

Ya-Wen Tang

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189
papers

8,408
citations

51
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84
g-index

198
ext. papers

10,619
ext. citations

9.2
avg, IF

6.68
L-index

| # | Paper | IF | Citations |
|-----|--|------|-----------|
| 189 | Boosting Bifunctional Oxygen Electrocatalysis with 3D Graphene Aerogel-Supported Ni/MnO Particles. <i>Advanced Materials</i> , 2018 , 30, 1704609 | 24 | 389 |
| 188 | Ni ₃ Fe-N Doped Carbon Sheets as a Bifunctional Electrocatalyst for Air Cathodes. <i>Advanced Energy Materials</i> , 2017 , 7, 1601172 | 21.8 | 305 |
| 187 | Atomic Fe Dispersed on N-Doped Carbon Hollow Nanospheres for High-Efficiency Electrocatalytic Oxygen Reduction. <i>Advanced Materials</i> , 2019 , 31, e1806312 | 24 | 296 |
| 186 | One-Pot Water-Based Synthesis of PtPd Alloy Nanoflowers and Their Superior Electrocatalytic Activity for the Oxygen Reduction Reaction and Remarkable Methanol-Tolerant Ability in Acid Media. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 9826-9834 | 3.8 | 229 |
| 185 | Dual Single-Atomic Ni-N and Fe-N Sites Constructing Janus Hollow Graphene for Selective Oxygen Electrocatalysis. <i>Advanced Materials</i> , 2020 , 32, e2003134 | 24 | 197 |
| 184 | Novel Hydrogel-Derived Bifunctional Oxygen Electrocatalyst for Rechargeable Air Cathodes. <i>Nano Letters</i> , 2016 , 16, 6516-6522 | 11.5 | 192 |
| 183 | Carbon-supported PdPt catalyst as anodic catalyst in direct formic acid fuel cell. <i>Journal of Power Sources</i> , 2008 , 175, 784-788 | 8.9 | 183 |
| 182 | Hierarchically mesoporous nickel-iron nitride as a cost-efficient and highly durable electrocatalyst for Zn-air battery. <i>Nano Energy</i> , 2017 , 39, 77-85 | 17.1 | 172 |
| 181 | Exploring Indium-Based Ternary Thiospinel as Conceivable High-Potential Air-Cathode for Rechargeable ZnAir Batteries. <i>Advanced Energy Materials</i> , 2018 , 8, 1802263 | 21.8 | 164 |
| 180 | Autocatalysis and selective oxidative etching induced synthesis of platinum-copper bimetallic alloy nanodendrites electrocatalysts. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 7301-8 | 9.5 | 156 |
| 179 | Anchoring CoFeO Nanoparticles on N-Doped Carbon Nanofibers for High-Performance Oxygen Evolution Reaction. <i>Advanced Science</i> , 2017 , 4, 1700226 | 13.6 | 152 |
| 178 | Superior Oxygen Electrocatalysis on Nickel Indium Thiospinels for Rechargeable ZnAir Batteries 2019 , 1, 123-131 | | 135 |
| 177 | PlatinumCobalt alloy networks for methanol oxidation electrocatalysis. <i>Journal of Materials Chemistry</i> , 2012 , 22, 23659 | | 125 |
| 176 | Regulating the Electronic Structure of CoP Nanosheets by O Incorporation for High-Efficiency Electrochemical Overall Water Splitting. <i>Advanced Functional Materials</i> , 2020 , 30, 1905252 | 15.6 | 124 |
| 175 | Encapsulation of Ni ₃ Fe Nanoparticles in N-Doped Carbon NanotubeGrafted Carbon Nanofibers as High-Efficiency Hydrogen Evolution Electrocatalysts. <i>Advanced Functional Materials</i> , 2018 , 28, 1805828 | 15.6 | 124 |
| 174 | Preparation of carbon supported PdPt catalyst with high content of element phosphorus and its electrocatalytic performance for formic acid oxidation. <i>Electrochemistry Communications</i> , 2010 , 12, 492-495 | 5.1 | 114 |
| 173 | Trimetallic PtAgCu@PtCu core@shell concave nanooctahedrons with enhanced activity for formic acid oxidation reaction. <i>Nano Energy</i> , 2015 , 12, 824-832 | 17.1 | 111 |

