Liang Wang

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

#	Paper	IF	Citations
234	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
233	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
232	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
231	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
230	Block copolymer mediated synthesis of dendritic platinum nanoparticles. *Journal of the American Chemical Society*, **2009**, 131, 9152-3	16.4	311
229	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
228	Strategic Synthesis of Trimetallic @Pt Core–Shell Nanoparticles from Poly(vinylpyrrolidone)-Based Aqueous Solution toward Highly Active Electrocatalysts. *Chemistry of Materials*, **2011**, 23, 2457-2465	9.6	235
227	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
226	Two-dimensional metal-organic frameworks with high oxidation states for efficient electrocatalytic urea oxidation. *Chemical Communications*, **2017**, 53, 10906-10909	5.8	218
225	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
224	Sinter-resistant metal nanoparticle catalysts achieved by immobilization within zeolite crystals via seed-directed growth. *Nature Catalysis*, **2018**, 1, 540-546	36.5	175
223	An ultrafine platinum-cobalt alloy decorated cobalt nanowire array with superb activity toward alkaline hydrogen evolution. *Nanoscale*, **2018**, 10, 12302-12307	7.7	162
222	Facile Synthesis of Three-Dimensional Dendritic Platinum Nanoelectrocatalyst. *Chemistry of Materials*, **2009**, 21, 3562-3569	9.6	158
221	Synthesis of Mesoporous Pt Films with Tunable Pore Sizes from Aqueous Surfactant Solutions. *Chemistry of Materials*, **2012**, 24, 1591-1598	9.6	148
220	Ambient Electrochemical Synthesis of Ammonia from Nitrogen and Water Catalyzed by Flower-Like Gold Microstructures. *ChemSusChem*, **2018**, 11, 3480-3485	8.3	139
219	One-pot synthesis of PtRu nanodendrites as efficient catalysts for methanol oxidation reaction. *Nanoscale*, **2017**, 9, 1033-1039	7.7	133
218	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

217	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
216	Direct Electrochemistry of Catalase at a Gold Electrode Modified with Single-Wall Carbon Nanotubes. *Electroanalysis*, **2004**, 16, 627-632	3	124
215	Mesoporous ZSM-5 Zeolite-Supported Ru Nanoparticles as Highly Efficient Catalysts for Upgrading Phenolic Biomolecules. *ACS Catalysis*, **2015**, 5, 2727-2734	13.1	113
214	Block copolymer assisted synthesis of bimetallic colloids with Au core and nanodendritic Pt shell. *Chemical Communications*, **2010**, 46, 3684-6	5.8	112
213	Single-site catalyst promoters accelerate metal-catalyzed nitroarene hydrogenation. *Nature Communications*, **2018**, 9, 1362	17.4	111
212	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
211	Electrochemical Fabrication of Porous Au Film on Ni Foam for Nitrogen Reduction to Ammonia. *Small*, **2019**, 15, e1804769	11	109
210	A hierarchical CoTe-MnTe hybrid nanowire array enables high activity for oxygen evolution reactions. *Chemical Communications*, **2018**, 54, 10993-10996	5.8	108
209	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
208	Selective catalytic production of 5-hydroxymethylfurfural from glucose by adjusting catalyst wettability. *ChemSusChem*, **2014**, 7, 402-6	8.3	106
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206	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
205	Importance of Zeolite Wettability for Selective Hydrogenation of Furfural over [email□protected] Catalysts. *ACS Catalysis*, **2018**, 8, 474-481	13.1	101
204	Two-dimensional gold nanostructures with high activity for selective oxidation of carbon-hydrogen bonds. *Nature Communications*, **2015**, 6, 6957	17.4	98
203	Breakthrough and future: nanoscale controls of compositions, morphologies, and mesochannel orientations toward advanced mesoporous materials. *Chemical Record*, **2009**, 9, 321-39	6.6	97
202	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
201	One-step synthesis of porous bimetallic PtCu nanocrystals with high electrocatalytic activity for methanol oxidation reaction. *Nanoscale*, **2015**, 7, 16860-6	7.7	94
200	Heteroatom-doped carbon materials and their composites as electrocatalysts for CO2 reduction. *Journal of Materials Chemistry A*, **2018**, 6, 18782-18793	13	89

