# Shijun Liao

List of Publications by Year
in descending order

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| 281 | 13,958 | 22153 | 30087 |
|---|---|---|---|
| papers | citations | 59 | 103 |
| | | h-index | g-index |

| 281 | 281 | 281 | 15669 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Enhanced low-humidity performance of proton-exchange membrane fuel cell by introducing hydrophilic CNTs in membrane electrode assembly. Progress in Natural Science: Materials International, 2022, 32, 150-156. | 4.4 | 5 |
| 2 | Methods for Remit Voltage Reversal of Proton Exchange Membrane Fuel Cells. Frontiers in Energy Research, 2022, 10, . | 2.3 | 1 |
| 3 | Optimizing the Electronic Structure of Ordered Ptâ€“Coâ€“Ti Ternary Intermetallic Catalyst to Boost Acidic Oxygen Reduction. ACS Catalysis, 2022, 12, 7571-7578. | 11.2 | 31 |
| 4 | Regenerative fuel cells: Recent progress, challenges, perspectives and their applications for space energy system. Applied Energy, 2021, 283, 116376. | 10.1 | 50 |
| 5 | Accurate predictions of chaotic motion of a free fall disk. Physics of Fluids, 2021, 33, . | 4.0 | 9 |
| 6 | Steady-state harmonic resonance of periodic interfacial waves with free-surface boundary conditions based on the homotopy analysis method. Journal of Fluid Mechanics, 2021, 916, . | 3.4 | 10 |
| 7 | Hexyl-modified series-connected bipyridine and DABCO di-cations functionalized anion exchange membranes for electrodialysis desalination. Separation and Purification Technology, 2021, 265, 118526. | 7.9 | 18 |
| 8 | Metallic cobalt encapsulated in N-doped carbon nanowires: a highly active bifunctional catalyst for oxygen reduction and evolution. Ionics, 2021, 27, 3501-3509. | 2.4 | 2 |
| 9 | Heterostructured Pd/Ti/Pd Thin Films as Highly Efficient Catalysts for Methanol and Formic Acid Oxidation. ACS Applied Materials & Interfaces, 2021, 13, 31725-31732. | 8.0 | 9 |
| 10 | Advanced Atomically Dispersed Metalâ€“Nitrogenâ€“Carbon Catalysts Toward Cathodic Oxygen Reduction in PEM Fuel Cells. Advanced Energy Materials, 2021, 11, 2101222. | 19.5 | 109 |
| 11 | Nodal PtNi nanowires with Pt skin and controllable Near-Surface composition for enhanced oxygen reduction electrocatalysis in fuel cells. Chemical Engineering Journal, 2021, 418, 129322. | 12.7 | 36 |
| 12 | Nitrogen and atomic Fe dual-doped porous carbon nanocubes as superior electrocatalysts for acidic H2-O2 PEMFC and alkaline Zn-air battery. Journal of Energy Chemistry, 2021, 59, 388-395. | 12.9 | 27 |
| 13 | Biogelatin-Derived and N,S-Codoped 3D Network Carbon Materials Anchored with RuO<sub>2</sub> as an Efficient Cathode for Rechargeable Liâ€“O<sub>2</sub> Batteries. Journal of Physical Chemistry C, 2021, 125, 21914-21921. | 3.1 | 7 |
| 14 | Influence of hydrophobic components tuning of poly (aryl ether sulfone)s ionomers based anion exchange membranes on diffusion dialysis for acid recovery. Journal of Membrane Science, 2021, 636, 119562. | 8.2 | 23 |
| 15 | Integration of single Co atoms and Ru nanoclusters boosts the cathodic performance of nitrogen-doped 3D graphene in lithiumâ€“oxygen batteries. Journal of Materials Chemistry A, 2021, 9, 10747-10757. | 10.3 | 31 |
| 16 | UIO-66-NH<sub>2</sub>-derived mesoporous carbon used as a high-performance anode for the potassium-ion battery. RSC Advances, 2021, 11, 1039-1049. | 3.6 | 10 |
