

Leigang Xue

List of Publications by Year in descending order

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papers

5,817
citations

94381

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53
docs citations

53
times ranked

6626
citing authors

#	ARTICLE	IF	CITATIONS
1	Ambient-Temperature All-Solid-State Sodium Batteries with a Laminated Composite Electrolyte. <i>Advanced Functional Materials</i> , 2021, 31, 2002144.	7.8	63
2	Hexacyanoferrate-Type Prussian Blue Analogs: Principles and Advances Toward High-Performance Sodium and Potassium Ion Batteries. <i>Advanced Energy Materials</i> , 2021, 11, 2000943.	10.2	217
3	All-Solid-State Sodium Batteries with a Polyethylene Glycol Diacrylate- $\text{Na}_3\text{Zr}_2\text{Si}_2\text{PO}_{12}$ Composite Electrolyte. <i>Advanced Energy and Sustainability Research</i> , 2021, 2, 2000061.	2.8	19
4	Room-Temperature All-Liquid-Metal Batteries Based on Fusible Alloys with Regulated Interfacial Chemistry and Wetting. <i>Advanced Materials</i> , 2020, 32, e2002577.	11.1	102
5	Size-, Water-, and Defect-Regulated Potassium Manganese Hexacyanoferrate with Superior Cycling Stability and Rate Capability for Low-Cost Sodium-Ion Batteries. <i>Small</i> , 2019, 15, e1902420.	5.2	82
6	A Liquid-Metal-Enabled Versatile Organic Alkali-Ion Battery. <i>Advanced Materials</i> , 2019, 31, e1806956.	11.1	99
7	A High-Performance All-Solid-State Sodium Battery with a Poly(ethylene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 507 Td (oxide) 1, 132-138.		81
8	Garnet Electrolyte with an Ultralow Interfacial Resistance for Li-Metal Batteries. <i>Journal of the American Chemical Society</i> , 2018, 140, 6448-6455.	6.6	427
9	A High-Energy-Density Potassium Battery with a Polymer-Gel Electrolyte and a Polyaniline Cathode. <i>Angewandte Chemie</i> , 2018, 130, 5547-5551.	1.6	47
10	Stabilizing a High-Energy-Density Rechargeable Sodium Battery with a Solid Electrolyte. <i>CheM</i> , 2018, 4, 833-844.	5.8	195
11	Cathode Dependence of Liquid-Alloy Na-K Anodes. <i>Journal of the American Chemical Society</i> , 2018, 140, 3292-3298.	6.6	95
12	A High-Energy-Density Potassium Battery with a Polymer-Gel Electrolyte and a Polyaniline Cathode. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 5449-5453.	7.2	205
13	$\text{Na}_3\text{MnZr}(\text{PO}_4)_3$: A High-Voltage Cathode for Sodium Batteries. <i>Journal of the American Chemical Society</i> , 2018, 140, 18192-18199.	6.6	195
14	A Self-Healing Room-Temperature Liquid-Metal Anode for Alkali-Ion Batteries. <i>Advanced Functional Materials</i> , 2018, 28, 1804649.	7.8	147
15	Room-Temperature Liquid Na-K Anode Membranes. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 14184-14187.	7.2	73
16	Room-Temperature Liquid Na-K Anode Membranes. <i>Angewandte Chemie</i> , 2018, 130, 14380-14383.	1.6	15
17	A Perovskite Electrolyte That Is Stable in Moist Air for Lithium-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 8587-8591.	7.2	103
18	A Perovskite Electrolyte That Is Stable in Moist Air for Lithium-Ion Batteries. <i>Angewandte Chemie</i> , 2018, 130, 8723-8727.	1.6	7

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19	Low-Cost High-Energy Potassium Cathode. <i>Journal of the American Chemical Society</i> , 2017, 139, 2164-2167.	6.6	446
20	An Inverse Aluminum Battery: Putting the Aluminum as the Cathode. <i>ACS Energy Letters</i> , 2017, 2, 1534-1538.	8.8	19
21	The electrochemical performance of SnSb/C nanofibers with different morphologies and underlying mechanism. <i>Journal of Materials Research</i> , 2017, 32, 1184-1193.	1.2	7
22	Hybrid Polymer/Garnet Electrolyte with a Small Interfacial Resistance for Lithium-ion Batteries. <i>Angewandte Chemie</i> , 2017, 129, 771-774.	1.6	72
23	Hybrid Polymer/Garnet Electrolyte with a Small Interfacial Resistance for Lithium-ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 753-756.	7.2	449
24	Graphene Sandwiched by Sulfur-Confined Mesoporous Carbon Nanosheets: A Kinetically Stable Cathode for Li-S Batteries. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 33704-33711.	4.0	56
25	Liquid Na Alloy Anode Enables Dendrite-Free Potassium Batteries. <i>Advanced Materials</i> , 2016, 28, 9608-9612.	11.1	235
26	Na _x MV(PO ₄) ₃ (M = Mn, Fe, Ni) Structure and Properties for Sodium Extraction. <i>Nano Letters</i> , 2016, 16, 7836-7841.	4.5	229
27	Mastering the interface for advanced all-solid-state lithium rechargeable batteries. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 13313-13317.	3.3	237
28	Use of a tin antimony alloy-filled porous carbon nanofiber composite as an anode in sodium-ion batteries. <i>RSC Advances</i> , 2015, 5, 30793-30800.	1.7	70
29	Ionic Liquid Redox Catholyte for High Energy Efficiency, Low-Cost Energy Storage. <i>Advanced Energy Materials</i> , 2015, 5, 1500271.	10.2	27
30	Sulfone-carbonate ternary electrolyte with further increased capacity retention and burn resistance for high voltage lithium ion batteries. <i>Journal of Power Sources</i> , 2015, 295, 190-196.	4.0	22
31	Coaxial electrospun Si/C core-shell composite nanofibers as binder-free anodes for lithium-ion batteries. <i>Solid State Ionics</i> , 2014, 258, 67-73.	1.3	37
32	The effects of electrospinning parameters on coaxial Sn/C nanofibers: Morphology and lithium storage performance. <i>Electrochimica Acta</i> , 2014, 121, 345-351.	2.6	53
33	Tuning electrochemical performance of Si-based anodes for lithium-ion batteries by employing atomic layer deposition alumina coating. <i>Journal of Materials Chemistry A</i> , 2014, 2, 11417-11425.	5.2	43
34	Comparison of Si/C, Ge/C and Sn/C composite nanofiber anodes used in advanced lithium-ion batteries. <i>Solid State Ionics</i> , 2014, 254, 17-26.	1.3	44
35	Enhanced performance of sulfone-based electrolytes at lithium ion battery electrodes, including the LiNi _{0.5} Mn _{1.5} O ₄ high voltage cathode. <i>Journal of Power Sources</i> , 2014, 262, 123-128.	4.0	63
36	Preparation and characterization of carbon-coated NaVPO ₄ F as cathode material for rechargeable sodium-ion batteries. <i>Journal of Power Sources</i> , 2014, 247, 770-777.	4.0	131