199	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
198	The Importance of Catalyst Wettability. *ChemCatChem*, **2014**, 6, 3048-3052	5.2	79
197	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
196	A Hierarchical Bipyridine-Constructed Framework for Highly Efficient Carbon Dioxide Capture and Catalytic Conversion. *ChemSusChem*, **2017**, 10, 1186-1192	8.3	72
195	Trimetallic PtPdRu Dendritic Nanocages with Three-Dimensional Electrocatalytic Surfaces. *Journal of Physical Chemistry C*, **2015**, 119, 19947-19953	3.8	71
194	High-Capacity and High-Rate Discharging of a Coenzyme Q -Catalyzed Li-O Battery. *Advanced Materials*, **2018**, 30, 1705571	24	71
193	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
192	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
191	A Novel Urchinlike Gold/Platinum Hybrid Nanocatalyst with Controlled Size. *Journal of Physical Chemistry C*, **2008**, 112, 13510-13515	3.8	65
190	Activity and Selectivity in Nitroarene Hydrogenation over Au Nanoparticles on the Edge/Corner of Anatase. *ACS Catalysis*, **2016**, 6, 4110-4116	13.1	65
189	Ambient Nitrogen Reduction to Ammonia Electrocatalyzed by Bimetallic PdRu Porous Nanostructures. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 2400-2405	8.3	65
188	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
187	Defect-Rich Porous Palladium Metallene for Enhanced Alkaline Oxygen Reduction Electrocatalysis. *Angewandte Chemie - International Edition*, **2021**, 60, 12027-12031	16.4	58
186	Enhanced catalytic performance in dehydration of sorbitol to isosorbide over a superhydrophobic mesoporous acid catalyst. *Catalysis Today*, **2015**, 242, 249-254	5.3	57
185	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
184	Ultrafine PtO nanoparticles coupled with a Co(OH)F nanowire array for enhanced hydrogen evolution. *Chemical Communications*, **2018**, 54, 810-813	5.8	54
183	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
182	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

181	One-step synthesis of trimetallic PtPdRu nanodendrites as highly active electrocatalysts. *RSC Advances*, **2015**, 5, 31147-31152	3.7	52
180	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
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177	Sulfonated hollow sphere carbon as an efficient catalyst for acetalisation of glycerol. *Journal of Materials Chemistry A*, **2013**, 1, 9422	13	50
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175	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
174	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
173	Solvent-free synthesis of titanosilicate zeolites. *Journal of Materials Chemistry A*, **2015**, 3, 14093-14095	13	48
172	Direct fabrication of bi-metallic PdRu nanorod assemblies for electrochemical ammonia synthesis. *Nanoscale*, **2019**, 11, 5499-5505	7.7	48
171	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
170	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
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168	Bimetallic Ag3Cu porous networks for ambient electrolysis of nitrogen to ammonia. *Journal of Materials Chemistry A*, **2019**, 7, 12526-12531	13	44
167	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
166	Controllable cyanation of carbon-hydrogen bonds by zeolite crystals over manganese oxide catalyst. *Nature Communications*, **2017**, 8, 15240	17.4	42
165	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
164	Boron-doped silver nanosponges with enhanced performance towards electrocatalytic nitrogen reduction to ammonia. *Chemical Communications*, **2019**, 55, 14745-14748	5.8	42

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162	Electrocatalytic Nitrogen Reduction to Ammonia by Fe2O3 Nanorod Array on Carbon Cloth. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 11754-11759	8.3	41
161	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
160	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
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157	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
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155	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
154	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
153	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
152	Direct synthesis of superlong Pt|Te mesoporous nanotubes for electrocatalytic oxygen reduction. *Journal of Materials Chemistry A*, **2019**, 7, 1711-1717	13	36
151	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
150	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
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147	Three-dimensional Pd-Ag-S porous nanosponges for electrocatalytic nitrogen reduction to ammonia. *Nanoscale*, **2020**, 12, 13507-13512	7.7	32
146	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