| 17 | Highly conductive and permselective anion exchange membranes for electrodialysis desalination with series-connected dications appending flexible hydrophobic tails. Desalination, 2020, 474, 114184. | 8.2 | 29 |
| 18 | Efficient hydrogen peroxide synthesis by metal-free polyterthiophene via photoelectrocatalytic dioxygen reduction. Energy and Environmental Science, 2020, 13, 238-245. | 30.8 | 146 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Design of ultralong-life Liâ€“CO<sub>2</sub> batteries with IrO<sub>2</sub> nanoparticles highly dispersed on nitrogen-doped carbon nanotubes. Journal of Materials Chemistry A, 2020, 8, 3763-3770. | 10.3 | 58 |
| 20 | A mesoporous carbon derived from 4,4â€²-dipyridyl iron as an efficient catalyst for oxygen reduction. Journal of Materials Chemistry A, 2020, 8, 2439-2444. | 10.3 | 12 |
| 21 | Methanol-tolerant Se^Pt/C: effects of Se content on the structure and electrocatalytic performance for oxygen reduction reaction. Ionics, 2020, 26, 1315-1323. | 2.4 | 9 |
| 22 | A comparative study on the catalytic activities and stabilities of atomic-layered platinum on dispersed Ti0.9Cu0.1N nanoparticles supported by N-doped carbon nanotubes (N-CNTs) and reduced graphene oxide (N-rGO). International Journal of Hydrogen Energy, 2020, 45, 1857-1866. | 7.1 | 2 |
| 23 | Enhanced low-humidity performance in a proton exchange membrane fuel cell by developing a novel hydrophilic gas diffusion layer. International Journal of Hydrogen Energy, 2020, 45, 937-944. | 7.1 | 34 |
| 24 | Mono-disperse PdO nanoparticles prepared via microwave-assisted thermo-hydrolyzation with unexpectedly high activity for formic acid oxidation. Electrochimica Acta, 2020, 329, 135166. | 5.2 | 11 |
| 25 | Emerging applications of atomic layer deposition for lithium-sulfur and sodium-sulfur batteries. Energy Storage Materials, 2020, 26, 513-533. | 18.0 | 36 |
| 26 | Applications of M/N/C analogue catalysts in PEM fuel cells and metal-air/oxygen batteries: Status quo, challenges and perspectives. Progress in Natural Science: Materials International, 2020, 30, 807-814. | 4.4 | 15 |
| 27 | Steady-state multiple near resonances of periodic interfacial waves with rigid boundary. Physics of Fluids, 2020, 32, . | 4.0 | 12 |
| 28 | Recent advances in nanostructured transition metal nitrides for fuel cells. Journal of Materials Chemistry A, 2020, 8, 20803-20818. | 10.3 | 45 |
| 29 | Robust InNCo<sub>3â€“x</sub>Mn<sub>x</sub> Nitride-Supported Pt Nanoparticles as High-Performance Bifunctional Electrocatalysts for Znâ€“Air Batteries. ACS Applied Energy Materials, 2020, 3, 5293-5300. | 5.1 | 13 |
| 30 | Two-Dimensional Bimetallic Zn/Fe-Metal-Organic Framework (MOF)-Derived Porous Carbon Nanosheets with a High Density of Single/Paired Fe Atoms as High-Performance Oxygen Reduction Catalysts. ACS Applied Materials & Interfaces, 2020, 12, 13878-13887. | 8.0 | 100 |
| 31 | Mesoporous carbon confined intermetallic nanoparticles as highly durable electrocatalysts for the oxygen reduction reaction. Journal of Materials Chemistry A, 2020, 8, 15822-15828. | 10.3 | 58 |
| 32 | Rationally Designed Three-Dimensional N-Doped Graphene Architecture Mounted with Ru Nanoclusters as a High-Performance Air Cathode for Lithiumâ€“Oxygen Batteries. ACS Sustainable Chemistry and Engineering, 2020, 8, 6109-6117. | 6.7 | 28 |
| 33 | Coupling hollow Fe3O4 nanoparticles with oxygen vacancy on mesoporous carbon as a high-efficiency ORR electrocatalyst for Zn-air battery. Journal of Colloid and Interface Science, 2020, 567, 410-418. | 9.4 | 75 |
