Jin Xiao

List of Publications by Year in descending order

19 papers	1,262 citations	623734 14 h-index	794594 19 g-index
19 all docs	19 docs citations	19 times ranked	1635 citing authors

#	Article	IF	Citations
1	NASICON-type air-stable and all-climate cathode for sodium-ion batteries with low cost and high-power density. Nature Communications, 2019, 10, 1480.	12.8	260
2	Theoretical predictions on the electronic structure and charge carrier mobility in 2D Phosphorus sheets. Scientific Reports, 2015, 5, 9961.	3.3	181
3	Nickel sulfide nanocrystals on nitrogen-doped porous carbon nanotubes with high-efficiency electrocatalysis for room-temperature sodium-sulfur batteries. Nature Communications, 2019, 10, 4793.	12.8	147
4	Development and Investigation of a NASICONâ€Type Highâ€Voltage Cathode Material for Highâ€Power Sodiumâ€Ion Batteries. Angewandte Chemie - International Edition, 2020, 59, 2449-2456.	13.8	101
5	Activating a Multielectron Reaction of NASICON-Structured Cathodes toward High Energy Density for Sodium-Ion Batteries. Journal of the American Chemical Society, 2021, 143, 18091-18102.	13.7	96
6	Electronic Structures and Carrier Mobilities of Blue Phosphorus Nanoribbons and Nanotubes: A First-Principles Study. Journal of Physical Chemistry C, 2016, 120, 4638-4646.	3.1	91
7	A Cation and Anion Dual Doping Strategy for the Elevation of Titanium Redox Potential for Highâ€Power Sodiumâ€Ion Batteries. Angewandte Chemie - International Edition, 2020, 59, 12076-12083.	13.8	78
8	Theoretical Prediction of Electronic Structure and Carrier Mobility in Single-walled MoS2 Nanotubes. Scientific Reports, 2014, 4, 4327.	3.3	58
9	First-Principles Prediction of the Charge Mobility in Black Phosphorus Semiconductor Nanoribbons. Journal of Physical Chemistry Letters, 2015, 6, 4141-4147.	4.6	51
10	Effects of van der Waals interaction and electric field on the electronic structure of bilayer MoS₂. Journal of Physics Condensed Matter, 2014, 26, 405302.	1.8	49
11	Carrier mobility of MoS₂nanoribbons with edge chemical modification. Physical Chemistry Chemical Physics, 2015, 17, 6865-6873.	2.8	47
12	Development and Investigation of a NASICONâ€Type Highâ€Voltage Cathode Material for Highâ€Power Sodiumâ€Ion Batteries. Angewandte Chemie, 2020, 132, 2470-2477.	2.0	26
13	A Cation and Anion Dual Doping Strategy for the Elevation of Titanium Redox Potential for Highâ€Power Sodiumâ€Ion Batteries. Angewandte Chemie, 2020, 132, 12174-12181.	2.0	20
14	Abnormal diffusion behaviors of Cu atoms in van der Waals layered material MoS₂. Journal of Materials Chemistry C, 2019, 7, 6052-6058.	5.5	18
15	MoS₂-modified graphite felt as a high performance electrode material for zincâ€“polyiodide redox flow batteries. Inorganic Chemistry Frontiers, 2019, 6, 731-735.	6.0	17
16	Theoretical prediction electronic properties of Group-IV diamond nanothreads. AIP Advances, 2018, 8, 075107.	1.3	8
17	Perfect mechanical and robust electronic properties of new carbon nanothreads: A first principles study. Physica E: Low-Dimensional Systems and Nanostructures, 2019, 111, 37-43.	2.7	8
18	Superior sodium storage of Na₃V(PO₃)₃N nanofibers as a high voltage cathode for flexible sodium-ion battery devices. Nanotechnology, 2021, 32, 435404.	2.6	5

#	Article	IF	Citations
19	Na transport in bilayer MoS2 and MoS2-WS2 heterojunction with S vacancy defect: First-principles study. AIP Advances, 2022, 12, .	1.3	1