

Yongning Liu

List of Publications by Year in descending order

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47
papers

1,743
citations

394421

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276875

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47
docs citations

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times ranked

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#	ARTICLE	IF	CITATIONS
1	Enhanced Structural Stability of Nickel–Cobalt Hydroxide via Intrinsic Pillar Effect of Metaborate for High-Power and Long-Life Supercapacitor Electrodes. <i>Nano Letters</i> , 2017, 17, 429-436.	9.1	241
2	Atomically Dispersed Fe–Co Dual Metal Sites as Bifunctional Oxygen Electrocatalysts for Rechargeable and Flexible Zn–Air Batteries. <i>ACS Catalysis</i> , 2022, 12, 1216-1227.	11.2	232
3	Highly Dispersed Pd-CeO ₂ Nanoparticles Supported on N-Doped Core–Shell Structured Mesoporous Carbon for Methanol Oxidation in Alkaline Media. <i>ACS Catalysis</i> , 2019, 9, 6362-6371.	11.2	131
4	Potassium ferrous ferricyanide nanoparticles as a high capacity and ultralong life cathode material for nonaqueous potassium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2017, 5, 22465-22471.	10.3	128
5	Chemical Vapor Deposition for N/S-Doped Single Fe Site Catalysts for the Oxygen Reduction in Direct Methanol Fuel Cells. <i>ACS Catalysis</i> , 2021, 11, 7450-7459.	11.2	120
6	Potassium Nickel Iron Hexacyanoferrate as Ultra-Long-Life Cathode Material for Potassium-Ion Batteries with High Energy Density. <i>ACS Nano</i> , 2020, 14, 9807-9818.	14.6	116
7	The superior electrochemical performance of a Li-rich layered cathode material with Li-rich spinel Li ₄ Mn ₅ O ₁₂ and MgF ₂ double surface modifications. <i>Journal of Materials Chemistry A</i> , 2020, 8, 7991-8001.	10.3	59
8	Defect Engineering in a Multiple Confined Geometry for Robust Lithium–Sulfur Batteries. <i>Advanced Energy Materials</i> , 2022, 12, .	19.5	58
9	Stability-Enhanced Ni(OH) ₂ Pillared by Metaborate Anions for Pseudocapacitors. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 28118-28128.	8.0	46
10	Polysulfide Filter and Dendrite Inhibitor: Highly Graphitized Wood Framework Inhibits Polysulfide Shuttle and Lithium Dendrites in Li–S Batteries. <i>Advanced Functional Materials</i> , 2021, 31, 2102458.	14.9	42
11	Facilitating catalytic activity of indium oxide in lithium-sulfur batteries by controlling oxygen vacancies. <i>Energy Storage Materials</i> , 2022, 48, 133-144.	18.0	42
12	Improving electrochemical performances of Lithium-rich oxide by cooperatively doping Cr and coating Li ₃ PO ₄ as cathode material for Lithium-ion batteries. <i>Journal of Colloid and Interface Science</i> , 2020, 576, 468-475.	9.4	37
13	Lightweight Freestanding CeF ₃ Nanorod/Carbon Nanotube Composite Interlayer for Lithium–Sulfur Batteries. <i>ACS Applied Nano Materials</i> , 2020, 3, 5732-5742.	5.0	37
14	Effect of valence states of Ni and Mn on the structural and electrochemical properties of Li _{1.2} Ni _x Mn _{0.8-x} O ₂ cathode materials for lithium-ion batteries. <i>RSC Advances</i> , 2016, 6, 53662-53668.	3.6	36
15	A Highly Efficient Sulfur Host Enabled by Nitrogen/Oxygen Dual-Doped Honeycomb-Like Carbon for Advanced Lithium–Sulfur Batteries. <i>Small</i> , 2022, 18, e2107380.	10.0	29
16	Two 3D structured Co-Ni bimetallic oxides as cathode catalysts for high-performance alkaline direct methanol fuel cells. <i>Journal of Power Sources</i> , 2017, 361, 160-169.	7.8	24
17	Sandwich-like strontium fluoride graphene-modified separator inhibits polysulfide shuttling and lithium dendrite growth in lithium–sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2022, 10, 4833-4844.	10.3	23
18	Effect of Defects on Decay of Voltage and Capacity for Li _{0.15} Ni _{0.2} Mn _{0.6} O ₂ Cathode Material. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 12118-12126.	8.0	21