| 34 | Hierarchically open-porous carbon networks enriched with exclusive Feâ€“Nx active sites as efficient oxygen reduction catalysts towards acidic H2â€“O2 PEM fuel cell and alkaline Znâ€“air battery. Chemical Engineering Journal, 2020, 390, 124479. | 12.7 | 61 |
| 35 | Versatile Route To Fabricate Precious-Metal Phosphide Electrocatalyst for Acid-Stable Hydrogen Oxidation and Evolution Reactions. ACS Applied Materials & Interfaces, 2020, 12, 11737-11744. | 8.0 | 37 |
| 36 | In-situ formation of N doped hollow graphene Nanospheres/CNTs architecture with encapsulated Fe3C@C nanoparticles as efficient bifunctional oxygen electrocatalysts. Journal of Alloys and Compounds, 2020, 828, 154238. | 5.5 | 16 |

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|---|---|---|---|
| 37 | Single-Atom Catalysts for Electrochemical Hydrogen Evolution Reaction: Recent Advances and Future Perspectives. Nano-Micro Letters, 2020, 12, 21. | 27.0 | 159 |
| 38 | Highly permselective tadpole-type ionic anion exchange membranes for electrodialysis desalination. Journal of Membrane Science, 2020, 600, 117861. | 8.2 | 19 |
| 39 | MOF-Templated sword-like Co3O4@NiCo2O4 sheet arrays on carbon cloth as highly efficient Liâ€“O2 battery cathode. Journal of Power Sources, 2020, 450, 227725. | 7.8 | 62 |
| 40 | In-situ grown vanadium nitride coated with thin layer of nitrogen-doped carbon as a highly durable binder-free cathode for Liâ€“O2 batteries. Journal of Power Sources, 2020, 460, 228109. | 7.8 | 6 |
| 41 | A strategy to unlock the potential of CrN as a highly active oxygen reduction reaction catalyst. Journal of Materials Chemistry A, 2020, 8, 8575-8585. | 10.3 | 38 |
| 42 | Effects of Co doping sites on the electrochemical performance of LiNi0.5Mn1.5O4 as a cathode material. Ionics, 2020, 26, 3777-3783. | 2.4 | 9 |
| 43 | Yucca-like CoOâ€“CoN Nanoarray with Abundant Oxygen Vacancies as a High-Performance Cathode for Lithiumâ€“Oxygen Batteries. ACS Applied Energy Materials, 2020, 3, 12000-12008. | 5.1 | 8 |
| 44 | Enhanced performance of LiNi0.03Mo0.01Mn1.96O4 cathode materials coated with biomass-derived carbon layer. Ionics, 2019, 25, 917-925. | 2.4 | 2 |
| 45 | Improving Potassium-Ion Batteries by Optimizing the Composition of Prussian Blue Cathode. ACS Applied Energy Materials, 2019, 2, 6528-6535. | 5.1 | 65 |
| 46 | Enhancing membrane electrode assembly performance by improving the porous structure and hydrophobicity of the cathode catalyst layer. Journal of Power Sources, 2019, 443, 227284. | 7.8 | 29 |
| 47 | Rechargeable Zincâ€“Air Battery with Ultrahigh Power Density Based on Uniform N, Co Codoped Carbon Nanospheres. ACS Applied Materials & Interfaces, 2019, 11, 44153-44160. | 8.0 | 20 |
| 48 | Antiperovskite Nitrides CuNCo<sub>3â€“x</sub>V<sub>x</sub>: Highly Efficient and Durable Electrocatalysts for the Oxygen-Evolution Reaction. Nano Letters, 2019, 19, 7457-7463. | 9.1 | 62 |
| 49 | Prussian Blue [K<sub>2</sub>FeFe(CN)<sub>6</sub>] Doped with Nickel as a Superior Cathode: An Efficient Strategy To Enhance Potassium Storage Performance. ACS Sustainable Chemistry and Engineering, 2019, 7, 16659-16667. | 6.7 | 52 |
| 50 | g-C<sub>3</sub>N<sub>4</sub> promoted MOF derived hollow carbon nanopolyhedra doped with high density/fraction of single Fe atoms as an ultra-high performance non-precious catalyst towards acidic ORR and PEM fuel cells. Journal of Materials Chemistry A, 2019, 7, 5020-5030. | 10.3 | 152 |
