Liang Wang

List of Publications by Year in Descending Order

234 papers	10,244 citations	53 h-index	94 g-index
249 ext. papers	12,340 ext. citations	9.2 avg, IF	6.8 L-index

#	Paper	IF	Citations
234	Scalable Spray Drying Production of Amorphous V O -EGO 2D Heterostructured Xerogels for High-Rate and High-Capacity Aqueous Zinc Ion Batteries.. *Small*, **2022**, 18, e2105761	11	4
233	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
232	Electroreduction of nitrogen to ammonia over bimetallic mesoporous RuAu film. *Materials Today Energy*, **2022**, 23, 100920	7	
231	Liquid Metal Interfacial Growth and Exfoliation to Form Mesoporous Metallic Nanosheets for Alkaline Methanol Electroreforming.. *ACS Nano*, **2022**,	16.7	3
230	Interface engineering of polyaniline-functionalized porous Pd metallene for alkaline oxygen reduction reaction. *Applied Catalysis B: Environmental*, **2022**, 307, 121172	21.8	13
229	Defect-rich ultrathin AuPd nanowires with Boerdijk□Coxeter structure for oxygen reduction electrocatalysis. *Chemical Engineering Journal*, **2022**, 435, 134823	14.7	0
228	Methanol-assisted energy-saving hydrogen production over defect-rich perforated PdIn bimetallene. *Chemical Engineering Journal*, **2022**, 435, 134711	14.7	4
227	Mesoporous RhTe nanowires towards all-pH-value hydrogen evolution electrocatalysis. *Chemical Engineering Journal*, **2022**, 435, 134798	14.7	5
226	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
225	PdRh bimetallene for energy-saving hydrogen production via methanol electroreforming. *Applied Materials Today*, **2022**, 26, 101400	6.6	1
224	Trimetallic Au@PdPt porous core-shell structured nanowires for oxygen reduction electrocatalysis. *Chemical Engineering Journal*, **2022**, 428, 131070	14.7	2
223	Polyaniline-coated mesoporous Rh films for nonacidic hydrogen evolution reaction. *Chemical Engineering Journal*, **2022**, 428, 132646	14.7	10
222	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
221	Surface Engineering of Defective and Porous Ir Metallene with Polyallylamine for Hydrogen Evolution Electrocatalysis.. *Advanced Materials*, **2022**, e2110680	24	17
220	Three-dimensional PdAuRu nanospines assemblies for oxygen reduction electrocatalysis. *Chemical Engineering Journal*, **2022**, 438, 135539	14.7	3
219	Amorphization activated RhPb nanflowers for energy-saving hydrogen production by hydrazine-assisted water electrolysis. *Chemical Engineering Journal*, **2022**, 440, 135848	14.7	0
218	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

217	Phosphorus incorporation accelerates ammonia electrosynthesis over a mesoporous Au film.. *Chemical Communications*, **2022**, 58, 6088-6091	5.8	2
216	AuCu nanofibers for electrosynthesis of urea from carbon dioxide and nitrite. *Cell Reports Physical Science*, **2022**, 100869	6.1	4
215	Operando Converting BiOCl into BiO(CO)Cl for Efficient Electrocatalytic Reduction of Carbon Dioxide to Formate.. *Nano-Micro Letters*, **2022**, 14, 121	19.5	0
214	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
213	Two-Dimensional Heterojunction Electrocatalyst: Au-BiTe Nanosheets for Electrochemical Ammonia Synthesis. *ACS Applied Materials & Interfaces*, **2021**, 13, 47458-47464	9.5	4
212	Defect-Rich Porous Palladium Metallene for Enhanced Alkaline Oxygen Reduction Electrocatalysis. *Angewandte Chemie - International Edition*, **2021**, 60, 12027-12031	16.4	58
211	Defect-Rich Porous Palladium Metallene for Enhanced Alkaline Oxygen Reduction Electrocatalysis. *Angewandte Chemie*, **2021**, 133, 12134-12138	3.6	11
210	Synthesis of the Platinum Nanoribbons Regulated by Fluorine and Applications in Electrocatalysis. *Inorganic Chemistry*, **2021**, 60, 4366-4370	5.1	5
209	Engineering One-Dimensional AuPd Nanospikes for Efficient Electrocatalytic Nitrogen Fixation. *ACS Applied Materials & Interfaces*, **2021**, 13, 20233-20239	9.5	4
208	Ternary AuPS Alloy Mesoporous Film for Efficient Electroreduction of Nitrogen to Ammonia. *ACS Applied Materials & Interfaces*, **2021**, 13, 28057-28063	9.5	2
207	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
206	Enhancing electrochemical ammonia synthesis on palladium nanorods through surface hydrogenation. *Chemical Engineering Journal*, **2021**, 416, 129105	14.7	20
205	Electronic structure control over Pd nanorods by B, P-co-doping enables enhanced electrocatalytic performance. *Chemical Engineering Journal*, **2021**, 421, 127751	14.7	10
204	Cage-bell structured Pt@N-doped hollow carbon sphere for oxygen reduction electrocatalysis. *Chemical Engineering Journal*, **2021**, 409, 128101	14.7	17
203	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
202	Tannic acid decorated AuPd lavender-like nanochains for enhanced oxygen reduction electrocatalysis. *Journal of Materials Chemistry A*, **2021**, 9, 15678-15683	13	2
201	Electrocatalysis of gold-based nanoparticles and nanoclusters. *Materials Horizons*, **2021**, 8, 1657-1682	14.4	9
200	Mesoporous Rh nanotubes for efficient electro-oxidation of methanol. *Journal of Materials Chemistry A*, **2021**, 9, 4744-4750	13	8

