. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 11768-11774	8.3	53
144	Ir-Doped Ni-based metal-organic framework ultrathin nanosheets on Ni foam for enhanced urea electro-oxidation. <i>Chemical Communications</i> , 2020 , 56, 2151-2154	5.8	53
143	Direct fabrication of bi-metallic PdRu nanorod assemblies for electrochemical ammonia synthesis. <i>Nanoscale</i> , 2019 , 11, 5499-5505	7.7	48
142	Trimetallic PtPdNi-Truncated Octahedral Nanocages with a Well-Defined Mesoporous Surface for Enhanced Oxygen Reduction Electrocatalysis. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 4252-4257	9.5	48
141	Bimetallic Ag ₃ Cu porous networks for ambient electrolysis of nitrogen to ammonia. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 12526-12531	13	44
140	PtNi nanocages with surface porosity as efficient bifunctional electrocatalysts for oxygen reduction and methanol oxidation. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 9791-9797	13	44

139	Ultrathin-nanosheet-based 3D hierarchical porous In ₂ S ₃ microspheres: chemical transformation synthesis, characterization, and enhanced photocatalytic and photoelectrochemical property. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 1930-1934	13	43
138	Boron-doped silver nanosponges with enhanced performance towards electrocatalytic nitrogen reduction to ammonia. <i>Chemical Communications</i> , 2019 , 55, 14745-14748	5.8	42
137	Metal-organic frameworks-derived Ru-doped Co ₂ P/N-doped carbon composite nanosheet arrays as bifunctional electrocatalysts for hydrogen evolution and urea oxidation. <i>Chemical Engineering Journal</i> , 2021 , 408, 127308	14.7	42
136	Electrocatalytic Nitrogen Reduction to Ammonia by Fe ₂ O ₃ Nanorod Array on Carbon Cloth. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 11754-11759	8.3	41
135	Mesoporous AuPd Film on Ni Foam: A Self-Supported Electrocatalyst for Efficient Synthesis of Ammonia. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 436-442	9.5	41
134	In situ coating of a continuous mesoporous bimetallic PtRu film on Ni foam: a nanoarchitected self-standing all-metal mesoporous electrode. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 12744-12750	13	40
133	Conversion of Sb ₂ Te ₃ hexagonal nanoplates into three-dimensional porous single-crystal-like network-structured Te plates using oxygen and tartaric acid. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 1459-63	16.4	39
132	Composition-tunable Pt-Co alloy nanoparticle networks: facile room-temperature synthesis and supportless electrocatalytic applications. <i>ChemPhysChem</i> , 2012 , 13, 2601-9	3.2	39
131	Hierarchical ultrathin-branched CdS nanowire arrays with enhanced photocatalytic performance. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 19507-19516	13	38
130	Evolution of hydrogen by few-layered black phosphorus under visible illumination. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 24874-24879	13	37
129	PtM (M = Co, Ni) Mesoporous Nanotubes as Bifunctional Electrocatalysts for Oxygen Reduction and Methanol Oxidation. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 7960-7968	8.3	37
128	Efficient removal of EDTA-complexed Cu(II) by a combined Fe(III)/UV/alkaline precipitation process: Performance and role of Fe(II). <i>Chemosphere</i> , 2018 , 193, 1235-1242	8.4	37
127	Direct synthesis of superlong Pt Te mesoporous nanotubes for electrocatalytic oxygen reduction. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 1711-1717	13	36
