

Nils J Engelsen

List of Publications by Year in descending order

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Version: 2024-02-01

28
papers

1,318
citations

686830

13
h-index

1058022

14
g-index

28
all docs

28
docs citations

28
times ranked

1506
citing authors

#	ARTICLE	IF	CITATIONS
1	Strained crystalline nanomechanical resonators with quality factors above 10 billion. Nature Physics, 2022, 18, 436-441.	6.5	31
2	Perimeter Modes of Nanomechanical Resonators Exhibit Quality Factors Exceeding 10^9 at Room Temperature. Physical Review X, 2022, 12, .	2.8	16
3	Hierarchical tensile structures with ultralow mechanical dissipation. Nature Communications, 2022, 13, .	5.8	21
4	High-yield, wafer-scale fabrication of ultralow-loss, dispersion-engineered silicon nitride photonic circuits. , 2021, , .		3
5	High-yield, wafer-scale fabrication of ultralow-loss, dispersion-engineered silicon nitride photonic circuits. Nature Communications, 2021, 12, 2236.	5.8	157
6	Ultra-High-Q Nanomechanics Through Dissipation Dilution: Trends and Perspectives. , 2021, , .		0
7	High-yield, wafer-scale fabrication of ultralow-loss, dispersion-engineered silicon nitride photonic circuits. , 2021, , .		1
8	A High Cooperativity Silicon Nitride Optomechanical Transducer. , 2021, , .		0
9	A high-cooperativity, nano-optomechanical system comprised of high stress Si ₃ N ₄ . , 2021, , .		0
10	Fractal-like Mechanical Resonators with a Soft-Clamped Fundamental Mode. Physical Review Letters, 2020, 124, 025502.	2.9	31
11	Wafer-scale fabrication of ultralow-loss silicon nitride nonlinear photonic circuits. , 2020, , .		1
12	Thermal intermodulation noise in cavity-based measurements. Optica, 2020, 7, 1609.	4.8	15
13	Thermorefractive noise in silicon-nitride microresonators. Physical Review A, 2019, 99, .	1.0	74
14	Generalized dissipation dilution in strained mechanical resonators. Physical Review B, 2019, 99, .	1.1	47
15	Clamp-Tapering Increases the Quality Factor of Stressed Nanobeams. Nano Letters, 2019, 19, 2329-2333.	4.5	25
16	Ultralow-power chip-based soliton microcombs for photonic integration. , 2019, , .		0
17	Photonic Integrated K-Band Microwave Oscillator Based on Silicon Nitride Soliton Microcomb. , 2019, , .		0
18	Ultra-low dissipation mechanical resonators for cavity optomechanics. , 2019, , .		0

#	ARTICLE	IF	CITATIONS
19	Thermo-refractive noise in silicon nitride microresonators. , 2019, , .		1
20	Ultralow Dissipation Mechanical Resonators for Quantum Optomechanics. , 2019, , .		0
21	Elastic strain engineering for ultralow mechanical dissipation. Science, 2018, 360, 764-768.	6.0	219
22	Ultralow-power chip-based soliton microcombs for photonic integration. Optica, 2018, 5, 1347.	4.8	143
23	Ultralow-Power Photonic Chip-Based Soliton Frequency Combs. , 2018, , .		0
24	Elastic Strain Engineering for Ultralow Mechanical Dissipation. , 2018, , .		0
25	Bell Correlations in Spin-Squeezed States of 500 000 Atoms. Physical Review Letters, 2017, 118, 140401.	2.9	49
26	Quantum phase magnification. Science, 2016, 352, 1552-1555.	6.0	135
27	Measurement noise 100 times lower than the quantum-projection limit using entangled atoms. Nature, 2016, 529, 505-508.	13.7	348
28	Engineering Spin-Squeezed States for Quantum-Enhanced Atom Interferometry. , 2016, , .		1