You Xu

List of Publications by Year in Descending Order

174 papers	6,927 citations	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	A phosphorus modified mesoporous AuRh film as an efficient bifunctional electrocatalyst for urea-assisted energy-saving hydrogen production. *Journal of Materials Chemistry A*, **2022**, 10, 3086-3092	13	0
173	Electroreduction of nitrogen to ammonia over bimetallic mesoporous RuAu film. *Materials Today Energy*, **2022**, 23, 100920	7	
172	Liquid Metal Interfacial Growth and Exfoliation to Form Mesoporous Metallic Nanosheets for Alkaline Methanol Electroreforming.. *ACS Nano*, **2022**,	16.7	3
171	Interface engineering of polyaniline-functionalized porous Pd metallene for alkaline oxygen reduction reaction. *Applied Catalysis B: Environmental*, **2022**, 307, 121172	21.8	13
170	Defect-rich ultrathin AuPd nanowires with Boerdijk□Coxeter structure for oxygen reduction electrocatalysis. *Chemical Engineering Journal*, **2022**, 435, 134823	14.7	0
169	Methanol-assisted energy-saving hydrogen production over defect-rich perforated PdIn bimetallene. *Chemical Engineering Journal*, **2022**, 435, 134711	14.7	4
168	Mesoporous RhTe nanowires towards all-pH-value hydrogen evolution electrocatalysis. *Chemical Engineering Journal*, **2022**, 435, 134798	14.7	5
167	Ultralow-content Pd in-situ incorporation mediated hierarchical defects in corner-etched Cu2O octahedra for enhanced electrocatalytic nitrate reduction to ammonia. *Applied Catalysis B: Environmental*, **2022**, 306, 121094	21.8	10
166	PdRh bimetallene for energy-saving hydrogen production via methanol electroreforming. *Applied Materials Today*, **2022**, 26, 101400	6.6	1
165	Trimetallic Au@PdPt porous core-shell structured nanowires for oxygen reduction electrocatalysis. *Chemical Engineering Journal*, **2022**, 428, 131070	14.7	2
164	Polyaniline-coated mesoporous Rh films for nonacidic hydrogen evolution reaction. *Chemical Engineering Journal*, **2022**, 428, 132646	14.7	10
163	Synergistic coupling of P-doped Pd4S nanoparticles with P/S-co-doped reduced graphene oxide for enhanced alkaline oxygen reduction. *Chemical Engineering Journal*, **2022**, 429, 132194	14.7	1
162	Surface Engineering of Defective and Porous Ir Metallene with Polyallylamine for Hydrogen Evolution Electrocatalysis.. *Advanced Materials*, **2022**, e2110680	24	17
161	Three-dimensional PdAuRu nanospines assemblies for oxygen reduction electrocatalysis. *Chemical Engineering Journal*, **2022**, 438, 135539	14.7	3
160	Amorphization activated RhPb nanflowers for energy-saving hydrogen production by hydrazine-assisted water electrolysis. *Chemical Engineering Journal*, **2022**, 440, 135848	14.7	0
159	Defect-rich low-crystalline Rh metallene for efficient chlorine-free H2 production by hydrazine-assisted seawater splitting. *Applied Catalysis B: Environmental*, **2022**, 310, 121338	21.8	10
158	Phosphorus incorporation accelerates ammonia electrosynthesis over a mesoporous Au film.. *Chemical Communications*, **2022**, 58, 6088-6091	5.8	2

157	AuCu nanofibers for electrosynthesis of urea from carbon dioxide and nitrite. *Cell Reports Physical Science*, **2022**, 100869	6.1	4
156	Postsynthetic Modification of Metal□Organic Frameworks for Photocatalytic Applications. *Small Structures*, **2022**, 3, 2270018	8.7	
155	Modulating surface electronic structure of mesoporous Rh nanoparticles by Se-doping for enhanced electrochemical ammonia synthesis. *Journal of Electroanalytical Chemistry*, **2021**, 904, 115874	4.1	1
154	Two-Dimensional Heterojunction Electrocatalyst: Au-BiTe Nanosheets for Electrochemical Ammonia Synthesis. *ACS Applied Materials & Interfaces*, **2021**, 13, 47458-47464	9.5	4
153	Defect-Rich Porous Palladium Metallene for Enhanced Alkaline Oxygen Reduction Electrocatalysis. *Angewandte Chemie - International Edition*, **2021**, 60, 12027-12031	16.4	58