199	Flexible synthesis of Au@Pd core-shell mesoporous nanoflowers for efficient methanol oxidation. *Nanoscale*, **2021**, 13, 3208-3213	7.7	6
198	Phosphorus modulation of a mesoporous rhodium film for enhanced nitrogen electroreduction. *Nanoscale*, **2021**, 13, 13809-13815	7.7	1
197	Construction of hierarchical IrTe nanotubes with assembled nanosheets for overall water splitting electrocatalysis. *Journal of Materials Chemistry A*, **2021**, 9, 18576-18581	13	4
196	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
195	Anodic hydrazine oxidation assisted hydrogen evolution over bimetallic RhIr mesoporous nanospheres. *Journal of Materials Chemistry A*, **2021**, 9, 18323-18328	13	5
194	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
193	Bimetallic mesoporous RhRu film for electrocatalytic nitrogen reduction to ammonia. *Inorganic Chemistry Frontiers*, **2021**, 8, 4276-4281	6.8	0
192	Enhanced electrocatalytic performance of mesoporous Au-Rh bimetallic films for ammonia synthesis. *Chemical Engineering Journal*, **2021**, 418, 129493	14.7	6
191	Mesoporous PdRu Nanocrystals for Oxygen Reduction Electrocatalysis. *Energy & Fuels*, **2021**, 35, 13382-13388	4.1	0
190	Dramatic Responsivity Enhancement Through Concentrated H SO Treatment on PEDOT:PSS/TiO Heterojunction Fibrous Photodetectors. *Small*, **2021**, 17, e2101674	11	4
189	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
188	PdNi/Ni Nanotubes Assembled by Mesoporous Nanoparticles for Efficient Alkaline Ethanol Oxidation Reaction. *Chemistry - A European Journal*, **2021**, 27, 14472-14477	4.8	3
187	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
186	Au nanowire modified with tannic acid for enhanced electrochemical synthesis of ammonia. *Materials Today Energy*, **2021**, 21, 100828	7	2
185	Concave-convex surface oxide layers over copper nanowires boost electrochemical nitrate-to-ammonia conversion. *Chemical Engineering Journal*, **2021**, 426, 130759	14.7	30
184	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
183	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
182	Pt3Sn nanoparticles enriched with SnO2/Pt3Sn interfaces for highly efficient alcohol electrooxidation. *Nanoscale Advances*, **2021**, 3, 5062-5067	5.1	3