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| 172 | Zinc-air batteries: are they ready for prime time?. <i>Chemical Science</i> , 2019 , 10, 8924-8929 | 9.4 | 110 |
| 171 | Alveolate porous carbon aerogels supported Co ₉ S ₈ derived from a novel hybrid hydrogel for bifunctional oxygen electrocatalysis. <i>Carbon</i> , 2019 , 144, 557-566 | 10.4 | 109 |
| 170 | Hierarchically Porous Co/Co M (M = P, N) as an Efficient Mott-Schottky Electrocatalyst for Oxygen Evolution in Rechargeable Zn-Air Batteries. <i>Small</i> , 2019 , 15, e1901518 | 11 | 108 |
| 169 | One-Pot Synthesis of Freestanding Porous Palladium Nanosheets as Highly Efficient Electrocatalysts for Formic Acid Oxidation. <i>Advanced Functional Materials</i> , 2017 , 27, 1603852 | 15.6 | 108 |
| 168 | Robust N-doped carbon aerogels strongly coupled with iron-cobalt particles as efficient bifunctional catalysts for rechargeable Zn-air batteries. <i>Nanoscale</i> , 2018 , 10, 19937-19944 | 7.7 | 108 |
| 167 | Synthesis and electrocatalytic activity of Au@Pd core-shell nanothorns for the oxygen reduction reaction. <i>Nano Research</i> , 2014 , 7, 1205-1214 | 10 | 107 |
| 166 | Recent Advances in Carbon-Based Bifunctional Oxygen Electrocatalysts for Zn/Air Batteries. <i>ChemElectroChem</i> , 2018 , 5, 1424-1434 | 4.3 | 102 |
| 165 | Morphological and Interfacial Control of Platinum Nanostructures for Electrocatalytic Oxygen Reduction. <i>ACS Catalysis</i> , 2016 , 6, 5260-5267 | 13.1 | 100 |
| 164 | A carbon-supported Pd-P catalyst as the anodic catalyst in a direct formic acid fuel cell. <i>Journal of Power Sources</i> , 2006 , 162, 177-179 | 8.9 | 99 |
| 163 | Double-Network Nanostructured Hydrogel-Derived Ultrafine Sn-Fe Alloy in Three-Dimensional Carbon Framework for Enhanced Lithium Storage. <i>Nano Letters</i> , 2018 , 18, 3193-3198 | 11.5 | 90 |
| 162 | Dendritic platinum-copper bimetallic nanoassemblies with tunable composition and structure: Arginine-driven self-assembly and enhanced electrocatalytic activity. <i>Nano Research</i> , 2016 , 9, 755-765 | 10 | 89 |
| 161 | One-pot synthesis of three-dimensional platinum nanochain networks as stable and active electrocatalysts for oxygen reduction reactions. <i>Journal of Materials Chemistry</i> , 2012 , 22, 13585 | | 88 |
| 160 | Interface engineering of oxygen-vacancy-rich CoP/CeO ₂ heterostructure boosts oxygen evolution reaction. <i>Chemical Engineering Journal</i> , 2020 , 395, 125160 | 14.7 | 81 |
| 159 | Facile synthesis of Pd _{1-x} Co _x ternary alloy network nanostructures and their enhanced electrocatalytic activity towards hydrazine oxidation. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 1252-1256 | 13 | 77 |
| 158 | Facile Synthesis of Porous Pd Pt Half-Shells with Rich "Active Sites" as Efficient Catalysts for Formic Acid Oxidation. <i>Small</i> , 2018 , 14, e1703940 | 11 | 73 |
| 157 | Robust bifunctional oxygen electrocatalyst with a rigid and flexible structure for air-cathodes. <i>NPG Asia Materials</i> , 2018 , 10, 618-629 | 10.3 | 72 |
| 156 | 3D Space-Confined Pyrolysis of Double-Network Aerogels Containing In@Fe Cyanogel and Polyaniline: A New Approach to Hierarchically Porous Carbon with Exclusive Fe _{1-x} N _x Active Sites for Oxygen Reduction Catalysis. <i>Small Methods</i> , 2017 , 1, 1700167 | 12.8 | 67 |
| 155 | Recent progress in Co ₉ S ₈ -based materials for hydrogen and oxygen electrocatalysis. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 16068-16088 | 13 | 66 |