| 51 | Glucose-derived carbon supported well-dispersed CrN as competitive oxygen reduction catalysts in acidic medium. Electrochimica Acta, 2019, 314, 202-211. | 5.2 | 12 |
| 52 | Dendrite-Free Composite Li Anode Assisted by Ag Nanoparticles in a Wood-Derived Carbon Frame. ACS Applied Materials & Interfaces, 2019, 11, 18361-18367. | 8.0 | 33 |
| 53 | Hollow Loofahâ€Like N, Oâ€Coâ€Doped Carbon Tube for Electrocatalysis of Oxygen Reduction. Advanced Functional Materials, 2019, 29, 1900015. | 14.9 | 68 |
| 54 | Uniform Nitrogen and Sulfur Co-doped Carbon Bowls for the Electrocatalyzation of Oxygen Reduction. ACS Sustainable Chemistry and Engineering, 2019, 7, 7148-7154. | 6.7 | 13 |

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|---|---|---|---|
| 55 | Atomic Feâ€Doped MOFâ€Derived Carbon Polyhedrons with High Activeâ€Center Density and Ultraâ€High Performance toward PEM Fuel Cells. Advanced Energy Materials, 2019, 9, 1802856. | 19.5 | 196 |
| 56 | Highly effective and stable doped carbon catalyst with three-dimensional porous structure and well-covered Fe3C nanoparticles prepared with C3N4 and tannic acid as template/precursors. Journal of Power Sources, 2019, 417, 117-124. | 7.8 | 19 |
| 57 | An Isolated Zincâ€“Cobalt Atomic Pair for Highly Active and Durable Oxygen Reduction. Angewandte Chemie, 2019, 131, 2648-2652. | 2.0 | 116 |
| 58 | An Isolated Zincâ€“Cobalt Atomic Pair for Highly Active and Durable Oxygen Reduction. Angewandte Chemie - International Edition, 2019, 58, 2622-2626. | 13.8 | 494 |
| 59 | UIOâ€66â€NH<sub>2</sub>â€Derived Mesoporous Carbon Catalyst Coâ€Doped with Fe/N/S as Highly Efficient Cathode Catalyst for PEMFCs. Small, 2019, 15, e1803520. | 10.0 | 73 |
| 60 | Spinel LiMn<sub>2</sub>O<sub>4</sub> Nanoparticles Grown in Situ on Nitrogen-Doped Reduced Graphene Oxide as an Efficient Cathode for a Li-O<sub>2</sub>/Li-Ion Twin Battery. ACS Sustainable Chemistry and Engineering, 2019, 7, 430-439. | 6.7 | 11 |
| 61 | Effects of preparation conditions on the morphology and performance of palladium nanostructures. International Journal of Hydrogen Energy, 2019, 44, 1525-1533. | 7.1 | 1 |
| 62 | MOF-Derived Carbon Materials Mounted with Highly Dispersed Ru and MoO<sub>3</sub> for Rechargeable Liâ€“O<sub>2</sub> Cathode Yield Enhanced Cyclability. ACS Sustainable Chemistry and Engineering, 2019, 7, 2296-2303. | 6.7 | 9 |
| 63 | Highâ€Performance 3D Pineconeâ€Like LiNi 1/3 Co 1/3 Mn 1/3 O 2 Cathode for Lithiumâ€Ion Batteries. Energy Technology, 2019, 7, 1800769. | 3.8 | 8 |
| 64 | Pt/graphene with intercalated carbon nanotube spacers introduced by electrostatic self-assembly for fuel cells. Materials Chemistry and Physics, 2019, 225, 371-378. | 4.0 | 23 |
| 65 | Series-connected hexacations cross-linked anion exchange membranes for diffusion dialysis in acid recovery. Journal of Membrane Science, 2019, 570-571, 120-129. | 8.2 | 50 |
| 66 | Biomass-derived 3D hierarchical N-doped porous carbon anchoring cobalt-iron phosphide nanodots as bifunctional electrocatalysts for Li O2 batteries. Journal of Power Sources, 2019, 412, 433-441. | 7.8 | 23 |
| 67 | Influence of the ions distribution of anion-exchange membranes on electrodialysis. Desalination, 2018, 437, 34-44. | 8.2 | 22 |
| 68 | Faraday waves in a Hele-Shaw cell. Physics of Fluids, 2018, 30, . | 4.0 | 13 |