181	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
180	Phosphorus-modified ruthenium–tellurium dendritic nanotubes outperform platinum for alkaline hydrogen evolution. *Journal of Materials Chemistry A*, **2021**, 9, 5026-5032	13	4
179	Cooperativity of Cu and Pd active sites in CuPd aerogels enhances nitrate electroreduction to ammonia. *Chemical Communications*, **2021**, 57, 7525-7528	5.8	18
178	A CO-Assisted Sodium-Phenanthrenequinone Battery. *Journal of Physical Chemistry Letters*, **2020**, 11, 5350-5353	6.4	2
177	Binary nonmetal S and P-co-doping into mesoporous PtPd nanocages boosts oxygen reduction electrocatalysis. *Nanoscale*, **2020**, 12, 14863-14869	7.7	10
176	Three-dimensional Pd-Ag-S porous nanosponges for electrocatalytic nitrogen reduction to ammonia. *Nanoscale*, **2020**, 12, 13507-13512	7.7	32
175	Bimetallic IrAu mesoporous nanovesicles. *Chemical Engineering Journal*, **2020**, 395, 125135	14.7	5
174	Enhancing hydrogen evolution activity of triangular PtPdCu nanodarts by phosphorus incorporation. *Chemical Engineering Journal*, **2020**, 399, 125810	14.7	23
173	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
172	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
171	Mesoporous Pt@PtM (M = Co, Ni) cage-bell nanostructures toward methanol electro-oxidation. *Nanoscale Advances*, **2020**, 2, 1084-1089	5.1	3
170	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
169	ZIF-derived porous carbon composites coated on NiCoS nanotubes array toward efficient water splitting. *Nanotechnology*, **2020**, 31, 195402	3.4	4
168	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
167	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
166	A P-doped PtTe mesoporous nanotube electrocatalyst. *Sustainable Energy and Fuels*, **2020**, 4, 2950-2955	5.8	6
165	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
164	Self-Powered Flexible TiO2 Fibrous Photodetectors: Heterojunction with P3HT and Boosted Responsivity and Selectivity by Au Nanoparticles. *Advanced Functional Materials*, **2020**, 30, 2001604	15.6	38

163	Integration mesoporous surface and hollow cavity into PtPdRh nano-octahedra for enhanced oxygen reduction electrocatalysis. *Nanotechnology*, **2020**, 31, 025401	3.4	2
162	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
161	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
160	High-performance alcohol electrooxidation on Pt3Sn□SnO2 nanocatalysts synthesized through the transformation of Pt□n nanoparticles. *Journal of Materials Chemistry A*, **2020**, 8, 592-598	13	13
159	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
158	Boron-Doped PdCuAu Nanospine Assembly as an Efficient Electrocatalyst toward Formic Acid Oxidation. *Chemistry - A European Journal*, **2020**, 26, 2493-2498	4.8	9
157	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
156	Engineering bunched RhTe nanochains for efficient methanol oxidation electrocatalysis. *Chemical Communications*, **2020**, 56, 13595-13598	5.8	29
155	Effects of AuCuB Catalysts with Porous Nanostructures on Electrosynthesis of Ammonia. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 12588-12594	8.3	6
154	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
153	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
152	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
151	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
150	Multinary PtPdNiP truncated octahedral mesoporous nanocages for enhanced methanol oxidation electrocatalysis. *New Journal of Chemistry*, **2020**, 44, 15492-15497	3.6	2
149	A mesoporous Au film with surface sulfur modification for efficient ammonia electrosynthesis. *Journal of Materials Chemistry A*, **2020**, 8, 20414-20419	13	27
148	Palladium Nanothorn Assembly Array for Efficient Electroreduction of Nitrogen to Ammonia. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 14228-14233	8.3	4
147	B-Doped PdRu nanopillar assemblies for enhanced formic acid oxidation electrocatalysis. *Nanoscale* , **2020**, 12, 19159-19164	7.7	11
146	Highly stable Ru nanoparticles incorporated in mesoporous carbon catalysts for production of □valerolactone. *Catalysis Today*, **2020**, 351, 75-82	5.3	7

145	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
144	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
143	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
142	Structurally ordered PtSn intermetallic nanoparticles supported on ATO for efficient methanol oxidation reaction. *Nanoscale*, **2019**, 11, 19895-19902	7.7	21
141	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
140	Metal–nonmetal nanoarchitectures: quaternary PtPdNiP mesoporous nanospheres for enhanced oxygen reduction electrocatalysis. *Journal of Materials Chemistry A*, **2019**, 7, 3910-3916	13	33
139	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
138	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
137	Direct synthesis of superlong Pt|Te mesoporous nanotubes for electrocatalytic oxygen reduction. *Journal of Materials Chemistry A*, **2019**, 7, 1711-1717	13	36
136	Direct fabrication of bimetallic AuPt nanobrick spherical nanoarchitectonics for the oxygen reduction reaction. *New Journal of Chemistry*, **2019**, 43, 9628-9633	3.6	4
135	Electrocatalytic Nitrogen Reduction to Ammonia by Fe2O3 Nanorod Array on Carbon Cloth. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 11754-11759	8.3	41
134	Bimetallic Ag3Cu porous networks for ambient electrolysis of nitrogen to ammonia. *Journal of Materials Chemistry A*, **2019**, 7, 12526-12531	13	44
133	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
132	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
131	Mesoporous AgPdPt Nanotubes as Electrocatalysts for the Oxygen Reduction Reaction. *ACS Applied Nano Materials*, **2019**, 2, 1876-1882	5.6	11
130	PtNiP 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
129	Intrinsic strain-induced segregation in multiply twinned Cu-Pt icosahedra. *Physical Chemistry Chemical Physics*, **2019**, 21, 4802-4809	3.6	6
128	Aerobic Activation of C-H Bond in Amines Over a Nanorod Manganese Oxide Catalyst. *ChemCatChem*, **2019**, 11, 401-406	5.2	11

