Jingfa Li

List of Publications by Year in descending order

60 papers	3,541 citations	218677 26 h-index	133252 59 g-index
61 all docs	61 docs citations	61 times ranked	4756 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	Catalyzing the polysulfide conversion for promoting lithium sulfur battery performances: A review. Journal of Energy Chemistry, 2021, 54, 434-451.	12.9	136
4	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
5	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
6	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
7	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
8	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
9	Halide Perovskite Materials for Energy Storage Applications. Advanced Functional Materials, 2020, 30, 2003653.	14.9	63
10	Photoelectrochemical and first-principles investigation on halide perovskite/TiO2 film improved by dicyano dye. Optical Materials, 2020, 109, 110350.	3.6	5
11	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
12	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
13	Core-shell MgFe2O4@C nano-composites derived via thermal decomposition-reduction dual strategy for superior lithium storage. Journal of Alloys and Compounds, 2020, 834, 155207.	5.5	11
14	Engineering Naâ€™Moâ€™O/Graphene Oxide Composites with Enhanced Electrochemical Performance for Lithium Ion Batteries. ChemistryOpen, 2019, 8, 1225-1229.	1.9	2
15	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
16	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
17	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
18	Data mining new energy materials from structure databases. Renewable and Sustainable Energy Reviews, 2019, 107, 554-567.	16.4	38

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19	Ultrathin Î´-MnO2 nanosheets as cathode for aqueous rechargeable zinc ion battery. Electrochimica Acta, 2019, 304, 370-377.	5.2	207
20	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
21	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
22	Surfacing amorphous Niâ€“B nanoflakes on NiCo₂O₄ nanospheres as multifunctional bridges for promoting lithium storage behaviors. Nanoscale, 2019, 11, 22550-22558.	5.6	20
23	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
24	Hierarchical Porous Carbon Derived from Peanut Hull for Polysulfide Confinement in Lithiumâ€“Sulfur Batteries. Energy Technology, 2019, 7, 1800898.	3.8	11
25	Experimental and first principles investigations on the photoisomerization and electrochemical properties of chlorophosphonazo III. Journal of Molecular Structure, 2019, 1180, 151-157.	3.6	2
26	Understanding photoresponsive catechol-based polyoxotitanate molecules: A combined experimental and first principles investigation. Chemical Physics Letters, 2019, 715, 217-221.	2.6	1
27	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
28	Controlling directions of electron flow by light: A case study on TiO2 film with azo dyes. Dyes and Pigments, 2019, 161, 277-282.	3.7	5
29	Adsorption of molecular additive onto lead halide perovskite surfaces: A computational study on Lewis base thiophene additive passivation. Applied Surface Science, 2018, 443, 176-183.	6.1	43
30	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
31	Interactions between molecules and perovskites in halide perovskite solar cells. Solar Energy Materials and Solar Cells, 2018, 175, 1-19.	6.2	66
32	Theoretical investigations on crystal crosslinking in perovskite solar cells. Journal of Materials Chemistry C, 2018, 6, 234-241.	5.5	14
33	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
34	Understanding interactions between halide perovskite surfaces and atmospheric/VOC gas molecules: an ab initio investigation. Journal Physics D: Applied Physics, 2018, 51, 315302.	2.8	23
35	Double-edged sword effects of cation rotation and additive passivation on perovskite solar cell performance: an ab initio investigation. Solar Energy Materials and Solar Cells, 2018, 186, 349-355.	6.2	29
36	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

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37	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
38	Combined mediator and electrochemical charging and discharging of redox targeting lithium-sulfur flow batteries. Materials Today Energy, 2017, 5, 15-21.	4.7	24
39	Terahertz investigations on photoisomerisable compounds. Molecular Physics, 2017, 115, 2486-2494.	1.7	2
40	Evaluation of Hybrid Anode Usability in Lithium Polysulfide Flow Batteries. Energy Technology, 2017, 5, 2072-2077.	3.8	2
41	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
42	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
43	First-Principles Study of Molecular Adsorption on Lead Iodide Perovskite Surface: A Case Study of Halogen Bond Passivation for Solar Cell Application. Journal of Physical Chemistry C, 2016, 120, 23536-23541.	3.1	37
44	Three-dimensional Fe3O4/carbonaceous matrix with long-life performance for high-rate lithium ion batteries. Journal of Alloys and Compounds, 2016, 688, 605-610.	5.5	39
45	General synthesis of xLi₂MnO₃Â·(1 â^' Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 432 Td (x)LiNi_{1/3} microspheres towards enhancing the performance of rechargeable lithium ion batteries. Journal of Materials Chemistry A, 2016, 4, 12442-12450.	10.3	38
46	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
47	The Application of Redox Targeting Principles to the Design of Rechargeable Liâ€“S Flow Batteries. Advanced Energy Materials, 2015, 5, 1501808.	19.5	86
48	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
49	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
50	Uniform LiNi1/3Co1/3Mn1/3O2 hollow microspheres: Designed synthesis, topotactical structural transformation and their enhanced electrochemical performance. Nano Energy, 2013, 2, 1249-1260.	16.0	180
51	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
52	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
53	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
54	MnO@Carbon Coreâ€“Shell Nanowires as Stable Highâ€Performance Anodes for Lithiumâ€Ion Batteries. Chemistry - A European Journal, 2013, 19, 11310-11319.	3.3	111

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55	Solvothermal Synthesis of 3D BiOCl Microstructures and Their Electrochemical Hydrogen Storage Behavior. Journal of Nanoscience and Nanotechnology, 2012, 12, 2068-2075.	0.9	6
56	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
57	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
58	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
59	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
60	Cadmium sulfide rod-bundle structures decorated with nanoparticles from an inorganic/organic composite. Journal of Nanoparticle Research, 2011, 13, 3535-3543.	1.9	4