152	Defect-Rich Porous Palladium Metallene for Enhanced Alkaline Oxygen Reduction Electrocatalysis. *Angewandte Chemie*, **2021**, 133, 12134-12138	3.6	11
151	Engineering One-Dimensional AuPd Nanospikes for Efficient Electrocatalytic Nitrogen Fixation. *ACS Applied Materials & Interfaces*, **2021**, 13, 20233-20239	9.5	4
150	Ternary AuPS Alloy Mesoporous Film for Efficient Electroreduction of Nitrogen to Ammonia. *ACS Applied Materials & Interfaces*, **2021**, 13, 28057-28063	9.5	2
149	Mesoporous Bimetallic Au@Rh Core-Shell Nanowires as Efficient Electrocatalysts for pH-Universal Hydrogen Evolution. *ACS Applied Materials & Interfaces*, **2021**, 13, 30479-30485	9.5	11
148	Enhancing electrochemical ammonia synthesis on palladium nanorods through surface hydrogenation. *Chemical Engineering Journal*, **2021**, 416, 129105	14.7	20
147	Electronic structure control over Pd nanorods by B, P-co-doping enables enhanced electrocatalytic performance. *Chemical Engineering Journal*, **2021**, 421, 127751	14.7	10
146	Cage-bell structured Pt@N-doped hollow carbon sphere for oxygen reduction electrocatalysis. *Chemical Engineering Journal*, **2021**, 409, 128101	14.7	17
145	Metal-organic frameworks-derived Ru-doped Co2P/N-doped carbon composite nanosheet arrays as bifunctional electrocatalysts for hydrogen evolution and urea oxidation. *Chemical Engineering Journal*, **2021**, 408, 127308	14.7	42
144	Tannic acid decorated AuPd lavender-like nanochains for enhanced oxygen reduction electrocatalysis. *Journal of Materials Chemistry A*, **2021**, 9, 15678-15683	13	2
143	Intensifying sustainable solar water production by steam heat internal circulation. *Materials Advances*, **2021**, 2, 1731-1738	3.3	
142	Mesoporous Rh nanotubes for efficient electro-oxidation of methanol. *Journal of Materials Chemistry A*, **2021**, 9, 4744-4750	13	8
141	Flexible synthesis of Au@Pd core-shell mesoporous nanoflowers for efficient methanol oxidation. *Nanoscale*, **2021**, 13, 3208-3213	7.7	6
140	Phosphorus modulation of a mesoporous rhodium film for enhanced nitrogen electroreduction. *Nanoscale*, **2021**, 13, 13809-13815	7.7	1

139	Construction of hierarchical IrTe nanotubes with assembled nanosheets for overall water splitting electrocatalysis. *Journal of Materials Chemistry A*, **2021**, 9, 18576-18581	13	4
138	Atomic defects in pothole-rich two-dimensional copper nanoplates triggering enhanced electrocatalytic selective nitrate-to-ammonia transformation. *Journal of Materials Chemistry A*, **2021**, 9, 16411-16417	13	18
137	Anodic hydrazine oxidation assisted hydrogen evolution over bimetallic RhIr mesoporous nanospheres. *Journal of Materials Chemistry A*, **2021**, 9, 18323-18328	13	5
136	Rational construction of Au3Cu@Cu nanocages with porous core–shell heterostructured walls for enhanced electrocatalytic N2 fixation. *Journal of Materials Chemistry A*, **2021**, 9, 8372-8377	13	7
135	Bimetallic mesoporous RhRu film for electrocatalytic nitrogen reduction to ammonia. *Inorganic Chemistry Frontiers*, **2021**, 8, 4276-4281	6.8	0
134	Enhanced electrocatalytic performance of mesoporous Au-Rh bimetallic films for ammonia synthesis. *Chemical Engineering Journal*, **2021**, 418, 129493	14.7	6
133	Mesoporous PdRu Nanocrystals for Oxygen Reduction Electrocatalysis. *Energy & Fuels*, **2021**, 35, 13382-13388	4.1	0
132	In situ formation of amorphous Fe-based bimetallic hydroxides from metal-organic frameworks as efficient oxygen evolution catalysts. *Chinese Journal of Catalysis*, **2021**, 42, 1370-1378	11.3	9
131	Synergism of Interfaces and Defects: Cu/Oxygen Vacancy-Rich Cu-MnO Heterostructured Ultrathin Nanosheet Arrays for Selective Nitrate Electroreduction to Ammonia. *ACS Applied Materials & Interfaces*, **2021**, 13, 44733-44741	9.5	5
130	PdNi/Ni Nanotubes Assembled by Mesoporous Nanoparticles for Efficient Alkaline Ethanol Oxidation Reaction. *Chemistry - A European Journal*, **2021**, 27, 14472-14477	4.8	3