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|-----|---|------|----|
| 154 | Ultrathin AgPt alloy nanowires as a high-performance electrocatalyst for formic acid oxidation. <i>Nano Research</i> , 2018 , 11, 499-510 | 10 | 66 |
| 153 | Facile synthesis of corallite-like PtPd alloy nanostructures and their enhanced catalytic activity and stability for ethanol oxidation. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 13840 | 13 | 66 |
| 152 | Polyallylamine-directed green synthesis of platinum nanocubes. Shape and electronic effect codependent enhanced electrocatalytic activity. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 3793-802 | 3.6 | 66 |
| 151 | Catalytic activities for methanol oxidation on ultrathin CuPt wavy nanowires with/without smart polymer. <i>Chemical Science</i> , 2016 , 7, 5414-5420 | 9.4 | 65 |
| 150 | Cyanogel-Enabled Homogeneous Sb-Ni-C Ternary Framework Electrodes for Enhanced Sodium Storage. <i>ACS Nano</i> , 2018 , 12, 759-767 | 16.7 | 63 |
| 149 | Hollow Co ₃ O ₄ /CeO ₂ Heterostructures in Situ Embedded in N-Doped Carbon Nanofibers Enable Outstanding Oxygen Evolution. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 17950-17957 | 8.3 | 63 |
| 148 | Gadolinium-Induced Valence Structure Engineering for Enhanced Oxygen Electrocatalysis. <i>Advanced Energy Materials</i> , 2020 , 10, 1903833 | 21.8 | 61 |
| 147 | Polyallylamine functionalized palladium icosahedra: one-pot water-based synthesis and their superior electrocatalytic activity and ethanol tolerant ability in alkaline media. <i>Langmuir</i> , 2013 , 29, 4413-20 | 4 | 61 |
| 146 | Pd@Pt core-shell tetrapods as highly active and stable electrocatalysts for the oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 20855-20860 | 13 | 60 |
| 145 | Three-Dimensional Graphene-Supported NiFe/CoS Composites: Rational Design and Active for Oxygen Reversible Electrocatalysis. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 4028-4036 | 9.5 | 60 |
| 144 | Core-shell CuPd@Pd tetrahedra with concave structures and Pd-enriched surface boost formic acid oxidation. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 10632-10638 | 13 | 60 |
| 143 | Trimetallic PtRhNi alloy nanoassemblies as highly active electrocatalyst for ethanol electrooxidation. <i>Nano Research</i> , 2017 , 10, 3324-3332 | 10 | 59 |
| 142 | Isolated Fe Single Atomic Sites Anchored on Highly Steady Hollow Graphene Nanospheres as an Efficient Electrocatalyst for the Oxygen Reduction Reaction. <i>Advanced Science</i> , 2019 , 6, 1801103 | 13.6 | 59 |
| 141 | Facile water-based synthesis and catalytic properties of platinum-gold alloy nanocubes. <i>CrystEngComm</i> , 2014 , 16, 1606-1610 | 3.3 | 58 |
| 140 | Highly branched platinum nanolance assemblies by polyallylamine functionalization as superior active, stable, and alcohol-tolerant oxygen reduction electrocatalysts. <i>Nanoscale</i> , 2014 , 6, 8226-34 | 7.7 | 57 |
| 139 | Porous AgPt@Pt Nanooctahedra as an Efficient Catalyst toward Formic Acid Oxidation with Predominant Dehydrogenation Pathway. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 31076-31082 | 9.5 | 56 |
| 138 | Monodispersed hollow platinum nanospheres: facile synthesis and their enhanced electrocatalysis for methanol oxidation. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 13738-13743 | 13 | 51 |
| 137 | Hydrothermal synthesis of Pt-Ag alloy nano-octahedra and their enhanced electrocatalytic activity for the methanol oxidation reaction. <i>Nanoscale</i> , 2014 , 6, 12310-4 | 7.7 | 51 |

