

Dirk Bouwmeester

List of Publications by Year in descending order

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63
papers

2,845
citations

304368

22
h-index

168136

53
g-index

65
all docs

65
docs citations

65
times ranked

2892
citing authors

#	ARTICLE	IF	CITATIONS
1	Realignment-free cryogenic macroscopic optical cavity coupled to an optical fiber. Review of Scientific Instruments, 2022, 93, 013103.	0.6	2
2	Stimulated Raman Adiabatic Passage in Optomechanics. Physical Review Letters, 2021, 126, 113601.	2.9	13
3	Probing interacting two-level systems with rare-earth ions. Physical Review B, 2020, 101, .	1.1	4
4	Optimal optomechanical coupling strength in multimembrane systems. Physical Review A, 2020, 101, .	1.0	4
5	Vibration isolation with high thermal conductance for a cryogen-free dilution refrigerator. Review of Scientific Instruments, 2019, 90, 015112.	0.6	26
6	Measuring DNA hybridization using fluorescent DNA-stabilized silver clusters to investigate mismatch effects on therapeutic oligonucleotides. Journal of Nanobiotechnology, 2018, 16, 37.	4.2	5
7	Strong thermomechanical squeezing in a far-detuned membrane-in-the-middle system. Physical Review A, 2018, 98, .	1.0	11
8	Coherent optomechanical state transfer between disparate mechanical resonators. Nature Communications, 2017, 8, 824.	5.8	56
9	Ideal relaxation of the Hopf fibration. Physics of Plasmas, 2017, 24, 072110.	0.7	6
10	Knotted optical vortices in exact solutions to Maxwell's equations. Physical Review A, 2017, 95, .	1.0	14
11	Fluorescence-tunable Ag-DNA biosensor with tailored cytotoxicity for live-cell applications. Scientific Reports, 2016, 6, 37897.	1.6	14
12	Multidimensional Purcell effect in an ytterbium-doped ring resonator. Nature Photonics, 2016, 10, 385-388.	15.6	29
13	Polarization degenerate solid-state cavity quantum electrodynamics. Physical Review B, 2015, 91, .	1.1	13
14	Quantum dot nonlinearity through cavity-enhanced feedback with a charge memory. Physical Review B, 2015, 91, .	1.1	7
15	Classification of electromagnetic and gravitational hopfions by algebraic type. Journal of Physics A: Mathematical and Theoretical, 2015, 48, 205202.	0.7	28
16	Homodyne detection of coherence and phase shift of a quantum dot in a cavity. Optics Letters, 2015, 40, 3173.	1.7	13
17	Nonclassical States of Light and Mechanics. , 2014, , 25-56.		8
18	Fano resonances in a multimode waveguide coupled to a high-Q silicon nitride ring resonator. Optics Express, 2014, 22, 6778.	1.7	31

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19	Polarization degenerate micropillars fabricated by designing elliptical oxide apertures. Applied Physics Letters, 2014, 104, 151109.	1.5	11
20	Constructing a class of topological solitons in magnetohydrodynamics. Physical Review E, 2014, 89, 043104.	0.8	13
21	Linked and knotted gravitational radiation. Journal of Physics A: Mathematical and Theoretical, 2014, 47, 355205.	0.7	15
22	Polarization Resolved Measurements of Individual DNA-stabilized Silver Clusters. Advanced Optical Materials, 2014, 2, 765-770.	3.6	16
23	The quantum nondemolition derby. Science, 2014, 344, 1224-1226.	6.0	0
24	Towards Macroscopic Superpositions via Single-photon Optomechanics. , 2014, , 65-85.		0
25	Dual-Color Nanoscale Assemblies of Structurally Stable, Few-Atom Silver Clusters, As Reported by Fluorescence Resonance Energy Transfer. ACS Nano, 2013, 7, 9798-9807.	7.3	42
26	Far-field emission profiles from L3 photonic crystal cavity modes. Photonics and Nanostructures - Fundamentals and Applications, 2013, 11, 37-47.	1.0	6
27	Evidence for Rod-shaped DNA-stabilized Silver Nanocluster Emitters. Advanced Materials, 2013, 25, 2797-2803.	11.1	173
28	Monitoring the formation of oxide apertures in micropillar cavities. Applied Physics Letters, 2013, 102, 101109.	1.5	2
29	Fine tuning of micropillar cavity modes through repetitive oxidations. Optics Letters, 2013, 38, 3308.	1.7	3
30	Acousto-mechanical tuning of photonic crystal nanocavity modes. , 2013, , .		0
31	Time domain investigation of radio frequency acousto-mechanical tuning of photonic crystal nanocavity modes. , 2013, , .		0
32	Monitoring the formation of oxide apertures in micropillar cavities. , 2013, , .		0
33	Monitoring the formation of oxide apertures in micropillar cavities. , 2013, , .		0
34	Macroscopic superpositions via nested interferometry: finite temperature and decoherence considerations. New Journal of Physics, 2012, 14, 115025.	1.2	10
35	Optical modes in oxide-apertured micropillar cavities. Optics Letters, 2012, 37, 4678.	1.7	9
36	H1 photonic crystal cavities for hybrid quantum information protocols. Optics Express, 2012, 20, 24714.	1.7	30

