

Xiaobing Lou

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45
papers

1,646
citations

24
h-index

40
g-index

45
ext. papers

2,013
ext. citations

7.1
avg, IF

4.84
L-index

#	Paper	IF	Citations
45	Mesoporous nanostructured Co ₃ O ₄ derived from MOF template: a high-performance anode material for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 5585-5591	13	210
44	High Anodic Performance of Co 1,3,5-Benzenetricarboxylate Coordination Polymers for Li-Ion Battery. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 15352-60	9.5	135
43	Ultrathin Manganese-Based Metal-Organic Framework Nanosheets: Low-Cost and Energy-Dense Lithium Storage Anodes with the Coexistence of Metal and Ligand Redox Activities. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 29829-29838	9.5	90
42	Cobalt-based metal organic framework with superior lithium anodic performance. <i>Journal of Solid State Chemistry</i> , 2016 , 242, 71-76	3.3	86
41	The organic-moiety-dominated Li ⁺ intercalation/deintercalation mechanism of a cobalt-based metal-organic framework. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 16245-16251	13	83
40	Custom-Made Ceria Nanoparticles Show a Neuroprotective Effect by Modulating Phenotypic Polarization of the Microglia. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 5808-5812	16.4	72
39	Synthesis of a cationic water-soluble pillar[6]arene and its effective complexation towards naphthalenesulfonate guests. <i>Chemical Communications</i> , 2013 , 49, 7956-8	5.8	71
38	A thermally activated manganese 1,4-benzenedicarboxylate metal organic framework with high anodic capability for Li-ion batteries. <i>New Journal of Chemistry</i> , 2016 , 40, 9746-9752	3.6	64
37	Hierarchical CuO octahedra inherited from copper metal-organic frameworks: high-rate and high-capacity lithium-ion storage materials stimulated by pseudocapacitance. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 12828-12837	13	61
36	Bimetallic coordination polymer as a promising anode material for lithium-ion batteries. <i>Chemical Communications</i> , 2016 , 52, 2035-8	5.8	57
35	Ultrathin Cobalt-Based Metal-Organic Framework Nanosheets with Both Metal and Ligand Redox Activities for Superior Lithium Storage. <i>Chemistry - A European Journal</i> , 2017 , 23, 15984-15990	4.8	55
34	Facile synthesis of the Basolite F300-like nanoscale Fe-BTC framework and its lithium storage properties. <i>RSC Advances</i> , 2016 , 6, 114483-114490	3.7	48
33	Pillared-Layer Metal-Organic Frameworks for Improved Lithium-Ion Storage Performance. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 21839-21847	9.5	47
32	Green and Rational Design of 3D Layer-by-Layer MnO Hierarchically Mesoporous Microcuboids from MOF Templates for High-Rate and Long-Life Li-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 14684-14697	9.5	41
31	Carbon-coated Li ₃ V ₂ (PO ₄) ₃ derived from metal-organic framework as cathode for lithium-ion batteries with high stability. <i>Electrochimica Acta</i> , 2018 , 271, 608-616	6.7	40
30	Remarkable improvement in the lithium storage property of Co ₂ (OH) ₂ BDC MOF by covalent stitching to graphene and the redox chemistry boosted by delocalized electron spins. <i>Chemical Engineering Journal</i> , 2017 , 326, 1000-1008	14.7	33
29	Reversible lithium storage in manganese and cobalt 1,2,4,5-benzenetetracarboxylate metal-organic framework with high capacity. <i>RSC Advances</i> , 2016 , 6, 61319-61324	3.7	33