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| 136 | Multiwalled carbon nanotubes supported palladiumphosphorus nanoparticles for ethanol electrooxidation in alkaline solution. <i>Journal of Power Sources</i> , 2012 , 219, 258-262 | 8.9 | 51 |
| 135 | General Strategy for Synthesis of Ordered Pt M Intermetallics with Ultrasmall Particle Size. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 7857-7863 | 16.4 | 51 |
| 134 | Preparation of highly dispersed palladiumphosphorus nanoparticles and its electrocatalytic performance for formic acid electrooxidation. <i>Electrochimica Acta</i> , 2012 , 59, 279-283 | 6.7 | 50 |
| 133 | A General Strategy for the Synthesis of PtM (M=Fe, Co, Ni) Decorated Three-Dimensional Hollow Graphene Nanospheres for Efficient Methanol Electrooxidation. <i>Chemistry - A European Journal</i> , 2018 , 24, 1246-1252 | 4.8 | 48 |
| 132 | Spinel MnCo2O4 nanoparticles cross-linked with two-dimensional porous carbon nanosheets as a high-efficiency oxygen reduction electrocatalyst. <i>Nano Research</i> , 2016 , 9, 2110-2122 | 10 | 48 |
| 131 | Polyhedral Palladium-Silver Alloy Nanocrystals as Highly Active and Stable Electrocatalysts for the Formic Acid Oxidation Reaction. <i>Scientific Reports</i> , 2015 , 5, 13703 | 4.9 | 48 |
| 130 | One-step synthesis and catalytic properties of porous palladium nanospheres. <i>Journal of Materials Chemistry</i> , 2012 , 22, 17604 | | 46 |
| 129 | Highly simple and rapid synthesis of ultrathin gold nanowires with (111)-dominant facets and enhanced electrocatalytic properties. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 17682-17687 | 13 | 45 |
| 128 | A strategy for fabricating porous PdNi@Pt core-shell nanostructures and their enhanced activity and durability for the methanol electrooxidation. <i>Scientific Reports</i> , 2015 , 5, 7619 | 4.9 | 45 |
| 127 | Porous PdRh nanobowls: facile synthesis and activity for alkaline ethanol oxidation. <i>Nanoscale</i> , 2019 , 11, 2974-2980 | 7.7 | 44 |
| 126 | Gd-induced electronic structure engineering of a NiFe-layered double hydroxide for efficient oxygen evolution. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 2999-3006 | 13 | 44 |
| 125 | Green synthesis and catalytic properties of polyallylamine functionalized tetrahedral palladium nanocrystals. <i>Applied Catalysis B: Environmental</i> , 2013 , 138-139, 167-174 | 21.8 | 43 |
| 124 | Facile synthesis based on novel carbon-supported cyanogel of structurally ordered Pd3Fe/C as electrocatalyst for formic acid oxidation. <i>Nano Research</i> , 2018 , 11, 4686-4696 | 10 | 42 |
| 123 | Delicate topotactic conversion of coordination polymers to Pd porous nanosheets for high-efficiency electrocatalysis. <i>Applied Catalysis B: Environmental</i> , 2019 , 243, 86-93 | 21.8 | 42 |
| 122 | Designed synthesis of SnO2@C yolkshell spheres for high-performance lithium storage. <i>CrystEngComm</i> , 2014 , 16, 517-521 | 3.3 | 41 |
| 121 | L-Glutamic acid derived PtPd@Pt core/satellite nanoassemblies as an effectively cathodic electrocatalyst. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 3774-3779 | 13 | 41 |
| 120 | Concave PtCo nanocrosses for methanol oxidation reaction. <i>Applied Catalysis B: Environmental</i> , 2020 , 277, 119135 | 21.8 | 41 |
| 119 | Synthesis of water-soluble phosphonate functionalized single-walled carbon nanotubes and their applications in biosensing. <i>Journal of Materials Chemistry</i> , 2012 , 22, 15370 | | 38 |