145	Nanoparticle in Nanocage: Au@Porous Pt Yolk-Shell Nanoelectrocatalysts. *Particle and Particle Systems Characterization*, **2015**, 32, 863-868	3.1	31
144	Concave-convex surface oxide layers over copper nanowires boost electrochemical nitrate-to-ammonia conversion. *Chemical Engineering Journal*, **2021**, 426, 130759	14.7	30
143	Hydrophobic Zeolite Containing Titania Particles as Wettability-Selective Catalyst for Formaldehyde Removal. *ACS Catalysis*, **2018**, 8, 5250-5254	13.1	29
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139	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
138	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
137	A mesoporous Au film with surface sulfur modification for efficient ammonia electrosynthesis. *Journal of Materials Chemistry A*, **2020**, 8, 20414-20419	13	27
136	Ultrathin nitrogen-doped graphitized carbon shell encapsulating CoRu bimetallic nanoparticles for enhanced electrocatalytic hydrogen evolution. *Nanotechnology*, **2018**, 29, 225403	3.4	26
135	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
134	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
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132	Enhancing hydrogen evolution activity of triangular PtPdCu nanodarts by phosphorus incorporation. *Chemical Engineering Journal*, **2020**, 399, 125810	14.7	23
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126	Trimetallic Mesoporous Nanorods as Efficient Electrocatalysts for the Oxygen Reduction Reaction. *ACS Applied Energy Materials*, **2018**, 1, 4891-4898	6.1	20
125	Enhancing electrochemical ammonia synthesis on palladium nanorods through surface hydrogenation. *Chemical Engineering Journal*, **2021**, 416, 129105	14.7	20
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123	Tri-metallic PtPdAu mesoporous nanoelectrocatalysts. *Nanotechnology*, **2018**, 29, 255404	3.4	19
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121	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
120	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
119	PtPdRh Mesoporous Nanospheres: An Efficient Catalyst for Methanol Electro-Oxidation. *Langmuir*, **2019**, 35, 413-419	4	19
118	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
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116	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
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113	Cooperativity of Cu and Pd active sites in CuPd aerogels enhances nitrate electroreduction to ammonia. *Chemical Communications*, **2021**, 57, 7525-7528	5.8	18
112	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
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110	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

109	Enhanced Dual Fuel Cell Electrocatalysis with Trimetallic PtPdCo Mesoporous Nanoparticles. *Chemistry - an Asian Journal*, **2018**, 13, 2939-2946	4.5	17
108	A significant enhancement of catalytic performance by adjusting catalyst wettability. *Science China Materials*, **2018**, 61, 1137-1142	7.1	17
107	Cage-bell structured Pt@N-doped hollow carbon sphere for oxygen reduction electrocatalysis. *Chemical Engineering Journal*, **2021**, 409, 128101	14.7	17
106	Surface Engineering of Defective and Porous Ir Metallene with Polyallylamine for Hydrogen Evolution Electrocatalysis.. *Advanced Materials*, **2022**, e2110680	24	17
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104	Mesoporous zeolites for biofuel upgrading and glycerol conversion. *Frontiers of Chemical Science and Engineering*, **2018**, 12, 132-144	4.5	15
103	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
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101	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
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99	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
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94	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
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92	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

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89	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
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86	B-Doped PdRu nanopillar assemblies for enhanced formic acid oxidation electrocatalysis. *Nanoscale* , **2020**, 12, 19159-19164	7.7	11
85	Defect-Rich Porous Palladium Metallene for Enhanced Alkaline Oxygen Reduction Electrocatalysis. *Angewandte Chemie*, **2021**, 133, 12134-12138	3.6	11
84	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
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