Ji-Jing Xu

List of Publications by Year
in descending order

74 papers	8,511 citations	71061 41 h-index	74108 75 g-index
78 all docs	78 docs citations	78 times ranked	8127 citing authors

#	Article	IF	Citations
1	Magnetic and Optical Field Multiâ€Assisted Liâ€“O₂ Batteries with Ultrahigh Energy Efficiency and Cycle Stability. Advanced Materials, 2022, 34, e2104792.	11.1	59
2	Nature-inspired Three-dimensional Au/Spinach as a Binder-free and Self-standing Cathode for High-performance Li-O2 Batteries. Chemical Research in Chinese Universities, 2022, 38, 200-208.	1.3	7
3	A TEMPO-grafted multi-functional cathode with strong anchoring ability towards redox mediators for high energy efficiency Li-O2 batteries. Energy Storage Materials, 2022, 45, 191-200.	9.5	14
4	Oxygen Vacancyâ€Mediated Growth of Amorphous Discharge Products toward an Ultrawide Band Lightâ€Assisted Liâ€“O₂ Batteries. Advanced Materials, 2022, 34, e2107826.	11.1	51
5	Highly Stable Co Single Atom Confined in Hierarchical Carbon Molecular Sieve as Efficient Electrocatalysts in Metalâ€“Air Batteries. Advanced Energy Materials, 2022, 12, .	10.2	44
6	Fundamental Understanding and Construction of Solidâ€State Liâ^'Air Batteries. Small Science, 2022, 2, .	5.8	17
7	Metalâ€“Organic Frameworks Derived Electrolytes Build Multiple Wetting Interfaces for Integrated Solidâ€State Lithiumâ€“Oxygen Battery. Advanced Functional Materials, 2022, 32, .	7.8	30
8	Resolving the cathode passivation of lithiumâ€“oxygen batteries with an amination SiO2/TiO2 functional separator. Journal of Power Sources, 2021, 483, 229180.	4.0	6
9	Strategies with Functional Materials in Tackling Instability Challenges of Non-aqueous Lithium-Oxygen Batteries. Chemical Research in Chinese Universities, 2021, 37, 232-245.	1.3	7
10	Enabling shuttle-free of high concentration redox mediators by metal organic framework derivatives in lithiumâ€“oxygen batteries. Journal of Power Sources, 2021, 492, 229575.	4.0	7
11	A highly stable and flexible zeolite electrolyte solid-state Liâ€“air battery. Nature, 2021, 592, 551-557.	13.7	306
12	Driving Oxygen Electrochemistry in Lithiumâ€“Oxygen Battery by Local Surface Plasmon Resonance. ACS Applied Materials & Interfaces, 2021, 13, 26123-26133.	4.0	17
13	A Renewable Lightâ€Promoted Flexible Liâ€CO₂ Battery with Ultrahigh Energy Efficiency of 97.9%. Small, 2021, 17, e2100642.	5.2	27
14	Bioinspired Fabrication of Strong Self-Standing Egg-Sugarcane Cathodes for Rechargeable Lithiumâ€“Oxygen Batteries. CCS Chemistry, 2021, 3, 1764-1774.	4.6	12
15	Perovskite Quantum Dots Encapsulated in a Mesoporous Metalâ€“Organic Framework as Synergistic Photocathode Materials. Journal of the American Chemical Society, 2021, 143, 14253-14260.	6.6	118
16	Localized surface plasmon resonance enhanced electrochemical kinetics and product selectivity in aprotic Liâ€“O2 batteries. Energy Storage Materials, 2021, 42, 618-627.	9.5	17
17	Bio-inspired design of strong self-standing cathode toward highly stable reversible Li-CO2 batteries. Chemical Engineering Journal, 2021, 426, 131101.	6.6	6
18	A Bifunctional Photoâ€Assisted Liâ€“O₂ Battery Based on a Hierarchical Heterostructured Cathode. Advanced Materials, 2020, 32, e1907098.	11.1	105

