Bingkun Guo

List of Publications by Year in Descending Order

83 papers	5,113 citations	36 h-index	71 g-index
90 ext. papers	5,961 ext. citations	10.6 avg, IF	5.63 L-index

#	Paper	IF	Citations
83	Fabricating a thin gradient surface layer to enhance the cycle stability of Ni-rich cathode materials. *Journal of Alloys and Compounds*, **2022**, 893, 162162	5.7	1
82	In-situ constructing a rigid and stable dual-layer CEI film improving high-voltage 4.6 V LiCoO2 performances. *Nano Energy*, **2022**, 96, 107082	17.1	1
81	Enhanced Electrochemical Performance of Ni-Rich Cathodes by Neutralizing Residual Lithium with Acid Compounds. *ACS Applied Materials & Interfaces*, **2021**, 13, 55072-55079	9.5	1
80	Improving the Durability of Lithium-Metal Anode via In situ Constructed Multilayer SEI. *ACS Applied Materials & Interfaces*, **2021**, 13, 49445-49452	9.5	2
79	Addressing Unfavorable Influence of Particle Cracking with a Strengthened Shell Layer in Ni-Rich Cathodes. *ACS Applied Materials & Interfaces*, **2021**, 13, 18954-18960	9.5	3
78	Achieving Stable Cycling of LiCoO2 at 4.6 V by Multilayer Surface Modification. *Advanced Functional Materials*, **2021**, 31, 2001974	15.6	33
77	An Overview on the Advances of LiCoO2 Cathodes for Lithium-Ion Batteries. *Advanced Energy Materials*, **2021**, 11, 2000982	21.8	123
76	Iridium Doping Boosting the Electrochemical Performance of Lithium-Rich Cathodes for Li-Ion Batteries. *ACS Applied Energy Materials*, **2021**, 4, 2489-2495	6.1	7
75	A Hybrid Ionic and Electronic Conductive Coating Layer for Enhanced Electrochemical Performance of 4.6 V LiCoO. *ACS Applied Materials & Interfaces*, **2021**, 13, 42917-42926	9.5	2
74	A vacancy-free sodium manganese hexacyanoferrate as cathode for sodium-ion battery by high-salt-concentration preparation. *Journal of Alloys and Compounds*, **2021**, 887, 161388	5.7	1
73	Core-Shell C@Sb Nanoparticles as a Nucleation Layer for High-Performance Sodium Metal Anodes. *Nano Letters*, **2020**, 20, 4464-4471	11.5	34
72	Study on the effect of Ni and Mn doping on the structural evolution of LiCoO2 under 4.6 V high-voltage cycling. *Journal of Alloys and Compounds*, **2020**, 842, 155827	5.7	14
71	Amide-Based Interface Layer with High Toughness In Situ Building on the Li Metal Anode. *ACS Applied Materials & Interfaces*, **2020**, 12, 25826-25831	9.5	3
70	Dense PVDF-type polymer-in-ceramic electrolytes for solid state lithium batteries.. *RSC Advances*, **2020**, 10, 22417-22421	3.7	2
69	One-Step Integrated Comodification to Improve the Electrochemical Performances of High-Voltage LiCoO2 for Lithium-Ion Batteries. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 9346-9355	8.3	9
68	Narrowing Working Voltage Window to Improve Layered GeP Anode Cycling Performance for Lithium-Ion Batteries. *ACS Applied Materials & Interfaces*, **2020**, 12, 17466-17473	9.5	18
67	Enhanced Surface Chemical and Structural Stability of Ni-Rich Cathode Materials by Synchronous Lithium-Ion Conductor Coating for Lithium-Ion Batteries. *ACS Applied Materials & Interfaces*, **2020**, 12, 13813-13823	9.5	47