129	Methanol Electroreforming Coupled to Green Hydrogen Production over Bifunctional NiIr-Based Metal-Organic Framework Nanosheet Arrays. *Applied Catalysis B: Environmental*, **2021**, 120753	21.8	18
128	Concave-convex surface oxide layers over copper nanowires boost electrochemical nitrate-to-ammonia conversion. *Chemical Engineering Journal*, **2021**, 426, 130759	14.7	30
127	Integrating electrocatalytic hydrogen generation with selective oxidation of glycerol to formate over bifunctional nitrogen-doped carbon coated nickel-molybdenum-nitrogen nanowire arrays. *Applied Catalysis B: Environmental*, **2021**, 298, 120493	21.8	18
126	Transition metal and phosphorus co-doping induced lattice strain in mesoporous Rh-based nanospheres for pH-universal hydrogen evolution electrocatalysis. *Chemical Engineering Journal*, **2021**, 426, 131227	14.7	10
125	Regulation of the surface micro-structure and crystal phase of Pd2B mesoporous nanoparticles for enhanced hydrogen evolution electrocatalysis. *Journal of Materials Chemistry A*, **2021**, 9, 21123-21131	13	6
124	Phosphorus-modified ruthenium–tellurium dendritic nanotubes outperform platinum for alkaline hydrogen evolution. *Journal of Materials Chemistry A*, **2021**, 9, 5026-5032	13	4
123	Cooperativity of Cu and Pd active sites in CuPd aerogels enhances nitrate electroreduction to ammonia. *Chemical Communications*, **2021**, 57, 7525-7528	5.8	18
122	Binary nonmetal S and P-co-doping into mesoporous PtPd nanocages boosts oxygen reduction electrocatalysis. *Nanoscale*, **2020**, 12, 14863-14869	7.7	10

121	Three-dimensional Pd-Ag-S porous nanosponges for electrocatalytic nitrogen reduction to ammonia. *Nanoscale*, **2020**, 12, 13507-13512	7.7	32
120	Bimetallic IrAu mesoporous nanovesicles. *Chemical Engineering Journal*, **2020**, 395, 125135	14.7	5
119	Enhancing hydrogen evolution activity of triangular PtPdCu nanodarts by phosphorus incorporation. *Chemical Engineering Journal*, **2020**, 399, 125810	14.7	23
118	Anchoring Au nanoparticles on Bi ultrathin nanosheets for use as an efficient heterogeneous catalyst for ambient-condition electrochemical ammonia synthesis. *Sustainable Energy and Fuels*, **2020**, 4, 4516-4521	5.8	5
117	Hydrophilic/Aerophobic Hydrogen-Evolving Electrode: NiRu-Based Metal-Organic Framework Nanosheets In Situ Grown on Conductive Substrates. *ACS Applied Materials & Interfaces*, **2020**, 12, 34728-34735	9.5	23
116	Mesoporous Pt@PtM (M = Co, Ni) cage-bell nanostructures toward methanol electro-oxidation. *Nanoscale Advances*, **2020**, 2, 1084-1089	5.1	3
115	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. *Journal of Materials Chemistry A*, **2020**, 8, 5595-5600	13	17
114	ZIF-derived porous carbon composites coated on NiCoS nanotubes array toward efficient water splitting. *Nanotechnology*, **2020**, 31, 195402	3.4	4
113	One-step synthesis of self-standing porous palladium-ruthenium nanosheet array on Ni foam for ambient electrosynthesis of ammonia. *International Journal of Hydrogen Energy*, **2020**, 45, 5997-6005	6.7	17
112	In situ electrochemical reduction-assisted exfoliation: conversion of BiOCl nanoplates into Bi nanosheets enables efficient electrocatalytic nitrogen fixation. *Sustainable Energy and Fuels*, **2020**, 4, 3334-3339	5.8	11
111	A P-doped PtTe mesoporous nanotube electrocatalyst. *Sustainable Energy and Fuels*, **2020**, 4, 2950-2955	5.8	6
110	Crystalline core–amorphous shell heterostructures: epitaxial assembly of NiB nanosheets onto PtPd mesoporous hollow nanopolyhedra for enhanced hydrogen evolution electrocatalysis. *Journal of Materials Chemistry A*, **2020**, 8, 8927-8933	13	12
109	Integration mesoporous surface and hollow cavity into PtPdRh nano-octahedra for enhanced oxygen reduction electrocatalysis. *Nanotechnology*, **2020**, 31, 025401	3.4	2