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19	Porous Materials Applied in Nonaqueous Liâ€“O₂ Batteries: Status and Perspectives. Advanced Materials, 2020, 32, e2002559.	11.1	115
20	Facile Route to Constructing Ternary Nanoalloy Bifunctional Oxygen Cathode for Metal-Air Batteries. Chemical Research in Chinese Universities, 2020, 36, 1153-1160.	1.3	5
21	Tuning lithium-peroxide formation and decomposition routes with single-atom catalysts for lithiumâ€“oxygen batteries. Nature Communications, 2020, 11, 2191.	5.8	181
22	Light/Electricity Energy Conversion and Storage for a Hierarchical Porous In₂S₃@CNT/SS Cathode towards a Flexible Liâ€CO₂ Battery. Angewandte Chemie - International Edition, 2020, 59, 19518-19524.	7.2	94
23	Light/Electricity Energy Conversion and Storage for a Hierarchical Porous In₂S₃@CNT/SS Cathode towards a Flexible Liâ€CO₂ Battery. Angewandte Chemie, 2020, 132, 19686-19692.	1.6	13
24	In situ fabricated photo-electro-catalytic hybrid cathode for light-assisted lithiumâ€“CO₂ batteries. Journal of Materials Chemistry A, 2020, 8, 14799-14806.	5.2	33
25	Process for a Free-Standing and Stable All-Metal Structure for Symmetrical Lithiumâ€“Oxygen Batteries. ACS Nano, 2020, 14, 3281-3289.	7.3	51
26	Stabilizing electrochemical Liâ€“O₂ batteries with a metal-based cathode of PdNi on Ni nonwoven fabric. Nanoscale, 2019, 11, 11513-11520.	2.8	7
27	Realizing Formation and Decomposition of Li2O2 on Its Own Surface with a Highly Dispersed Catalyst for High Round-Trip Efficiency Li-O2 Batteries. IScience, 2019, 14, 36-46.	1.9	28
28	Photoinduced decoration of NiO nanosheets/Ni foam with Pd nanoparticles towards a carbon-free and self-standing cathode for a lithiumâ€“oxygen battery with a low overpotential and long cycle life. Materials Horizons, 2018, 5, 298-302.	6.4	27
29	Bioinspired, Freeâ€Standing, Flexible, and Lowâ€Cost Superâ€Hydrophobic Nâ€CNTs@SS Cathodes for Highâ€Capacity, Highâ€Rate, and Stable Liâ€Air Batteries. Advanced Energy Materials, 2018, 8, 1702242.	10.2	108
30	In Situ Construction of Stable Tissueâ€Directed/Reinforced Bifunctional Separator/Protection Film on Lithium Anode for Lithiumâ€“Oxygen Batteries. Advanced Materials, 2017, 29, 1606552.	11.1	162
31	Highâ€Performance Integrated Selfâ€Package Flexible Liâ€“O₂ Battery Based on Stable Composite Anode and Flexible Gas Diffusion Layer. Advanced Materials, 2017, 29, 1700378.	11.1	72
32	Nanoengineered Ultralight and Robust All-Metal Cathode for High-Capacity, Stable Lithiumâ€“Oxygen Batteries. ACS Central Science, 2017, 3, 598-604.	5.3	109
33	Recent Progress in Electrocatalyst for Liâ€O₂ Batteries. Advanced Energy Materials, 2017, 7, 1700875.	10.2	235
34	Liâ€“air batteries: Decouple to stabilize. Nature Energy, 2017, 2, .	19.8	46
35	CeO2@NiCo2O4 nanowire arrays on carbon textiles as high performance cathode for Li-O2 batteries. Science China Chemistry, 2017, 60, 1540-1545.	4.2	24
36	Ultrathin, Lightweight, and Wearable Liâ€O₂ Battery with High Robustness and Gravimetric/Volumetric Energy Density. Small, 2017, 13, 1602952.	5.2	69