66	Dendrite-Free Sodium Metal Anodes Enabled by a Sodium Benzenedithiolate-Rich Protection Layer. *Angewandte Chemie - International Edition*, **2020**, 59, 6596-6600	16.4	43
65	Mobile Ions in Composite Solids. *Chemical Reviews*, **2020**, 120, 4169-4221	68.1	105
64	Hard carbon micro-nano tubes derived from kapok fiber as anode materials for sodium-ion batteries and the sodium-ion storage mechanism. *Chemical Communications*, **2020**, 56, 778-781	5.8	30
63	Copper sulfide nanostructures and their sodium storage properties. *CrystEngComm*, **2020**, 22, 7082-7089	3.3	6
62	Mechanical Robustness Two-Dimensional Silicon Phosphide Flake Anodes for Lithium Ion Batteries. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 17597-17605	8.3	5
61	A polycarboxylic/ether composite polymer electrolyte via UV-curing for all-solid-state lithium battery. *Royal Society Open Science*, **2020**, 7, 200598	3.3	
60	Enhanced cycling stability of high voltage LiCoO2 by surface phosphorylation. *Journal of Alloys and Compounds*, **2019**, 803, 348-353	5.7	10
59	Sodium storage mechanism and electrochemical performance of layered GeP as anode for sodium ion batteries. *Journal of Power Sources*, **2019**, 433, 126682	8.9	29
58	High Conductive Composite Polymer Electrolyte via in Situ UV-Curing for All-Solid-State Lithium Ion Batteries. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 9875-9880	8.3	13
57	In situ TEM and half cell investigation of sodium storage in hexagonal FeSe nanoparticles. *Chemical Communications*, **2019**, 55, 5611-5614	5.8	17
56	Recent advances in high energy-density cathode materials for sodium-ion batteries. *Sustainable Materials and Technologies*, **2019**, 21, e00098	5.3	26
55	Porous scaffold of TiO2 for dendrite-free lithium metal anode. *Journal of Alloys and Compounds*, **2019**, 791, 364-370	5.7	15
54	Real-Time TEM Study of Nanopore Evolution in Battery Materials and Their Suppression for Enhanced Cycling Performance. *Nano Letters*, **2019**, 19, 3074-3082	11.5	18
53	Simplifying the Electrolyte Systems with the Functional Cosolvent. *ACS Applied Materials & Interfaces*, **2019**, 11, 27854-27861	9.5	6
52	The synergistic effect of carbon coating and CNTs compositing on the hard carbon anode for sodium ion batteries.. *RSC Advances*, **2019**, 9, 21667-21670	3.7	1
51	Stable lithium metal anodes enabled by inorganic/organic double-layered alloy and polymer coating. *Journal of Materials Chemistry A*, **2019**, 7, 25369-25376	13	16
50	Al2O3 coated Li1.2Ni0.2Mn0.2Ru0.4O2 as cathode material for Li-ion batteries. *Journal of Alloys and Compounds*, **2018**, 741, 398-403	5.7	19
49	Nanofiber membrane supported lung-on-a-chip microdevice for anti-cancer drug testing. *Lab on A Chip*, **2018**, 18, 486-495	7.2	110

