

# Liang-Xin Ding

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

39  
papers

4,556  
citations

29  
h-index

40  
g-index

40  
ext. papers

5,667  
ext. citations

14.9  
avg, IF

6.07  
L-index

| #  | Paper  | IF   | Citations |
|----|--|------|-----------|
| 39 | N-doped porous carbon nanofibers inlaid with hollow Co <sub>3</sub> O <sub>4</sub> nanoparticles as an efficient bifunctional catalyst for rechargeable Li-O <sub>2</sub> batteries. <i>Chinese Journal of Catalysis</i> , <b>2022</b> , 43, 1511-1519 | 11.3 | 2         |
| 38 | Graphene-quantum-dot-composited platinum nanotube arrays as a dual efficient electrocatalyst for the oxygen reduction reaction and methanol electro-oxidation. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 9609-9615                    | 13   | 11        |
| 37 | Competing hydrogen evolution reaction: a challenge in electrocatalytic nitrogen fixation. <i>Materials Chemistry Frontiers</i> , <b>2021</b> , 5, 5954-5969  | 7.8  | 7         |
| 36 | In situ coupling of CoP with MoO <sub>2</sub> for enhanced hydrogen evolution. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 16018-16023  | 13   | 10        |
| 35 | Electrochemical reduction of nitrate to ammonia via direct eight-electron transfer using a copper-molecular solid catalyst. <i>Nature Energy</i> , <b>2020</b> , 5, 605-613  | 62.3 | 220       |
| 34 | Enhancing interfacial contact in all solid state batteries with a cathode-supported solid electrolyte membrane framework. <i>Energy and Environmental Science</i> , <b>2019</b> , 12, 938-944  | 35.4 | 260       |
| 33 | Advanced Non-metallic Catalysts for Electrochemical Nitrogen Reduction under Ambient Conditions. <i>Chemistry - A European Journal</i> , <b>2019</b> , 25, 12464-12485   | 4.8  | 40        |
| 32 | High Efficiency Electrochemical Nitrogen Fixation Achieved with a Lower Pressure Reaction System by Changing the Chemical Equilibrium. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 15541-15547                                | 16.4 | 112       |
| 31 | High Efficiency Electrochemical Nitrogen Fixation Achieved with a Lower Pressure Reaction System by Changing the Chemical Equilibrium. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 15687-15693   | 3.6  | 19        |
| 30 | Ammonia Synthesis Under Ambient Conditions: Selective Electroreduction of Dinitrogen to Ammonia on Black Phosphorus Nanosheets. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 2612-2616   | 16.4 | 294       |
| 29 | Advances in Electrocatalytic N <sub>2</sub> Reduction Strategies to Tackle the Selectivity Challenge. <i>Small Methods</i> , <b>2019</b> , 3, 1800337  | 12.8 | 265       |
| 28 | PdO/Pd-CeO <sub>2</sub> hollow spheres with fresh Pd surface for enhancing formic acid oxidation. <i>Chemical Engineering Journal</i> , <b>2018</b> , 347, 193-201   | 14.7 | 26        |
| 27 | MXene molecular sieving membranes for highly efficient gas separation. <i>Nature Communications</i> , <b>2018</b> , 9, 155   | 17.4 | 530       |
| 26 | Confined heat treatment of a Prussian blue analogue for enhanced electrocatalytic oxygen evolution. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 15942-15946   | 13   | 29        |
| 25 | Self-Assembled Close-Packed MnO Nanoparticles Anchored on a Polyethylene Separator for Lithium-Sulfur Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 26274-26282   | 9.5  | 64        |
| 24 | Nitrogen Reduction Reaction: Molybdenum Carbide Nanodots Enable Efficient Electrocatalytic Nitrogen Fixation under Ambient Conditions (Adv. Mater. 46/2018). <i>Advanced Materials</i> , <b>2018</b> , 30, 1870350                                     | 24   | 11        |
| 23 | Molybdenum Carbide Nanodots Enable Efficient Electrocatalytic Nitrogen Fixation under Ambient Conditions. <i>Advanced Materials</i> , <b>2018</b> , 30, e1803694   | 24   | 436       |

