

Lei Zhang

List of Publications by Year in descending order

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Version: 2024-02-01

22
papers

1,064
citations

567144

15
h-index

677027

22
g-index

22
all docs

22
docs citations

22
times ranked

2102
citing authors

#	ARTICLE	IF	CITATIONS
1	Correlated metals as transparent conductors. <i>Nature Materials</i> , 2016, 15, 204-210.	13.3	291
2	Wafer-scale growth of VO ₂ thin films using a combinatorial approach. <i>Nature Communications</i> , 2015, 6, 8475.	5.8	117
3	Frontiers in the Growth of Complex Oxide Thin Films: Past, Present, and Future of Hybrid MBE. <i>Advanced Functional Materials</i> , 2018, 28, 1702772.	7.8	78
4	New approach to waste-heat energy harvesting: pyroelectric energy conversion. <i>NPG Asia Materials</i> , 2019, 11, .	3.8	78
5	Opportunities in vanadium-based strongly correlated electron systems. <i>MRS Communications</i> , 2017, 7, 27-52.	0.8	77
6	Accessing a growth window for SrVO ₃ thin films. <i>Applied Physics Letters</i> , 2015, 107, .	1.5	48
7	Continuously Tuning Epitaxial Strains by Thermal Mismatch. <i>ACS Nano</i> , 2018, 12, 1306-1312.	7.3	44
8	Imprinting of Local Metallic States into VO ₂ with Ultraviolet Light. <i>Advanced Functional Materials</i> , 2016, 26, 6612-6618.	7.8	43
9	Manipulating magnetoelectric energy landscape in multiferroics. <i>Nature Communications</i> , 2020, 11, 2836.	5.8	42
10	Complex strain evolution of polar and magnetic order in multiferroic BiFeO ₃ thin films. <i>Nature Communications</i> , 2018, 9, 3764.	5.8	40
11	Light-Induced Currents at Domain Walls in Multiferroic BiFeO ₃ . <i>Nano Letters</i> , 2020, 20, 145-151.	4.5	36
12	Growth of SrTiO ₃ on Si(001) by hybrid molecular beam epitaxy. <i>Physica Status Solidi - Rapid Research Letters</i> , 2014, 8, 917-923.	1.2	32
13	Pyroelectric and electrocaloric effects in ferroelectric silicon-doped hafnium oxide thin films. <i>Physical Review Materials</i> , 2018, 2, .	0.9	26
14	Mapping growth windows in quaternary perovskite oxide systems by hybrid molecular beam epitaxy. <i>Applied Physics Letters</i> , 2016, 109, .	1.5	22
15	Scaling growth rates for perovskite oxide virtual substrates on silicon. <i>Nature Communications</i> , 2019, 10, 2464.	5.8	19
16	Quantifying Intrinsic, Extrinsic, Dielectric, and Secondary Pyroelectric Responses in PbZr _{1-x} Ti _x O ₃ Thin Films. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 35146-35154.	4.0	16
17	Improving the structural quality and electrical resistance of SrTiO ₃ thin films on Si (001) via a two-step anneal. <i>Journal of Applied Physics</i> , 2016, 119, .	1.1	14
18	Criteria for improving the properties of ZnGeAs ₂ solar cells. <i>Progress in Photovoltaics: Research and Applications</i> , 2013, 21, 906-917.	4.4	13

#	ARTICLE	IF	CITATIONS
19	Self-regulated growth of CaVO ₃ by hybrid molecular beam epitaxy. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2017, 35, .	0.9	13
20	Enhanced pyroelectric properties of Bi ^{1-x} LaxFeO ₃ thin films. <i>APL Materials</i> , 2019, 7, .	2.2	11
21	Structural dynamics of LaVO ₃ on the nanosecond time scale. <i>Structural Dynamics</i> , 2019, 6, 014502.	0.9	3
22	Experimental study of the kinetically-limited decomposition of ZnGeAs ₂ and its role in determining optimal conditions for thin film growth. <i>Journal of Crystal Growth</i> , 2012, 338, 267-271.	0.7	1