108	Ir-Doped Ni-based metal-organic framework ultrathin nanosheets on Ni foam for enhanced urea electro-oxidation. *Chemical Communications*, **2020**, 56, 2151-2154	5.8	53
107	Photothermally assisted photocatalytic conversion of CO2–H2O into fuels over a WN–WO3 Z-scheme heterostructure. *Journal of Materials Chemistry A*, **2020**, 8, 1077-1083	13	30
106	A quaternary metal–metalloid–nonmetal electrocatalyst: B, P-co-doping into PdRu nanospine assemblies boosts the electrocatalytic capability toward formic acid oxidation. *Journal of Materials Chemistry A*, **2020**, 8, 2424-2429	13	19
105	Mesoporous AuPd Film on Ni Foam: A Self-Supported Electrocatalyst for Efficient Synthesis of Ammonia. *ACS Applied Materials & Interfaces*, **2020**, 12, 436-442	9.5	41
104	Boron-Doped PdCuAu Nanospine Assembly as an Efficient Electrocatalyst toward Formic Acid Oxidation. *Chemistry - A European Journal*, **2020**, 26, 2493-2498	4.8	9

103	Facile preparation of Pt-based cage-bell structured nanoarchitectures for enhanced methanol oxidation electrocatalysis. *International Journal of Hydrogen Energy*, **2020**, 45, 2478-2485	6.7	12
102	Engineering bunched RhTe nanochains for efficient methanol oxidation electrocatalysis. *Chemical Communications*, **2020**, 56, 13595-13598	5.8	29
101	Controlled Synthesis of Long-Wavelength Multicolor-Emitting Carbon Dots for Highly Efficient Tandem Luminescent Solar Concentrators. *ACS Applied Energy Materials*, **2020**, 3, 12230-12237	6.1	10
100	Effects of AuCuB Catalysts with Porous Nanostructures on Electrosynthesis of Ammonia. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 12588-12594	8.3	6
99	An interconnected porous Au3Pt film on Ni foam: an efficient electrocatalyst for alkaline hydrogen evolution reaction. *Sustainable Energy and Fuels*, **2020**, 4, 4878-4883	5.8	0
98	Pore-Size-Tuned Pd Films Grown on Ni Foam as an Advanced Catalyst for Electrosynthesis of Ammonia. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 11827-11833	8.3	5
97	Two-Dimensional NiIr@N-Doped Carbon Nanocomposites Supported on Ni Foam for Electrocatalytic Overall Water Splitting. *Chemistry - A European Journal*, **2020**, 26, 14496-14501	4.8	3
96	Phosphorus-triggered modification of the electronic structure and surface properties of Pd4S nanowires for robust hydrogen evolution electrocatalysis. *Journal of Materials Chemistry A*, **2020**, 8, 19873-19878	13	25
95	Multinary PtPdNiP truncated octahedral mesoporous nanocages for enhanced methanol oxidation electrocatalysis. *New Journal of Chemistry*, **2020**, 44, 15492-15497	3.6	2
94	A mesoporous Au film with surface sulfur modification for efficient ammonia electrosynthesis. *Journal of Materials Chemistry A*, **2020**, 8, 20414-20419	13	27
93	Palladium Nanothorn Assembly Array for Efficient Electroreduction of Nitrogen to Ammonia. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 14228-14233	8.3	4
92	B-Doped PdRu nanopillar assemblies for enhanced formic acid oxidation electrocatalysis. *Nanoscale* , **2020**, 12, 19159-19164	7.7	11
91	Facile dual tuning of PtPdP nanoparticles by metal-nonmetal co-incorporation and dendritic engineering for enhanced formic acid oxidation electrocatalysis. *Nanotechnology*, **2020**, 31, 045401	3.4	1
90	Facile Construction of IrRh Nanosheet Assemblies As Efficient and Robust Bifunctional Electrocatalysts for Overall Water Splitting. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 15747-15754	8.3	19
89	Rational synthesis of Pt-based dandelion-like yolk–shell nanoparticles with enhanced oxygen reduction properties. *Sustainable Energy and Fuels*, **2019**, 3, 3329-3334	5.8	1
88	One-pot synthesis of bi-metallic PdRu tripods as an efficient catalyst for electrocatalytic nitrogen reduction to ammonia. *Journal of Materials Chemistry A*, **2019**, 7, 801-805	13	106
