He Zhu

List of Publications by Year
in descending order

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43	2,382	218677	254184
papers	citations	26 h-index	43 g-index

44	44	44	2592
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Tuning the Kinetics of Zincâ€Ion Insertion/Extraction in V₂O₅ by In Situ Polyaniline Intercalation Enables Improved Aqueous Zincâ€Ion Storage Performance. Advanced Materials, 2020, 32, e2001113.	21.0	357
2	Radially Oriented Singleâ€Crystal Primary Nanosheets Enable Ultrahigh Rate and Cycling Properties of LiNi_{0.8}Co_{0.1}Mn_{0.1}O₂ Cathode Material for Lithiumâ€Ion Batteries. Advanced Energy Materials, 2019, 9, 1803963.	19.5	240
3	Recent progress on MOFâ€derived carbon materials for energy storage. , 2020, 2, 176-202.		198
4	LiMnO2 cathode stabilized by interfacial orbital ordering for sustainable lithium-ion batteries. Nature Sustainability, 2021, 4, 392-401.	23.7	156
5	Ultralowâ€Strain Znâ€Substituted Layered Oxide Cathode with Suppressed P2â€“O2 Transition for Stable Sodium Ion Storage. Advanced Functional Materials, 2020, 30, 1910327.	14.9	110
6	Switching Between Giant Positive and Negative Thermal Expansions of a YFe(CN)₆â€based Prussian Blue Analogue Induced by Guest Species. Angewandte Chemie - International Edition, 2017, 56, 9023-9028.	13.8	101
7	Achieving Ultrahighâ€Rate and Highâ€Safety Li⁺ Storage Based on Interconnected Tunnel Structure in Microâ€Size Niobium Tungsten Oxides. Advanced Materials, 2020, 32, e1905295.	21.0	95
8	Boosting fast energy storage by synergistic engineering of carbon and deficiency. Nature Communications, 2020, 11, 132.	12.8	92
9	Zero Thermal Expansion in Magnetic and Metallic Tb(Co,Fe)₂ Intermetallic Compounds. Journal of the American Chemical Society, 2018, 140, 602-605.	13.7	87
10	A nanorod-like Ni-rich layered cathode with enhanced Li⁺ diffusion pathways for high-performance lithium-ion batteries. Journal of Materials Chemistry A, 2021, 9, 2830-2839.	10.3	58
11	Spontaneous Strain Buffer Enables Superior Cycling Stability in Single-Crystal Nickel-Rich NCM Cathode. Nano Letters, 2021, 21, 9997-10005.	9.1	58
12	Charge transfer drives anomalous phase transition in ceria. Nature Communications, 2018, 9, 5063.	12.8	48
13	Modulating the Surface Ligand Orientation for Stabilized Anionic Redox in Liâ€Rich Oxide Cathodes. Advanced Energy Materials, 2021, 11, 2003479.	19.5	45
14	Bridging Structural Inhomogeneity to Functionality: Pair Distribution Function Methods for Functional Materials Development. Advanced Science, 2021, 8, 2003534.	11.2	44
15	In Situ Probing Multipleâ€Scale Structures of Energy Materials for Liâ€Ion Batteries. Small Methods, 2020, 4, 1900223.	8.6	39
16	A New Insight into Crossâ€Sensitivity to Humidity of SnO₂ Sensor. Small, 2018, 14, e1703974.	10.0	38
17	Twin Crystal Induced near Zero Thermal Expansion in SnO₂ Nanowires. Journal of the American Chemical Society, 2018, 140, 7403-7406.	13.7	37
18	Synergy of Ion Doping and Spiral Array Architecture on Ti₂Nb₁₀O₂₉: A New Way to Achieve Highâ€Power Electrodes. Advanced Functional Materials, 2020, 30, 2002665.	14.9	37

