

Xin Zhou

List of Publications by Year in descending order

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35
papers

1,370
citations

430874

18
h-index

377865

34
g-index

35
all docs

35
docs citations

35
times ranked

1915
citing authors

#	ARTICLE	IF	CITATIONS
1	Correlation between green luminescence and morphology evolution of ZnO films. <i>Applied Physics A: Materials Science and Processing</i> , 2005, 81, 759-762.	2.3	205
2	Blue-yellow ZnO homostructural light-emitting diode realized by metalorganic chemical vapor deposition technique. <i>Applied Physics Letters</i> , 2006, 88, 092101.	3.3	156
3	Slowing, advancing and switching of microwave signals using circuit nanoelectromechanics. <i>Nature Physics</i> , 2013, 9, 179-184.	16.7	150
4	Reaching the quantum limit of sensitivity in electron spin resonance. <i>Nature Nanotechnology</i> , 2016, 11, 253-257.	31.5	141
5	Controlling spin relaxation with a cavity. <i>Nature</i> , 2016, 531, 74-77.	27.8	123
6	High-gain weakly nonlinear flux-modulated Josephson parametric amplifier using a SQUID array. <i>Physical Review B</i> , 2014, 89, .	3.2	66
7	MOCVD growth and properties of ZnO films using dimethylzinc and oxygen. <i>Applied Physics A: Materials Science and Processing</i> , 2005, 81, 809-812.	2.3	50
8	Magnetic Resonance with Squeezed Microwaves. <i>Physical Review X</i> , 2017, 7, .	8.9	50
9	Production of high-quality ZnO films by the two-step annealing method. <i>Journal of Applied Physics</i> , 2004, 96, 5308-5310.	2.5	48
10	Graphene FETs With Aluminum Bottom-Gate Electrodes and Its Natural Oxide as Dielectrics. <i>IEEE Transactions on Electron Devices</i> , 2015, 62, 2769-2773.	3.0	36
11	The deposition and annealing study of MOCVD ZnMgO. <i>Journal of Crystal Growth</i> , 2005, 277, 416-421.	1.5	34
12	Influence of nanocrystal size on the transport properties of Si nanocrystals. <i>Journal of Applied Physics</i> , 2008, 104, .	2.5	30
13	Multiplexed readout of transmon qubits with Josephson bifurcation amplifiers. <i>Physical Review A</i> , 2014, 90, .	2.5	23
14	Nonlinear frequency transduction of nanomechanical Brownian motion. <i>Physical Review B</i> , 2017, 96, .	3.2	22
15	On-chip Thermometry for Microwave Optomechanics Implemented in a Nuclear Demagnetization Cryostat. <i>Physical Review Applied</i> , 2019, 12, .	3.8	20
16	A macroscopic object passively cooled into its quantum ground state of motion beyond single-mode cooling. <i>Nature Communications</i> , 2021, 12, 6182.	12.8	20
17	MOCVD growth of self-arranged ZnO nanosize islands. <i>Journal of Crystal Growth</i> , 2004, 269, 362-366.	1.5	19
18	Measuring Frequency Fluctuations in Nonlinear Nanomechanical Resonators. <i>ACS Nano</i> , 2018, 12, 5753-5760.	14.6	19

#	ARTICLE	IF	CITATIONS
19	Comparative study of diethylzinc and dimethylzinc for the growth of ZnO. Journal of Crystal Growth, 2005, 274, 489-494.	1.5	18
20	Photoluminescence study of ZnO nano-islands. Applied Surface Science, 2006, 253, 2226-2229.	6.1	15
21	Modeling analysis of the MOCVD growth of ZnO film. Journal of Crystal Growth, 2007, 299, 303-308.	1.5	15
22	High-Q Silicon Nitride Drum Resonators Strongly Coupled to Gates. Nano Letters, 2021, 21, 5738-5744.	9.1	12
23	Beyond linear coupling in microwave optomechanics. Physical Review Research, 2020, 2, .	3.6	12
24	Carrier transport by field enhanced thermal detrapping in Si nanocrystals thin films. Journal of Applied Physics, 2009, 105, 124518.	2.5	11
25	Electron transport in surface oxidized Si nanocrystal ensembles with thin film transistor structure. Journal of Applied Physics, 2009, 106, 044511.	2.5	11
26	Manipulating Fock states of a harmonic oscillator while preserving its linearity. Physical Review A, 2016, 94, .	2.5	10
27	Single charge detection in capacitively coupled integrated single electron transistors based on single-walled carbon nanotubes. Applied Physics Letters, 2012, 101, .	3.3	9
28	Geometrical nonlinearity of circular plates and membranes: An alternative method. Journal of Applied Physics, 2020, 128, 104501.	2.5	8
29	Electric circuit model of microwave optomechanics. Journal of Applied Physics, 2021, 129, 114502.	2.5	8
30	Current fluctuations in three-dimensionally stacked Si nanocrystals thin films. Applied Physics Letters, 2010, 96, 092112.	3.3	7
31	Broadband non-contact characterization of epitaxial graphene by near-field microwave microscopy. Nanotechnology, 2017, 28, 335702.	2.6	7
32	Surface-Induced Near-Field Scaling in the Knudsen Layer of a Rarefied Gas. Physical Review Letters, 2018, 120, 036802.	7.8	7
33	Scanning gate imaging of two coupled quantum dots in single-walled carbon nanotubes. Nanotechnology, 2014, 25, 495703.	2.6	6
34	Microwave Optomechanically Induced Transparency and Absorption Between 250 and 450 mK. Journal of Low Temperature Physics, 2023, 210, 562-572.	1.4	2
35	Size effects on hopping conduction in Si nanocrystals. , 2010, , .		0