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| 118 | Inorganic Gel-Derived Metallic Frameworks Enabling High-Performance Silicon Anodes. <i>Nano Letters</i> , 2019 , 19, 6292-6298 | 11.5 | 35 |
| 117 | Hollow PtNi alloy nanospheres with enhanced activity and methanol tolerance for the oxygen reduction reaction. <i>Nano Research</i> , 2016 , 9, 3494-3503 | 10 | 35 |
| 116 | Engineering hollow porous platinum-silver double-shelled nanocages for efficient electro-oxidation of methanol. <i>Applied Catalysis B: Environmental</i> , 2021 , 282, 119595 | 21.8 | 35 |
| 115 | Immobilization of Fe ₃ N nanoparticles within N-doped carbon nanosheet frameworks as a high-efficiency electrocatalyst for oxygen reduction reaction in Zn-air batteries. <i>Carbon</i> , 2019 , 153, 364-371 | 10.4 | 33 |
| 114 | Facile fabrication of a hierarchical NiCoFeP hollow nanoprism for efficient oxygen evolution in the Zn Air battery. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 24964-24972 | 13 | 33 |
| 113 | Treelike two-level Pd _x Ag _y nanocrystals tailored for bifunctional fuel cell electrocatalysis. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 5248-5257 | 13 | 32 |
| 112 | 3D Graphene Hollow Nanospheres@Palladium-Networks as an Efficient Electrocatalyst for Formic Acid Oxidation. <i>Advanced Materials Interfaces</i> , 2015 , 2, 1500321 | 4.6 | 32 |
| 111 | CuPt Dodecahedra with Low-Pt Content: Facile Synthesis and Outstanding Formic Acid Electrooxidation. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 34869-34877 | 9.5 | 30 |
| 110 | Arginine-mediated synthesis of cube-like platinum nanoassemblies as efficient electrocatalysts. <i>Nano Research</i> , 2015 , 8, 3963-3971 | 10 | 30 |
| 109 | Hollow and porous palladium nanocrystals: synthesis and electrocatalytic application. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 21995-21999 | 13 | 29 |
| 108 | Hydrogel-Derived Honeycomb Ni S/N,P-C as an Efficient Oxygen Evolution Catalyst. <i>Chemistry - A European Journal</i> , 2019 , 25, 7561-7568 | 4.8 | 28 |
| 107 | Highly Reversible and Fast Lithium Storage in Graphene-Wrapped SiO ₂ Nanotube Network. <i>ChemElectroChem</i> , 2015 , 2, 508-511 | 4.3 | 28 |
| 106 | Embedded PdFe@N-carbon nanoframes for oxygen reduction in acidic fuel cells. <i>Carbon</i> , 2020 , 164, 369-377 | 10.7 | 28 |
| 105 | Multi-generation overgrowth induced synthesis of three-dimensional highly branched palladium tetrapods and their electrocatalytic activity for formic acid oxidation. <i>Nanoscale</i> , 2014 , 6, 2776-81 | 7.7 | 28 |
| 104 | Atomically Dispersed CoN ₄ /B, N-C Nanotubes Boost Oxygen Reduction in Rechargeable Zn Air Batteries. <i>ACS Applied Energy Materials</i> , 2020 , 3, 4539-4548 | 6.1 | 27 |
| 103 | Three-dimensional mesoporous SnNi@C network derived from cyanogel coordination polymers: towards high-performance anodes for lithium storage. <i>CrystEngComm</i> , 2013 , 15, 10340 | 3.3 | 27 |
| 102 | In Situ Integration of Ultrathin PtCu Nanowires with Reduced Graphene Oxide Nanosheets for Efficient Electrocatalytic Oxygen Reduction. <i>Chemistry - A European Journal</i> , 2017 , 23, 16871-16876 | 4.8 | 27 |
| 101 | Surface carbon layer controllable Ni ₃ Fe particles confined in hierarchical N-doped carbon framework boosting oxygen evolution reaction 2022 , 1, 100020 | | 27 |

