Jing-Fa Li

List of Publications by Year
in descending order

62 papers	3,175 citations	279798 23 h-index	149698 56 g-index
63 all docs	63 docs citations	63 times ranked	4122 citing authors

#	Article	IF	Citations
1	Hybridized S cathode with N719 dye for a photo-assisted charging Li-S battery. Journal of Energy Chemistry, 2022, 65, 205-209.	12.9	18
2	Dual-functional iodine photoelectrode enabling high performance photo-assisted rechargeable lithium iodine batteries. Journal of Materials Chemistry A, 2022, 10, 7326-7332.	10.3	15
3	Spinel LiMn2O4 Cathode Materials in Wide Voltage Window: Single-Crystalline versus Polycrystalline. Crystals, 2022, 12, 317.	2.2	10
4	An aqueous rechargeable zinc-ion battery on basis of an organic pigment. Rare Metals, 2022, 41, 2230-2236.	7.1	26
5	In situ perfusing Sb particles into porous N-doped carbon microspheres and their electrochemical properties in potassium ion batteries. Journal of Alloys and Compounds, 2022, 906, 164263.	5.5	5
6	Nanoscale interface engineering of inorganic Solid-State electrolytes for High-Performance alkali metal batteries. Journal of Colloid and Interface Science, 2022, 621, 41-66.	9.4	12
7	Elementâ€Doped Mxenes: Mechanism, Synthesis, and Applications. Small, 2022, 18, e2201740.	10.0	43
8	Catalyzing the polysulfide conversion for promoting lithium sulfur battery performances: A review. Journal of Energy Chemistry, 2021, 54, 434-451.	12.9	136
9	Theoretical investigation on interactions between lithium ions and two-dimensional halide perovskite for solar-rechargeable batteries. Applied Surface Science, 2021, 541, 148509.	6.1	14
10	Optoelectronic and <scp>photoâ€charging</scp> properties of <scp> CH ₃ NH ₃ PbI ₃ </scp> / <scp> LiFePO ₄ </scp> system. International Journal of Energy Research, 2021, 45, 6426-6435.	4.5	4
11	Stable alkali metal anodes enabled by crystallographic optimization â€“ a review. Journal of Materials Chemistry A, 2021, 9, 20957-20984.	10.3	32
12	Adsorption and diffusion of lithium ions on <scp>leadâ€free twoâ€dimensional</scp> halide perovskite surface toward energy storage applications. International Journal of Energy Research, 2021, 45, 16524-16537.	4.5	6
13	Hierarchical Microspheres Constructed by Te@Nâ€Doped Carbon for Efficient Potassium Storage. European Journal of Inorganic Chemistry, 2021, 2021, 2141-2147.	2.0	7
14	Promoting the Na+-storage of NiCo2S4 hollow nanospheres by surfacing Niâ€“B nanoflakes. Journal of Materials Science and Technology, 2021, 82, 114-121.	10.7	16
15	Porous Heteroatom-Doped Ti₃C₂T_x MXene Microspheres Enable Strong Adsorption of Sodium Polysulfides for Long-Life Room-Temperature Sodiumâ€“Sulfur Batteries. ACS Nano, 2021, 15, 16207-16217.	14.6	46
16	Construction of hierarchical yolk-shell structured Mn3O4@NC as efficient sulfur hosts for Liâ€“S batteries. Ceramics International, 2021, 48, 6470-6470.	4.8	6
17	Constructing Î±â€MnO2@PPy core-shell nanorods towards enhancing electrochemical behaviors in aqueous zinc ion battery. Materials Letters, 2020, 262, 127180.	2.6	64
18	Facilely fabricating FeSe nanoparticles embedded in N-doped carbon towards promoting sodium storage behaviors. Journal of Power Sources, 2020, 449, 227517.	7.8	36

