

# Yongning Liu

## List of Publications by Year in descending order

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47  
papers

1,743  
citations

394421

19  
h-index

276875

41  
g-index

47  
all docs

47  
docs citations

47  
times ranked

1863  
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhanced electrochemical properties of potassium-doped lithium-rich oxide@carbon as cathode material for lithium-ion batteries. <i>Journal of Colloid and Interface Science</i> , 2022, 605, 718-726.	9.4	17
2	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
3	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
4	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
5	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
6	Defect Engineering in a Multiple Confined Geometry for Robust Lithium@sulfur Batteries. <i>Advanced Energy Materials</i> , 2022, 12, .	19.5	58
7	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
8	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
9	Ordered mesoporous carbon spheres assisted Ru nanoclusters/RuO <sub>2</sub> with redistribution of charge density for efficient CO <sub>2</sub> methanation in a novel H <sub>2</sub> /CO <sub>2</sub> fuel cell. <i>Journal of Energy Chemistry</i> , 2022, 72, 116-124.	12.9	11
10	Effect of phosphoric acid-doped polybenzimidazole membranes on the performance of H <sup>+</sup> -ion concentration cell. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 4354-4364.	7.1	5
11	Polysulfide Filter and Dendrite Inhibitor: Highly Graphitized Wood Framework Inhibits Polysulfide Shuttle and Lithium Dendrites in Li@sulfur Batteries. <i>Advanced Functional Materials</i> , 2021, 31, 2102458.	14.9	42
12	Stability-Enhanced $\text{Ni}(\text{OH})_2$ Pillared by Metaborate Anions for Pseudocapacitors. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 28118-28128.	8.0	46
13	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
14	N,O-codoped carbon spheres with uniform mesoporous entangled Co <sub>3</sub> O <sub>4</sub> nanoparticles as a highly efficient electrocatalyst for oxygen reduction in a Zn-air battery. <i>Journal of Colloid and Interface Science</i> , 2021, 604, 746-756.	9.4	13
15	A calcium fluoride composite reduction graphene oxide functional separator for lithium-sulfur batteries to inhibit polysulfide shuttling and mitigate lithium dendrites. <i>Journal of Colloid and Interface Science</i> , 2021, 601, 305-316.	9.4	16
16	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
17	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
18	Ordered Nanoporous Nitrogen- and Oxygen-Codoped Carbon Nanospheres as Electrocatalysts for Oxygen-Reduction Reaction in Direct Methanol Fuel Cells. <i>ACS Applied Nano Materials</i> , 2020, 3, 5139-5148.	5.0	10

