

Zhe Shi

List of Publications by Year in descending order

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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	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
2	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
3	FSI-inspired solvent and full fluorosulfonyl electrolyte for 4 V class lithium-metal batteries. <i>Energy and Environmental Science</i> , 2020, 13, 212-220.	30.8	198
4	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
5	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
6	Stabilizing electrode-electrolyte interfaces to realize high-voltage Li LiCoO ₂ batteries by a sulfonamide-based electrolyte. <i>Energy and Environmental Science</i> , 2021, 14, 6030-6040.	30.8	84
7	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
8	Uranium In Situ Electrolytic Deposition with a Reusable Functional Graphene Foam Electrode. <i>Advanced Materials</i> , 2021, 33, e2102633.	21.0	52
9	Low-Density Fluorinated Silane Solvent Enhancing Deep Cycle Lithium-Sulfur Batteries™ Lifetime. <i>Advanced Materials</i> , 2021, 33, e2102034.	21.0	39
10	Competing twinning mechanisms in body-centered cubic metallic nanowires. <i>Scripta Materialia</i> , 2016, 113, 214-217.	5.2	37
11	Brownian-snowball-mechanism-induced hierarchical cobalt sulfide for supercapacitors. <i>Journal of Power Sources</i> , 2019, 412, 321-330.	7.8	31
12	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
13	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
14	Dense All-Electrochemically Active Electrodes for All-Solid-State Lithium Batteries. <i>Advanced Materials</i> , 2021, 33, e2008723.	21.0	26
15	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
16	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
17	RGO-Coated Polyurethane Foam/Segmented Polyurethane Composites as Solid-Solid Phase Change Thermal Interface Material. <i>Polymers</i> , 2020, 12, 3004.	4.5	15
18	Spring-Like Pseudoelasticity of Monocrystalline Cu ₂ S Nanowire. <i>Nano Letters</i> , 2018, 18, 5070-5077.	9.1	11

#	ARTICLE	IF	CITATIONS
19	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
20	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
21	Sub-stoichiometry-facilitated oxidation kinetics in a $\hat{\Gamma}$ -TixC-doped Ti-based alloy. <i>Npj Materials Degradation</i> , 2019, 3, .	5.8	4