127	 PtRu Yolk–Shell Nanostructured Electrocatalyst for Methanol Oxidation Reaction. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 14867-14873	8.3	19
126	All-metallic nanorattles consisting of a Pt core and a mesoporous PtPd shell for enhanced electrocatalysis. *Nanotechnology*, **2019**, 30, 475602	3.4	4
125	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
124	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
123	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
122	A Mesoporous Nanorattle-Structured Pd@PtRu Electrocatalyst. *Chemistry - an Asian Journal*, **2019**, 14, 3397-3403	4.5	3
121	Enhanced Oxygen Reduction and Methanol Oxidation Electrocatalysis over Bifunctional PtPdIr Mesoporous Hollow Nanospheres. *Chemistry - an Asian Journal*, **2019**, 14, 3868-3874	4.5	4
120	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
119	Trimetallic PtPdCo mesoporous nanopolyhedra with hollow cavities. *Nanoscale*, **2019**, 11, 4781-4787	7.7	21
118	Direct fabrication of bi-metallic PdRu nanorod assemblies for electrochemical ammonia synthesis. *Nanoscale*, **2019**, 11, 5499-5505	7.7	48
117	Boron-doped silver nanosponges with enhanced performance towards electrocatalytic nitrogen reduction to ammonia. *Chemical Communications*, **2019**, 55, 14745-14748	5.8	42
116	Amorphous Sulfur Decorated Gold Nanowires as Efficient Electrocatalysts toward Ambient Ammonia Synthesis. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 19969-19974	8.3	22
115	Ambient Nitrogen Reduction to Ammonia Electrocatalyzed by Bimetallic PdRu Porous Nanostructures. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 2400-2405	8.3	65
114	PtPdRh Mesoporous Nanospheres: An Efficient Catalyst for Methanol Electro-Oxidation. *Langmuir*, **2019**, 35, 413-419	4	19
113	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
112	Electrochemical Fabrication of Porous Au Film on Ni Foam for Nitrogen Reduction to Ammonia. *Small*, **2019**, 15, e1804769	11	109
111	Tri-metallic PtPdAu mesoporous nanoelectrocatalysts. *Nanotechnology*, **2018**, 29, 255404	3.4	19
110	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

109	Single-site catalyst promoters accelerate metal-catalyzed nitroarene hydrogenation. *Nature Communications*, **2018**, 9, 1362	17.4	111
108	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
107	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
106	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
105	A platinum oxide decorated amorphous cobalt oxide hydroxide nanosheet array towards alkaline hydrogen evolution. *Journal of Materials Chemistry A*, **2018**, 6, 3864-3868	13	51
104	Ultrafine PtO nanoparticles coupled with a Co(OH)F nanowire array for enhanced hydrogen evolution. *Chemical Communications*, **2018**, 54, 810-813	5.8	54
103	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
102	Mesoporous zeolites for biofuel upgrading and glycerol conversion. *Frontiers of Chemical Science and Engineering*, **2018**, 12, 132-144	4.5	15
101	Hydrophobic Zeolite Containing Titania Particles as Wettability-Selective Catalyst for Formaldehyde Removal. *ACS Catalysis*, **2018**, 8, 5250-5254	13.1	29
100	Subnanometric Gold Clusters on CeO2 with Maximized Strong Metal□Support Interactions for Aerobic Oxidation of Carbon□Hydrogen Bonds. *ACS Sustainable Chemistry and Engineering*, **2018**, 6, 6418-6424	8.3	11
99	Structural relaxation and glass transition behavior of binary hard-ellipse mixtures. *Science China Chemistry*, **2018**, 61, 613-618	7.9	1
98	Ultrathin nitrogen-doped graphitized carbon shell encapsulating CoRu bimetallic nanoparticles for enhanced electrocatalytic hydrogen evolution. *Nanotechnology*, **2018**, 29, 225403	3.4	26
97	Enhanced Dual Fuel Cell Electrocatalysis with Trimetallic PtPdCo Mesoporous Nanoparticles. *Chemistry - an Asian Journal*, **2018**, 13, 2939-2946	4.5	17
96	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
95	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
94	Sinter-resistant metal nanoparticle catalysts achieved by immobilization within zeolite crystals via seed-directed growth. *Nature Catalysis*, **2018**, 1, 540-546	36.5	175
93	Trimetallic [email□protected] Mesoporous Nanorods as Efficient Electrocatalysts for the Oxygen Reduction Reaction. *ACS Applied Energy Materials*, **2018**, 1, 4891-4898	6.1	20
92	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