48	Electrochemical and in-situ X-ray diffraction studies of Na1.2Ni0.2Mn0.2Ru0.4O2 as a cathode material for sodium-ion batteries. *Electrochemistry Communications*, **2018**, 87, 71-75	5.1	21
47	Isophorone Diisocyanate: An Effective Additive to Form Cathode-Protective-Interlayer and Its Influence on LiNiCoMnO at High Potential. *ACS Applied Materials & Interfaces*, **2018**, 10, 11305-11310	8.5	9
46	Forming a Stable CEI Layer on LiNi0.5Mn1.5O4Cathode by the Synergy Effect of FEC and HDI. *Journal of the Electrochemical Society*, **2018**, 165, A2032-A2036	3.9	16
45	Improved Electrochemical Performances of LiCoO at Elevated Voltage and Temperature with an In Situ Formed Spinel Coating Layer. *ACS Applied Materials & Interfaces*, **2018**, 10, 31271-31279	9.5	40
44	Cracks Formation in Lithium-Rich Cathode Materials for Lithium-Ion Batteries during the Electrochemical Process. *Energies*, **2018**, 11, 2712	3.1	7
43	Systematic investigation of the Binder's role in the electrochemical performance of tin sulfide electrodes in SIBs. *Journal of Power Sources*, **2018**, 401, 195-203	8.9	16
42	Silica-polydopamine core-shell self-confined templates for ultra-stable hollow Pt anchored N-doped carbon electrocatalysts. *Dalton Transactions*, **2017**, 46, 16419-16425	4.3	13
41	Influence of HDI as a cathode film-forming additive on the performance of LiFe0.2Mn0.8PO4/C cathode. *RSC Advances*, **2017**, 7, 41970-41972	3.7	4
40	Observing Framework Expansion of Ordered Mesoporous Hard Carbon Anodes with Ionic Liquid Electrolytes via in Situ Small-Angle Neutron Scattering. *ACS Energy Letters*, **2017**, 2, 1698-1704	20.1	14
39	Low-Cost Higher Loading of a Sulfur Cathode. *Advanced Energy Materials*, **2016**, 6, 1502059	21.8	83
38	A stable fluorinated and alkylated lithium malonatoborate salt for lithium ion battery application. *Chemical Communications*, **2015**, 51, 9817-20	5.8	18
37	A Composite Gel-Polymer/Glass-Fiber Electrolyte for Sodium-Ion Batteries. *Advanced Energy Materials*, **2015**, 5, 1402235	21.8	114
36	Superior Conductive Solid-like Electrolytes: Nanoconfining Liquids within the Hollow Structures. *Nano Letters*, **2015**, 15, 3398-402	11.5	104
35	A POM-Organic framework anode for Li-ion battery. *Journal of Materials Chemistry A*, **2015**, 3, 22989-22995	13	48
34	Synergistic effects of mixing sulfone and ionic liquid as safe electrolytes for lithium sulfur batteries. *ChemSusChem*, **2015**, 8, 353-60	8.3	24
33	Removal of interstitial H2O in hexacyanometallates for a superior cathode of a sodium-ion battery. *Journal of the American Chemical Society*, **2015**, 137, 2658-64	16.4	458
32	Mesoporous Prussian blue analogues: template-free synthesis and sodium-ion battery applications. *Angewandte Chemie - International Edition*, **2014**, 53, 3134-7	16.4	196
31	High performance Cr, N-codoped mesoporous TiO2 microspheres for lithium-ion batteries. *Journal of Materials Chemistry A*, **2014**, 2, 1818-1824	13	54