| 69 | High porosity nitrogen and phosphorous Co-doped carbon nanosheets as an efficient catalyst for oxygen reduction. International Journal of Hydrogen Energy, 2018, 43, 9749-9756. | 7.1 | 12 |
| 70 | Observation of two coupled Faraday waves in a vertically vibrating Hele-Shaw cell with one of them oscillating horizontally. Physics of Fluids, 2018, 30, 012108. | 4.0 | 22 |
| 71 | Synthesis and Properties of Symmetric Sideâ€Chain Quaternized Poly(Arylene Ether Sulfone)s for Anion Exchange Membrane Fuel Cells. Macromolecular Chemistry and Physics, 2018, 219, 1700416. | 2.2 | 4 |
| 72 | Enhanced cyclability of Liâ€“O<sub>2</sub>batteries with cathodes of Ir and MnO<sub>2</sub>supported on well-defined TiN arrays. Nanoscale, 2018, 10, 2983-2989. | 5.6 | 44 |

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|---|---|---|---|
| 73 | Highly Selective TiN-Supported Highly Dispersed Pt Catalyst: Ultra Active toward Hydrogen Oxidation and Inactive toward Oxygen Reduction. ACS Applied Materials & Interfaces, 2018, 10, 3530-3537. | 8.0 | 48 |
| 74 | Tuning hydrophobic-hydrophilic balance of cathode catalyst layer to improve cell performance of proton exchange membrane fuel cell (PEMFC) by mixing polytetrafluoroethylene (PTFE). Electrochimica Acta, 2018, 277, 110-115. | 5.2 | 47 |
| 75 | On the limiting Stokes wave of extreme height in arbitrary water depth. Journal of Fluid Mechanics, 2018, 843, 653-679. | 3.4 | 28 |
| 76 | DFT study of high performance Pt3Sn alloy catalyst in oxygen reduction reaction. Computational Materials Science, 2018, 149, 107-114. | 3.0 | 26 |
| 77 | High oxygen reduction activity of TM13@Pt134 and TM12N@Pt134 (TM=Ti, V, Mn, Fe, Co, Ni, and Cu) core-shell electrocatalysts studied by first-principles theory. Materials Chemistry and Physics, 2018, 212, 378-384. | 4.0 | 8 |
| 78 | Template-Free Preparation of 3D Porous Co-Doped VN Nanosheet-Assembled Microflowers with Enhanced Oxygen Reduction Activity. ACS Applied Materials & Interfaces, 2018, 10, 11604-11612. | 8.0 | 47 |
| 79 | Nitrogen, Sulfur Co-doped Carbon Derived from Naphthalene-Based Covalent Organic Framework as an Efficient Catalyst for Oxygen Reduction. ACS Applied Energy Materials, 2018, 1, 161-166. | 5.1 | 36 |
| 80 | A bi-functional WO3-based anode enables both energy storage and conversion in an intermediate-temperature fuel cell. Energy Storage Materials, 2018, 12, 79-84. | 18.0 | 18 |
| 81 | Enhancement of Oxygen Reduction Performance of Biomass-Derived Carbon through Co-Doping with Early Transition Metal. Journal of the Electrochemical Society, 2018, 165, J3148-J3156. | 2.9 | 11 |
| 82 | Three-Dimensional Biocarbon Framework Coupled with Uniformly Distributed FeSe Nanoparticles Derived from Pollen as Bifunctional Electrocatalysts for Oxygen Electrode Reactions. ACS Applied Materials & Interfaces, 2018, 10, 32133-32141. | 8.0 | 29 |
| 83 | Organic-phase synthesis of Li3V2(PO4)3@Carbon nanocrystals and their lithium storage properties. RSC Advances, 2018, 8, 19335-19340. | 3.6 | 6 |
| 84 | A renewable wood-derived cathode for Liâ€“O<sub>2</sub> batteries. Journal of Materials Chemistry A, 2018, 6, 14291-14298. | 10.3 | 38 |
| 85 | Coreâ€“Shell-Structured Low-Platinum Electrocatalysts for Fuel Cell Applications. Electrochemical Energy Reviews, 2018, 1, 324-387. | 25.5 | 72 |
| 86 | Cobalt and Nitrogen Co-Doped Graphene-Carbon Nanotube Aerogel as an Efficient Bifunctional Electrocatalyst for Oxygen Reduction and Evolution Reactions. Catalysts, 2018, 8, 275. | 3.5 | 24 |