91	Ambient Electrochemical Synthesis of Ammonia from Nitrogen and Water Catalyzed by Flower-Like Gold Microstructures. *ChemSusChem*, **2018**, 11, 3480-3485	8.3	139
90	Hyperbranched PdRu nanospine assemblies: an efficient electrocatalyst for formic acid oxidation. *Journal of Materials Chemistry A*, **2018**, 6, 17514-17518	13	24
89	A significant enhancement of catalytic performance by adjusting catalyst wettability. *Science China Materials*, **2018**, 61, 1137-1142	7.1	17
88	An ultrafine platinum-cobalt alloy decorated cobalt nanowire array with superb activity toward alkaline hydrogen evolution. *Nanoscale*, **2018**, 10, 12302-12307	7.7	162
87	One-pot synthesis of bimetallic PdCu nanoframes as an efficient catalyst for the methanol oxidation reaction. *New Journal of Chemistry*, **2018**, 42, 798-801	3.6	16
86	Importance of Zeolite Wettability for Selective Hydrogenation of Furfural over Catalysts. *ACS Catalysis*, **2018**, 8, 474-481	13.1	101
85	High-Capacity and High-Rate Discharging of a Coenzyme Q -Catalyzed Li-O Battery. *Advanced Materials*, **2018**, 30, 1705571	24	71
84	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
83	Engineering porosity into trimetallic PtPdNi nanospheres for enhanced electrocatalytic oxygen reduction activity. *Green Energy and Environment*, **2018**, 3, 352-359	5.7	11
82	Heteroatom-doped carbon materials and their composites as electrocatalysts for CO2 reduction. *Journal of Materials Chemistry A*, **2018**, 6, 18782-18793	13	89
81	A hierarchical CoTe-MnTe hybrid nanowire array enables high activity for oxygen evolution reactions. *Chemical Communications*, **2018**, 54, 10993-10996	5.8	108
80	Design Synthesis of ITE Zeolite Using Nickel-Amine Complex as an Efficient Structure-Directing Agent. *ACS Applied Materials & Interfaces*, **2018**, 10, 33214-33220	9.5	7
79	Mesoporous Co O Nanobundle Electrocatalysts. *Chemistry - an Asian Journal*, **2018**, 13, 2093	4.5	4
78	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
77	Solvent-free and Mesoporogen-free Synthesis of Mesoporous Aluminosilicate ZSM-5 Zeolites with Superior Catalytic Properties in the Methanol-to-Olefins Reaction. *Industrial & Engineering Chemistry Research*, **2017**, 56, 1450-1460	3.9	40
76	Hierarchical Sn-Beta Zeolite Catalyst for the Conversion of Sugars to Alkyl Lactates. *ACS Sustainable Chemistry and Engineering*, **2017**, 5, 3123-3131	8.3	47
75	Selective hydrogenolysis of carbon-oxygen bonds with formic acid over a Au-Pt alloy catalyst. *Chemical Communications*, **2017**, 53, 2681-2684	5.8	14
74	One-pot synthesis of PtIr tripods with a dendritic surface as an efficient catalyst for the oxygen reduction reaction. *Journal of Materials Chemistry A*, **2017**, 5, 9107-9112	13	49