126	Hydrogen photogeneration from water on the biomimetic hybrid artificial photocatalytic systems of semiconductors and earth-abundant metal complexes: progress and challenges. <i>Catalysis Science and Technology</i> , 2015 , 5, 3084-3096	5.5	36
125	One-step synthesis of three-dimensional Pd polyhedron networks with enhanced electrocatalytic performance. <i>Chemical Communications</i> , 2012 , 48, 3881-3	5.8	36
124	Mesoporous Ce-Ti-Zr ternary oxide microspheres for efficient catalytic ozonation in bubble column. <i>Chemical Engineering Journal</i> , 2018 , 338, 261-270	14.7	35
123	Trimetallic PdCuIr with long-spined sea-urchin-like morphology for ambient electroreduction of nitrogen to ammonia. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 3190-3196	13	34
122	Metal-on-metal nanoarchitectures: quaternary PtPdNiP mesoporous nanospheres for enhanced oxygen reduction electrocatalysis. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 3910-3916	13	33

121	Three-dimensional Pd-Ag-S porous nanosponges for electrocatalytic nitrogen reduction to ammonia. <i>Nanoscale</i> , 2020 , 12, 13507-13512	7.7	32
120	Photothermally assisted photocatalytic conversion of CO ₂ H ₂ O into fuels over a WNWO ₃ Z-scheme heterostructure. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 1077-1083	13	30
119	Concave-convex surface oxide layers over copper nanowires boost electrochemical nitrate-to-ammonia conversion. <i>Chemical Engineering Journal</i> , 2021 , 426, 130759	14.7	30
118	Metal/Nonmetal One-Dimensional Electrocatalyst: AuPdP Nanowires for Ambient Nitrogen Reduction to Ammonia. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 15772-15777	8.3	29
117	Engineering bunched RhTe nanochains for efficient methanol oxidation electrocatalysis. <i>Chemical Communications</i> , 2020 , 56, 13595-13598	5.8	29
116	Prussian Blue-Derived Iron Phosphide Nanoparticles in a Porous Graphene Aerogel as Efficient Electrocatalyst for Hydrogen Evolution Reaction. <i>Chemistry - an Asian Journal</i> , 2018 , 13, 679-685	4.5	28
115	A mesoporous Au film with surface sulfur modification for efficient ammonia electrosynthesis. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 20414-20419	13	27
114	Ultrathin nitrogen-doped graphitized carbon shell encapsulating CoRu bimetallic nanoparticles for enhanced electrocatalytic hydrogen evolution. <i>Nanotechnology</i> , 2018 , 29, 225403	3.4	26
113	In-situ photo-reducing graphene oxide to create Zn _{0.5} Cd _{0.5} S porous nanosheets/RGO composites as highly stable and efficient photoelectrocatalysts for visible-light-driven water splitting. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 702-710	6.7	26
112	Direct synthesis of bimetallic PtCo mesoporous nanospheres as efficient bifunctional electrocatalysts for both oxygen reduction reaction and methanol oxidation reaction. <i>Nanotechnology</i> , 2018 , 29, 175403	3.4	25
111	Phosphorus-triggered modification of the electronic structure and surface properties of Pd ₄ S nanowires for robust hydrogen evolution electrocatalysis. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 19873-19878	13	25
110	Hyperbranched PdRu nanospine assemblies: an efficient electrocatalyst for formic acid oxidation. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 17514-17518	13	24
109	Enhancing hydrogen evolution activity of triangular PtPdCu nanodarts by phosphorus incorporation. <i>Chemical Engineering Journal</i> , 2020 , 399, 125810	14.7	23
108	Hydrophilic/Aerophobic Hydrogen-Evolving Electrode: NiRu-Based Metal-Organic Framework Nanosheets In Situ Grown on Conductive Substrates. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 34728-34735	9.5	23