28	A novel coordination polymer based on Co(ii) hexanuclear clusters with azide and carboxylate bridges: structure, magnetism and its application as a Li-ion battery anode. <i>Dalton Transactions</i> , 2016 , 45, 19109-19116	4.3	30
27	Bimetallic zeolite imidazolate framework for enhanced lithium storage boosted by the redox participation of nitrogen atoms. <i>Science China Materials</i> , 2018 , 61, 1040-1048	7.1	27
26	Exploring the Capacity Limit: A Layered Hexacarboxylate-Based Metal-Organic Framework for Advanced Lithium Storage. <i>Inorganic Chemistry</i> , 2018 , 57, 3126-3132	5.1	26
25	High-energy nanostructured Na ₃ V ₂ (PO ₄) ₂ O _{1.6} F _{1.4} cathodes for sodium-ion batteries and a new insight into their redox chemistry. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 8340-8348	13	26
24	Capacity control of ferric coordination polymers by zinc nitrate for lithium-ion batteries. <i>RSC Advances</i> , 2016 , 6, 86126-86130	3.7	26
23	Highly reversible lithium storage in cobalt 2,5-dioxido-1,4-benzenedicarboxylate metal-organic frameworks boosted by pseudocapacitance. <i>Journal of Colloid and Interface Science</i> , 2017 , 506, 365-372	9.3	24
22	Unraveling the Redox Couples of VIII/VIV Mixed-Valent Na ₃ V ₂ (PO ₄) ₂ O _{1.6} F _{1.4} Cathode by Parallel-Mode EPR and In Situ/Ex Situ NMR. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 27224-27232	3.8	24
21	High-capacity cobalt-based coordination polymer nanorods and their redox chemistry triggered by delocalization of electron spins. <i>Energy Storage Materials</i> , 2017 , 7, 195-202	19.4	23
20	Room-temperature synthesis of a cobalt 2,3,5,6-tetrafluoroterephthalic coordination polymer with enhanced capacity and cycling stability for lithium batteries. <i>New Journal of Chemistry</i> , 2017 , 41, 1813-1819	3.6	22
19	A rings-in-pores net: crown ether-based covalent organic frameworks for phase-transfer catalysis. <i>Chemical Communications</i> , 2020 , 56, 595-598	5.8	22
18	Reversible phase transition enabled by binary Ba and Ti-based surface modification for high voltage LiCoO ₂ cathode. <i>Journal of Power Sources</i> , 2019 , 438, 226954	8.9	20
17	One-Pot Synthesis of Co-Based Coordination Polymer Nanowire for Li-Ion Batteries with Great Capacity and Stable Cycling Stability. <i>Nano-Micro Letters</i> , 2018 , 10, 19	19.5	17
16	Mitigating voltage decay in high-capacity Li _{1.2} Ni _{0.2} Mn _{0.6} O ₂ cathode material by surface K ⁺ doping. <i>Electrochimica Acta</i> , 2018 , 291, 278-286	6.7	16
15	Unveiling the benefits of potassium doping on the structural integrity of Li-Mn-rich layered oxides during prolonged cycling by dual-mode EPR spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 24017-24025	3.6	13
14	Mesoporous cobalt 2,5-thiophenedicarboxylic coordination polymer for high performance Na-ion batteries. <i>Materials Letters</i> , 2017 , 197, 245-248	3.3	12
13	Amorphization and disordering of metal-organic framework materials for rechargeable batteries by thermal treatment. <i>New Journal of Chemistry</i> , 2017 , 41, 6415-6419	3.6	12
12	Complexation of Linear Aliphatic Ester, Aldehyde and Ketone Guests by Per-ethylated Pillar[5]arene. <i>Chinese Journal of Chemistry</i> , 2015 , 33, 335-338	4.9	11
11	Reversible High-Voltage N-Redox Chemistry in Metal-Organic Frameworks for High-Rate Anion-Intercalation Batteries. <i>ACS Applied Energy Materials</i> , 2019 , 2, 413-419	6.1	11

10	A comprehensive study on the generation of reactive oxygen species in Cu-AC catalyzed redox processes. <i>Free Radical Biology and Medicine</i> , 2019 , 135, 125-131	7.8	10
9	Custom-Made Ceria Nanoparticles Show a Neuroprotective Effect by Modulating Phenotypic Polarization of the Microglia. <i>Angewandte Chemie</i> , 2018 , 130, 5910-5914	3.6	10
8	Controlled synthesis of $\text{Co}_x\text{Mn}_{3-x}\text{O}_4$ nanoparticles with a tunable composition and size for high performance lithium-ion batteries. <i>RSC Advances</i> , 2016 , 6, 54270-54276	3.7	10
7	Reduction of the C cross-polarization experimental time for pharmaceutical samples with long T by ball milling in solid-state NMR. <i>Solid State Nuclear Magnetic Resonance</i> , 2018 , 94, 20-25	3.1	6
6	Self-assembled 3D $\text{Ni}_x\text{Co}_{3-x}\text{O}_4$ pseudocube superstructure as potential anode material for Li-Ion batteries. <i>Journal of Alloys and Compounds</i> , 2020 , 814, 152319	5.7	5
5	Retarding Phase Transformation During Cycling in a Lithium- and Manganese-Rich Cathode Material by Optimizing Synthesis Conditions. <i>ChemElectroChem</i> , 2019 , 6, 1385-1392	4.3	5
4	Low-temperature pseudomorphic transformation of polyhedral MIL-88A to lithium ferrite (LiFeO) in aqueous LiOH medium toward high Li storage. <i>Nanoscale</i> , 2019 , 11, 11892-11901	7.7	4
3	The effect of nitrogen and oxygen coordination: toward a stable anode for reversible lithium storage. <i>New Journal of Chemistry</i> , 2018 , 42, 15698-15704	3.6	4
2	Centrifugal Field Guided Dual Templating Synthesis of Functional Macro-Microporous Carbon. <i>Particle and Particle Systems Characterization</i> , 2018 , 35, 1800262	3.1	3
1	A green ligand-based copper-organic framework: a high-capacity lithium storage material and insight into its abnormal capacity-increase behavior. <i>New Journal of Chemistry</i> , 2020 , 44, 17899-17905	3.6	1