73	Controllable cyanation of carbon-hydrogen bonds by zeolite crystals over manganese oxide catalyst. *Nature Communications*, **2017**, 8, 15240	17.4	42
72	A Three-Dimensionally Structured Electrocatalyst: Cobalt-Embedded Nitrogen-Doped Carbon Nanotubes/Nitrogen-Doped Reduced Graphene Oxide Hybrid for Efficient Oxygen Reduction. *Chemistry - A European Journal*, **2017**, 23, 637-643	4.8	42
71	One-pot synthesis of PtRu nanodendrites as efficient catalysts for methanol oxidation reaction. *Nanoscale*, **2017**, 9, 1033-1039	7.7	133
70	Strong Metal□Support Interactions Achieved by Hydroxide-to-Oxide Support Transformation for Preparation of Sinter-Resistant Gold Nanoparticle Catalysts. *ACS Catalysis*, **2017**, 7, 7461-7465	13.1	109
69	Two-dimensional metal-organic frameworks with high oxidation states for efficient electrocatalytic urea oxidation. *Chemical Communications*, **2017**, 53, 10906-10909	5.8	218
68	Ordered Mesoporous Silica-Based Catalysts for Biomass Conversion **2017**, 99-125		1
67	Mesoporous Zeolite for Biomass Conversion **2017**, 209-230		1
66	Rational one-step synthesis of porous PtPdRu nanodendrites for ethanol oxidation reaction with a superior tolerance for CO-poisoning. *Nanoscale*, **2017**, 9, 18881-18889	7.7	52
65	Nonmonotonic dynamic correlations in quasi-two-dimensional confined glass-forming liquids. *Physical Review E*, **2017**, 95, 050601	2.4	7
64	A Hierarchical Bipyridine-Constructed Framework for Highly Efficient Carbon Dioxide Capture and Catalytic Conversion. *ChemSusChem*, **2017**, 10, 1186-1192	8.3	72
63	Zirconium Oxide Supported Palladium Nanoparticles as a Highly Efficient Catalyst in the Hydrogenation□Amination of Levulinic Acid to Pyrrolidones. *ChemCatChem*, **2017**, 9, 2661-2667	5.2	37
62	Rational Design of Zirconium-doped Titania Photocatalysts with Synergistic Br□sted Acidity and Photoactivity. *ChemSusChem*, **2016**, 9, 2759-2764	8.3	3
61	Gaseous NH3 Confers Porous Pt Nanodendrites Assisted by Halides. *Scientific Reports*, **2016**, 6, 26196	4.9	7
60	Product Selectivity Controlled by Zeolite Crystals in Biomass Hydrogenation over a Palladium Catalyst. *Journal of the American Chemical Society*, **2016**, 138, 7880-3	16.4	205
59	One-Step Synthesis of Dendritic Bimetallic PtPd Nanoparticles on Reduced Graphene Oxide and Its Electrocatalytic Properties. *Electrochimica Acta*, **2016**, 188, 845-851	6.7	77
58	Shape-controlled synthesis of porous AuPt nanoparticles and their superior electrocatalytic activity for oxygen reduction reaction. *Science and Technology of Advanced Materials*, **2016**, 17, 58-62	7.1	12
57	Smart design of hollow AuPt nanospheres with a porous shell as superior electrocatalysts for ethylene glycol oxidation. *RSC Advances*, **2016**, 6, 19632-19637	3.7	18
56	One-step solution-phase synthesis of bimetallic PtCo nanodendrites with high electrocatalytic activity for oxygen reduction reaction. *Journal of Electroanalytical Chemistry*, **2016**, 779, 250-255	4.1	32