107	Selective C-H bond cleavage of pentafluorobenzene: synthesis of N-tetrafluoroarylated heterocyclic compounds. <i>Tetrahedron Letters</i> , 2013 , 54, 4649-4652	2	23
106	Conversion of CuO nanoplates into porous hybrid Cu ₂ O/polypyrrole nanoflakes through a pyrrole-induced reductive transformation reaction. <i>Chemistry - an Asian Journal</i> , 2013 , 8, 1120-7	4.5	23
105	Amorphous Sulfur Decorated Gold Nanowires as Efficient Electrocatalysts toward Ambient Ammonia Synthesis. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 19969-19974	8.3	22
104	Synergism of Interface and Electronic Effects: Bifunctional N-Doped Ni S /N-Doped MoS Hetero-Nanowires for Efficient Electrocatalytic Overall Water Splitting. <i>Chemistry - A European Journal</i> , 2019 , 25, 16074	4.8	21

103	Trimetallic PtPdCo mesoporous nanopolyhedra with hollow cavities. <i>Nanoscale</i> , 2019 , 11, 4781-4787	7.7	21
102	Synthesis of Hollow Cd _x Zn _{1-x} Se Nanoframes through the Selective Cation Exchange of Inorganic/Organic Hybrid ZnSe/Amine Nanoflakes with Cadmium Ions. <i>Angewandte Chemie</i> , 2012 , 124, 3265-3269	3.6	20
101	Enhancing electrochemical ammonia synthesis on palladium nanorods through surface hydrogenation. <i>Chemical Engineering Journal</i> , 2021 , 416, 129105	14.7	20
100	Facile Construction of IrRh Nanosheet Assemblies As Efficient and Robust Bifunctional Electrocatalysts for Overall Water Splitting. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 15747-15754	8.3	19
99	Tri-metallic PtPdAu mesoporous nanoelectrocatalysts. <i>Nanotechnology</i> , 2018 , 29, 255404	3.4	19
98	 PtRu Yolk/Shell Nanostructured Electrocatalyst for Methanol Oxidation Reaction. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 14867-14873	8.3	19
97	A quaternary metal-metalloid-nonmetal electrocatalyst: B, P-co-doping into PdRu nanospine assemblies boosts the electrocatalytic capability toward formic acid oxidation. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 2424-2429	13	19
96	PtPdRh Mesoporous Nanospheres: An Efficient Catalyst for Methanol Electro-Oxidation. <i>Langmuir</i> , 2019 , 35, 413-419	4	19
95	3D graphene aerogel supported FeNi-P derived from electroactive nickel hexacyanoferrate as efficient oxygen evolution catalyst. <i>Electrochimica Acta</i> , 2018 , 292, 107-114	6.7	19
94	Self-template synthesis of CdS/NiS heterostructured nanohybrids for efficient photocatalytic hydrogen evolution. <i>Dalton Transactions</i> , 2017 , 46, 10650-10656	4.3	18
93	Atomic defects in pothole-rich two-dimensional copper nanoplates triggering enhanced electrocatalytic selective nitrate-to-ammonia transformation. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 16411-16417	13	18
92	Methanol Electroreforming Coupled to Green Hydrogen Production over Bifunctional NiIr-Based Metal-Organic Framework Nanosheet Arrays. <i>Applied Catalysis B: Environmental</i> , 2021 , 120753	21.8	18
91	Integrating electrocatalytic hydrogen generation with selective oxidation of glycerol to formate over bifunctional nitrogen-doped carbon coated nickel-molybdenum-nitrogen nanowire arrays. <i>Applied Catalysis B: Environmental</i> , 2021 , 298, 120493	21.8	18
90	Cooperativity of Cu and Pd active sites in CuPd aerogels enhances nitrate electroreduction to ammonia. <i>Chemical Communications</i> , 2021 , 57, 7525-7528	5.8	18
89	Boosting Electrocatalytic Activities of Pt-Based Mesoporous Nanoparticles for Overall Water Splitting by a Facile Ni, P Co-Incorporation Strategy. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 9709-9716	8.3	17
