

Yinguo Xiao

List of Publications by Year in descending order

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31
papers

1,847
citations

331670

21
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434195

31
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all docs

31
docs citations

31
times ranked

1878
citing authors

#	ARTICLE	IF	CITATIONS
1	Unveiling the migration behavior of lithium ions in NCM/Graphite full cell via in operando neutron diffraction. <i>Energy Storage Materials</i> , 2022, 44, 1-9.	18.0	27
2	Surface Engineering Suppresses the Failure of Biphasic Sodium Layered Cathode for High Performance Sodium-ion Batteries. <i>Advanced Functional Materials</i> , 2022, 32, 2109319.	14.9	35
3	Evolution from helical to collinear ferromagnetic order of the Eu ²⁺ spins in RbEu(Fe ^{1-x} Ni ^x) ₄ As ₄ . <i>Physical Review Research</i> , 2022, 4, .	3.6	3
4	Triggering anionic redox activity in Fe/Mn-based layered oxide for high-performance sodium-ion batteries. <i>Nano Energy</i> , 2022, 94, 106958.	16.0	40
5	Bulk domain Meissner state in the ferromagnetic superconductor EuFeMn_2 : Consequence of com. <i>Physical Review B</i> , 2022, 105, .	3.2	1
6	Nanoparticle-induced morphological transformation in block copolymer-based nanocomposites. <i>Nanoscale</i> , 2022, 14, 8766-8775.	5.6	1
7	Origin of structural degradation in Li-rich layered oxide cathode. <i>Nature</i> , 2022, 606, 305-312.	27.8	206
8	Promoting the performances of P2-type sodium layered cathode by inducing Na site rearrangement. <i>Nano Energy</i> , 2022, 100, 107482.	16.0	25
9	Enhancing the Electrochemical Performance and Structural Stability of Ni-Rich Layered Cathode Materials via Dual-Site Doping. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 19950-19958.	8.0	49
10	Twin boundary defect engineering improves lithium-ion diffusion for fast-charging spinel cathode materials. <i>Nature Communications</i> , 2021, 12, 3085.	12.8	77
11	A highly-stable layered Fe/Mn-based cathode with ultralow strain for advanced sodium-ion batteries. <i>Nano Energy</i> , 2021, 88, 106206.	16.0	32
12	Precision grain boundary engineering in commercial Bi ₂ Te _{2.7} Se _{0.3} thermoelectric materials towards high performance. <i>Journal of Materials Chemistry A</i> , 2021, 9, 11442-11449.	10.3	26
13	Prelithiated Li-Enriched Gradient Interphase toward Practical High-Energy NMC-Silicon Full Cell. <i>ACS Energy Letters</i> , 2021, 6, 320-328.	17.4	50
14	Highly Distorted Grain Boundary with an Enhanced Carrier/Phonon Segregation Effect Facilitates High-Performance Thermoelectric Materials. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 51018-51027.	8.0	13
15	Enhanced thermoelectric performance through optimizing structure of anionic framework in AgCuTe-based materials. <i>Chemical Engineering Journal</i> , 2020, 386, 123917.	12.7	16
16	Atomic-scale tuning of oxygen-doped Bi ₂ Te _{2.7} Se _{0.3} to simultaneously enhance the Seebeck coefficient and electrical conductivity. <i>Nanoscale</i> , 2020, 12, 1580-1588.	5.6	23
17	Super-Necking Crystal Growth and Structural and Magnetic Properties of SrTb ₂ O ₄ Single Crystals. <i>ACS Omega</i> , 2020, 5, 16584-16594.	3.5	11
18	Achieving High Thermoelectric Performance by Introducing 3D Atomically Thin Conductive Framework in Porous Bi ₂ Te _{2.7} Se _{0.3} -Carbon Nanotube Hybrids. <i>Advanced Electronic Materials</i> , 2020, 6, 2000292.	5.1	8

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19	Optimizing the structure of layered cathode material for higher electrochemical performance by elucidating structural evolution during heat processing. <i>Nano Energy</i> , 2020, 78, 105194.	16.0	19
20	Enhanced magnetocaloric effect and magnetic phase diagrams of single-crystal GdCrO_3 . <i>Physical Review B</i> , 2020, 102, .	3.2	16
21	Highly Dispersed Cobalt Clusters in Nitrogen-Doped Porous Carbon Enable Multiple Effects for High-Performance Li-S Battery. <i>Advanced Energy Materials</i> , 2020, 10, 1903550.	19.5	192
22	Revealing Insights into Li_xFePO_4 Nanocrystals with Magnetic Order at Room Temperature Resulting in Trapping of Li Ions. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 4794-4799.	4.6	7
23	Correlation between manganese dissolution and dynamic phase stability in spinel-based lithium-ion battery. <i>Nature Communications</i> , 2019, 10, 4721.	12.8	182
24	Ti-Gradient Doping to Stabilize Layered Surface Structure for High Performance High-Ni Oxide Cathode of Li-Ion Battery. <i>Advanced Energy Materials</i> , 2019, 9, 1901756.	19.5	169
25	Ni/Li Disorder in Layered Transition Metal Oxide: Electrochemical Impact, Origin, and Control. <i>Accounts of Chemical Research</i> , 2019, 52, 2201-2209.	15.6	315
26	Tuning Li-enrichment in high-Ni layered oxide cathodes to optimize electrochemical performance for Li-ion battery. <i>Nano Energy</i> , 2019, 62, 709-717.	16.0	33
27	Intrinsic Role of Cationic Substitution in Tuning Li/Ni Mixing in High-Ni Layered Oxides. <i>Chemistry of Materials</i> , 2019, 31, 2731-2740.	6.7	85
28	Insights into the structural evolution and Li/O loss in high-Ni layered oxide cathodes. <i>Nano Energy</i> , 2019, 59, 327-335.	16.0	25
29	Insight into the origin of lithium/nickel ions exchange in layered $\text{Li}(\text{Ni}_x\text{Mn}_y\text{Co}_z)\text{O}_2$ cathode materials. <i>Nano Energy</i> , 2018, 49, 77-85.	16.0	99
30	Tuning Li-Ion Diffusion in $\text{LiMn}_2\text{FePO}_4$ Nanocrystals by Antisite Defects and Embedded I^2 -Phase for Advanced Li-Ion Batteries. <i>Nano Letters</i> , 2017, 17, 4934-4940.	9.1	38
31	Possible magnetic-polaron-switched positive and negative magnetoresistance in the GdSi single crystals. <i>Scientific Reports</i> , 2012, 2, 750.	3.3	24