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37	Design and Preparation of Advanced Materials for Lithium-Air Batteries. Acta Chimica Sinica, 2017, 75, 137.	0.5	2
38	Cableâ€Type Waterâ€Survivable Flexible Liâ€O₂ Battery. Small, 2016, 12, 3101-3105.	5.2	102
39	Cathode Surfaceâ€Induced, Solvationâ€Mediated, Micrometerâ€Sized Li₂O₂ Cycling for Liâ€“O₂ Batteries. Advanced Materials, 2016, 28, 9620-9628.	11.1	232
40	Growth of Ruâ€Modified Co₃O₄ Nanosheets on Carbon Textiles toward Flexible and Efficient Cathodes for Flexible Liâ€“O₂ Batteries. Particle and Particle Systems Characterization, 2016, 33, 500-505.	1.2	33
41	Macroporous Interconnected Hollow Carbon Nanofibers Inspired by Goldenâ€Toad Eggs toward a Binderâ€Free, Highâ€Rate, and Flexible Electrode. Advanced Materials, 2016, 28, 7494-7500.	11.1	162
42	Flexible and Foldable Liâ€“O₂ Battery Based on Paperâ€Ink Cathode. Advanced Materials, 2015, 27, 8095-8101.	11.1	117
43	Artificial Protection Film on Lithium Metal Anode toward Longâ€Cycleâ€Life Lithiumâ€“Oxygen Batteries. Advanced Materials, 2015, 27, 5241-5247.	11.1	439
44	Recent Progress on Stability Enhancement for Cathode in Rechargeable Nonâ€Aqueous Lithiumâ€Oxygen Battery. Advanced Energy Materials, 2015, 5, 1500633.	10.2	128
45	Hierarchical Co3O4 porous nanowires as an efficient bifunctional cathode catalyst for long life Li-O2 batteries. Nano Research, 2015, 8, 576-583.	5.8	65
46	Flexible lithiumâ€“oxygen battery based on a recoverable cathode. Nature Communications, 2015, 6, 7892.	5.8	279
47	Synthesis and Properties Investigation of Non-equivalent Substituted W-Type Hexaferrite. Journal of Superconductivity and Novel Magnetism, 2014, 27, 411-420.	0.8	11
48	Direct electrodeposition of cobalt oxide nanosheets on carbon paper as free-standing cathode for Liâ€“O₂battery. Journal of Materials Chemistry A, 2014, 2, 6081-6085.	5.2	83
49	Oxygen electrocatalysts in metalâ€“air batteries: from aqueous to nonaqueous electrolytes. Chemical Society Reviews, 2014, 43, 7746-7786.	18.7	1,264
50	3D ordered macroporous LaFeO3 as efficient electrocatalyst for Liâ€“O2 batteries with enhanced rate capability and cyclic performance. Energy and Environmental Science, 2014, 7, 2213.	15.6	339
51	Electromagnetic properties and microwave absorption enhancement of Ba0.85RE0.15Co2Fe16O27-polyaniline composites: REâ€‰=â€‰Gd, Tb, Ho. Colloid and Polymer Science, 2014, 292, 2173-2183.	2.2	20
52	Electrostatic Induced Stretch Growth of Homogeneous Î²-Ni(OH)2 on Graphene with Enhanced High-Rate Cycling for Supercapacitors. Scientific Reports, 2014, 4, 3669.	1.6	222
53	Tailoring deposition and morphology of discharge products towards high-rate and long-life lithium-oxygen batteries. Nature Communications, 2013, 4, 2438.	5.8	519
54	Synthesis of Perovskiteâ€Based Porous La_{0.75}Sr_{0.25}MnO₃ Nanotubes as a Highly Efficient Electrocatalyst for Rechargeable Lithiumâ€“Oxygen Batteries. Angewandte Chemie - International Edition, 2013, 52, 3887-3890.	7.2	482