88	Transition metal M (M = Co, Ni, and Fe) and boron co-modulation in Rh-based aerogels for highly efficient and pH-universal hydrogen evolution electrocatalysis. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 5595-5600	13	17
87	One-step synthesis of self-standing porous palladium-ruthenium nanosheet array on Ni foam for ambient electrosynthesis of ammonia. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 5997-6005	6.7	17
86	Enhanced Dual Fuel Cell Electrocatalysis with Trimetallic PtPdCo Mesoporous Nanoparticles. <i>Chemistry - an Asian Journal</i> , 2018 , 13, 2939-2946	4.5	17

85	Cage-bell structured Pt@N-doped hollow carbon sphere for oxygen reduction electrocatalysis. <i>Chemical Engineering Journal</i> , 2021 , 409, 128101	14.7	17
84	Surface Engineering of Defective and Porous Ir Metallene with Polyallylamine for Hydrogen Evolution Electrocatalysis.. <i>Advanced Materials</i> , 2022 , e2110680	24	17
83	Integrated Mesoporous PtPd Film/Ni Foam: An Efficient Binder-Free Cathode for Zn/Air Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 12367-12374	8.3	15
82	Spatially-controlled NiCoO@MnO core-shell nanoarray with hollow NiCoO cores and MnO flake shells: an efficient catalyst for oxygen evolution reaction. <i>Nanotechnology</i> , 2018 , 29, 285401	3.4	13
81	One-step fabrication of bimetallic PtNi mesoporous nanospheres as an efficient catalyst for the oxygen reduction reaction. <i>Nanoscale</i> , 2018 , 10, 16087-16093	7.7	13
80	Interface engineering of polyaniline-functionalized porous Pd metallene for alkaline oxygen reduction reaction. <i>Applied Catalysis B: Environmental</i> , 2022 , 307, 121172	21.8	13
79	Ultralong Ternary PtRuTe Mesoporous Nanotubes Fabricated by Micelle Assembly with a Self-Sacrificial Template. <i>Chemistry - A European Journal</i> , 2019 , 25, 5316-5321	4.8	12
78	Crystalline core/morphous shell heterostructures: epitaxial assembly of NiB nanosheets onto PtPd mesoporous hollow nanopolyhedra for enhanced hydrogen evolution electrocatalysis. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 8927-8933	13	12
77	Facile preparation of Pt-based cage-bell structured nanoarchitectures for enhanced methanol oxidation electrocatalysis. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 2478-2485	6.7	12
76	In situ electrochemical reduction-assisted exfoliation: conversion of BiOCl nanoplates into Bi nanosheets enables efficient electrocatalytic nitrogen fixation. <i>Sustainable Energy and Fuels</i> , 2020 , 4, 3334-3339	5.8	11
75	A water-soluble glucose-functionalized cobalt(III) complex as an efficient electrocatalyst for hydrogen evolution under neutral conditions. <i>Dalton Transactions</i> , 2015 , 44, 1526-9	4.3	11
74	B-Doped PdRu nanopillar assemblies for enhanced formic acid oxidation electrocatalysis. <i>Nanoscale</i> , 2020 , 12, 19159-19164	7.7	11
73	Defect-Rich Porous Palladium Metallene for Enhanced Alkaline Oxygen Reduction Electrocatalysis. <i>Angewandte Chemie</i> , 2021 , 133, 12134-12138	3.6	11
72	Mesoporous Bimetallic Au@Rh Core-Shell Nanowires as Efficient Electrocatalysts for pH-Universal Hydrogen Evolution. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 30479-30485	9.5	11
71	Engineering porosity into trimetallic PtPdNi nanospheres for enhanced electrocatalytic oxygen reduction activity. <i>Green Energy and Environment</i> , 2018 , 3, 352-359	5.7	11
70	Binary nonmetal S and P-co-doping into mesoporous PtPd nanocages boosts oxygen reduction electrocatalysis. <i>Nanoscale</i> , 2020 , 12, 14863-14869	7.7	10
