

Zhe Shi

List of Publications by Year in descending order

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Version: 2024-02-01

21
papers

1,665
citations

516710

16
h-index

713466

21
g-index

21
all docs

21
docs citations

21
times ranked

2157
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultra-high-voltage Ni-rich layered cathodes in practical Li metal batteries enabled by a sulfonamide-based electrolyte. <i>Nature Energy</i> , 2021, 6, 495-505.	39.5	323
2	Machine learning for deep elastic strain engineering of semiconductor electronic band structure and effective mass. <i>Npj Computational Materials</i> , 2021, 7, .	8.7	17
3	Dense All- $\text{Solid}^{\text{State}}$ Lithium Batteries. <i>Advanced Materials</i> , 2021, 33, e2008723.	21.0	26
4	Low-Density Fluorinated Silane Solvent Enhancing Deep Cycle Lithium-Sulfur Batteries TM Lifetime. <i>Advanced Materials</i> , 2021, 33, e2102034.	21.0	39
5	Uranium In Situ Electrolytic Deposition with a Reusable Functional Graphene-Foam Electrode. <i>Advanced Materials</i> , 2021, 33, e2102633.	21.0	52
6	Stabilizing electrode-electrolyte interfaces to realize high-voltage $\text{Li} \text{LiCoO}_2$ batteries by a sulfonamide-based electrolyte. <i>Energy and Environmental Science</i> , 2021, 14, 6030-6040.	30.8	84
7	FSI-inspired solvent and C_{60} fluorosulfonyl electrolyte for 4 V class lithium-metal batteries. <i>Energy and Environmental Science</i> , 2020, 13, 212-220.	30.8	198
8	Metallization of diamond. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 24634-24639.	7.1	29
9	RGO-Coated Polyurethane Foam/Segmented Polyurethane Composites as Solid-Phase Change Thermal Interface Material. <i>Polymers</i> , 2020, 12, 3004.	4.5	15
10	Gradient-morph LiCoO_2 single crystals with stabilized energy density above 3400 Wh L^{-1} . <i>Energy and Environmental Science</i> , 2020, 13, 1865-1878.	30.8	118
11	Inserting Amide into NOTT-101 to Sharply Enhance Volumetric and Gravimetric Methane Storage Working Capacity. <i>Inorganic Chemistry</i> , 2019, 58, 13782-13787.	4.0	10
12	Intercalation-conversion hybrid cathodes enabling Li-S full-cell architectures with jointly superior gravimetric and volumetric energy densities. <i>Nature Energy</i> , 2019, 4, 374-382.	39.5	449
13	Sub-stoichiometry-facilitated oxidation kinetics in a Ti_xC -doped Ti-based alloy. <i>Npj Materials Degradation</i> , 2019, 3, .	5.8	4
14	Deep elastic strain engineering of bandgap through machine learning. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 4117-4122.	7.1	70
15	Elastomer-like deformation in high-Poisson's-ratio graphene allotropes may allow tensile strengths beyond theoretical cohesive strength limits. <i>Carbon</i> , 2019, 143, 752-761.	10.3	8
16	Brownian-snowball-mechanism-induced hierarchical cobalt sulfide for supercapacitors. <i>Journal of Power Sources</i> , 2019, 412, 321-330.	7.8	31
17	Atomically sharp interlayer stacking shifts at anti-phase grain boundaries in overlapping MoS_2 secondary layers. <i>Nanoscale</i> , 2018, 10, 16692-16702.	5.6	22
18	Spring-Like Pseudoelasticity of Monocrystalline Cu_2S Nanowire. <i>Nano Letters</i> , 2018, 18, 5070-5077.	9.1	11

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19	Designing pinecone-like and hierarchical manganese cobalt sulfides for advanced supercapacitor electrodes. <i>Journal of Materials Chemistry A</i> , 2018, 6, 12782-12793.	10.3	93
20	The ideal strength of two-dimensional stanene may reach or exceed the Griffith strength estimate. <i>Nanoscale</i> , 2017, 9, 7055-7062.	5.6	29
21	Competing twinning mechanisms in body-centered cubic metallic nanowires. <i>Scripta Materialia</i> , 2016, 113, 214-217.	5.2	37