87	Metal–nonmetal nanoarchitectures: quaternary PtPdNiP mesoporous nanospheres for enhanced oxygen reduction electrocatalysis. *Journal of Materials Chemistry A*, **2019**, 7, 3910-3916	13	33
86	Ultralong Ternary PtRuTe Mesoporous Nanotubes Fabricated by Micelle Assembly with a Self-Sacrificial Template. *Chemistry - A European Journal*, **2019**, 25, 5316-5321	4.8	12

85	Trimetallic PdCuIr with long-spined sea-urchin-like morphology for ambient electroreduction of nitrogen to ammonia. *Journal of Materials Chemistry A*, **2019**, 7, 3190-3196	13	34
84	Direct synthesis of superlong Pt|Te mesoporous nanotubes for electrocatalytic oxygen reduction. *Journal of Materials Chemistry A*, **2019**, 7, 1711-1717	13	36
83	Recent Advances in Electrochemical Hydrogen Production from Water Assisted by Alternative Oxidation Reactions. *ChemElectroChem*, **2019**, 6, 3214-3226	4.3	97
82	Direct fabrication of bimetallic AuPt nanobrick spherical nanoarchitectonics for the oxygen reduction reaction. *New Journal of Chemistry*, **2019**, 43, 9628-9633	3.6	4
81	Electrocatalytic Nitrogen Reduction to Ammonia by Fe2O3 Nanorod Array on Carbon Cloth. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 11754-11759	8.3	41
80	Bimetallic Ag3Cu porous networks for ambient electrolysis of nitrogen to ammonia. *Journal of Materials Chemistry A*, **2019**, 7, 12526-12531	13	44
79	Boosting Electrocatalytic Activities of Pt-Based Mesoporous Nanoparticles for Overall Water Splitting by a Facile Ni, P Co-Incorporation Strategy. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 9709-9716	8.3	17
78	PtM (M = Co, Ni) Mesoporous Nanotubes as Bifunctional Electrocatalysts for Oxygen Reduction and Methanol Oxidation. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 7960-7968	8.3	37
77	Pt□Ni□P nanocages with surface porosity as efficient bifunctional electrocatalysts for oxygen reduction and methanol oxidation. *Journal of Materials Chemistry A*, **2019**, 7, 9791-9797	13	44
76	[email□protected] PtRu Yolk□Shell Nanostructured Electrocatalyst for Methanol Oxidation Reaction. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 14867-14873	8.3	19
75	All-metallic nanorattles consisting of a Pt core and a mesoporous PtPd shell for enhanced electrocatalysis. *Nanotechnology*, **2019**, 30, 475602	3.4	4
74	Metal□Nonmetal One-Dimensional Electrocatalyst: AuPdP Nanowires for Ambient Nitrogen Reduction to Ammonia. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 15772-15777	8.3	29
73	Hollow PtPd Nanorods with Mesoporous Shells as an Efficient Electrocatalyst for the Methanol-Oxidation Reaction. *Chemistry - an Asian Journal*, **2019**, 14, 3019-3024	4.5	7
72	Interface engineering of NiP nanoparticles and a mesoporous PtRu film heterostructure on Ni foam for enhanced hydrogen evolution. *Nanotechnology*, **2019**, 30, 485403	3.4	1
71	A Mesoporous Nanorattle-Structured Pd@PtRu Electrocatalyst. *Chemistry - an Asian Journal*, **2019**, 14, 3397-3403	4.5	3
70	Enhanced Oxygen Reduction and Methanol Oxidation Electrocatalysis over Bifunctional PtPdIr Mesoporous Hollow Nanospheres. *Chemistry - an Asian Journal*, **2019**, 14, 3868-3874	4.5	4
69	Synergism of Interface and Electronic Effects: Bifunctional N-Doped Ni S /N-Doped MoS Hetero-Nanowires for Efficient Electrocatalytic Overall Water Splitting. *Chemistry - A European Journal*, **2019**, 25, 16074	4.8	21
68	Trimetallic PtPdCo mesoporous nanopolyhedra with hollow cavities. *Nanoscale*, **2019**, 11, 4781-4787	7.7	21

67	Direct fabrication of bi-metallic PdRu nanorod assemblies for electrochemical ammonia synthesis. *Nanoscale*, **2019**, 11, 5499-5505	7.7	48
66	Boron-doped silver nanosponges with enhanced performance towards electrocatalytic nitrogen reduction to ammonia. *Chemical Communications*, **2019**, 55, 14745-14748	5.8	42
65	Amorphous Sulfur Decorated Gold Nanowires as Efficient Electrocatalysts toward Ambient Ammonia Synthesis. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 19969-19974	8.3	22