69	Postsynthetic Modification of Metal-Organic Frameworks for Photocatalytic Applications. <i>Small Structures</i> , 2100176	8.7	10
68	Ultralow-content Pd in-situ incorporation mediated hierarchical defects in corner-etched Cu ₂ O octahedra for enhanced electrocatalytic nitrate reduction to ammonia. <i>Applied Catalysis B: Environmental</i> , 2022 , 306, 121094	21.8	10

67	Controlled Synthesis of Long-Wavelength Multicolor-Emitting Carbon Dots for Highly Efficient Tandem Luminescent Solar Concentrators. <i>ACS Applied Energy Materials</i> , 2020 , 3, 12230-12237	6.1	10
66	Electronic structure control over Pd nanorods by B, P-co-doping enables enhanced electrocatalytic performance. <i>Chemical Engineering Journal</i> , 2021 , 421, 127751	14.7	10
65	Transition metal and phosphorus co-doping induced lattice strain in mesoporous Rh-based nanospheres for pH-universal hydrogen evolution electrocatalysis. <i>Chemical Engineering Journal</i> , 2021 , 426, 131227	14.7	10
64	Polyaniline-coated mesoporous Rh films for nonacidic hydrogen evolution reaction. <i>Chemical Engineering Journal</i> , 2022 , 428, 132646	14.7	10
63	Defect-rich low-crystalline Rh metallene for efficient chlorine-free H ₂ production by hydrazine-assisted seawater splitting. <i>Applied Catalysis B: Environmental</i> , 2022 , 310, 121338	21.8	10
62	Conductive FeSe nanorods: A novel and efficient co-catalyst deposited on BiVO ₄ for enhanced photocatalytic activity under visible light. <i>Journal of Environmental Chemical Engineering</i> , 2017 , 5, 4206-4211	6.8	9
61	Boron-Doped PdCuAu Nanospine Assembly as an Efficient Electrocatalyst toward Formic Acid Oxidation. <i>Chemistry - A European Journal</i> , 2020 , 26, 2493-2498	4.8	9
60	Polyethylenimine-modified bimetallic Au@Rh core-shell mesoporous nanospheres surpass Pt for pH-universal hydrogen evolution electrocatalysis. <i>Journal of Materials Chemistry A</i> ,	13	9
59	In situ formation of amorphous Fe-based bimetallic hydroxides from metal-organic frameworks as efficient oxygen evolution catalysts. <i>Chinese Journal of Catalysis</i> , 2021 , 42, 1370-1378	11.3	9
58	Diethylenetriamine-assisted hydrothermal synthesis of dodecahedral Fe ₂ O ₃ nanocrystals with enhanced and stable photoelectrochemical activity. <i>CrystEngComm</i> , 2015 , 17, 27-31	3.3	8
57	Mesoporous Rh nanotubes for efficient electro-oxidation of methanol. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 4744-4750	13	8
56	Hollow PtPd Nanorods with Mesoporous Shells as an Efficient Electrocatalyst for the Methanol-Oxidation Reaction. <i>Chemistry - an Asian Journal</i> , 2019 , 14, 3019-3024	4.5	7
55	Rational construction of Au ₃ Cu@Cu nanocages with porous core-shell heterostructured walls for enhanced electrocatalytic N ₂ fixation. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 8372-8377	13	7
54	A P-doped PtTe mesoporous nanotube electrocatalyst. <i>Sustainable Energy and Fuels</i> , 2020 , 4, 2950-2955	5.8	6
53	Effects of AuCuB Catalysts with Porous Nanostructures on Electrosynthesis of Ammonia. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 12588-12594	8.3	6
52	Flexible synthesis of Au@Pd core-shell mesoporous nanoflowers for efficient methanol oxidation. <i>Nanoscale</i> , 2021 , 13, 3208-3213	7.7	6
51	Enhanced electrocatalytic performance of mesoporous Au-Rh bimetallic films for ammonia synthesis. <i>Chemical Engineering Journal</i> , 2021 , 418, 129493	14.7	6
50	Regulation of the surface micro-structure and crystal phase of Pd ₂ B mesoporous nanoparticles for enhanced hydrogen evolution electrocatalysis. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 21123-21131	13	6

