Quan Xu

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/964049/publications.pdf

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22	2,651	430442	676716
papers	citations	18 h-index	22 g-index

22	22	22	3229
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Watermelonâ€Inspired Si/C Microspheres with Hierarchical Buffer Structures for Densely Compacted Lithiumâ€Ion Battery Anodes. Advanced Energy Materials, 2017, 7, 1601481.	10.2	508
2	Research progress regarding Si-based anode materials towards practical application in high energy density Li-ion batteries. Materials Chemistry Frontiers, 2017, 1, 1691-1708.	3.2	277
3	Facile Synthesis of Blocky SiO_x/C with Graphiteâ€Like Structure for Highâ€Performance Lithiumâ€Ion Battery Anodes. Advanced Functional Materials, 2018, 28, 1705235.	7.8	260
4	SiO_x Encapsulated in Graphene Bubble Film: An Ultrastable Liâ€Ion Battery Anode. Advanced Materials, 2018, 30, e1707430.	11.1	243
5	Polar Solvent Induced Lattice Distortion of Cubic CsPbI₃ Nanocubes and Hierarchical Self-Assembly into Orthorhombic Single-Crystalline Nanowires. Journal of the American Chemical Society, 2018, 140, 11705-11715.	6.6	223
6	Advances of polymer binders for <scp>siliconâ€based</scp> anodes in high energy density <scp>lithiumâ€ion</scp> batteries. InformaÄnÃ-MateriÃ¡ly, 2021, 3, 460-501.	8.5	163
7	Reducing the volume deformation of high capacity SiOx/G/C anode toward industrial application in high energy density lithium-ion batteries. Nano Energy, 2019, 60, 485-492.	8.2	156
8	High-Performance Lithiated SiO_x Anode Obtained by a Controllable and Efficient Prelithiation Strategy. ACS Applied Materials & Interfaces, 2019, 11, 32062-32068.	4.0	119
9	Scalable synthesis of spherical Si/C granules with 3D conducting networks as ultrahigh loading anodes in lithium-ion batteries. Energy Storage Materials, 2018, 12, 54-60.	9.5	115
10	Enabling SiO_x/C Anode with High Initial Coulombic Efficiency through a Chemical Pre-Lithiation Strategy for High-Energy-Density Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2020, 12, 27202-27209.	4.0	112
11	Rational Design of Robust Si/C Microspheres for High-Tap-Density Anode Materials. ACS Applied Materials & Interfaces, 2019, 11, 4057-4064.	4.0	111
12	An integral interface with dynamically stable evolution on micron-sized SiOx particle anode. Nano Energy, 2020, 74, 104890.	8.2	84
13	Formulating the Electrolyte Towards Highâ€Energy and Safe Rechargeable Lithiumâ€“Metal Batteries. Angewandte Chemie - International Edition, 2021, 60, 16554-16560.	7.2	80
14	Nano/Microâ€Structured Si/C Anodes with High Initial Coulombic Efficiency in Liâ€Ion Batteries. Chemistry - an Asian Journal, 2016, 11, 1205-1209.	1.7	36
15	Facile synthesis of a SiO_x/asphalt membrane for high performance lithium-ion battery anodes. Chemical Communications, 2017, 53, 12080-12083.	2.2	34
16	Building sandwich-like carbon coated Si@CNTs composites as high-performance anode materials for lithium-ion batteries. Electrochimica Acta, 2020, 364, 137278.	2.6	33
17	Stable Sodium Storage of Red Phosphorus Anode Enabled by a Dual-Protection Strategy. ACS Applied Materials & Interfaces, 2018, 10, 30479-30486.	4.0	24
18	Stable Li storage in micron-sized SiO particles with rigid-flexible coating. Journal of Energy Chemistry, 2022, 64, 309-314.	7.1	19

#	Article	IF	Citations
19	Lithium/Boron Co-doped Micrometer SiO_x as Promising Anode Materials for High-Energy-Density Li-Ion Batteries. ACS Applied Materials & Interfaces, 2022, 14, 27854-27860.	4.0	18
20	trans-Difluoroethylene Carbonate as an Electrolyte Additive for Microsized SiO_x@C Anodes. ACS Applied Materials & Interfaces, 2021, 13, 24916-24924.	4.0	16
21	Formulating the Electrolyte Towards Highâ€Energy and Safe Rechargeable Lithiumâ€“Metal Batteries. Angewandte Chemie, 2021, 133, 16690-16696.	1.6	12
22	A highly stable pre-lithiated SiO_x anode coated with a â€œsalt-in-polymerâ€•layer. Chemical Communications, 2022, 58, 7920-7923.	2.2	8