

# Guo Ai

## List of Publications by Year in descending order

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Version: 2024-02-01

15  
papers

519  
citations

1040056

9  
h-index

996975

15  
g-index

15  
all docs

15  
docs citations

15  
times ranked

826  
citing authors

#	ARTICLE	IF	CITATIONS
1	Investigation of surface effects through the application of the functional binders in lithium sulfur batteries. <i>Nano Energy</i> , 2015, 16, 28-37.	16.0	112
2	Investigation of the Nanocrystal $\text{CoS}_2$ Embedded in 3D Honeycomb-like Graphitic Carbon with a Synergistic Effect for High-Performance Lithium Sulfur Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 33987-33999.	8.0	77
3	Biomimetic Ant-Nest Electrode Structures for High Sulfur Ratio Lithium-Sulfur Batteries. <i>Nano Letters</i> , 2016, 16, 5365-5372.	9.1	73
4	Nitrogen-doped carbon coated $\text{SnO}_2$ nanoparticles embedded in a hierarchical porous carbon framework for high-performance lithium-ion battery anodes. <i>Journal of Power Sources</i> , 2019, 428, 44-52.	7.8	73
5	Development of a Synergistic Activation Strategy for the Pilot-Scale Construction of Hierarchical Porous Graphitic Carbon for Energy Storage Applications. <i>ACS Nano</i> , 2020, 14, 4741-4754.	14.6	47
6	Rational Design and Facial Synthesis of $\text{Li}_3\text{V}_2(\text{PO}_4)_3$ @C Nanocomposites Using Carbon with Different Dimensions for Ultrahigh-Rate Lithium-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 12057-12066.	8.0	46
7	Regulating Li-ion flux with a high-dielectric hybrid artificial SEI for stable Li metal anodes. <i>Nanoscale</i> , 2022, 14, 5033-5043.	5.6	28
8	Novel Hoberman Sphere Design for Interlaced $\text{Mn}_3\text{O}_4$ @CNT Architecture with Atomic Layer Deposition-Coated $\text{TiO}_2$ Overlayer as Advanced Anodes in Li-Ion Battery. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 39282-39292.	8.0	24
9	Addressing the Prominent $\text{Li}^+$ Intercalation Process of Metal Sulfide Catalyst in $\text{Li}^+$ Batteries. <i>Advanced Materials Interfaces</i> , 2022, 9, .	3.7	14
10	All Graphene Lithium Ion Capacitor with High-Energy-Power Density Performance. <i>Acta Chimica Sinica</i> , 2018, 76, 644.	1.4	9
11	Metal-organic framework derived gradient interfacial layer for stable lithium metal anode. <i>Electrochimica Acta</i> , 2022, 417, 140333.	5.2	6
12	Insights into the Dynamic Catalytic Effect of Metal Sulfides with Prominent Lithiation Process in the Application of $\text{Li}^+$ Batteries. <i>ACS Applied Energy Materials</i> , 2020, 3, 11131-11141.	5.1	3
13	Manganese-Based Lithium-Ion Battery: $\text{Mn}_3\text{O}_4$ Anode Versus $\text{LiNi}_0.5\text{Mn}_1.5\text{O}_4$ Cathode. <i>Automotive Innovation</i> , 2020, 3, 123-132.	5.1	3
14	Design of antimony nanocomposite for high areal capacity sodium battery anodes. <i>Journal of Alloys and Compounds</i> , 2022, 914, 165336.	5.5	3
15	Designing spacial skeleton for lithium metal anode with $\text{Li}^+$ concentration regulation and interfacial modification. <i>Journal of Alloys and Compounds</i> , 2022, 898, 162802.	5.5	1