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| 22 | Paralyzed membrane: Current-driven synthesis of a metal-organic framework with sharpened propene/propane separation. <i>Science Advances</i> , <b>2018</b> , 4, eaau1393   | 14.3 | 132 |
| 21 | Self-Supported PtAuP Alloy Nanotube Arrays with Enhanced Activity and Stability for Methanol Electro-Oxidation. <i>Small</i> , <b>2017</b> , 13, 1604000   | 11   | 42  |
| 20 | Highly Compressible Nitrogen-Doped Carbon Foam Electrode with Excellent Rate Capability via a Smart Etching and Catalytic Process. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 15477-15483  | 9.5  | 24  |
| 19 | Hierarchical NiCo <sub>2</sub> O <sub>4</sub> nanosheets on carbon nanofiber films for high energy density and long-life LiD <sub>2</sub> batteries. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 14530-14536  | 13   | 39  |
| 18 | A high strength, free-standing cathode constructed by regulating graphitization and the pore structure in nitrogen-doped carbon nanofibers for flexible lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 6832-6839   | 13   | 79  |
| 17 | Introduction of metal precursors by electrodeposition for the in situ growth of metal-organic framework membranes on porous metal substrates. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 1948-1951   | 13   | 49  |
| 16 | Ammonia Electrosynthesis with High Selectivity under Ambient Conditions via a Li Incorporation Strategy. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 9771-9774  | 16.4 | 397 |
| 15 | Nitrogen-doped porous carbon derived from residuary shaddock peel: a promising and sustainable anode for high energy density asymmetric supercapacitors. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 372-378  | 13   | 102 |
| 14 | Freestanding, Hydrophilic Nitrogen-Doped Carbon Foams for Highly Compressible All Solid-State Supercapacitors. <i>Advanced Materials</i> , <b>2016</b> , 28, 5997-6002   | 24   | 233 |
| 13 | Graphene-based nitrogen-doped carbon sandwich nanosheets: a new capacitive process controlled anode material for high-performance sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 8630-8635   | 13   | 145 |
| 12 | Highly ordered ZnMnO <sub>3</sub> nanotube arrays from a self-sacrificial ZnO template as high-performance electrodes for lithium ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 16318-16323  | 13   | 23  |
| 11 | Highly stable PtP alloy nanotube arrays as a catalyst for the oxygen reduction reaction in acidic medium. <i>Chemical Science</i> , <b>2015</b> , 6, 3211-3216   | 9.4  | 53  |
| 10 | Synthesis of novel nitrogen-doped lithium titanate with ultra-high rate capability using melamine as a solid nitrogen source. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 10753-10759   | 13   | 37  |
| 9  | Hierarchical Mesoporous/Macroporous Perovskite La <sub>0.5</sub> Sr <sub>0.5</sub> CoO <sub>3-x</sub> Nanotubes: A Bifunctional Catalyst with Enhanced Activity and Cycle Stability for Rechargeable Lithium Oxygen Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 22478-86 | 9.5  | 114 |
| 8  | Binder-free Co <sub>2</sub> O <sub>3</sub> nanowire arrays for lithium ion batteries with excellent rate capability and ultra-long cycle life. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 19711-19717  | 13   | 34  |
| 7  | Pt/Ni(OH)-NiOOH/Pd multi-walled hollow nanorod arrays as superior electrocatalysts for formic acid electrooxidation. <i>Chemical Science</i> , <b>2015</b> , 6, 6991-6998  | 9.4  | 49  |
| 6  | Nitrogen-doped bamboo-like carbon nanotubes: promising anode materials for sodium-ion batteries. <i>Chemical Communications</i> , <b>2015</b> , 51, 16045-8  | 5.8  | 92  |
| 5  | Co(OH) <sub>2</sub> @PANI Hybrid Nanosheets with 3D Networks as High-Performance Electrocatalysts for Hydrogen Evolution Reaction. <i>Advanced Materials</i> , <b>2015</b> , 27, 7051-7  | 24   | 250 |

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| 4 | Honeycomb-like NiMoO <sub>4</sub> ultrathin nanosheet arrays for high-performance electrochemical energy storage. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 6128-6135          | 13   | 175 |
| 3 | Ultrathin and highly-ordered CoO nanosheet arrays for lithium-ion batteries with high cycle stability and rate capability. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 5625-5630 | 13   | 90  |
| 2 | Novel nitrogen-rich porous carbon spheres as a high-performance anode material for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 16617-16622                | 13   | 50  |
| 1 | Sn-Doped Black Phosphorene for Enhancing the Selectivity of Nitrogen Electroreduction to Ammonia. <i>Advanced Functional Materials</i> , 2111161  | 15.6 | 4   |