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| 100 | Low-Load Pt Nanoclusters Anchored on Graphene Hollow Spheres for Efficient Hydrogen Evolution. <i>Small Structures</i> , 2021 , 2, 2000017 | 8.7 | 27 |
| 99 | Iminodiacetonitrile induce-synthesis of two-dimensional PdNi/Ni@carbon nanosheets with uniform dispersion and strong interface bonding as an effective bifunctional electrocatalyst in air-cathode. <i>Energy Storage Materials</i> , 2021 , 42, 118-128 | 19.4 | 27 |
| 98 | Rational synthesis of Ni nanoparticle-embedded porous graphitic carbon nanosheets with enhanced lithium storage properties. <i>Nanoscale</i> , 2015 , 7, 18211-7 | 7.7 | 26 |
| 97 | Synthesis and Electrocatalytic Properties of Palladium Network Nanostructures. <i>ChemPlusChem</i> , 2012 , 77, 936-940 | 2.8 | 26 |
| 96 | 1-Naphthol induced Pt3Ag nanocorals as bifunctional cathode and anode catalysts of direct formic acid fuel cells. <i>Nano Research</i> , 2019 , 12, 323-329 | 10 | 26 |
| 95 | In-situ growth of Ni nanoparticle-encapsulated N-doped carbon nanotubes on carbon nanorods for efficient hydrogen evolution electrocatalysis. <i>Nano Research</i> , 2020 , 13, 975-982 | 10 | 25 |
| 94 | Sub-5 nm palladium nanoparticles in situ embedded in N-doped carbon nanoframes: facile synthesis, excellent sinter resistance and electrocatalytic properties. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 26243-26249 | 13 | 25 |
| 93 | L-Lysine mediated synthesis of platinum nanocuboids and their electrocatalytic activity towards ammonia oxidation. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 17883-17888 | 13 | 25 |
| 92 | Interfacial Engineering-Triggered Bifunctionality of CoS /MoS Nanocubes/Nanosheet Arrays for High-Efficiency Overall Water Splitting. <i>ChemSusChem</i> , 2021 , 14, 699-708 | 8.3 | 23 |
| 91 | General Strategy for Synthesis of Pd3M (M = Co and Ni) Nanoassemblies as High-Performance Catalysts for Electrochemical Oxygen Reduction. <i>Advanced Materials Interfaces</i> , 2018 , 5, 1701015 | 4.6 | 23 |
| 90 | Graphene-wrapped single-crystalline Fe3O4 nanorods with superior lithium-storage capabilities. <i>New Journal of Chemistry</i> , 2014 , 38, 4036 | 3.6 | 22 |
| 89 | White phosphorus derived PdAuP ternary alloy for efficient methanol electrooxidation. <i>Catalysis Science and Technology</i> , 2017 , 7, 3355-3360 | 5.5 | 22 |
| 88 | Electronic modulation by N incorporation boosts the electrocatalytic performance of urchin-like Ni5P4 hollow microspheres for hydrogen evolution. <i>Chemical Engineering Journal</i> , 2020 , 402, 126302 | 14.7 | 22 |
| 87 | Proline-derived in situ synthesis of nitrogen-doped porous carbon nanosheets with encaged Fe2O3@Fe3C nanoparticles for lithium-ion battery anodes. <i>Nano Research</i> , 2017 , 10, 3164-3177 | 10 | 21 |
| 86 | Trimetallic Au@PdPb nanowires for oxygen reduction reaction. <i>Nano Research</i> , 2020 , 13, 2691-2696 | 10 | 21 |
| 85 | Intermetallic PdPb nanocubes with high selectivity for the 4-electron oxygen reduction reaction pathway. <i>Nanoscale</i> , 2020 , 12, 2532-2541 | 7.7 | 21 |
| 84 | Surfactant-free palladium nanodendrite assemblies with enhanced electrocatalytic performance for formic acid oxidation. <i>Electrochemistry Communications</i> , 2013 , 32, 43-46 | 5.1 | 21 |
| 83 | Layer-By-Layer Self-Assembly of Sulphydryl-Functionalized Multiwalled Carbon Nanotubes and Phosphate-Functionalized Gold Nanoparticles: Detection of Hydrazine. <i>ChemPlusChem</i> , 2012 , 77, 914-922 | 2.8 | 21 |