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19	Nano-Fe ₃ O ₄ grown on porous carbon and its effect on the oxygen reduction reaction for DMFCs with a polymer fiber membrane. RSC Advances, 2016, 6, 37012-37017.	3.6	20
20	<i>In situ</i> formation of a carbon fiber@Ni ₃ S ₂ non-woven electrode with ultrahigh areal and volumetric capacitance. Journal of Materials Chemistry A, 2017, 5, 23476-23480.	10.3	19
21	Harvesting waste heat energy by promoting H ⁺ -ion concentration difference with a fuel cell structure. Nano Energy, 2019, 57, 101-107.	16.0	18
22	Preparation of porous carbon with high dispersion of Ru nanoparticles by sol-gel method and its application in hydrogen storage. Journal of Materials Chemistry A, 2014, 2, 9193-9199.	10.3	17
23	Enhanced electrochemical properties of potassium-doped lithium-rich oxide@carbon as cathode material for lithium-ion batteries. Journal of Colloid and Interface Science, 2022, 605, 718-726.	9.4	17
24	Preparation of porous (Ni,Co) ₃ (BO ₃) ₂ /Ni(OH) ₂ nanosheet networks as pseudocapacitor materials with superior performance. Journal of Materials Chemistry A, 2014, 2, 5903-5909.	10.3	16
25	Spherical graphite produced from waste semi-coke with enhanced properties as an anode material for Li-ion batteries. Sustainable Energy and Fuels, 2019, 3, 3116-3127.	4.9	16
26	A calcium fluoride composite reduction graphene oxide functional separator for lithium-sulfur batteries to inhibit polysulfide shuttling and mitigate lithium dendrites. Journal of Colloid and Interface Science, 2021, 601, 305-316.	9.4	16
27	A high-performance direct methanol fuel cell with a polymer fiber membrane and RuO ₂ /CNTs as a cathode catalyst. Journal of Materials Chemistry A, 2013, 1, 1834-1839.	10.3	15
28	Carbon-coated Ir ₂ MnO ₂ for cathode of lithium-ion battery. Sustainable Energy and Fuels, 2020, 4, 1704-1711.	4.9	14
29	Cyclodextrins: Promising candidate media for high-capacity hydrogen adsorption. Applied Physics Letters, 2010, 96, .	3.3	13
30	N,O-codoped carbon spheres with uniform mesoporous entangled Co ₃ O ₄ nanoparticles as a highly efficient electrocatalyst for oxygen reduction in a Zn-air battery. Journal of Colloid and Interface Science, 2021, 604, 746-756.	9.4	13
31	Enhancement of Impact Toughness by Delamination Fracture in a Low-Alloy High-Strength Steel with Al Alloying. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2016, 47, 5985-5993.	2.2	12
32	Carbon Layer-Enhanced Electronic Interaction of Pd-SnO ₂ Hybrid Catalyst with High Performance in DAFC. ACS Applied Energy Materials, 2019, 2, 8449-8458.	5.1	11
33	Nonstoichiometry of Li-rich cathode material with improved cycling ability for lithium-ion batteries. Journal of Colloid and Interface Science, 2020, 570, 264-272.	9.4	11
34	Ordered mesoporous carbon spheres assisted Ru nanoclusters/RuO ₂ with redistribution of charge density for efficient CO ₂ methanation in a novel H ₂ /CO ₂ fuel cell. Journal of Energy Chemistry, 2022, 72, 116-124.	12.9	11
35	Pearlitic Transformations in an Ultrafine-Grained Hypereutectoid Steel. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2011, 42, 2144-2152.	2.2	10
36	Ordered Nanoporous Nitrogen- and Oxygen-Codoped Carbon Nanospheres as Electrocatalysts for Oxygen-Reduction Reaction in Direct Methanol Fuel Cells. ACS Applied Nano Materials, 2020, 3, 5139-5148.	5.0	10

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37	Improvement of the cyclic deterioration and structural evolution of $\text{Li}[\text{Li}_{0.2}\text{Ni}_{0.2}\text{Mn}_{0.6}\text{O}_2]$ cathode material by controlling initial charging voltages. <i>RSC Advances</i> , 2016, 6, 23677-23685.	3.6	9
38	Polymer fiber membrane-based direct ethanol fuel cell with Ni-doped SnO_2 promoted Pd/C catalyst. <i>Catalysis Science and Technology</i> , 2020, 10, 4099-4108.	4.1	9
39	High-Performance, Stable, and Flexible Direct Methanol Fuel Cell Based on a Pre-swelling Kalium Polyacrylate Gel Electrolyte and Single-Atom Cathode Catalyst. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 15138-15146.	6.7	9
40	The Enhanced Electrochemical Performance of $\text{Li}_{1.2}\text{Ni}_{0.2}\text{Mn}_{0.6}\text{O}_2$ through Coating MnF_2 Nano Protective Layer. <i>Energy Technology</i> , 2019, 7, 1900443.	3.8	7
41	$\text{KMn}_{7.6}\text{Co}_{0.4}\text{O}_{16}$ nano-rod clusters with a high discharge specific capacity as cathode materials for potassium-ion batteries. <i>Sustainable Energy and Fuels</i> , 2019, 3, 736-743.	4.9	6
42	Effect of metal oxide and oxygen on the growth of single-walled carbon nanotubes by electric arc discharge. <i>Journal of Nanoparticle Research</i> , 2008, 10, 409-414.	1.9	5
43	Effect of phosphoric acid-doped polybenzimidazole membranes on the performance of H^+ -ion concentration cell. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 4354-4364.	7.1	5
44	Restriction of voltage decay by limiting low-voltage reduction in Li-rich oxide materials. <i>Journal of Colloid and Interface Science</i> , 2022, 620, 57-66.	9.4	5
45	A Novel Sandwich-type Dinuclear Complex for High-capacity Hydrogen Storage. <i>Chinese Journal of Chemistry</i> , 2012, 30, 173-176.	4.9	4
46	Novel honeycomb-like carbons with tunable nanopores as metal-free N, O-codoped catalysts for robust oxygen reduction. <i>Chemical Engineering Journal</i> , 2022, 433, 133560.	12.7	2
47	A theoretical study on the mechanism of a novel one-carbon unit transfer reaction. <i>Structural Chemistry</i> , 2011, 22, 901-907.	2.0	1