#	Article	IF	Citations
19	Unveiling the solid-solution charge storage mechanism in 1T vanadium disulfide nanoarray cathodes. Journal of Materials Chemistry A, 2020, 8, 9068-9076.	10.3	36
20	Structure and Charge Regulation Strategy Enabling Superior Cyclability for Niâ€Rich Layered Cathode Materials. Small, 2021, 17, e2104282.	10.0	36
21	Local Chemical Ordering and Negative Thermal Expansion in PtNi Alloy Nanoparticles. Nano Letters, 2017, 17, 7892-7896.	9.1	34
22	3D negative thermal expansion in orthorhombic MIL-68(In). Chemical Communications, 2018, 54, 5712-5715.	4.1	34
23	Strong Second Harmonic Generation in a Tungsten Bronze Oxide by Enhancing Local Structural Distortion. Journal of the American Chemical Society, 2020, 142, 7480-7486.	13.7	33
24	Low-Frequency Phonon Driven Negative Thermal Expansion in Cubic GaFe(CN)₆ Prussian Blue Analogues. Inorganic Chemistry, 2018, 57, 10918-10924.	4.0	32
25	Unblocking Oxygen Charge Compensation for Stabilized Highâ€Voltage Structure in P2â€Type Sodiumâ€Ion Cathode. Advanced Science, 2022, 9, e2200498.	11.2	32
26	Insights into Ti doping for stabilizing the Na2/3Fe1/3Mn2/3O2 cathode in sodium ion battery. Journal of Energy Chemistry, 2022, 73, 542-548.	12.9	32
27	Tunable Thermal Expansion from Negative, Zero, to Positive in Cubic Prussian Blue Analogues of GaFe(CN)₆. Inorganic Chemistry, 2018, 57, 14027-14030.	4.0	28
28	Local Structural Distortion Induced Uniaxial Negative Thermal Expansion in Nanosized Semimetal Bismuth. Advanced Science, 2016, 3, 1600108.	11.2	26
29	Hydration and Thermal Expansion in Anatase Nanoparticles. Advanced Materials, 2016, 28, 6894-6899.	21.0	23
30	Structure and Phase Transformation in the Giant Magnetostriction Laves-Phase SmFe₂. Inorganic Chemistry, 2018, 57, 689-694.	4.0	23
31	Cation mixing in Wadsley-Roth phase anode of lithium-ion battery improves cycling stability and fast Li+ storage. Applied Physics Reviews, 2021, 8, .	11.3	21
32	Negativeâ€Pressureâ€Induced Large Polarization in Nanosized PbTiO₃. Advanced Materials, 2020, 32, e2002968.	21.0	20
33	Modulating precursor nanosheets for stabilized Ni-rich cathode material for Li-ion batteries. Rare Metals, 2022, 41, 2552-2559.	7.1	19
34	Insight into the capacity decay mechanism of cycled LiNi_{0.5}Co_{0.2}Mn_{0.3}O₂ cathodes via in situ x-ray diffraction. Nanotechnology, 2021, 32, 295701.	2.6	17
35	Ten Thousand-Cycle Ultrafast Energy Storage of Wadsleyâ€"Roth Phase Feâ€"Nb Oxides with a Desolvation Promoting Interfacial Layer. Nano Letters, 2021, 21, 9675-9683.	9.1	17
36	Constructing O2/O3 homogeneous hybrid stabilizes Li-rich layered cathodes. Energy Storage Materials, 2022, 51, 756-763.	18.0	16

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37	Negative Thermal Expansion in Nanosolids. Accounts of Chemical Research, 2019, 52, 2694-2702.	15.6	14
38	Local Chemical Strain in PtFe Alloy Nanoparticles. Inorganic Chemistry, 2018, 57, 10494-10497.	4.0	10
39	Cation deficiency effect on negative thermal expansion of ferroelectric PbTiO₃. Inorganic Chemistry Frontiers, 2015, 2, 1091-1094.	6.0	9
40	Phase transition and thermal expansion of Ho2W3O12. Inorganic Chemistry Communication, 2016, 73, 111-114.	3.9	9
41	Oxygen vacancy distributions and electron localization in a CeO₂(100) nanocube. Inorganic Chemistry Frontiers, 2022, 9, 275-283.	6.0	8
42	Spreading monoclinic boundary network between hexagonal primary grains for high performance Ni-rich cathode materials. Nano Energy, 2022, 100, 107502.	16.0	7
43	Switching Between Giant Positive and Negative Thermal Expansions of a YFe(CN)₆â€based Prussian Blue Analogue Induced by Guest Species. Angewandte Chemie, 2017, 129, 9151-9156.	2.0	5