49	In Situ Reconstruction of Partially Hydroxylated Porous Rh Metallene for Ethylene Glycol-Assisted Seawater Splitting. <i>Advanced Functional Materials</i> , 2020, 1081	15.6	6
48	Bimetallic IrAu mesoporous nanovesicles. <i>Chemical Engineering Journal</i> , 2020, 395, 125135	14.7	5
47	Anchoring Au nanoparticles on Bi ultrathin nanosheets for use as an efficient heterogeneous catalyst for ambient-condition electrochemical ammonia synthesis. <i>Sustainable Energy and Fuels</i> , 2020, 4, 4516-4521	5.8	5
46	Mesoporous RhTe nanowires towards all-pH-value hydrogen evolution electrocatalysis. <i>Chemical Engineering Journal</i> , 2022, 435, 134798	14.7	5
45	Pore-Size-Tuned Pd Films Grown on Ni Foam as an Advanced Catalyst for Electrosynthesis of Ammonia. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 11827-11833	8.3	5
44	Anodic hydrazine oxidation assisted hydrogen evolution over bimetallic RhIr mesoporous nanospheres. <i>Journal of Materials Chemistry A</i> , 2021, 9, 18323-18328	13	5
43	Synergism of Interfaces and Defects: Cu/Oxygen Vacancy-Rich Cu-MnO Heterostructured Ultrathin Nanosheet Arrays for Selective Nitrate Electroreduction to Ammonia. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 44733-44741	9.5	5
42	Direct fabrication of bimetallic AuPt nanobrick spherical nanoarchitectonics for the oxygen reduction reaction. <i>New Journal of Chemistry</i> , 2019, 43, 9628-9633	3.6	4
41	ZIF-derived porous carbon composites coated on NiCoS nanotubes array toward efficient water splitting. <i>Nanotechnology</i> , 2020, 31, 195402	3.4	4
40	All-metallic nanorattles consisting of a Pt core and a mesoporous PtPd shell for enhanced electrocatalysis. <i>Nanotechnology</i> , 2019, 30, 475602	3.4	4
39	Enhanced Oxygen Reduction and Methanol Oxidation Electrocatalysis over Bifunctional PtPdIr Mesoporous Hollow Nanospheres. <i>Chemistry - an Asian Journal</i> , 2019, 14, 3868-3874	4.5	4
38	Conversion of Sb ₂ Te ₃ Hexagonal Nanoplates into Three-Dimensional Porous Single-Crystal-Like Network-Structured Te Plates Using Oxygen and Tartaric Acid. <i>Angewandte Chemie</i> , 2012, 124, 1488-1492 ^{3,6}		4
37	Methanol-assisted energy-saving hydrogen production over defect-rich perforated PdIn bimetallic. <i>Chemical Engineering Journal</i> , 2022, 435, 134711	14.7	4
36	Two-Dimensional Heterojunction Electrocatalyst: Au-BiTe Nanosheets for Electrochemical Ammonia Synthesis. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 47458-47464	9.5	4
35	Palladium Nanothorn Assembly Array for Efficient Electroreduction of Nitrogen to Ammonia. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 14228-14233	8.3	4
34	Engineering One-Dimensional AuPd Nanospikes for Efficient Electrocatalytic Nitrogen Fixation. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 20233-20239	9.5	4
33	Construction of hierarchical IrTe nanotubes with assembled nanosheets for overall water splitting electrocatalysis. <i>Journal of Materials Chemistry A</i> , 2021, 9, 18576-18581	13	4
32	Mesoporous Co O Nanobundle Electrocatalysts. <i>Chemistry - an Asian Journal</i> , 2018, 13, 2093	4.5	4

31	Phosphorus-modified ruthenium-tellurium dendritic nanotubes outperform platinum for alkaline hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 5026-5032	13	4
30	AuCu nanofibers for electrosynthesis of urea from carbon dioxide and nitrite. <i>Cell Reports Physical Science</i> , 2022 , 100869	6.1	4
29	Mesoporous Pt@PtM (M = Co, Ni) cage-bell nanostructures toward methanol electro-oxidation. <i>Nanoscale Advances</i> , 2020 , 2, 1084-1089	5.1	3