64	Ambient Nitrogen Reduction to Ammonia Electrocatalyzed by Bimetallic PdRu Porous Nanostructures. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 2400-2405	8.3	65
63	PtPdRh Mesoporous Nanospheres: An Efficient Catalyst for Methanol Electro-Oxidation. *Langmuir*, **2019**, 35, 413-419	4	19
62	Trimetallic PtPdNi-Truncated Octahedral Nanocages with a Well-Defined Mesoporous Surface for Enhanced Oxygen Reduction Electrocatalysis. *ACS Applied Materials & Interfaces*, **2019**, 11, 4252-4257	9.5	48
61	Electrochemical Fabrication of Porous Au Film on Ni Foam for Nitrogen Reduction to Ammonia. *Small*, **2019**, 15, e1804769	11	109
60	Tri-metallic PtPdAu mesoporous nanoelectrocatalysts. *Nanotechnology*, **2018**, 29, 255404	3.4	19
59	Direct fabrication of tri-metallic PtPdCu tripods with branched exteriors for the oxygen reduction reaction. *Journal of Materials Chemistry A*, **2018**, 6, 8662-8668	13	96
58	Direct synthesis of bimetallic PtCo mesoporous nanospheres as efficient bifunctional electrocatalysts for both oxygen reduction reaction and methanol oxidation reaction. *Nanotechnology*, **2018**, 29, 175403	3.4	25
57	Prussian Blue-Derived Iron Phosphide Nanoparticles in a Porous Graphene Aerogel as Efficient Electrocatalyst for Hydrogen Evolution Reaction. *Chemistry - an Asian Journal*, **2018**, 13, 679-685	4.5	28
56	One-step fabrication of tri-metallic PdCuAu nanothorn assemblies as an efficient catalyst for oxygen reduction reaction. *Journal of Materials Chemistry A*, **2018**, 6, 3642-3648	13	61
55	Low-ruthenium-content NiRu nanoalloys encapsulated in nitrogen-doped carbon as highly efficient and pH-universal electrocatalysts for the hydrogen evolution reaction. *Journal of Materials Chemistry A*, **2018**, 6, 1376-1381	13	129
54	Mesoporous Ce-Ti-Zr ternary oxide millispheres for efficient catalytic ozonation in bubble column. *Chemical Engineering Journal*, **2018**, 338, 261-270	14.7	35
53	Spatially-controlled NiCoO@MnO core-shell nanoarray with hollow NiCoO cores and MnO flake shells: an efficient catalyst for oxygen evolution reaction. *Nanotechnology*, **2018**, 29, 285401	3.4	13
52	Ultrathin nitrogen-doped graphitized carbon shell encapsulating CoRu bimetallic nanoparticles for enhanced electrocatalytic hydrogen evolution. *Nanotechnology*, **2018**, 29, 225403	3.4	26
51	Efficient removal of EDTA-complexed Cu(II) by a combined Fe(III)/UV/alkaline precipitation process: Performance and role of Fe(II). *Chemosphere*, **2018**, 193, 1235-1242	8.4	37
50	Enhanced Dual Fuel Cell Electrocatalysis with Trimetallic PtPdCo Mesoporous Nanoparticles. *Chemistry - an Asian Journal*, **2018**, 13, 2939-2946	4.5	17

49	Fabrication of Mesoporous Cage-Bell Pt Nanoarchitectonics as Efficient Catalyst for Oxygen Reduction Reaction. *ACS Sustainable Chemistry and Engineering*, **2018**, 6, 11768-11774	8.3	53
48	One-step fabrication of bimetallic PtNi mesoporous nanospheres as an efficient catalyst for the oxygen reduction reaction. *Nanoscale*, **2018**, 10, 16087-16093	7.7	13
47	Integrated Mesoporous PtPd Film/Ni Foam: An Efficient Binder-Free Cathode for Zn–Air Batteries. *ACS Sustainable Chemistry and Engineering*, **2018**, 6, 12367-12374	8.3	15
46	Ambient Electrochemical Synthesis of Ammonia from Nitrogen and Water Catalyzed by Flower-Like Gold Microstructures. *ChemSusChem*, **2018**, 11, 3480-3485	8.3	139
45	Hyperbranched PdRu nanospine assemblies: an efficient electrocatalyst for formic acid oxidation. *Journal of Materials Chemistry A*, **2018**, 6, 17514-17518	13	24
44	Rational Design of Catalytic Centers in Crystalline Frameworks. *Advanced Materials*, **2018**, 30, e1707582	24	70
43	3D graphene aerogel supported FeNi-P derived from electroactive nickel hexacyanoferrate as efficient oxygen evolution catalyst. *Electrochimica Acta*, **2018**, 292, 107-114	6.7	19