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| 82 | A novel strategy for the synthesis of hollow PtCu tetradecahedrons as an efficient electrocatalyst toward methanol oxidation. <i>CrystEngComm</i> , 2019 , 21, 1903-1909 | 3.3 | 20 |
| 81 | Facile preparation of CuO@SnO ₂ nanobelts as a high-capacity and long-life anode for lithium-ion batteries. <i>RSC Advances</i> , 2014 , 4, 34417-34420 | 3.7 | 20 |
| 80 | Arginine-assisted synthesis of palladium nanochain networks and their enhanced electrocatalytic activity for borohydride oxidation. <i>RSC Advances</i> , 2015 , 5, 18111-18115 | 3.7 | 19 |
| 79 | Chemically Binding Scaffolded Anodes with 3D Graphene Architectures Realizing Fast and Stable Lithium Storage. <i>Research</i> , 2019 , 2019, 8393085 | 7.8 | 19 |
| 78 | N-carbon supported hierarchical Ni/Ni _{0.2} Mo _{0.8} N nanosheets as high-efficiency oxygen evolution electrocatalysts. <i>Chemical Engineering Journal</i> , 2020 , 392, 124845 | 14.7 | 19 |
| 77 | A facile, one-pot synthesis of highly branched Au nanocorals and their enhanced electrocatalytic activity for ethanol oxidation. <i>CrystEngComm</i> , 2014 , 16, 8576-8581 | 3.3 | 18 |
| 76 | Preparation of carbon supported PtPd catalysts and its electrocatalytic performance for oxygen reduction. <i>Applied Surface Science</i> , 2011 , 257, 6494-6497 | 6.7 | 18 |
| 75 | Carbon supported ultrafine gold phosphorus nanoparticles as highly efficient electrocatalyst for alkaline ethanol oxidation reaction. <i>Electrochimica Acta</i> , 2017 , 231, 13-19 | 6.7 | 17 |
| 74 | Hybrid aerogel-derived Sn-Ni alloy immobilized within porous carbon/graphene dual matrices for high-performance lithium storage. <i>Journal of Colloid and Interface Science</i> , 2017 , 501, 267-272 | 9.3 | 17 |
| 73 | Facile synthesis of graphene supported FeSn ₂ nanocrystals with enhanced Li-storage capability. <i>RSC Advances</i> , 2014 , 4, 17401 | 3.7 | 17 |
| 72 | PtCu nanodendrite-assisted synthesis of PtPdCu concave nanooctahedra for efficient electrocatalytic methanol oxidation. <i>Catalysis Science and Technology</i> , 2015 , 5, 5105-5109 | 5.5 | 16 |
| 71 | Shape Control of Monodispersed Sub-5 nm Pd Tetrahedrons and Lacinate Pd Nanourchins by Maneuvering the Dispersed State of Additives for Boosting ORR Performance. <i>Small</i> , 2020 , 16, e1906026 ¹¹ | | 16 |
| 70 | General Strategy for Synthesis of Ordered Pt ₃ M Intermetallics with Ultrasmall Particle Size. <i>Angewandte Chemie</i> , 2020 , 132, 7931-7937 | 3.6 | 15 |
| 69 | Achieving Highly Electrocatalytic Performance by Constructing Holey Reduced Graphene Oxide Hollow Nanospheres Sandwiched by Interior and Exterior Platinum Nanoparticles. <i>ACS Applied Energy Materials</i> , 2018 , 1, 2341-2349 | 6.1 | 15 |
| 68 | Pd nanochains: Controlled synthesis by lysine and application in microbial fuel cells. <i>Chemical Engineering Journal</i> , 2020 , 379, 122230 | 14.7 | 15 |
| 67 | MoS _{0.5} Se _{1.5} Embedded in 2D Porous Carbon Sheets Boost Lithium Storage Performance as an Anode Material. <i>Advanced Materials Interfaces</i> , 2018 , 5, 1701604 | 4.6 | 14 |
| 66 | PdCo/Pd-Hexacyanocobaltate Hybrid Nanoflowers: Cyanogel-Bridged One-Pot Synthesis and Their Enhanced Catalytic Performance. <i>Scientific Reports</i> , 2016 , 6, 32402 | 4.9 | 14 |
| 65 | Cyano-bridged coordination polymer gel as a precursor to a nanoporous In ₂ O ₃ /Co ₃ O ₄ hybrid network for high-capacity and cycle-stable lithium storage. <i>New Journal of Chemistry</i> , 2015 , 39, 8249-8253 ³⁶ | | 13 |

