

Liang-Xin Ding

List of Publications by Citations

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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	MXene molecular sieving membranes for highly efficient gas separation. <i>Nature Communications</i> , 2018 , 9, 155	17.4	530
38	Molybdenum Carbide Nanodots Enable Efficient Electrocatalytic Nitrogen Fixation under Ambient Conditions. <i>Advanced Materials</i> , 2018 , 30, e1803694	24	436
37	Ammonia Electrosynthesis with High Selectivity under Ambient Conditions via a Li Incorporation Strategy. <i>Journal of the American Chemical Society</i> , 2017 , 139, 9771-9774	16.4	397
36	Ammonia Synthesis Under Ambient Conditions: Selective Electroreduction of Dinitrogen to Ammonia on Black Phosphorus Nanosheets. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 2612-2616	16.4	294
35	Advances in Electrocatalytic N ₂ Reduction Strategies to Tackle the Selectivity Challenge. <i>Small Methods</i> , 2019 , 3, 1800337	12.8	265
34	Enhancing interfacial contact in all solid state batteries with a cathode-supported solid electrolyte membrane framework. <i>Energy and Environmental Science</i> , 2019 , 12, 938-944	35.4	260
33	Co(OH) ₂ @PANI Hybrid Nanosheets with 3D Networks as High-Performance Electrocatalysts for Hydrogen Evolution Reaction. <i>Advanced Materials</i> , 2015 , 27, 7051-7	24	250
32	Freestanding, Hydrophilic Nitrogen-Doped Carbon Foams for Highly Compressible All Solid-State Supercapacitors. <i>Advanced Materials</i> , 2016 , 28, 5997-6002	24	233
31	Electrochemical reduction of nitrate to ammonia via direct eight-electron transfer using a copper-molecular solid catalyst. <i>Nature Energy</i> , 2020 , 5, 605-613	62.3	220
30	Honeycomb-like NiMoO ₄ ultrathin nanosheet arrays for high-performance electrochemical energy storage. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 6128-6135	13	175
29	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> , 2016 , 4, 8630-8635	13	145
28	Paralyzed membrane: Current-driven synthesis of a metal-organic framework with sharpened propene/propane separation. <i>Science Advances</i> , 2018 , 4, eaau1393	14.3	132
27	Hierarchical Mesoporous/Macroporous Perovskite La _{0.5} Sr _{0.5} CoO _{3-x} Nanotubes: A Bifunctional Catalyst with Enhanced Activity and Cycle Stability for Rechargeable Lithium Oxygen Batteries. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 22478-86	9.5	114
26	High Efficiency Electrochemical Nitrogen Fixation Achieved with a Lower Pressure Reaction System by Changing the Chemical Equilibrium. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 15541-15547	16.4	112
25	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> , 2016 , 4, 372-378	13	102
24	Nitrogen-doped bamboo-like carbon nanotubes: promising anode materials for sodium-ion batteries. <i>Chemical Communications</i> , 2015 , 51, 16045-8	5.8	92
23	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> , 2014 , 2, 5625-5630	13	90

22	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> , 2017 , 5, 6832-6839	13	79
21	Self-Assembled Close-Packed MnO Nanoparticles Anchored on a Polyethylene Separator for Lithium-Sulfur Batteries. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 26274-26282	9.5	64
20	Highly stable PtPd alloy nanotube arrays as a catalyst for the oxygen reduction reaction in acidic medium. <i>Chemical Science</i> , 2015 , 6, 3211-3216	9.4	53
19	Novel nitrogen-rich porous carbon spheres as a high-performance anode material for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 16617-16622	13	50
18	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> , 2017 , 5, 1948-1951 ¹³	13	49
17	Pt/Ni(OH)-NiOOH/Pd multi-walled hollow nanorod arrays as superior electrocatalysts for formic acid electrooxidation. <i>Chemical Science</i> , 2015 , 6, 6991-6998	9.4	49
16	Self-Supported PtAuPd Alloy Nanotube Arrays with Enhanced Activity and Stability for Methanol Electro-Oxidation. <i>Small</i> , 2017 , 13, 1604000	11	42
15	Advanced Non-metallic Catalysts for Electrochemical Nitrogen Reduction under Ambient Conditions. <i>Chemistry - A European Journal</i> , 2019 , 25, 12464-12485	4.8	40
14	Hierarchical NiCo ₂ O ₄ nanosheets on carbon nanofiber films for high energy density and long-life LiD ₂ batteries. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 14530-14536	13	39
13	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> , 2015 , 3, 10753-10759	13	37
12	Binder-free Co ₃ O ₄ nanowire arrays for lithium ion batteries with excellent rate capability and ultra-long cycle life. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 19711-19717	13	34
11	Confined heat treatment of a Prussian blue analogue for enhanced electrocatalytic oxygen evolution. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 15942-15946	13	29
10	PdO/Pd-CeO ₂ hollow spheres with fresh Pd surface for enhancing formic acid oxidation. <i>Chemical Engineering Journal</i> , 2018 , 347, 193-201	14.7	26
9	Highly Compressible Nitrogen-Doped Carbon Foam Electrode with Excellent Rate Capability via a Smart Etching and Catalytic Process. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 15477-15483	9.5	24
8	Highly ordered ZnMnO ₃ nanotube arrays from a self-sacrificial ZnO template as high-performance electrodes for lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 16318-16323 ¹³	13	23
7	High Efficiency Electrochemical Nitrogen Fixation Achieved with a Lower Pressure Reaction System by Changing the Chemical Equilibrium. <i>Angewandte Chemie</i> , 2019 , 131, 15687-15693	3.6	19
6	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> , 2021 , 9, 9609-9615	13	11
5	Nitrogen Reduction Reaction: Molybdenum Carbide Nanodots Enable Efficient Electrocatalytic Nitrogen Fixation under Ambient Conditions (Adv. Mater. 46/2018). <i>Advanced Materials</i> , 2018 , 30, 1870350 ²⁴	24	11

4	In situ coupling of CoP with MoO ₂ for enhanced hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 16018-16023	13	10
3	Competing hydrogen evolution reaction: a challenge in electrocatalytic nitrogen fixation. <i>Materials Chemistry Frontiers</i> , 2021 , 5, 5954-5969	7.8	7
2	Sn-Doped Black Phosphorene for Enhancing the Selectivity of Nitrogen Electroreduction to Ammonia. <i>Advanced Functional Materials</i> , 2111161	15.6	4
1	N-doped porous carbon nanofibers inlaid with hollow Co ₃ O ₄ nanoparticles as an efficient bifunctional catalyst for rechargeable Li-O ₂ batteries. <i>Chinese Journal of Catalysis</i> , 2022 , 43, 1511-1519	11.3	2