30	Bis(fluoromalonato)borate (BFMB) anion based ionic liquid as an additive for lithium-ion battery electrolytes. *Journal of Materials Chemistry A*, **2014**, 2, 7606-7614	13	25
29	Highly soluble alkoxide magnesium salts for rechargeable magnesium batteries. *Journal of Materials Chemistry A*, **2014**, 2, 581-584	13	55
28	Low-Cost, Dendrite-Blocking Polymer-Sb2O3Separators for Lithium and Sodium Batteries. *Journal of the Electrochemical Society*, **2014**, 161, A1655-A1661	3.9	42
27	A long-life lithium-ion battery with a highly porous TiNb2O7 anode for large-scale electrical energy storage. *Energy and Environmental Science*, **2014**, 7, 2220-2226	35.4	257
26	Ambient lithium-SO2 batteries with ionic liquids as electrolytes. *Angewandte Chemie - International Edition*, **2014**, 53, 2099-103	16.4	57
25	Ambient Lithium–SO2 Batteries with Ionic Liquids as Electrolytes. *Angewandte Chemie*, **2014**, 126, 2131-2135	3.6	18
24	Synthesis and Characterization of Lithium Bis(fluoromalonato)borate for Lithium-Ion Battery Applications. *Advanced Energy Materials*, **2014**, 4, 1301368	21.8	37
23	Polypyrrole–NiO composite as high-performance lithium storage material. *Electrochimica Acta*, **2013**, 105, 162-169	6.7	38
22	Bicyclic imidazolium ionic liquids as potential electrolytes for rechargeable lithium ion batteries. *Journal of Power Sources*, **2013**, 237, 5-12	8.9	34
21	Fluorination of 'brick and mortar' soft-templated graphitic ordered mesoporous carbons for high power lithium-ion battery. *Journal of Materials Chemistry A*, **2013**, 1, 9414	13	18
20	Controlled synthesis of mesoporous carbon nanostructures via a "silica-assisted" strategy. *Nano Letters*, **2013**, 13, 207-12	11.5	218
19	Nitrogen-Enriched Carbons from Alkali Salts with High Coulombic Efficiency for Energy Storage Applications. *Advanced Energy Materials*, **2013**, 3, 708-712	21.8	48
18	Highly dispersed sulfur in a porous aromatic framework as a cathode for lithium-sulfur batteries. *Chemical Communications*, **2013**, 49, 4905-7	5.8	99
17	Fast, reversible lithium storage with a sulfur/long-chain-polysulfide redox couple. *Chemistry - A European Journal*, **2013**, 19, 8621-6	4.8	53
16	Electrochemical and Solid-State Lithiation of Graphitic C3N4. *Chemistry of Materials*, **2013**, 25, 503-508	9.6	112
15	Mesoporous carbon–Cr2O3 composite as an anode material for lithium ion batteries. *Journal of Power Sources*, **2012**, 205, 495-499	8.9	55
14	Synthesis and Lithium Storage Mechanism of Ultrafine MoO2 Nanorods. *Chemistry of Materials*, **2012**, 24, 457-463	9.6	201
13	Enhanced Li storage performance of ordered mesoporous MoO2 via tungsten doping. *Nanoscale*, **2012**, 4, 1541-4	7.7	57

12	Fe2O3 nanoparticle-loaded carbon nanofibers as stable and high-capacity anodes for rechargeable lithium-ion batteries. *ACS Applied Materials & Interfaces*, **2012**, 4, 2672-9	9.5	181
11	Low-Temperature Fluorination of Soft-Templated Mesoporous Carbons for a High-Power Lithium/Carbon Fluoride Battery. *Chemistry of Materials*, **2011**, 23, 4420-4427	9.6	76
10	Polypyrrole-iron-oxygen coordination complex as high performance lithium storage material. *Energy and Environmental Science*, **2011**, 4, 3442	35.4	56
9	Electrospun Li4Ti5O12/C composites for lithium-ion batteries with high rate performance. *Solid State Ionics*, **2011**, 204-205, 61-65	3.3	41
8	Atmospheric plasma treatment of pre-electrospinning polymer solution: A feasible method to improve electrospinnability. *Journal of Polymer Science, Part B: Polymer Physics*, **2011**, 49, 115-122	2.6	29
7	Soft-templated mesoporous carbon-carbon nanotube composites for high performance lithium-ion batteries. *Advanced Materials*, **2011**, 23, 4661-6	24	312
6	Electrochemically fabricated polypyrrole-cobalt-oxygen coordination complex as high-performance lithium-storage materials. *Chemistry - A European Journal*, **2011**, 17, 14878-84	4.8	38
5	Assembly of carbon-SnO2 core-sheath composite nanofibers for superior lithium storage. *Chemistry - A European Journal*, **2010**, 16, 11543-8	4.8	73
4	Ordered mesoporous metallic MoO2 materials with highly reversible lithium storage capacity. *Nano Letters*, **2009**, 9, 4215-20	11.5	590
3	Electrochemical reduction of nano-SiO2 in hard carbon as anode material for lithium ion batteries. *Electrochemistry Communications*, **2008**, 10, 1876-1878	5.1	260
2	Compatibility of Co[sub 3]O[sub 4] with Commercial Electrolyte. *Electrochemical and Solid-State Letters*, **2007**, 10, A118		14
1	Understanding the Structural Evolution and Storage Mechanism of NASICON-Structure Mg0.5Ti2(PO4)3 for Li-Ion and Na-Ion Batteries. *ACS Sustainable Chemistry and Engineering*,	8.3	2