

Alexander Eichler

List of Publications by Year in descending order

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Version: 2024-02-01

31
papers

2,910
citations

361388

20
h-index

454934

30
g-index

31
all docs

31
docs citations

31
times ranked

2959
citing authors

#	ARTICLE	IF	CITATIONS
1	Ising machines with strong bilinear coupling. <i>Physical Review Research</i> , 2022, 4, .	3.6	9
2	Strong Parametric Coupling between Two Ultracoherent Membrane Modes. <i>Physical Review Letters</i> , 2022, 128, 094301.	7.8	10
3	Membrane-Based Scanning Force Microscopy. <i>Physical Review Applied</i> , 2021, 15, .	3.8	38
4	Spatial Correlation between Fluctuating and Static Fields over Metal and Dielectric Substrates. <i>Physical Review Letters</i> , 2021, 127, 216101.	7.8	12
5	Spin Detection via Parametric Frequency Conversion in a Membrane Resonator. <i>Physical Review Applied</i> , 2020, 14, .	3.8	14
6	Magnetic Resonance Force Microscopy with a One-Dimensional Resolution of 0.9 Nanometers. <i>Nano Letters</i> , 2019, 19, 7935-7940.	9.1	27
7	Gate-controlled phase switching in a parametron. <i>Physical Review E</i> , 2019, 99, 062205.	2.1	7
8	Classical Many-Body Time Crystals. <i>Physical Review Letters</i> , 2019, 123, 124301.	7.8	46
9	GHz nanomechanical resonator in an ultraclean suspended graphene p-n junction. <i>Nanoscale</i> , 2019, 11, 4355-4361.	5.6	34
10	Rapid Flipping of Parametric Phase States. <i>Physical Review Letters</i> , 2019, 123, 254102.	7.8	10
11	Nanoladder Cantilevers Made from Diamond and Silicon. <i>Nano Letters</i> , 2018, 18, 1814-1818.	9.1	31
12	Little is lost. <i>Science</i> , 2018, 360, 706-707.	12.6	2
13	A parametric symmetry breaking transducer. <i>Applied Physics Letters</i> , 2018, 112, .	3.3	16
14	Nanoscale Imaging of Current Density with a Single-Spin Magnetometer. <i>Nano Letters</i> , 2017, 17, 2367-2373.	9.1	69
15	Ultrasensitive mechanical detection of magnetic moment using a commercial disk drive write head. <i>Nature Communications</i> , 2016, 7, 12714.	12.8	31
16	Ultrasensitive hysteretic force sensing with parametric nonlinear oscillators. <i>Physical Review E</i> , 2016, 94, 022201.	2.1	33
17	Parametric Symmetry Breaking in a Nonlinear Resonator. <i>Physical Review Letters</i> , 2016, 117, 214101.	7.8	33
18	Accelerated nanoscale magnetic resonance imaging through phase multiplexing. <i>Applied Physics Letters</i> , 2015, 106, .	3.3	11

#	ARTICLE	IF	CITATIONS
19	Nanotube mechanical resonators with quality factors of up to 5 million. Nature Nanotechnology, 2014, 9, 1007-1011.	31.5	190
20	Atomic Monolayer Deposition on the Surface of Nanotube Mechanical Resonators. Physical Review Letters, 2014, 112, 196103.	7.8	21
21	Symmetry breaking in a mechanical resonator made from a carbon nanotube. Nature Communications, 2013, 4, 2843.	12.8	47
22	Ultrasensitive force detection with a nanotube mechanical resonator. Nature Nanotechnology, 2013, 8, 493-496.	31.5	327
23	Nanomechanical resonators based on nanotubes and graphene. , 2013, , .		0
24	A nanomechanical mass sensor with yoctogram resolution. Nature Nanotechnology, 2012, 7, 301-304.	31.5	855
25	Strong Coupling between Mechanical Modes in a Nanotube Resonator. Physical Review Letters, 2012, 109, 025503.	7.8	104
26	Gate-tunable split Kondo effect in a carbon nanotube quantum dot. Nanotechnology, 2011, 22, 265204.	2.6	8
27	Parametric Amplification and Self-Oscillation in a Nanotube Mechanical Resonator. Nano Letters, 2011, 11, 2699-2703.	9.1	96
28	Nonlinear damping in mechanical resonators made from carbon nanotubes and graphene. Nature Nanotechnology, 2011, 6, 339-342.	31.5	555
29	Permalloy-based carbon nanotube spin-valve. Applied Physics Letters, 2010, 97, .	3.3	41
30	Tuning the Josephson current in carbon nanotubes with the Kondo effect. Physical Review B, 2009, 79, .	3.2	106
31	Even-Odd Effect in Andreev Transport through a Carbon Nanotube Quantum Dot. Physical Review Letters, 2007, 99, 126602.	7.8	127