55	Hydrogen gas-assisted synthesis of worm-like PtMo wavy nanowires as efficient catalysts for the methanol oxidation reaction. *Journal of Materials Chemistry A*, **2016**, 4, 10508-10513	13	50
54	Enhancement of Catalytic Activity in Epoxide Hydration by Increasing the Concentration of Cobalt(III)/Salen in Porous Polymer Catalysts. *ChemCatChem*, **2016**, 8, 812-817	5.2	15
53	Facile Synthesis of Porous Dendritic Bimetallic Platinum-Nickel Nanocrystals as Efficient Catalysts for the Oxygen Reduction Reaction. *Chemistry - an Asian Journal*, **2016**, 11, 1388-93	4.5	40
52	Synthesis of Hollow Platinum-Palladium Nanospheres with a Dendritic Shell as Efficient Electrocatalysts for Methanol Oxidation. *Chemistry - an Asian Journal*, **2016**, 11, 1939-44	4.5	36
51	Activity and Selectivity in Nitroarene Hydrogenation over Au Nanoparticles on the Edge/Corner of Anatase. *ACS Catalysis*, **2016**, 6, 4110-4116	13.1	65
50	Two-dimensional gold nanostructures with high activity for selective oxidation of carbon-hydrogen bonds. *Nature Communications*, **2015**, 6, 6957	17.4	98
49	A Solution Phase Synthesis of Dendritic Platinum Nanoelectrocatalysts with the Assistance of Polyoxyethylene Nonylphenyl Ether. *Journal of Inorganic and Organometallic Polymers and Materials* , **2015**, 25, 245-250	3.2	5
48	One-step synthesis of trimetallic PtPdRu nanodendrites as highly active electrocatalysts. *RSC Advances*, **2015**, 5, 31147-31152	3.7	52
47	Mesoporous ZSM-5 Zeolite-Supported Ru Nanoparticles as Highly Efficient Catalysts for Upgrading Phenolic Biomolecules. *ACS Catalysis*, **2015**, 5, 2727-2734	13.1	113
46	Trimetallic PtPdRu Dendritic Nanocages with Three-Dimensional Electrocatalytic Surfaces. *Journal of Physical Chemistry C*, **2015**, 119, 19947-19953	3.8	71
45	One-step synthesis of porous bimetallic PtCu nanocrystals with high electrocatalytic activity for methanol oxidation reaction. *Nanoscale*, **2015**, 7, 16860-6	7.7	94
44	Enhanced catalytic performance in dehydration of sorbitol to isosorbide over a superhydrophobic mesoporous acid catalyst. *Catalysis Today*, **2015**, 242, 249-254	5.3	57
43	Nanoporous catalysts for biomass conversion. *Green Chemistry*, **2015**, 17, 24-39	10	105
42	Solvent-Free Synthesis of Zeolite Crystals Encapsulating Gold-Palladium Nanoparticles for the Selective Oxidation of Bioethanol. *ChemSusChem*, **2015**, 8, 2867-71	8.3	45
41	Nanoparticle in Nanocage: Au@Porous Pt Yolk-Shell Nanoelectrocatalysts. *Particle and Particle Systems Characterization*, **2015**, 32, 863-868	3.1	31
40	Design and Preparation of Supported Au Catalyst with Enhanced Catalytic Activities by Rationally Positioning Au Nanoparticles on Anatase. *Journal of Physical Chemistry Letters*, **2015**, 6, 2345-9	6.4	27
39	Solvent-free synthesis of titanosilicate zeolites. *Journal of Materials Chemistry A*, **2015**, 3, 14093-14095	13	48
38	Selective catalytic production of 5-hydroxymethylfurfural from glucose by adjusting catalyst wettability. *ChemSusChem*, **2014**, 7, 402-6	8.3	106

37	The Importance of Catalyst Wettability. *ChemCatChem*, **2014**, 6, 3048-3052	5.2	79
36	A significant enhancement of catalytic activities in oxidation with H2O2 over the TS-1 zeolite by adjusting the catalyst wettability. *Chemical Communications*, **2014**, 50, 2012-4	5.8	52
35	Creation of Br□sted acid sites on Sn-based solid catalysts for the conversion of biomass. *Journal of Materials Chemistry A*, **2014**, 2, 3725	13	37
34	Superior Performance in Catalytic Combustion of Toluene over KZSM-5 Zeolite Supported Platinum Catalyst. *Catalysis Letters*, **2014**, 144, 1851-1859	2.8	33
33	Macroporous carbon decorated with dendritic platinum nanoparticles: one-step synthesis and electrocatalytic properties. *Nanoscale*, **2014**, 6, 4806-11	7.7	13
32	Hydrogenation of biofuels with formic acid over a palladium-based ternary catalyst with two types of active sites. *ChemSusChem*, **2014**, 7, 1537-41	8.3	37
31	Self-assembled platinum nanoflowers on polydopamine-coated reduced graphene oxide for methanol oxidation and oxygen reduction reactions. *Chemistry - an Asian Journal*, **2014**, 9, 3221-7	4.5	15
30	Sulfonated hollow sphere carbon as an efficient catalyst for acetalisation of glycerol. *Journal of Materials Chemistry A*, **2013**, 1, 9422	13	50
29	Metallic nanocages: synthesis of bimetallic Pt-Pd hollow nanoparticles with dendritic shells by selective chemical etching. *Journal of the American Chemical Society*, **2013**, 135, 16762-5	16.4	416
28	Membranes of Poly (Vinyl Butyral) (PVB) or Cationic PVB (CPVB) Blended with Poly (Vinylidene Fluoride) (PVDF) Prepared by a Nonsolvent Induced Phase Separation Method: Miscibility and Hydrophilicity. *Journal of Macromolecular Science - Physics*, **2012**, 51, 1851-1863	1.4	6
27	Rapid synthesis of biocompatible gold nanoflowers with tailored surface textures with the assistance of amino acid molecules. *RSC Advances*, **2012**, 2, 4608	3.7	50
26	Tailored design of architecturally controlled Pt nanoparticles with huge surface areas toward superior unsupported Pt electrocatalysts. *ACS Applied Materials & Interfaces*, **2012**, 4, 2865-9	9.5	56
25	Synthesis of Mesoporous Pt Films with Tunable Pore Sizes from Aqueous Surfactant Solutions. *Chemistry of Materials*, **2012**, 24, 1591-1598	9.6	148
24	Tailored synthesis of various Au nanoarchitectures with branched shapes. *CrystEngComm*, **2012**, 14, 7594	3.3	29
23	Electrochemical synthesis of mesoporous Pt-Au binary alloys with tunable compositions for enhancement of electrochemical performance. *Journal of the American Chemical Society*, **2012**, 134, 5100-9	16.4	223
22	Synthesis of novel polyarylate with elecrooptical chromophores as side chain as electro-optic host polymer. *Colloid and Polymer Science*, **2012**, 290, 1215-1220	2.4	19
21	Strategic Synthesis of Trimetallic [email□protected]@Pt Core□Shell Nanoparticles from Poly(vinylpyrrolidone)-Based Aqueous Solution toward Highly Active Electrocatalysts. *Chemistry of Materials*, **2011**, 23, 2457-2465	9.6	235
20	Shape- and size-controlled synthesis in hard templates: sophisticated chemical reduction for mesoporous monocrystalline platinum nanoparticles. *Journal of the American Chemical Society*, **2011**, 133, 14526-9	16.4	336

