

Dirk Bouwmeester

List of Publications by Year in descending order

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63
papers

2,845
citations

304743

22
h-index

168389

53
g-index

65
all docs

65
docs citations

65
times ranked

2892
citing authors

#	ARTICLE	IF	CITATIONS
1	Sub-kelvin optical cooling of a micromechanical resonator. <i>Nature</i> , 2006, 444, 75-78.	27.8	582
2	High-frequency single-photon source with polarization control. <i>Nature Photonics</i> , 2007, 1, 704-708.	31.4	344
3	CNOT and Bell-state analysis in the weak-coupling cavity QED regime. <i>Physical Review Letters</i> , 2010, 104, 160503.	7.8	252
4	Evidence for Rod-shaped DNA-stabilized Silver Nanocluster Emitters. <i>Advanced Materials</i> , 2013, 25, 2797-2803.	21.0	173
5	Linked and knotted beams of light. <i>Nature Physics</i> , 2008, 4, 716-720.	16.7	158
6	Dynamic modulation of photonic crystal nanocavities using gigahertz acoustic phonons. <i>Nature Photonics</i> , 2011, 5, 605-609.	31.4	140
7	Creating and verifying a quantum superposition in a micro-optomechanical system. <i>New Journal of Physics</i> , 2008, 10, 095020.	2.9	116
8	Strong coupling through optical positioning of a quantum dot in a photonic crystal cavity. <i>Applied Physics Letters</i> , 2009, 94, .	3.3	112
9	Optomechanical Superpositions via Nested Interferometry. <i>Physical Review Letters</i> , 2012, 109, 023601.	7.8	99
10	Optomechanical trampoline resonators. <i>Optics Express</i> , 2011, 19, 19708.	3.4	67
11	High Finesse Opto-Mechanical Cavity with a Movable Thirty-Micron-Size Mirror. <i>Physical Review Letters</i> , 2006, 96, 173901.	7.8	60
12	Strong Coupling between Single Photons in Semiconductor Microcavities. <i>Physical Review Letters</i> , 2006, 96, 057405.	7.8	58
13	Coherent optomechanical state transfer between disparate mechanical resonators. <i>Nature Communications</i> , 2017, 8, 824.	12.8	56
14	Diffraction-limited high-finesse optical cavities. <i>Physical Review A</i> , 2010, 81, .	2.5	48
15	Dual-Color Nanoscale Assemblies of Structurally Stable, Few-Atom Silver Clusters, As Reported by Fluorescence Resonance Energy Transfer. <i>ACS Nano</i> , 2013, 7, 9798-9807.	14.6	42
16	Spectral Properties of Individual DNA-Hosted Silver Nanoclusters at Low Temperatures. <i>Journal of Physical Chemistry C</i> , 2012, 116, 25568-25575.	3.1	35
17	Fano resonances in a multimode waveguide coupled to a high-Q silicon nitride ring resonator. <i>Optics Express</i> , 2014, 22, 6778.	3.4	31
18	H1 photonic crystal cavities for hybrid quantum information protocols. <i>Optics Express</i> , 2012, 20, 24714.	3.4	30

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19	Multidimensional Purcell effect in an ytterbium-doped ring resonator. <i>Nature Photonics</i> , 2016, 10, 385-388.	31.4	29
20	Classification of electromagnetic and gravitational hopfions by algebraic type. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2015, 48, 205202.	2.1	28
21	Vibration isolation with high thermal conductance for a cryogen-free dilution refrigerator. <i>Review of Scientific Instruments</i> , 2019, 90, 015112.	1.3	26
22	Tuning micropillar cavity birefringence by laser induced surface defects. <i>Applied Physics Letters</i> , 2009, 95, .	3.3	25
23	Resilience of multiphoton entanglement under losses. <i>Physical Review A</i> , 2004, 70, .	2.5	22
24	Strain tuning of quantum dot optical transitions via laser-induced surface defects. <i>Physical Review B</i> , 2011, 84, .	3.2	20
25	Polychromatic Photonic Quasicrystal Cavities. <i>Physical Review Letters</i> , 2010, 104, 243901.	7.8	18
26	Independent tuning of quantum dots in a photonic crystal cavity. <i>Applied Physics Letters</i> , 2009, 95, .	3.3	17
27	Permanent tuning of quantum dot transitions to degenerate microcavity resonances. <i>Applied Physics Letters</i> , 2011, 98, 121111.	3.3	17
28	Polarization Resolved Measurements of Individual DNA-stabilized Silver Clusters. <i>Advanced Optical Materials</i> , 2014, 2, 765-770.	7.3	16
29	Fiber-connectorized micropillar cavities. <i>Applied Physics Letters</i> , 2010, 97, .	3.3	15
30	Linked and knotted gravitational radiation. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2014, 47, 355205.	2.1	15
31	Fluorescence-tunable Ag-DNA biosensor with tailored cytotoxicity for live-cell applications. <i>Scientific Reports</i> , 2016, 6, 37897.	3.3	14
32	Knotted optical vortices in exact solutions to Maxwell's equations. <i>Physical Review A</i> , 2017, 95, .	2.5	14
33	Constructing a class of topological solitons in magnetohydrodynamics. <i>Physical Review E</i> , 2014, 89, 043104.	2.1	13
34	Polarization degenerate solid-state cavity quantum electrodynamics. <i>Physical Review B</i> , 2015, 91, .	3.2	13
35	Homodyne detection of coherence and phase shift of a quantum dot in a cavity. <i>Optics Letters</i> , 2015, 40, 3173.	3.3	13
36	Stimulated Raman Adiabatic Passage in Optomechanics. <i>Physical Review Letters</i> , 2021, 126, 113601.	7.8	13