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37	Aligned Carbon Nanotube/Silicon Sheets: A Novel Nano-architecture for Flexible Lithium Ion Battery Electrodes. <i>Advanced Materials</i> , 2013, 25, 5109-5114.	11.1	232
38	Synthesis and characterization of $x\text{Li}_2\text{MnO}_3 \cdot (1-x)\text{LiMn}_{1/3}\text{Ni}_{1/3}\text{Co}_{1/3}\text{O}_2$ composite cathode materials for rechargeable lithium-ion batteries. <i>Journal of Power Sources</i> , 2013, 241, 522-528.	4.0	62
39	A simple method to encapsulate SnSb nanoparticles into hollow carbon nanofibers with superior lithium-ion storage capability. <i>Journal of Materials Chemistry A</i> , 2013, 1, 13807.	5.2	56
40	Effect of CVD carbon coatings on Si@CNF composite as anode for lithium-ion batteries. <i>Nano Energy</i> , 2013, 2, 976-986.	8.2	129
41	Si/C composite nanofibers with stable electric conductive network for use as durable lithium-ion battery anode. <i>Nano Energy</i> , 2013, 2, 361-367.	8.2	84
42	Synthesis and properties of Li_2MnO_3 -based cathode materials for lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2013, 577, 560-563.	2.8	15
43	Improvement of cyclability of silicon-containing carbon nanofiber anodes for lithium-ion batteries by employing succinic anhydride as an electrolyte additive. <i>Journal of Solid State Electrochemistry</i> , 2013, 17, 1393-1399.	1.2	32
44	Carbon-Coated Si Nanoparticles Dispersed in Carbon Nanotube Networks As Anode Material for Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 21-25.	4.0	148
45	Enhanced Rate Capability by Employing Carbon Nanotube-Loaded Electrospun Si/C Composite Nanofibers As Binder-Free Anodes. <i>Journal of the Electrochemical Society</i> , 2013, 160, A528-A534.	1.3	31
46	High-performance Sn/Carbon Composite Anodes Derived from Sn(II) Acetate/Polyacrylonitrile Precursors by Electrospinning Technology. <i>Current Organic Chemistry</i> , 2013, 17, 1448-1454.	0.9	2
47	Cr-doped $\text{Li}_2\text{MnSiO}_4$ /carbon composite nanofibers as high-energy cathodes for Li-ion batteries. <i>Journal of Materials Chemistry</i> , 2012, 22, 14661.	6.7	75
48	Design and synthesis of Cu_6Sn_5 -coated TiO_2 nanotube arrays as anode material for lithium ion batteries. <i>Journal of Materials Chemistry</i> , 2011, 21, 3216.	6.7	34
49	Carbon-coated SiO_2 nanoparticles as anode material for lithium ion batteries. <i>Journal of Power Sources</i> , 2011, 196, 10240-10243.	4.0	256
50	A hierarchical porous MnO_2 -based electrode for electrochemical capacitor. <i>Journal of Solid State Electrochemistry</i> , 2011, 15, 485-491.	1.2	15
51	Three-dimensional porous Sn-Cu alloy anode for lithium-ion batteries. <i>Electrochimica Acta</i> , 2010, 55, 7310-7314.	2.6	123
52	A facile method to synthesize well-dispersed PtRuMoO_x and PtRuWO_x nanoparticles and their electrocatalytic activities for methanol oxidation. <i>Journal of Power Sources</i> , 2009, 192, 285-290.	4.0	25
53	Factors influencing MnO_2 /multi-walled carbon nanotubes composite's electrochemical performance as supercapacitor electrode. <i>Electrochimica Acta</i> , 2009, 54, 7173-7179.	2.6	86