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19	Halide Perovskite Materials for Energy Storage Applications. Advanced Functional Materials, 2020, 30, 2003653.	14.9	63
20	Photoelectrochemical and first-principles investigation on halide perovskite/TiO2 film improved by dicyano dye. Optical Materials, 2020, 109, 110350.	3.6	5
21	Investigation of germanium selenide electrodes for the integrated photoâ€rechargeable battery. International Journal of Energy Research, 2020, 44, 6015-6022.	4.5	14
22	Gammaâ€ray radiation on Pâ€doped Si nanoparticles towards the Li + â€storage performances. International Journal of Energy Research, 2020, 44, 7855-7859.	4.5	0
23	Mn3(PO4)2/rGO as dual-function polysulfide inhibitor through oxygen deficiencies and polar sites for lithium sulfur batteries. Applied Surface Science, 2020, 521, 146425.	6.1	5
24	Surface engineering Coâ€“B nanoflakes on Mn0.33Co0.67CO3 microspheres as multifunctional bridges towards facilitating Li+ storing performance. Ceramics International, 2020, 46, 19873-19879.	4.8	4
25	Engineering Naâ^'Moâ^'O/Graphene Oxide Composites with Enhanced Electrochemical Performance for Lithium Ion Batteries. ChemistryOpen, 2019, 8, 1225-1229.	1.9	2
26	Structures and Properties of Higher-Degree Aggregates of Methylammonium Iodide toward Halide Perovskite Solar Cells. Russian Journal of Physical Chemistry A, 2019, 93, 2250-2255.	0.6	1
27	A case study of Î²- and Î´-MnO2 with different crystallographic forms on ion-storage in rechargeable aqueous zinc ion battery. Electrochimica Acta, 2019, 324, 134867.	5.2	64
28	Molecular engineering lithium sulfur battery cathode based on small organic molecules: An ab-initio investigation. Applied Surface Science, 2019, 484, 1184-1190.	6.1	12
29	Ultrathin Î´-MnO2 nanosheets as cathode for aqueous rechargeable zinc ion battery. Electrochimica Acta, 2019, 304, 370-377.	5.2	207
30	Understanding structures and properties of phosphorene/perovskite heterojunction toward perovskite solar cell applications. Journal of Molecular Graphics and Modelling, 2019, 89, 96-101.	2.4	5
31	Structures and Properties of Methylammonium Iodide Precursors of Halide Perovskites and Implications for Solar Cells: an Ab-Initio Investigation. Russian Journal of Physical Chemistry A, 2019, 93, 2694-2698.	0.6	1
32	Surfacing amorphous Niâ€“B nanoflakes on NiCo₂O₄ nanospheres as multifunctional bridges for promoting lithium storage behaviors. Nanoscale, 2019, 11, 22550-22558.	5.6	20
33	Intermolecular Interactions of Hybrid Organic Dyes Based on Coumarin 343 for Optoelectronic Applications. Russian Journal of Physical Chemistry A, 2019, 93, 2542-2549.	0.6	0
34	Hierarchical Porous Carbon Derived from Peanut Hull for Polysulfide Confinement in Lithiumâ€“Sulfur Batteries. Energy Technology, 2019, 7, 1800898.	3.8	11
35	Understanding photoresponsive catechol-based polyoxotitanate molecules: A combined experimental and first principles investigation. Chemical Physics Letters, 2019, 715, 217-221.	2.6	1
36	Understanding Interactions between Lead Iodide Perovskite Surfaces and Lithium Polysulfide toward New-Generation Integrated Solar-Powered Lithium Battery: An ab Initio Investigation. Journal of Physical Chemistry C, 2019, 123, 82-90.	3.1	10