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55	Homogeneous CoO on Graphene for Binderâ€Free and Ultralongâ€Life Lithium Ion Batteries. Advanced Functional Materials, 2013, 23, 4345-4353.	7.8	333
56	Batteries: Homogeneous CoO on Graphene for Binderâ€Free and Ultralongâ€Life Lithium Ion Batteries (Adv. Funct. Mater. 35/2013). Advanced Functional Materials, 2013, 23, 4274-4274.	7.8	17
57	A stable sulfone based electrolyte for high performance rechargeable Liâ€“O2 batteries. Chemical Communications, 2012, 48, 11674.	2.2	99
58	Lithium Ion Batteries: Graphene Oxide Gelâ€Derived, Freeâ€Standing, Hierarchically Porous Carbon for Highâ€Capacity and Highâ€Rate Rechargeable Liâ€O₂ Batteries (Adv. Funct. Mater. 17/2012). Advanced Functional Materials, 2012, 22, 3745-3745.	7.8	2
59	High aspect ratio Î³-MnOOH nanowires for high performance rechargeable nonaqueous lithiumâ€“oxygen batteries. Chemical Communications, 2012, 48, 7598.	2.2	109
60	Î±-MnO2 hollow clews for rechargeable Li-air batteries with improved cyclability. Science Bulletin, 2012, 57, 4210-4214.	1.7	19
61	Graphene Oxide Gelâ€Derived, Freeâ€Standing, Hierarchically Porous Carbon for Highâ€Capacity and Highâ€Rate Rechargeable Liâ€O₂ Batteries. Advanced Functional Materials, 2012, 22, 3699-3705.	7.8	390
62	Novel DMSO-based electrolyte for high performance rechargeable Liâ€“O2 batteries. Chemical Communications, 2012, 48, 6948.	2.2	281
63	Effect of different rare-earth elements substitution on microstructure and microwave absorbing properties of Ba0.9RE0.1Co2Fe16O27 (RE=La, Nd, Sm) particles. Journal of Magnetism and Magnetic Materials, 2012, 324, 1209-1213.	1.0	60
64	Structural, dielectric and magnetic properties of Nd-doped Co2Z-type hexaferrites. Journal of Alloys and Compounds, 2011, 509, 4290-4294.	2.8	49
65	Influence of Sm-substitution on structure and electromagnetic properties of Ba3â^'xSmxCo2Fe24O41 powders. Journal of Magnetism and Magnetic Materials, 2011, 323, 156-161.	1.0	14
66	Preparation and application of 4-amino-4â€²-nitro azobenzene modified chitosan as a selective adsorbent for the determination of Au(III) and Pd(II). Mikrochimica Acta, 2010, 168, 99-105.	2.5	40
67	Reply to the Comments on â€œPreparation and application of 4-amino-4â€²-nitroazobenzene modified chitosan as a selective adsorbent for the determination of Au(III) and Pd(II)â€• Mikrochimica Acta, 2010, 170, 189-189.	2.5	0
68	Azeotropic distillation-assisted preparation of nanoscale gamma-alumina powder from waste oil shale ash. Chemical Engineering Journal, 2010, 157, 67-72.	6.6	13
69	Preparation of nano-sized Î±-Al2O3 from oil shale ash. Energy, 2010, 35, 45-49.	4.5	35
70	Preparation and luminescent properties of CaAl2O4:Eu3+,R+ (R=Li, Na, K) phosphors. Journal of Rare Earths, 2010, 28, 22-25.	2.5	34
71	Influence of Nd3+ substitution on the microstructure and electromagnetic properties of barium W-type hexaferrite. Journal of Alloys and Compounds, 2010, 490, 552-556.	2.8	100
72	Synthesis of ultrafine silica powders based on oil shale ash by fluidized bed drying of wet-gel slurry. Fuel, 2009, 88, 1223-1227.	3.4	17

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73	Preparation and properties of silica nanoparticles from oil shale ash. Powder Technology, 2009, 191, 47-51.	2.1	43
74	Electromagnetic and microwave absorbing properties of Co2Z-type hexaferrites doped with La3+. Journal of Magnetism and Magnetic Materials, 2009, 321, 3231-3235.	1.0	78