

Pritiraj Mohanty

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/11738581/publications.pdf>

Version: 2024-02-01

47
papers

2,040
citations

293460

24
h-index

263392

45
g-index

48
all docs

48
docs citations

48
times ranked

2471
citing authors

#	ARTICLE	IF	CITATIONS
1	Measurement of nonlinear piezoelectric coefficients using a micromechanical resonator. Applied Physics Letters, 2018, 113, 083501.	1.5	1
2	Micromechanical resonator with dielectric nonlinearity. Microsystems and Nanoengineering, 2018, 4, 14.	3.4	5
3	Autoassociative Memory and Pattern Recognition in Micromechanical Oscillator Network. Scientific Reports, 2017, 7, 411.	1.6	27
4	Micromechanical microphone using sideband modulation of nonlinear resonators. Applied Physics Letters, 2017, 111, .	1.5	3
5	Optical wireless information transfer with nonlinear micromechanical resonators. Microsystems and Nanoengineering, 2017, 3, 17026.	3.4	8
6	Micromechanical Resonator Driven by Radiation Pressure Force. Scientific Reports, 2017, 7, 16056.	1.6	8
7	Wireless actuation of bulk acoustic modes in micromechanical resonators. Applied Physics Letters, 2016, 109, 073502.	1.5	4
8	Sensing of the Melanoma Biomarker TROY Using Silicon Nanowire Field-Effect Transistors. ACS Sensors, 2016, 1, 696-701.	4.0	12
9	Wireless actuation of micromechanical resonators. Microsystems and Nanoengineering, 2016, 2, 16036.	3.4	6
10	Dissipation in nanoelectromechanical systems. Physics Reports, 2014, 534, 89-146.	10.3	198
11	A Nanomechanical Fredkin Gate. Nano Letters, 2014, 14, 89-93.	4.5	78
12	CHAPTER 17. Diamond Nano-electromechanical Systems. RSC Nanoscience and Nanotechnology, 2014, , 411-447.	0.2	2
13	Observation of Nonlinear Dissipation in Piezoresistive Diamond Nanomechanical Resonators by Heterodyne Down-Mixing. Nano Letters, 2013, 13, 4014-4019.	4.5	34
14	Nonlinear dissipation in diamond nanoelectromechanical resonators. Applied Physics Letters, 2013, 102, .	1.5	43
15	Tunable nanowire Wheatstone bridge for improved sensitivity in molecular recognition. Applied Physics Letters, 2013, 102, .	1.5	7
16	Energy measurement in nonlinearly coupled nanomechanical modes. Applied Physics Letters, 2011, 98, 264106.	1.5	12
17	Anharmonic modal coupling in a bulk micromechanical resonator. Applied Physics Letters, 2010, 97, 123109.	1.5	13
18	Nanoelectronic detection of breast cancer biomarker. Applied Physics Letters, 2010, 97, 233702.	1.5	11

#	ARTICLE	IF	CITATIONS
19	Evidence of universality in the dynamical response of micromechanical diamond resonators at millikelvin temperatures. <i>Physical Review B</i> , 2009, 79, .	1.1	31
20	Nanoelectromechanical system-integrated detector with silicon nanomechanical resonator and silicon nanochannel field effect transistor. <i>Journal of Applied Physics</i> , 2009, 105, 094308.	1.1	2
21	Signal Amplification by $1/f$ Noise in Silicon-Based Nanomechanical Resonators. <i>Nano Letters</i> , 2009, 9, 3096-3099.	4.5	21
22	Quantum Nanomechanics. <i>Understanding Complex Systems</i> , 2009, , 25-36.	0.3	0
23	Surface-modified silicon nano-channel for urea sensing. <i>Sensors and Actuators B: Chemical</i> , 2008, 133, 593-598.	4.0	32
24	Nanomechanical detection of itinerant electron spin flip. <i>Nature Nanotechnology</i> , 2008, 3, 720-723.	15.6	81
25	Electrostatically actuated silicon-based nanomechanical switch at room temperature. <i>Applied Physics Letters</i> , 2008, 93, .	1.5	47
26	Silicon-based nanochannel glucose sensor. <i>Applied Physics Letters</i> , 2008, 92, 013903.	1.5	48
27	Measurement of Aharonov-Bohm oscillations in mesoscopic metallic rings in the presence of a high-frequency electromagnetic field. <i>Physical Review B</i> , 2008, 77, .	1.1	2
28	Scaling of dissipation in megahertz-range micromechanical diamond oscillators. <i>Applied Physics Letters</i> , 2007, 90, 173502.	1.5	42
29	Nanoscale field effect transistor for biomolecular signal amplification. <i>Applied Physics Letters</i> , 2007, 91, 243511.	1.5	16
30	Synchronized Oscillation in Coupled Nanomechanical Oscillators. <i>Science</i> , 2007, 316, 95-99.	6.0	222
31	High quality factor gigahertz frequencies in nanomechanical diamond resonators. <i>Applied Physics Letters</i> , 2007, 91, .	1.5	79
32	Micromechanical resonators fabricated from lattice-matched and etch-selective GaAs $\hat{=}$ InGaP $\hat{=}$ GaAs heterostructures. <i>Applied Physics Letters</i> , 2007, 91, 133505.	1.5	19
33	Electron coherence at low temperatures: The role of magnetic impurities. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2007, 40, 12-24.	1.3	24
34	Silicon-based nanoelectronic field-effect pH sensor with local gate control. <i>Applied Physics Letters</i> , 2006, 89, 223512.	1.5	103
35	Dynamical Response of Nanomechanical Oscillators in Immiscible Viscous Fluid for In Vitro Biomolecular Recognition. <i>Physical Review Letters</i> , 2006, 96, 186105.	2.9	59
36	Coherent signal amplification in bistable nanomechanical oscillators by stochastic resonance. <i>Nature</i> , 2005, 437, 995-998.	13.7	254

#	ARTICLE	IF	CITATIONS
37	Quantum friction in nanomechanical oscillators at millikelvin temperatures. Physical Review B, 2005, 72, .	1.1	51
38	Temperature dependence of a nanomechanical switch. Applied Physics Letters, 2005, 86, 023106.	1.5	25
39	Spectral response of a gigahertz-range nanomechanical oscillator. Applied Physics Letters, 2005, 86, 254103.	1.5	24
40	Evidence for Quantized Displacement in Macroscopic Nanomechanical Oscillators. Physical Review Letters, 2005, 94, 030402.	2.9	94
41	A controllable nanomechanical memory element. Applied Physics Letters, 2004, 85, 3587-3589.	1.5	136
42	Quantum Friction of Micromechanical Resonators at Low Temperatures. Physical Review Letters, 2003, 90, 085504.	2.9	29
43	Anomalous Conductance Distribution in Quasi-One-Dimensional Gold Wires: Possible Violation of the One-Parameter Scaling Hypothesis. Physical Review Letters, 2002, 88, 146601.	2.9	35
44	Dephasing of electrons by two-level defects in quantum dots. Physical Review B, 2001, 63, .	1.1	6
45	Notes on decoherence at absolute zero. Physica B: Condensed Matter, 2000, 280, 446-452.	1.3	26
46	Measurement of small forces in micron-sized resonators. Physica B: Condensed Matter, 2000, 284-288, 2143-2144.	1.3	23
47	Energy dissipation in suspended micromechanical resonators at low temperatures. Physica B: Condensed Matter, 2000, 284-288, 2145-2146.	1.3	36