

Quan Xu

List of Publications by Year in descending order

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Version: 2024-02-01

22
papers

2,651
citations

430442

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676716

22
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docs citations

22
times ranked

3229
citing authors

#	ARTICLE	IF	CITATIONS
1	Stable Li storage in micron-sized SiO particles with rigid-flexible coating. <i>Journal of Energy Chemistry</i> , 2022, 64, 309-314.	7.1	19
2	A highly stable pre-lithiated SiO _x anode coated with a "salt-in-polymer" layer. <i>Chemical Communications</i> , 2022, 58, 7920-7923.	2.2	8
3	Lithium/Boron Co-doped Micrometer SiO _x as Promising Anode Materials for High-Energy-Density Li-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 27854-27860.	4.0	18
4	Advances of polymer binders for silicon-based anodes in high energy density lithium-ion batteries. <i>Informa Mater</i> , 2021, 3, 460-501.	8.5	163
5	trans-Difluoroethylene Carbonate as an Electrolyte Additive for Microsized SiO _x @C Anodes. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 24916-24924.	4.0	16
6	Formulating the Electrolyte Towards High-Energy and Safe Rechargeable Lithium-Metal Batteries. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 16554-16560.	7.2	80
7	Formulating the Electrolyte Towards High-Energy and Safe Rechargeable Lithium-Metal Batteries. <i>Angewandte Chemie</i> , 2021, 133, 16690-16696.	1.6	12
8	Building sandwich-like carbon coated Si@CNTs composites as high-performance anode materials for lithium-ion batteries. <i>Electrochimica Acta</i> , 2020, 364, 137278.	2.6	33
9	Enabling SiO _x /C Anode with High Initial Coulombic Efficiency through a Chemical Pre-Lithiation Strategy for High-Energy-Density Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 27202-27209.	4.0	112
10	An integral interface with dynamically stable evolution on micron-sized SiO _x particle anode. <i>Nano Energy</i> , 2020, 74, 104890.	8.2	84
11	High-Performance Lithiated SiO _x Anode Obtained by a Controllable and Efficient Prelithiation Strategy. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 32062-32068.	4.0	119
12	Reducing the volume deformation of high capacity SiO _x /G/C anode toward industrial application in high energy density lithium-ion batteries. <i>Nano Energy</i> , 2019, 60, 485-492.	8.2	156
13	Rational Design of Robust Si/C Microspheres for High-Tap-Density Anode Materials. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 4057-4064.	4.0	111
14	Facile Synthesis of Blocky SiO _x /C with Graphite-Like Structure for High-Performance Lithium-Ion Battery Anodes. <i>Advanced Functional Materials</i> , 2018, 28, 1705235.	7.8	260
15	Scalable synthesis of spherical Si/C granules with 3D conducting networks as ultrahigh loading anodes in lithium-ion batteries. <i>Energy Storage Materials</i> , 2018, 12, 54-60.	9.5	115
16	SiO _x Encapsulated in Graphene Bubble Film: An Ultrastable Li-Ion Battery Anode. <i>Advanced Materials</i> , 2018, 30, e1707430.	11.1	243
17	Stable Sodium Storage of Red Phosphorus Anode Enabled by a Dual-Protection Strategy. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 30479-30486.	4.0	24
18	Polar Solvent Induced Lattice Distortion of Cubic CsPbI ₃ Nanocubes and Hierarchical Self-Assembly into Orthorhombic Single-Crystalline Nanowires. <i>Journal of the American Chemical Society</i> , 2018, 140, 11705-11715.	6.6	223

#	ARTICLE	IF	CITATIONS
19	Research progress regarding Si-based anode materials towards practical application in high energy density Li-ion batteries. <i>Materials Chemistry Frontiers</i> , 2017, 1, 1691-1708.	3.2	277
20	Facile synthesis of a SiO _x /asphalt membrane for high performance lithium-ion battery anodes. <i>Chemical Communications</i> , 2017, 53, 12080-12083.	2.2	34
21	Watermelon-Inspired Si/C Microspheres with Hierarchical Buffer Structures for Densely Compacted Lithium-Ion Battery Anodes. <i>Advanced Energy Materials</i> , 2017, 7, 1601481.	10.2	508
22	Nano/Micro-Structured Si/C Anodes with High Initial Coulombic Efficiency in Li-Ion Batteries. <i>Chemistry - an Asian Journal</i> , 2016, 11, 1205-1209.	1.7	36