

Lu Zheng

List of Publications by Year in descending order

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Version: 2024-02-01

14
papers

402
citations

933447

10
h-index

1058476

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g-index

14
all docs

14
docs citations

14
times ranked

657
citing authors

#	ARTICLE	IF	CITATIONS
1	Gigahertz topological valley Hall effect in nanoelectromechanical phononic crystals. Nature Electronics, 2022, 5, 157-163.	26.0	37
2	Direct Visualization of Gigahertz Acoustic Wave Propagation in Suspended Phononic Circuits. Physical Review Applied, 2021, 16, .	3.8	10
3	Coherent acoustic control of a single silicon vacancy spin in diamond. Nature Communications, 2020, 11, 193.	12.8	92
4	Epitaxial integration of ferroelectric and conductive perovskites on silicon. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2020, 38, .	2.1	5
5	Unexpected Giant Microwave Conductivity in a Nominally Silent BiFeO ₃ Domain Wall. Advanced Materials, 2020, 32, 1905132.	21.0	22
6	Microwave Microscopy and Its Applications. Annual Review of Materials Research, 2020, 50, 105-130.	9.3	24
7	Atomic layer deposition of epitaxial ferroelectric barium titanate on Si(001) for electronic and photonic applications. Journal of Applied Physics, 2019, 126, .	2.5	19
8	Phononic Band Structure Engineering for High- <i>Q</i> Gigahertz Surface Acoustic Wave Resonators on Lithium Niobate. Physical Review Applied, 2019, 12, .	3.8	70
9	Quantitative measurements of nanoscale permittivity and conductivity using tuning-fork-based microwave impedance microscopy. Review of Scientific Instruments, 2018, 89, 043704.	1.3	26
10	Polarization retention in ultra-thin barium titanate films on Ge(001). Applied Physics Letters, 2018, 112, .	3.3	7
11	Piezoelectric modulation of nonlinear optical response in BaTiO ₃ thin film. Applied Physics Letters, 2018, 113, 132902.	3.3	13
12	Interferometric imaging of nonlocal electromechanical power transduction in ferroelectric domains. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 5338-5342.	7.1	9
13	Microwave conductivity of ferroelectric domains and domain walls in a hexagonal rare-earth ferrite. Physical Review B, 2018, 98, .	3.2	16
14	Low-energy structural dynamics of ferroelectric domain walls in hexagonal rare-earth manganites. Science Advances, 2017, 3, e1602371.	10.3	52