42	Engineering porosity into trimetallic PtPdNi nanospheres for enhanced electrocatalytic oxygen reduction activity. *Green Energy and Environment*, **2018**, 3, 352-359	5.7	11
41	Mesoporous Co O Nanobundle Electrocatalysts. *Chemistry - an Asian Journal*, **2018**, 13, 2093	4.5	4
40	In situ coating of a continuous mesoporous bimetallic PtRu film on Ni foam: a nanoarchitectured self-standing all-metal mesoporous electrode. *Journal of Materials Chemistry A*, **2018**, 6, 12744-12750	13	40
39	Nickel Nanoparticles Encapsulated in Few-Layer Nitrogen-Doped Graphene Derived from Metal-Organic Frameworks as Efficient Bifunctional Electrocatalysts for Overall Water Splitting. *Advanced Materials*, **2017**, 29, 1605957	24	421
38	Self-template synthesis of CdS/NiS heterostructured nanohybrids for efficient photocatalytic hydrogen evolution. *Dalton Transactions*, **2017**, 46, 10650-10656	4.3	18
37	Metal-free photocatalysts for various applications in energy conversion and environmental purification. *Green Chemistry*, **2017**, 19, 882-899	10	212
36	Evolution of hydrogen by few-layered black phosphorus under visible illumination. *Journal of Materials Chemistry A*, **2017**, 5, 24874-24879	13	37
35	A spongy nickel-organic CO reduction photocatalyst for nearly 100% selective CO production. *Science Advances*, **2017**, 3, e1700921	14.3	124
34	Conductive FeSe nanorods: A novel and efficientco-catalyst deposited on BiVO 4 for enhanced photocatalytic activity under visible light. *Journal of Environmental Chemical Engineering*, **2017**, 5, 4206-4211	6.8	9
33	Investigating the Role of Tunable Nitrogen Vacancies in Graphitic Carbon Nitride Nanosheets for Efficient Visible-Light-Driven H2 Evolution and CO2 Reduction. *ACS Sustainable Chemistry and Engineering*, **2017**, 5, 7260-7268	8.3	224
32	Rational design of semiconductor-based photocatalysts for advanced photocatalytic hydrogen production: the case of cadmium chalcogenides. *Inorganic Chemistry Frontiers*, **2016**, 3, 591-615	6.8	119

31	Metal-free carbonaceous electrocatalysts and photocatalysts for water splitting. *Chemical Society Reviews*, **2016**, 45, 3039-52	58.5	419
30	Coupled Cu(II)-EDTA degradation and Cu(II) removal from acidic wastewater by ozonation: Performance, products and pathways. *Chemical Engineering Journal*, **2016**, 299, 23-29	14.7	100
29	Nickel-based cocatalysts for photocatalytic hydrogen production. *Applied Surface Science*, **2015**, 351, 779-793	6.7	174
28	Hydrogen photogeneration from water on the biomimetic hybrid artificial photocatalytic systems of semiconductors and earth-abundant metal complexes: progress and challenges. *Catalysis Science and Technology*, **2015**, 5, 3084-3096	5.5	36
27	Hierarchical ultrathin-branched CdS nanowire arrays with enhanced photocatalytic performance. *Journal of Materials Chemistry A*, **2015**, 3, 19507-19516	13	38
26	Diethylenetriamine-assisted hydrothermal synthesis of dodecahedral □Fe2O3 nanocrystals with enhanced and stable photoelectrochemical activity. *CrystEngComm*, **2015**, 17, 27-31	3.3	8
25	Hydrogen production on a hybrid photocatalytic system composed of ultrathin CdS nanosheets and a molecular nickel complex. *Chemistry - A European Journal*, **2015**, 21, 4571-5	4.8	55
24	Ultrathin-nanosheet-based 3D hierarchical porous In2S3 microspheres: chemical transformation synthesis, characterization, and enhanced photocatalytic and photoelectrochemical property. *Journal of Materials Chemistry A*, **2015**, 3, 1930-1934	13	43
23	A water-soluble glucose-functionalized cobalt(III) complex as an efficient electrocatalyst for hydrogen evolution under neutral conditions. *Dalton Transactions*, **2015**, 44, 1526-9	4.3	11
22	Ni2P nanosheets/Ni foam composite electrode for long-lived and pH-tolerable electrochemical hydrogen generation. *ACS Applied Materials & Interfaces*, **2015**, 7, 2376-84	9.5	195
