

Lifen Wang

List of Publications by Year in descending order

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29
papers

1,010
citations

687363

13
h-index

526287

27
g-index

30
all docs

30
docs citations

30
times ranked

2368
citing authors

#	ARTICLE	IF	CITATIONS
1	Atomic Mechanism of Dynamic Electrochemical Lithiation Processes of MoS ₂ Nanosheets. Journal of the American Chemical Society, 2014, 136, 6693-6697.	13.7	454
2	Self-adaptive strain-relaxation optimization for high-energy lithium storage material through crumpling of graphene. Nature Communications, 2014, 5, 4565.	12.8	139
3	The Piezotronic Effect of Zinc Oxide Nanowires Studied by In Situ TEM. Advanced Materials, 2012, 24, 4676-4682.	21.0	58
4	Atomic-scale observations of electrical and mechanical manipulation of topological polar flux closure. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 18954-18961.	7.1	41
5	Unraveling nanoscale electrochemical dynamics of graphite fluoride by <i>in situ</i> electron microscopy: key difference between lithiation and sodiation. Journal of Materials Chemistry A, 2020, 8, 6105-6111.	10.3	40
6	Filament growth dynamics in solid electrolyte-based resistive memories revealed by in situ TEM. Nano Research, 2014, 7, 1065-1072.	10.4	30
7	In-situ TEM investigation of MoS ₂ upon alkali metal intercalation. Science China Chemistry, 2018, 61, 222-227.	8.2	26
8	Real-time in situ TEM studying the fading mechanism of tin dioxide nanowire electrodes in lithium ion batteries. Science China Technological Sciences, 2013, 56, 2630-2635.	4.0	23
9	Microscopic Kinetics Pathway of Salt Crystallization in Graphene Nanocapillaries. Physical Review Letters, 2021, 126, 136001.	7.8	22
10	Exotic Reaction Front Migration and Stage Structure in Lithiated Silicon Nanowires. ACS Nano, 2014, 8, 8249-8254.	14.6	18
11	Rate mechanism of vanadium oxide coated tin dioxide nanowire electrode for lithium ion battery. Nano Energy, 2017, 42, 294-299.	16.0	18
12	Synthesis of Honeycomb-Structured Beryllium Oxide via Graphene Liquid Cells. Angewandte Chemie - International Edition, 2020, 59, 15734-15740.	13.8	18
13	Strain-Inhibited Electromigration of Oxygen Vacancies in LaCoO ₃ . ACS Applied Materials & Interfaces, 2019, 11, 36800-36806.	8.0	15
14	Recent development of studies on the mechanism of resistive memories in several metal oxides. Science China: Physics, Mechanics and Astronomy, 2013, 56, 2361-2369.	5.1	12
15	Visualizing Anisotropic Oxygen Diffusion in Ceria under Activated Conditions. Physical Review Letters, 2020, 124, 056002.	7.8	12
16	Fractal growth of platinum electrodeposits revealed by in situ electron microscopy. Nanoscale, 2016, 8, 17250-17255.	5.6	11
17	Atomic-Scale Observation of Structure Transition from Brownmillerite to Infinite Layer in SrFeO _{2.5} Thin Films. Chemistry of Materials, 2021, 33, 3113-3120.	6.7	10
18	Dynamic nanomechanics of zinc oxide nanowires. Applied Physics Letters, 2012, 100, 163110.	3.3	9

#	ARTICLE	IF	CITATIONS
19	Synthesis of centimeter-scale high-quality polycrystalline hexagonal boron nitride films from Fe fluxes. <i>Nanoscale</i> , 2021, 13, 11223-11231.	5.6	9
20	Emergence of Insulating Ferrimagnetism and Perpendicular Magnetic Anisotropy in 3d ⁴ 5d Perovskite Oxide Composite Films for Insulator Spintronics. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 15407-15414.	8.0	8
21	Engineering Interlayer Electron-Phonon Coupling in WS ₂ /BN Heterostructures. <i>Nano Letters</i> , 2022, 22, 2725-2733.	9.1	7
22	Isotope Effect of Hydrogen Functionalization in Layered Germanane: Implications for Germanane-Based Optoelectronics. <i>ACS Applied Nano Materials</i> , 2021, 4, 13708-13715.	5.0	6
23	Electrically driven motion, destruction, and chirality change of polar vortices in oxide superlattices. <i>Science China: Physics, Mechanics and Astronomy</i> , 2022, 65, 1.	5.1	6
24	Surface protonation and oxygen evolution activity of epitaxial La _{1-x} Sr _x CoO ₃ thin films. <i>Science China: Physics, Mechanics and Astronomy</i> , 2020, 63, 1.	5.1	5
25	Atomic-scale dynamics of the phase transition in bilayer PtSe ₂ . <i>Journal of Materials Chemistry C</i> , 2021, 9, 5261-5266.	5.5	5
26	Atomic-scale visualization of metallic lead leak related fine structure in CsPbBr ₃ quantum dots. <i>Nanoscale</i> , 2021, 13, 124-130.	5.6	4
27	Evolution of interlayer stacking orders and rotations in bilayer PtSe ₂ visualized by STEM. <i>2D Materials</i> , 2021, 8, 025014.	4.4	4
28	Dynamic Rate Mechanism of V ₂ O ₅ Coated SnO ₂ Nanowires for Lithium Ion Batteries Studied by in situ TEM. <i>Microscopy and Microanalysis</i> , 2015, 21, 1913-1914.	0.4	0
29	Synthesis of Honeycomb-Structured Beryllium Oxide via Graphene Liquid Cells. <i>Angewandte Chemie</i> , 2020, 132, 15864-15870.	2.0	0