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| 64 | High-Performance Oxygen Reduction Electrocatalysis Enabled by 3D PdNi Nanocorals with Hierarchical Porosity. <i>Particle and Particle Systems Characterization</i> , 2018 , 35, 1700366 | 3.1 | 13 |
| 63 | FeOOH-Templated synthesis of hollow porous platinum nanotubes as superior electrocatalysts towards methanol electrooxidation. <i>New Journal of Chemistry</i> , 2017 , 41, 8812-8817 | 3.6 | 13 |
| 62 | Facile synthesis and electrocatalytic properties of dendritic palladium nanostructures. <i>CrystEngComm</i> , 2014 , 16, 10445-10450 | 3.3 | 13 |
| 61 | One-pot synthesis of Ag-rich AgPd alloy nanoactiniae and their enhanced electrocatalytic activity toward oxygen reduction. <i>Journal of Energy Chemistry</i> , 2019 , 28, 111-117 | 12 | 13 |
| 60 | Pt-Like Oxygen Reduction Activity Induced by Cost-Effective MnFeO /N-Carbon. <i>Chemistry - A European Journal</i> , 2019 , 25, 6226-6232 | 4.8 | 12 |
| 59 | Electronic structural regulation of CoP nanorods by the tunable incorporation of oxygen for enhanced electrocatalytic activity during the hydrogen evolution reaction. <i>Nanoscale</i> , 2020 , 12, 14733-14738 | 14.7 | 12 |
| 58 | Surface chemical reconstruction of hierarchical hollow inverse-spinel manganese cobalt oxide boosting oxygen evolution reaction. <i>Chemical Engineering Journal</i> , 2021 , 431, 133829 | 11 | 12 |
| 57 | Recent Advances in Amino-Based Molecules Assisted Control of Noble-Metal Electrocatalysts. <i>Small</i> , 2021 , 17, e2007179 | 10.8 | 12 |
| 56 | Synthesis of monodisperse high entropy alloy nanocatalysts from core@shell nanoparticles. <i>Nanoscale Horizons</i> , 2021 , 6, 231-237 | 2.8 | 11 |
| 55 | Synthesis, Self-Assembly, and Electrocatalysis of Polyallylamine-Functionalized Platinum Nanocubes. <i>ChemPlusChem</i> , 2013 , 78, 623-627 | 8.3 | 11 |
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| 53 | Atomic Crystal Facet Engineering of Core-Shell Nanotetrahedrons Restricted under Sub-10 Nanometer Region. <i>ACS Nano</i> , 2021 , 15, 5178-5188 | 7.7 | 10 |
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