

# Lu Zheng

## List of Publications by Year in descending order

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14  
papers

402  
citations

933447

10  
h-index

1058476

14  
g-index

14  
all docs

14  
docs citations

14  
times ranked

657  
citing authors

#	ARTICLE	IF	CITATIONS
1	Coherent acoustic control of a single silicon vacancy spin in diamond. Nature Communications, 2020, 11, 193.	12.8	92
2	Phononic Band Structure Engineering for High-Q Gigahertz Surface Acoustic Wave Resonators on Lithium Niobate. Physical Review Applied, 2019, 12, .	3.8	70
3	Low-energy structural dynamics of ferroelectric domain walls in hexagonal rare-earth manganites. Science Advances, 2017, 3, e1602371.	10.3	52
4	Gigahertz topological valley Hall effect in nanoelectromechanical phononic crystals. Nature Electronics, 2022, 5, 157-163.	26.0	37
5	Quantitative measurements of nanoscale permittivity and conductivity using tuning-fork-based microwave impedance microscopy. Review of Scientific Instruments, 2018, 89, 043704.	1.3	26
6	Microwave Microscopy and Its Applications. Annual Review of Materials Research, 2020, 50, 105-130.	9.3	24
7	Unexpected Giant Microwave Conductivity in a Nominally Silent BiFeO <sub>3</sub> Domain Wall. Advanced Materials, 2020, 32, 1905132.	21.0	22
8	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
9	Microwave conductivity of ferroelectric domains and domain walls in a hexagonal rare-earth ferrite. Physical Review B, 2018, 98, .	3.2	16
10	Piezoelectric modulation of nonlinear optical response in BaTiO <sub>3</sub> thin film. Applied Physics Letters, 2018, 113, 132902.	3.3	13
11	Direct Visualization of Gigahertz Acoustic Wave Propagation in Suspended Phononic Circuits. Physical Review Applied, 2021, 16, .	3.8	10
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	Polarization retention in ultra-thin barium titanate films on Ge(001). Applied Physics Letters, 2018, 112, .	3.3	7
14	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