| 87 | Enhanced durability and self-humidification of platinum catalyst through decoration with SnSi binary oxide. Journal of Applied Electrochemistry, 2018, 48, 1163-1173. | 2.9 | 5 |
| 88 | Influence of Oxygen Contents on the Microstructure, High Temperature Oxidation and Corrosion Resistance Properties of Crâ€“Siâ€“Oâ€“N Coatings. Coatings, 2018, 8, 19. | 2.6 | 3 |
| 89 | Formation of a Tubular Assembly by Ultrathin Ti<sub>0.8</sub>Co<sub>0.2</sub>N Nanosheets as Efficient Oxygen Reduction Electrocatalysts for Hydrogenâ€“/Metalâ€“Air Fuel Cells. ACS Catalysis, 2018, 8, 8970-8975. | 11.2 | 147 |
| 90 | In-situ IR monitoring to probe the formation of structural defects in Zr-fumarate metalâ€“organic framework (MOF). Polyhedron, 2018, 153, 205-212. | 2.2 | 11 |

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|---|---|---|---|
| 91 | Nanoconfined Nitrogenâ€Doped Carbonâ€Coated Hierarchical TiCoN Composites with Enhanced ORR Performance. ChemElectroChem, 2018, 5, 2041-2049. | 3.4 | 19 |
| 92 | Design of a Multispherical Cavity Carbon with In Situ Silica Modifications and Its Selfâ€Humidification Application on Fuel Cell Anode Support. Advanced Materials Interfaces, 2018, 5, 1800314. | 3.7 | 6 |
| 93 | A high-performance composite ORR catalyst based on the synergy between binary transition metal nitride and nitrogen-doped reduced graphene oxide. Journal of Materials Chemistry A, 2017, 5, 5829-5837. | 10.3 | 93 |
| 94 | Well-Defined ZIF-Derived Feâ€“N Codoped Carbon Nanoframes as Efficient Oxygen Reduction Catalysts. ACS Applied Materials & Interfaces, 2017, 9, 9699-9709. | 8.0 | 196 |
| 95 | In situ growth of cobalt sulfide hollow nanospheres embedded in nitrogen and sulfur co-doped graphene nanoholes as a highly active electrocatalyst for oxygen reduction and evolution. Journal of Materials Chemistry A, 2017, 5, 12354-12360. | 10.3 | 93 |
| 96 | Binary Fe, Cu-doped bamboo-like carbon nanotubes as efficient catalyst for the oxygen reduction reaction. Nano Energy, 2017, 37, 187-194. | 16.0 | 125 |
| 97 | In situ construction of Ir@Pt/C nanoparticles in the cathode layer of membrane electrode assemblies with ultra-low Pt loading and high Pt exposure. Journal of Power Sources, 2017, 355, 83-89. | 7.8 | 45 |
| 98 | High-Performance Coreâ€“Shell Catalyst with Nitride Nanoparticles as a Core: Well-Defined Titanium Copper Nitride Coated with an Atomic Pt Layer for the Oxygen Reduction Reaction. ACS Catalysis, 2017, 7, 3810-3817. | 11.2 | 84 |
| 99 | A Co-doped porous niobium nitride nanogrid as an effective oxygen reduction catalyst. Journal of Materials Chemistry A, 2017, 5, 14278-14285. | 10.3 | 51 |
| 100 | Synthesis of Core-shell Structured Ru@Pd/C Catalysts for the Electrooxidation of Formic Acid. Electrochimica Acta, 2017, 238, 194-201. | 5.2 | 27 |
| 101 | Current research trends and perspectives on materials-based hydrogen storage solutions: A critical review. International Journal of Hydrogen Energy, 2017, 42, 289-311. | 7.1 | 440 |
| 102 | Uniform nitrogen and sulphur co-doped hollow carbon nanospheres as efficient metal-free electrocatalysts for oxygen reduction. Journal of Materials Chemistry A, 2017, 5, 1742-1748. | 10.3 | 51 |
| 103 | Uniformly dispersed carbon-supported bimetallic rutheniumâ€“platinum electrocatalysts for the methanol oxidation reaction. Journal of Materials Science, 2017, 52, 3457-3466. | 3.7 | 16 |