28	A Mesoporous Nanorattle-Structured Pd@PtRu Electrocatalyst. <i>Chemistry - an Asian Journal</i> , 2019 , 14, 3397-3403	4.5	3
27	Room-temperature Fast Synthesis of Composition-adjustable PtPd Alloy Sub-10-nm Nanoparticle Networks with Improved Electrocatalytic Activities. <i>Chemistry Letters</i> , 2012 , 41, 546-548	1.7	3
26	Liquid Metal Interfacial Growth and Exfoliation to Form Mesoporous Metallic Nanosheets for Alkaline Methanol Electroreforming.. <i>ACS Nano</i> , 2022 ,	16.7	3
25	Two-Dimensional Ni@N-Doped Carbon Nanocomposites Supported on Ni Foam for Electrocatalytic Overall Water Splitting. <i>Chemistry - A European Journal</i> , 2020 , 26, 14496-14501	4.8	3
24	PdNi/Ni Nanotubes Assembled by Mesoporous Nanoparticles for Efficient Alkaline Ethanol Oxidation Reaction. <i>Chemistry - A European Journal</i> , 2021 , 27, 14472-14477	4.8	3
23	Three-dimensional PdAuRu nanospines assemblies for oxygen reduction electrocatalysis. <i>Chemical Engineering Journal</i> , 2022 , 438, 135539	14.7	3
22	Integration mesoporous surface and hollow cavity into PtPdRh nano-octahedra for enhanced oxygen reduction electrocatalysis. <i>Nanotechnology</i> , 2020 , 31, 025401	3.4	2
21	Multinary PtPdNiP truncated octahedral mesoporous nanocages for enhanced methanol oxidation electrocatalysis. <i>New Journal of Chemistry</i> , 2020 , 44, 15492-15497	3.6	2
20	Ternary AuPS Alloy Mesoporous Film for Efficient Electroreduction of Nitrogen to Ammonia. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 28057-28063	9.5	2
19	Tannic acid decorated AuPd lavender-like nanochains for enhanced oxygen reduction electrocatalysis. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 15678-15683	13	2
18	Trimetallic Au@PdPt porous core-shell structured nanowires for oxygen reduction electrocatalysis. <i>Chemical Engineering Journal</i> , 2022 , 428, 131070	14.7	2
17	Phosphorus incorporation accelerates ammonia electrosynthesis over a mesoporous Au film.. <i>Chemical Communications</i> , 2022 , 58, 6088-6091	5.8	2
16	Rational synthesis of Pt-based dandelion-like yolk-shell nanoparticles with enhanced oxygen reduction properties. <i>Sustainable Energy and Fuels</i> , 2019 , 3, 3329-3334	5.8	1
15	Interface engineering of NiP nanoparticles and a mesoporous PtRu film heterostructure on Ni foam for enhanced hydrogen evolution. <i>Nanotechnology</i> , 2019 , 30, 485403	3.4	1
14	PdRh bimetallic for energy-saving hydrogen production via methanol electroreforming. <i>Applied Materials Today</i> , 2022 , 26, 101400	6.6	1

13	Modulating surface electronic structure of mesoporous Rh nanoparticles by Se-doping for enhanced electrochemical ammonia synthesis. <i>Journal of Electroanalytical Chemistry</i> , 2021 , 904, 115874	4.1	1
12	Facile dual tuning of PtPdP nanoparticles by metal-nonmetal co-incorporation and dendritic engineering for enhanced formic acid oxidation electrocatalysis. <i>Nanotechnology</i> , 2020 , 31, 045401	3.4	1
11	Phosphorus modulation of a mesoporous rhodium film for enhanced nitrogen electroreduction. <i>Nanoscale</i> , 2021 , 13, 13809-13815	7.7	1
10	Synergistic coupling of P-doped Pd4S nanoparticles with P/S-co-doped reduced graphene oxide for enhanced alkaline oxygen reduction. <i>Chemical Engineering Journal</i> , 2022 , 429, 132194	14.7	1
9	A phosphorus modified mesoporous AuRh film as an efficient bifunctional electrocatalyst for urea-assisted energy-saving hydrogen production. <i>Journal of Materials Chemistry A</i> , 2022 , 10, 3086-3092	13	0
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