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19	Improving electrochemical performances of Lithium-rich oxide by cooperatively doping Cr and coating Li <sub>3</sub> PO <sub>4</sub> as cathode material for Lithium-ion batteries. Journal of Colloid and Interface Science, 2020, 576, 468-475.	9.4	37
20	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
21	Carbon-coated $\text{Li}^{2+}\text{-MnO}_2$ for cathode of lithium-ion battery. Sustainable Energy and Fuels, 2020, 4, 1704-1711.	4.9	14
22	The superior electrochemical performance of a Li-rich layered cathode material with Li-rich spinel Li <sub>4</sub> Mn <sub>5</sub> O <sub>12</sub> and MgF <sub>2</sub> double surface modifications. Journal of Materials Chemistry A, 2020, 8, 7991-8001.	10.3	59
23	Lightweight Freestanding CeF <sub>3</sub> Nanorod/Carbon Nanotube Composite Interlayer for Lithium-Sulfur Batteries. ACS Applied Nano Materials, 2020, 3, 5732-5742.	5.0	37
24	Polymer fiber membrane-based direct ethanol fuel cell with Ni-doped SnO <sub>2</sub> promoted Pd/C catalyst. Catalysis Science and Technology, 2020, 10, 4099-4108.	4.1	9
25	Carbon Layer-Enhanced Electronic Interaction of Pd-SnO <sub>2</sub> Hybrid Catalyst with High Performance in DAFC. ACS Applied Energy Materials, 2019, 2, 8449-8458.	5.1	11
26	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
27	KMn <sub>0.76</sub> Co <sub>0.4</sub> O <sub>16</sub> nano-rod clusters with a high discharge specific capacity as cathode materials for potassium-ion batteries. Sustainable Energy and Fuels, 2019, 3, 736-743.	4.9	6
28	The Enhanced Electrochemical Performance of Li <sub>1.2</sub> Ni <sub>0.2</sub> Mn <sub>0.6</sub> O <sub>2</sub> through Coating MnF <sub>2</sub> Nano Protective Layer. Energy Technology, 2019, 7, 1900443.	3.8	7
29	Highly Dispersed Pd-CeO <sub>2</sub> Nanoparticles Supported on N-Doped Core-Shell Structured Mesoporous Carbon for Methanol Oxidation in Alkaline Media. ACS Catalysis, 2019, 9, 6362-6371.	11.2	131
30	Harvesting waste heat energy by promoting H <sup>+</sup> -ion concentration difference with a fuel cell structure. Nano Energy, 2019, 57, 101-107.	16.0	18
31	Enhanced Structural Stability of Nickel-Cobalt Hydroxide via Intrinsic Pillar Effect of Metaborate for High-Power and Long-Life Supercapacitor Electrodes. Nano Letters, 2017, 17, 429-436.	9.1	241
32	Potassium ferrous ferricyanide nanoparticles as a high capacity and ultralong life cathode material for nonaqueous potassium-ion batteries. Journal of Materials Chemistry A, 2017, 5, 22465-22471.	10.3	128
33	<i>In situ</i> formation of a carbon fiber@Ni <sub>3</sub> S <sub>2</sub> non-woven electrode with ultrahigh areal and volumetric capacitance. Journal of Materials Chemistry A, 2017, 5, 23476-23480.	10.3	19
34	Two 3D structured Co-Ni bimetallic oxides as cathode catalysts for high-performance alkaline direct methanol fuel cells. Journal of Power Sources, 2017, 361, 160-169.	7.8	24
35	Effect of valence states of Ni and Mn on the structural and electrochemical properties of Li <sub>1.2</sub> Ni <sub>x</sub> Mn <sub>0.8-x</sub> O <sub>2</sub> cathode materials for lithium-ion batteries. RSC Advances, 2016, 6, 53662-53668.	3.6	36
36	Nano-Fe <sub>3</sub> O <sub>4</sub> 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

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37	Effect of Defects on Decay of Voltage and Capacity for Li <sub>0.15</sub> Ni <sub>0.2</sub> Mn <sub>0.6</sub> O <sub>2</sub> Cathode Material. ACS Applied Materials & Interfaces, 2016, 8, 12118-12126.	8.0	21
38	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
39	Improvement of the cyclic deterioration and structural evolution of Li <sub>0.2</sub> Ni <sub>0.2</sub> Mn <sub>0.6</sub> O <sub>2</sub> cathode material by controlling initial charging voltages. RSC Advances, 2016, 6, 23677-23685.	3.6	9
40	Preparation of porous (Ni,Co) <sub>3</sub> (BO <sub>3</sub> ) <sub>2</sub> /Ni(OH) <sub>2</sub> nanosheet networks as pseudocapacitor materials with superior performance. Journal of Materials Chemistry A, 2014, 2, 5903-5909.	10.3	16
41	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
42	A high-performance direct methanol fuel cell with a polymer fiber membrane and RuO <sub>2</sub> /CNTs as a cathode catalyst. Journal of Materials Chemistry A, 2013, 1, 1834-1839.	10.3	15
43	A Novel Sandwich-type Dinuclear Complex for High-capacity Hydrogen Storage. Chinese Journal of Chemistry, 2012, 30, 173-176.	4.9	4
44	A theoretical study on the mechanism of a novel one-carbon unit transfer reaction. Structural Chemistry, 2011, 22, 901-907.	2.0	1
45	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
46	Cyclodextrins: Promising candidate media for high-capacity hydrogen adsorption. Applied Physics Letters, 2010, 96, .	3.3	13
47	Effect of metal oxide and oxygen on the growth of single-walled carbon nanotubes by electric arc discharge. Journal of Nanoparticle Research, 2008, 10, 409-414.	1.9	5