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37	Design of micro-nanostructured Mn2O3@CNTs with long cycling for lithium-ion storage. Journal of Materials Science: Materials in Electronics, 2018, 29, 4675-4682.	2.2	6
38	Theoretical investigations on crystal crosslinking in perovskite solar cells. Journal of Materials Chemistry C, 2018, 6, 234-241.	5.5	14
39	Recent Progress and Challenges of Micro-/Nanostructured Transition Metal Carbonate Anodes for Lithium Ion Batteries. European Journal of Inorganic Chemistry, 2018, 2018, 4506-4506.	2.0	0
40	General Approach to Prepare 0.33Li₂MnO₃ Â· 0.67LiNi_{1/3}Co_{1/3}Mn_{1/3}O₂ Hollow Microspheres for High Performance Lithium Ion Batteries. Journal of Nanoscience and Nanotechnology, 2018, 18, 4127-4134.	0.9	2
41	Recent Progress and Challenges of Microâ€Nanostructured Transition Metal Carbonate Anodes for Lithium Ion Batteries. European Journal of Inorganic Chemistry, 2018, 2018, 4508-4521.	2.0	23
42	Doping bismuth oxyhalides with Indium: A DFT calculations on tuning electronic and optical properties. Chemical Physics Letters, 2018, 705, 31-37.	2.6	20
43	Engineering Zn_{0.33}Co_{0.67}S Hollow Microspheres with Enhanced Electrochemical Performance for Lithium and Sodium Ion Batteries. European Journal of Inorganic Chemistry, 2018, 2018, 3036-3040.	2.0	16
44	Effect of Ni content in Ni Mn1-CO3 (xÂ= 0, 0.20, 0.25, 0.33) submicrospheres on the performances of rechargeable lithium ion batteries. Electrochimica Acta, 2018, 276, 333-342.	5.2	28
45	Combined mediator and electrochemical charging and discharging of redox targeting lithium-sulfur flow batteries. Materials Today Energy, 2017, 5, 15-21.	4.7	24
46	Microwave electromagnetic and absorption properties of SiO2/C core/shell composites plated with metal cobalt. Applied Physics A: Materials Science and Processing, 2017, 123, 1.	2.3	11
47	Terahertz investigations on photoisomerisable compounds. Molecular Physics, 2017, 115, 2486-2494.	1.7	2
48	Evaluation of Hybrid Anode Usability in Lithium Polysulfide Flow Batteries. Energy Technology, 2017, 5, 2072-2077.	3.8	2
49	Molecular Engineering of the Lead Iodide Perovskite Surface: Case Study on Molecules with Pyridyl Groups. Journal of Physical Chemistry C, 2017, 121, 24612-24617.	3.1	20
50	Construction of S@TiO₂@râ€GO Composites for Highâ€Performance Lithiumâ€“Sulfur Batteries. European Journal of Inorganic Chemistry, 2017, 2017, 3248-3252.	2.0	12
51	General synthesis of xLi₂MnO₃Â·(1 â˜) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 192 Td (x)LiNi<sub>1 microspheres towards enhancing the performance of rechargeable lithium ion batteries. Journal of Materials Chemistry A, 2016, 4, 12442-12450.	10.3	38
52	Multilayer Dye Aggregation at Dye/TiO2 Interface via Ï€â€¦Ï€ Stacking and Hydrogen Bond and Its Impact on Solar Cell Performance: A DFT Analysis. Scientific Reports, 2016, 6, 35893.	3.3	30
53	The Application of Redox Targeting Principles to the Design of Rechargeable Liâ€“S Flow Batteries. Advanced Energy Materials, 2015, 5, 1501808.	19.5	86
54	Formation of quasi-mesocrystal ZnMn₂O₄ twin microspheres via an oriented attachment for lithium-ion batteries. Journal of Materials Chemistry A, 2014, 2, 14236-14244.	10.3	89

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55	Hollow MnCo₂O₄ Submicrospheres with Multilevel Interiors: From Mesoporous Spheres to Yolk-in-Double-Shell Structures. ACS Applied Materials & Interfaces, 2014, 6, 24-30.	8.0	187
56	Simple synthesis of yolk-shelled ZnCo2O4 microspheres towards enhancing the electrochemical performance of lithium-ion batteries in conjunction with a sodium carboxymethyl cellulose binder. Journal of Materials Chemistry A, 2013, 1, 15292.	10.3	151
57	A facile route to synthesize multiporous MnCo2O4 and CoMn2O4 spinel quasi-hollow spheres with improved lithium storage properties. Nanoscale, 2013, 5, 2045.	5.6	445
58	High Electrochemical Performance of Monodisperse NiCo₂O₄ Mesoporous Microspheres as an Anode Material for Li-Ion Batteries. ACS Applied Materials & Interfaces, 2013, 5, 981-988.	8.0	709
59	Spinel Mn1.5Co1.5O4 coreâ€“shell microspheres as Li-ion battery anode materials with a long cycle life and high capacity. Journal of Materials Chemistry, 2012, 22, 23254.	6.7	140
60	Mesoporous NiO ultrathin nanowire networks topotactically transformed from Î±-Ni(OH)2 hierarchical microspheres and their superior electrochemical capacitance properties and excellent capability for water treatment. Journal of Materials Chemistry, 2012, 22, 14276.	6.7	139
61	MnCO3 Microstructures Assembled with Nanoparticles: Shape-Controlled Synthesis and Their Application for Li-Ion Batteries. Journal of Nanoscience and Nanotechnology, 2012, 12, 7334-7338.	0.9	27
62	A precursor route to synthesize mesoporous Î³-MnO2 microcrystals and their applications in lithium battery and water treatment. Journal of Alloys and Compounds, 2011, 509, 9542-9548.	5.5	33