

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	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
2	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
3	Engineering Interlayer Electron-Phonon Coupling in WS ₂ /BN Heterostructures. <i>Nano Letters</i> , 2022, 22, 2725-2733.	9.1	7
4	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
5	Evolution of interlayer stacking orders and rotations in bilayer PtSe ₂ visualized by STEM. <i>2D Materials</i> , 2021, 8, 025014.	4.4	4
6	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
7	Microscopic Kinetics Pathway of Salt Crystallization in Graphene Nanocapillaries. <i>Physical Review Letters</i> , 2021, 126, 136001.	7.8	22
8	Atomic-Scale Observation of Structure Transition from Brownmillerite to Infinite Layer in SrFeO _{2.5} Thin Films. <i>Chemistry of Materials</i> , 2021, 33, 3113-3120.	6.7	10
9	Synthesis of centimeter-scale high-quality polycrystalline hexagonal boron nitride films from Fe fluxes. <i>Nanoscale</i> , 2021, 13, 11223-11231.	5.6	9
10	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
11	Atomic-scale observations of electrical and mechanical manipulation of topological polar flux closure. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 18954-18961.	7.1	41
12	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
13	Synthesis of Honeycomb-Structured Beryllium Oxide via Graphene Liquid Cells. <i>Angewandte Chemie</i> , 2020, 132, 15864-15870.	2.0	0
14	Synthesis of Honeycomb-Structured Beryllium Oxide via Graphene Liquid Cells. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 15734-15740.	13.8	18
15	Unraveling nanoscale electrochemical dynamics of graphite fluoride by <i>in situ</i> electron microscopy: key difference between lithiation and sodiation. <i>Journal of Materials Chemistry A</i> , 2020, 8, 6105-6111.	10.3	40
16	Visualizing Anisotropic Oxygen Diffusion in Ceria under Activated Conditions. <i>Physical Review Letters</i> , 2020, 124, 056002.	7.8	12
17	Strain-Inhibited Electromigration of Oxygen Vacancies in LaCoO ₃ . <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 36800-36806.	8.0	15
18	In-situ TEM investigation of MoS ₂ upon alkali metal intercalation. <i>Science China Chemistry</i> , 2018, 61, 222-227.	8.2	26

#	ARTICLE	IF	CITATIONS
19	Rate mechanism of vanadium oxide coated tin dioxide nanowire electrode for lithium ion battery. Nano Energy, 2017, 42, 294-299.	16.0	18
20	Fractal growth of platinum electrodeposits revealed by in situ electron microscopy. Nanoscale, 2016, 8, 17250-17255.	5.6	11
21	Dynamic Rate Mechanism of V ₂ O ₅ Coated SnO ₂ Nanowires for Lithium Ion Batteries Studied by in situ TEM. Microscopy and Microanalysis, 2015, 21, 1913-1914.	0.4	0
22	Atomic Mechanism of Dynamic Electrochemical Lithiation Processes of MoS ₂ Nanosheets. Journal of the American Chemical Society, 2014, 136, 6693-6697.	13.7	454
23	Exotic Reaction Front Migration and Stage Structure in Lithiated Silicon Nanowires. ACS Nano, 2014, 8, 8249-8254.	14.6	18
24	Self-adaptive strain-relaxation optimization for high-energy lithium storage material through crumpling of graphene. Nature Communications, 2014, 5, 4565.	12.8	139
25	Filament growth dynamics in solid electrolyte-based resistive memories revealed by in situ TEM. Nano Research, 2014, 7, 1065-1072.	10.4	30
26	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
27	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
28	Dynamic nanomechanics of zinc oxide nanowires. Applied Physics Letters, 2012, 100, 163110.	3.3	9
29	The Piezotronic Effect of Zinc Oxide Nanowires Studied by In Situ TEM. Advanced Materials, 2012, 24, 4676-4682.	21.0	58