| 104 | Review on the current practices and efforts towards pilot-scale production of metal-organic frameworks (MOFs). Coordination Chemistry Reviews, 2017, 352, 187-219. | 18.8 | 190 |
| 105 | Formic acid as additive for the preparation of high-performance FePO4 materials by spray drying method. Ceramics International, 2017, 43, 16652-16658. | 4.8 | 14 |
| 106 | Platinum-decorated palladium-nanoflowers as high efficient low platinum catalyst towards oxygen reduction. International Journal of Hydrogen Energy, 2017, 42, 22909-22914. | 7.1 | 12 |
| 107 | From Chlorella to Nestlike Framework Constructed with Doped Carbon Nanotubes: A Biomass-Derived, High-Performance, Bifunctional Oxygen Reduction/Evolution Catalyst. ACS Applied Materials & Interfaces, 2017, 9, 32168-32178. | 8.0 | 63 |
| 108 | Structural defects in metalâ€“organic frameworks (MOFs): Formation, detection and control towards practices of interests. Coordination Chemistry Reviews, 2017, 349, 169-197. | 18.8 | 200 |

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|---|---|---|---|
| 109 | Enhanced performance of proton exchange membrane fuel cell by introducing nitrogen-doped CNTs in both catalyst layer and gas diffusion layer. Electrochimica Acta, 2017, 253, 142-150. | 5.2 | 26 |
| 110 | IrO2 nanoparticles highly dispersed on nitrogen-doped carbon nanotubes as an efficient cathode catalyst for high-performance Li-O2 batteries. Ceramics International, 2017, 43, 14082-14089. | 4.8 | 46 |
| 111 | Atomic platinum layer coated titanium copper nitride supported on carbon nanotubes for the methanol oxidation reaction. Electrochimica Acta, 2017, 248, 349-355. | 5.2 | 19 |
| 112 | Methanol tolerant core-shell RuFeSe@Pt/C catalyst for oxygen reduction reaction. International Journal of Hydrogen Energy, 2017, 42, 20658-20668. | 7.1 | 24 |
| 113 | Influence of 2,2â€²,6,6â€²â€tetramethyl biphenolâ€based anionâ€exchange membranes on the diffusion dialysis of hydrochloride acid. Journal of Applied Polymer Science, 2017, 134, 45333. | 2.6 | 19 |
| 114 | Enhancing the cyclability of Liâ€“O 2 batteries using PdM alloy nanoparticles anchored on nitrogen-doped reduced graphene as the cathode catalyst. Journal of Power Sources, 2017, 337, 173-179. | 7.8 | 43 |
| 115 | Design and Fabrication of a Dualâ€Photoelectrode Fuel Cell towards Costâ€Effective Electricity Production from Biomass. ChemSusChem, 2017, 10, 99-105. | 6.8 | 51 |
| 116 | Platinum Nanoparticles on Interconnected Ni<sub>3</sub>P/Carbon Nanotubeâ€“Carbon Nanofiber Hybrid Supports with Enhanced Catalytic Activity for Fuel Cells. ChemElectroChem, 2017, 4, 109-114. | 3.4 | 7 |
| 117 | Biomass-derived porous heteroatom-doped carbon spheres as a high-performance catalyst for the oxygen reduction reaction. International Journal of Hydrogen Energy, 2016, 41, 14101-14110. | 7.1 | 54 |
| 118 | Enhanced Li-O2 battery performance, using graphene-like nori-derived carbon as the cathode and adding LiI in the electrolyte as a promoter. Electrochimica Acta, 2016, 200, 231-238. | 5.2 | 55 |
| 119 | Multi-block copolymers with fluorene-containing hydrophilic segments densely functionalized by side-chain quaternary ammonium groups as anion exchange membranes. RSC Advances, 2016, 6, 41453-41464. | 3.6 | 13 |
| 120 | A hollow spherical doped carbon catalyst derived from zeolitic imidazolate framework nanocrystals impregnated/covered with iron phthalocyanines. Journal of Materials Chemistry A, 2016, 4, 7859-7868. | 10.3 | 37 |