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37	Polarization degenerate micropillars fabricated by designing elliptical oxide apertures. Applied Physics Letters, 2014, 104, 151109.	3.3	11
38	Strong thermomechanical squeezing in a far-detuned membrane-in-the-middle system. Physical Review A, 2018, 98, .	2.5	11
39	Macroscopic superpositions via nested interferometry: finite temperature and decoherence considerations. New Journal of Physics, 2012, 14, 115025.	2.9	10
40	Optical modes in oxide-apertured micropillar cavities. Optics Letters, 2012, 37, 4678.	3.3	9
41	Electrically pumped quantum post vertical cavity surface emitting lasers. Applied Physics Letters, 2009, 94, .	3.3	8
42	Nonclassical States of Light and Mechanics. , 2014, , 25-56.		8
43	Effect of a nanoparticle on the optical properties of a photonic crystal cavity: theory and experiment. Journal of the Optical Society of America B: Optical Physics, 2012, 29, 698.	2.1	7
44	Quantum dot nonlinearity through cavity-enhanced feedback with a charge memory. Physical Review B, 2015, 91, .	3.2	7
45	Far-field emission profiles from L3 photonic crystal cavity modes. Photonics and Nanostructures - Fundamentals and Applications, 2013, 11, 37-47.	2.0	6
46	Ideal relaxation of the Hopf fibration. Physics of Plasmas, 2017, 24, 072110.	1.9	6
47	Measuring DNA hybridization using fluorescent DNA-stabilized silver clusters to investigate mismatch effects on therapeutic oligonucleotides. Journal of Nanobiotechnology, 2018, 16, 37.	9.1	5
48	Probing interacting two-level systems with rare-earth ions. Physical Review B, 2020, 101, .	3.2	4
49	Optimal optomechanical coupling strength in multimembrane systems. Physical Review A, 2020, 101, .	2.5	4
50	Fine tuning of micropillar cavity modes through repetitive oxidations. Optics Letters, 2013, 38, 3308.	3.3	3
51	Monitoring the formation of oxide apertures in micropillar cavities. Applied Physics Letters, 2013, 102, 101109.	3.3	2
52	Sub-kelvin optical cooling of a micromechanical resonator. , 2007, , .		2
53	Realignment-free cryogenic macroscopic optical cavity coupled to an optical fiber. Review of Scientific Instruments, 2022, 93, 013103.	1.3	2
54	High quality optical cavity with a tiny mirror on an AFM cantilever. , 2006, , .		0

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55	High frequency single photon sources. , 2008, , .		0
56	Acousto-mechanical tuning of photonic crystal nanocavity modes. , 2013, , .		0
57	Time domain investigation of radio frequency acousto-mechanical tuning of photonic crystal nanocavity modes. , 2013, , .		0
58	The quantum nondemolition derby. Science, 2014, 344, 1224-1226.	12.6	0
59	Experimental phase detection at the quantum limit with coherent state interferometry. , 2008, , .		0
60	Solid-state cavity-QED in polarization-degenerate micropillar cavities. , 2011, , .		0
61	Monitoring the formation of oxide apertures in micropillar cavities. , 2013, , .		0
62	Monitoring the formation of oxide apertures in micropillar cavities. , 2013, , .		0
63	Towards Macroscopic Superpositions via Single-photon Optomechanics. , 2014, , 65-85.		0