

Fucong Lyu

List of Publications by Year in descending order

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Version: 2024-02-01

47
papers

2,192
citations

270111

25
h-index

252626

46
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48
all docs

48
docs citations

48
times ranked

4060
citing authors

#	ARTICLE	IF	CITATIONS
1	Self-templated formation of twin-like metal-organic framework nanobricks as pre-catalysts for efficient water oxidation. <i>Nano Research</i> , 2022, 15, 2887-2894.	5.8	12
2	Nacre-liked material with tough and post-tunable mechanical properties. <i>Journal of Materials Science and Technology</i> , 2022, 114, 172-179.	5.6	4
3	Nanoscale Heterogeneities of Non-Noble Iron-Based Metallic Glasses toward Efficient Water Oxidation at Industrial-Level Current Densities. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 10288-10297.	4.0	18
4	Tunable ultrathin dual-phase P-doped Bi ₂ MoO ₆ nanosheets for advanced lithium and sodium storage. <i>Nano Research</i> , 2022, 15, 6128-6137.	5.8	8
5	Encapsulating atomic molybdenum into hierarchical nitrogen-doped carbon nanoboxes for efficient oxygen reduction. <i>Journal of Colloid and Interface Science</i> , 2022, 620, 67-76.	5.0	7
6	Mineral Hydrogel from Inorganic Salts: Biocompatible Synthesis, All-in-One Charge Storage, and Possible Implications in the Origin of Life. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	14
7	Anodic self-assembly method for synthesizing hierarchical FeS/FeOx hollow nanospheres. <i>Journal of Power Sources</i> , 2021, 484, 229268.	4.0	7
8	The Twisting of Dome-Like Metamaterial from Brittle to Ductile. <i>Advanced Science</i> , 2021, 8, 2002701.	5.6	17
9	Facile Surfactant-, Reductant-, and Ag Salt-free Growth of Ag Nanoparticles with Controllable Size from 35 to 660 nm on Bulk Ag Materials. <i>Chemistry - an Asian Journal</i> , 2021, 16, 2249-2252.	1.7	5
10	Amorphous High-Entropy Hydroxides of Tunable Wide Solar Absorption for Solar Water Evaporation. <i>Particle and Particle Systems Characterization</i> , 2021, 38, 2100094.	1.2	3
11	Synergistic function of iron and cobalt in metallic glasses for highly improving persulfate activation in water treatment. <i>Journal of Alloys and Compounds</i> , 2020, 822, 153574.	2.8	20
12	Full-Color Reflective Filters in a Large Area with a Wide-Band Tunable Absorber Deposited by One-Step Magnetron Sputtering. <i>Advanced Optical Materials</i> , 2020, 8, 1901626.	3.6	16
13	Fe,N Co-Doped Mesoporous Carbon Nanosheets for Oxygen Reduction. <i>ACS Applied Nano Materials</i> , 2020, 3, 5637-5644.	2.4	16
14	Ultrafine Nanoporous Gold <i>via</i> Thiol Compound-Mediated Chemical Dealloying. <i>Journal of Physical Chemistry C</i> , 2020, 124, 10026-10031.	1.5	4
15	A Novel Multinary Intermetallic as an Active Electrocatalyst for Hydrogen Evolution. <i>Advanced Materials</i> , 2020, 32, e2000385.	11.1	169
16	Water Splitting: A Novel Multinary Intermetallic as an Active Electrocatalyst for Hydrogen Evolution (<i>Adv. Mater.</i> 21/2020). <i>Advanced Materials</i> , 2020, 32, 2070166.	11.1	6
17	High selective detection of mercury (II) ions by thioether side groups on metal-organic frameworks. <i>Analytica Chimica Acta</i> , 2019, 1081, 51-58.	2.6	74
18	Lamellarly Stacking Porous N, P Co-Doped Mo ₂ C/C Nanosheets as High Performance Anode for Lithium-Ion Batteries. <i>Small</i> , 2019, 15, e1805022.	5.2	43