| 121 | Highly stable and efficient platinum nanoparticles supported on TiO 2 @Ru-C: investigations on the promoting effects of the interpenetrated TiO 2. Electrochimica Acta, 2016, 216, 8-15. | 5.2 | 7 |
| 122 | High porosity and surface area self-doped carbon derived from polyacrylonitrile as efficient electrocatalyst towards oxygen reduction. Journal of Power Sources, 2016, 324, 134-141. | 7.8 | 31 |
| 123 | Limitations and Improvement Strategies for Early-Transition-Metal Nitrides as Competitive Catalysts toward the Oxygen Reduction Reaction. ACS Catalysis, 2016, 6, 6165-6174. | 11.2 | 130 |
| 124 | Effect of confinement of TiO 2 nanotubes over the Ru nanoparticles on Fischer-Tropsch synthesis. Applied Catalysis A: General, 2016, 526, 45-52. | 4.3 | 31 |
| 125 | Cobalt and Nitrogen Codoped Graphene with Inserted Carbon Nanospheres as an Efficient Bifunctional Electrocatalyst for Oxygen Reduction and Evolution. ACS Sustainable Chemistry and Engineering, 2016, 4, 4131-4136. | 6.7 | 101 |
| 126 | Photoassisted Oxygen Reduction Reaction in H<sub>2</sub>â€“O<sub>2</sub> Fuel Cells. Angewandte Chemie - International Edition, 2016, 55, 14748-14751. | 13.8 | 81 |

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|---|---|---|---|
| 127 | Construction of a high-performance air-breathing cathode using platinum catalyst supported by carbon black and carbon nanotubes. International Journal of Hydrogen Energy, 2016, 41, 9191-9196. | 7.1 | 8 |
| 128 | Lithium-rich layered nickelâ€“manganese oxides as high-performance cathode materials: the effects of composition and PEG on performance. Ionics, 2016, 22, 2067-2073. | 2.4 | 0 |
| 129 | High-performance membrane electrode assembly with multi-functional Pt/SnO2â€“SiO2/C catalyst for proton exchange membrane fuel cell operated under low-humidity conditions. International Journal of Hydrogen Energy, 2016, 41, 9197-9203. | 7.1 | 20 |
| 130 | Transition Metal Nitride Coated with Atomic Layers of Pt as a Low-Cost, Highly Stable Electrocatalyst for the Oxygen Reduction Reaction. Journal of the American Chemical Society, 2016, 138, 1575-1583. | 13.7 | 348 |
| 131 | A coreâ€“shell Pd<sub>1</sub>Ru<sub>1</sub>Ni<sub>2</sub>@Pt/C catalyst with a ternary alloy core and Pt monolayer: enhanced activity and stability towards the oxygen reduction reaction by the addition of Ni. Journal of Materials Chemistry A, 2016, 4, 847-855. | 10.3 | 40 |
| 132 | Effects of tailoring and dehydrated cross-linking on morphology evolution of ordered mesoporous carbons. RSC Advances, 2016, 6, 19515-19521. | 3.6 | 9 |
| 133 | Doped reduced graphene oxide mounted with IrO2 nanoparticles shows significantly enhanced performance as a cathode catalyst for Li-O2 batteries. Electrochimica Acta, 2016, 192, 431-438. | 5.2 | 20 |
| 134 | Nitrogen self-doped carbon nanoparticles derived from spiral seaweeds for oxygen reduction reaction. RSC Advances, 2016, 6, 27535-27541. | 3.6 | 21 |
| 135 | Simultaneous doping of nitrogen and fluorine into reduced graphene oxide: A highly active metal-free electrocatalyst for oxygen reduction. Carbon, 2016, 99, 272-279. | 10.3 | 65 |
| 136 | Platinum nanoparticles on carbon-nanotube support prepared by room-temperature reduction with H2 in ethylene glycol/water mixed solvent as catalysts for polymer electrolyte membrane fuel cells. Journal of Power Sources, 2016, 306, 448-453. | 7.8 | 22 |
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