21	Recent advances in porous Pt-based nanostructures: synthesis and electrochemical applications. *Chemical Society Reviews*, **2014**, 43, 2439-50	58.5	392
20	In-situ photo-reducing graphene oxide to create Zn0.5Cd0.5S porous nanosheets/RGO composites as highly stable and efficient photoelectrocatalysts for visible-light-driven water splitting. *International Journal of Hydrogen Energy*, **2014**, 39, 702-710	6.7	26
19	Facile synthesis of 3D Pd-P nanoparticle networks with enhanced electrocatalytic performance towards formic acid electrooxidation. *Chemical Communications*, **2014**, 50, 13451-3	5.8	82
18	Selective C4□ bond cleavage of pentafluorobenzene: synthesis of N-tetrafluoroarylated heterocyclic compounds. *Tetrahedron Letters*, **2013**, 54, 4649-4652	2	23
17	Synthesis of ultrathin CdS nanosheets as efficient visible-light-driven water splitting photocatalysts for hydrogen evolution. *Chemical Communications*, **2013**, 49, 9803-5	5.8	264
16	Anion-exchange synthesis of nanoporous FeP nanosheets as electrocatalysts for hydrogen evolution reaction. *Chemical Communications*, **2013**, 49, 6656-8	5.8	388
15	Conversion of CuO nanoplates into porous hybrid Cu2O/polypyrrole nanoflakes through a pyrrole-induced reductive transformation reaction. *Chemistry - an Asian Journal*, **2013**, 8, 1120-7	4.5	23
14	Hierarchical nanosheet-based MoS2 nanotubes fabricated by an anion-exchange reaction of MoO3-amine hybrid nanowires. *Angewandte Chemie - International Edition*, **2013**, 52, 8602-6	16.4	166

13	Hierarchical Nanosheet-Based MoS2 Nanotubes Fabricated by an Anion-Exchange Reaction of MoO3–Amine Hybrid Nanowires. *Angewandte Chemie*, **2013**, 125, 8764-8768	3.6	64
12	Conversion of Sb2Te3 hexagonal nanoplates into three-dimensional porous single-crystal-like network-structured Te plates using oxygen and tartaric acid. *Angewandte Chemie - International Edition*, **2012**, 51, 1459-63	16.4	39
11	Room-temperature Fast Synthesis of Composition-adjustable Pt–Pd Alloy Sub-10-nm Nanoparticle Networks with Improved Electrocatalytic Activities. *Chemistry Letters*, **2012**, 41, 546-548	1.7	3
10	One-step synthesis of three-dimensional Pd polyhedron networks with enhanced electrocatalytic performance. *Chemical Communications*, **2012**, 48, 3881-3	5.8	36
9	Facile one-step room-temperature synthesis of Pt3Ni nanoparticle networks with improved electro-catalytic properties. *Chemical Communications*, **2012**, 48, 2665-7	5.8	70
8	Conversion of Sb2Te3 Hexagonal Nanoplates into Three-Dimensional Porous Single-Crystal-Like Network-Structured Te Plates Using Oxygen and Tartaric Acid. *Angewandte Chemie*, **2012**, 124, 1488-1492	3.6	4
7	Synthesis of Hollow CdxZn1–xSe Nanoframes through the Selective Cation Exchange of Inorganic–Organic Hybrid ZnSe–Amine Nanoflakes with Cadmium Ions. *Angewandte Chemie*, **2012**, 124, 3265-3269	3.6	20
6	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. *Angewandte Chemie - International Edition*, **2012**, 51, 3211-5	16.4	102
5	Composition-tunable Pt-Co alloy nanoparticle networks: facile room-temperature synthesis and supportless electrocatalytic applications. *ChemPhysChem*, **2012**, 13, 2601-9	3.2	39
4	Cu2O Nanocrystals: Surfactant-Free Room-Temperature Morphology-Modulated Synthesis and Shape-Dependent Heterogeneous Organic Catalytic Activities. *Journal of Physical Chemistry C*, **2011**, 115, 15288-15296	3.8	140
3	Postsynthetic Modification of Metal–Organic Frameworks for Photocatalytic Applications. *Small Structures*,2100176	8.7	10
2	Polyethylenimine-modified bimetallic Au@Rh core–shell mesoporous nanospheres surpass Pt for pH-universal hydrogen evolution electrocatalysis. *Journal of Materials Chemistry A*,	13	9
1	In Situ Reconstruction of Partially Hydroxylated Porous Rh Metallene for Ethylene Glycol-Assisted Seawater Splitting. *Advanced Functional Materials*,2201081	15.6	6