19	Synthesis of mesoporous Pt nanoparticles with uniform particle size from aqueous surfactant solutions toward highly active electrocatalysts. *Chemistry - A European Journal*, **2011**, 17, 8810-5	4.8	65
18	Rational synthesis of Pt spheres with hollow interior and nanosponge shell using silica particles as template. *Chemical Communications*, **2011**, 47, 3885-7	5.8	105
17	Direct synthesis of spatially-controlled Pt-on-Pd bimetallic nanodendrites with superior electrocatalytic activity. *Journal of the American Chemical Society*, **2011**, 133, 9674-7	16.4	478
16	Synthesis of Bimetallic Au@Pt Nanoparticles with Au Core and Nanostructured Pt Shell toward Highly Active Electrocatalysts. *Chemistry of Materials*, **2010**, 22, 6310-6318	9.6	348
15	Rapid and Efficient Synthesis of Platinum Nanodendrites with High Surface Area by Chemical Reduction with Formic Acid. *Chemistry of Materials*, **2010**, 22, 2835-2841	9.6	130
14	On the Role of Ascorbic Acid in the Synthesis of Single-Crystal Hyperbranched Platinum Nanostructures. *Crystal Growth and Design*, **2010**, 10, 3454-3460	3.5	82
13	Autoprogrammed synthesis of triple-layered Au@Pd@Pt core-shell nanoparticles consisting of a Au@Pd bimetallic core and nanoporous Pt shell. *Journal of the American Chemical Society*, **2010**, 132, 13636-8	16.4	310
12	Block copolymer assisted synthesis of bimetallic colloids with Au core and nanodendritic Pt shell. *Chemical Communications*, **2010**, 46, 3684-6	5.8	112
11	Controlled aqueous solution synthesis of platinum-palladium alloy nanodendrites with various compositions using amphiphilic triblock copolymers. *Chemistry - an Asian Journal*, **2010**, 5, 2493-8	4.5	68
10	Rheology behavior of high-density polyethylene/diluent blends and fabrication of hollow-fiber membranes via thermally induced phase separation. *Journal of Applied Polymer Science*, **2010**, 118, n/a-n/a	2.9	1
9	Breakthrough and future: nanoscale controls of compositions, morphologies, and mesochannel orientations toward advanced mesoporous materials. *Chemical Record*, **2009**, 9, 321-39	6.6	97
8	Block copolymer mediated synthesis of dendritic platinum nanoparticles. *Journal of the American Chemical Society*, **2009**, 131, 9152-3	16.4	311
7	Facile Synthesis of Three-Dimensional Dendritic Platinum Nanoelectrocatalyst. *Chemistry of Materials*, **2009**, 21, 3562-3569	9.6	158
6	A Novel Urchinlike Gold/Platinum Hybrid Nanocatalyst with Controlled Size. *Journal of Physical Chemistry C*, **2008**, 112, 13510-13515	3.8	65
5	Direct Electrochemistry of Catalase at a Gold Electrode Modified with Single-Wall Carbon Nanotubes. *Electroanalysis*, **2004**, 16, 627-632	3	124
4	Strategies for designing more efficient electrocatalysts towards the urea oxidation reaction. *Journal of Materials Chemistry A*,	13	13
3	Microstructure and properties of porous Si3N4 ceramics by gelcasting-self-propagating high-temperature synthesis (SHS). *Journal of Advanced Ceramics*,1	10.7	1
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