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19	Rare earth-free composites of carbon dots/metal-organic frameworks as white light emitting phosphors. <i>Journal of Materials Chemistry C</i> , 2019, 7, 2207-2211.	2.7	68
20	A review of catalytic performance of metallic glasses in wastewater treatment: Recent progress and prospects. <i>Progress in Materials Science</i> , 2019, 105, 100576.	16.0	209
21	Pt nanoparticles decorated heterostructured g-C ₃ N ₄ /Bi ₂ MoO ₆ microplates with highly enhanced photocatalytic activities under visible light. <i>Scientific Reports</i> , 2019, 9, 7636.	1.6	60
22	Bottom-up synthesis of iron and nitrogen dual-doped porous carbon nanosheets for efficient oxygen reduction. <i>Chemical Communications</i> , 2019, 55, 5789-5792.	2.2	25
23	A Facile Strategy to Construct Silver-Modified, ZnO-Incorporated and Carbon-Coated Silicon/Porous-Carbon Nanofibers with Enhanced Lithium Storage. <i>Small</i> , 2019, 15, e1900436.	5.2	47
24	Large-scale synthesis of carbon dots/TiO ₂ nanocomposites for the photocatalytic color switching system. <i>Nanoscale Advances</i> , 2019, 1, 1819-1825.	2.2	18
25	UiO-66-NO ₂ as an Oxygen "Pump" for Enhancing Oxygen Reduction Reaction Performance. <i>Chemistry of Materials</i> , 2019, 31, 1646-1654.	3.2	33
26	Toward temperature-dependent Bi ³⁺ -related tunable emission in the YVO ₄ :Bi ³⁺ phosphor. <i>Journal of the American Ceramic Society</i> , 2019, 102, 3488-3497.	1.9	18
27	Construction of FeP Hollow Nanoparticles Densely Encapsulated in Carbon Nanosheet Frameworks for Efficient and Durable Electrocatalytic Hydrogen Production. <i>Advanced Science</i> , 2019, 6, 1801490.	5.6	68
28	A solid-state electrochemical sensing platform based on a supramolecular hydrogel. <i>Sensors and Actuators B: Chemical</i> , 2018, 262, 326-333.	4.0	41
29	Synergistic Effects of C ₆₀ -MoC and Ag for Efficient Oxygen Reduction Reaction. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 779-784.	2.1	33
30	Electrochemical antioxidant screening based on a chitosan hydrogel. <i>Bioelectrochemistry</i> , 2018, 121, 7-10.	2.4	43
31	Supramolecular hydrogel directed self-assembly of C- and N-doped hollow CuO as high-performance anode materials for Li-ion batteries. <i>Chemical Communications</i> , 2017, 53, 2138-2141.	2.2	41
32	Low-Cost and Novel Si-Based Gel for Li-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 10699-10707.	4.0	42
33	MoC ultrafine nanoparticles confined in porous graphitic carbon as extremely stable anode materials for lithium- and sodium-ion batteries. <i>Inorganic Chemistry Frontiers</i> , 2017, 4, 289-295.	3.0	42
34	Facile fabrication of N/S-doped carbon nanotubes with Fe ₃ O ₄ nanocrystals enshased for lasting synergy as efficient oxygen reduction catalysts. <i>Journal of Materials Chemistry A</i> , 2017, 5, 13189-13195.	5.2	50
35	Biopolymer-chitosan based supramolecular hydrogels as solid state electrolytes for electrochemical energy storage. <i>Chemical Communications</i> , 2017, 53, 1615-1618.	2.2	91
36	Facile one-pot fabrication of Fe ₂ O ₃ nano-coffee beans by etching along [001] direction for high lithium storage. <i>Science China Materials</i> , 2017, 60, 1187-1195.	3.5	6

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37	Ultrafine N-doped carbon nanoparticles with controllable size to enhance electrocatalytic activity for oxygen reduction reaction. RSC Advances, 2016, 6, 110758-110764.	1.7	10
38	Highly durable organic electrode for sodium-ion batteries via a stabilized $\dot{\text{I}}\text{-C}$ radical intermediate. Nature Communications, 2016, 7, 13318.	5.8	226
39	Simple template fabrication of porous MnCo_2O_4 hollow nanocages as high-performance cathode catalysts for rechargeable Li-O_2 batteries. Nanotechnology, 2016, 27, 135703.	1.3	17
40	Large-scale fabrication of porous carbon-decorated iron oxide microcuboids from Fe^{II} -MOF as high-performance anode materials for lithium-ion batteries. RSC Advances, 2015, 5, 7356-7362.	1.7	57
41	Heterogeneous NiCo_2O_4 @polypyrrole core/sheath nanowire arrays on Ni foam for high performance supercapacitors. Journal of Power Sources, 2015, 294, 120-127.	4.0	142
42	Facile electrodeposition of 3D concentration-gradient Ni-Co hydroxide nanostructures on nickel foam as high performance electrodes for asymmetric supercapacitors. Nano Research, 2015, 8, 2744-2754.	5.8	90
43	Graphitized porous carbon prepared from pyrolysis of Sterculia scaphigera and its application in lithium ion batteries. RSC Advances, 2015, 5, 46558-46563.	1.7	9
44	Binder-free hydrogenated NiO^{II} - CoO hybrid electrodes for high performance supercapacitors. RSC Advances, 2015, 5, 31725-31731.	1.7	31
45	A high performance O_2 -selective membrane based on CAU-1-NH_2 @polydopamine and the PMMA polymer for Li^{II} -air batteries. Chemical Communications, 2015, 51, 4364-4367.	2.2	107
46	BiOCl micro-assembles consisting of ultrafine nanoplates: A high performance electro-catalyst for air electrode of Al^{II} -air batteries. Journal of Power Sources, 2014, 263, 37-45.	4.0	51
47	Acceleration of the redox kinetics of $\text{VO}_2^+/\text{VO}_2$ and $\text{V}^{3+}/\text{V}^{2+}$ couples on carbon paper. Journal of Applied Electrochemistry, 2011, 41, 1183-1190.	1.5	74