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37	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.	0.9	7
38	Spectral Properties of Individual DNA-Hosted Silver Nanoclusters at Low Temperatures. Journal of Physical Chemistry C, 2012, 116, 25568-25575.	1.5	35
39	Optomechanical Superpositions via Nested Interferometry. Physical Review Letters, 2012, 109, 023601.	2.9	99
40	Strain tuning of quantum dot optical transitions via laser-induced surface defects. Physical Review B, 2011, 84, .	1.1	20
41	Optomechanical trampoline resonators. Optics Express, 2011, 19, 19708.	1.7	67
42	Dynamic modulation of photonic crystal nanocavities using gigahertz acoustic phonons. Nature Photonics, 2011, 5, 605-609.	15.6	140
43	Permanent tuning of quantum dot transitions to degenerate microcavity resonances. Applied Physics Letters, 2011, 98, 121111.	1.5	17
44	Solid-state cavity-QED in polarization-degenerate micropillar cavities. , 2011, , .		0
45	Diffraction-limited high-finesse optical cavities. Physical Review A, 2010, 81, .	1.0	48
46	Polychromatic Photonic Quasicrystal Cavities. Physical Review Letters, 2010, 104, 243901.	2.9	18
47	Fiber-connectorized micropillar cavities. Applied Physics Letters, 2010, 97, .	1.5	15
48	CNOT and Bell-state analysis in the weak-coupling cavity QED regime. Physical Review Letters, 2010, 104, 160503.	2.9	252
49	Electrically pumped quantum post vertical cavity surface emitting lasers. Applied Physics Letters, 2009, 94, .	1.5	8
50	Tuning micropillar cavity birefringence by laser induced surface defects. Applied Physics Letters, 2009, 95, .	1.5	25
51	Independent tuning of quantum dots in a photonic crystal cavity. Applied Physics Letters, 2009, 95, .	1.5	17
52	Strong coupling through optical positioning of a quantum dot in a photonic crystal cavity. Applied Physics Letters, 2009, 94, .	1.5	112
53	Linked and knotted beams of light. Nature Physics, 2008, 4, 716-720.	6.5	158
54	Creating and verifying a quantum superposition in a micro-optomechanical system. New Journal of Physics, 2008, 10, 095020.	1.2	116

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55	High frequency single photon sources. , 2008, , .		0
56	Experimental phase detection at the quantum limit with coherent state interferometry. , 2008, , .		0
57	High-frequency single-photon source with polarization control. Nature Photonics, 2007, 1, 704-708.	15.6	344
58	Sub-kelvin optical cooling of a micromechanical resonator. , 2007, , .		2
59	Sub-kelvin optical cooling of a micromechanical resonator. Nature, 2006, 444, 75-78.	13.7	582
60	Strong Coupling between Single Photons in Semiconductor Microcavities. Physical Review Letters, 2006, 96, 057405.	2.9	58
61	High Finesse Opto-Mechanical Cavity with a Movable Thirty-Micron-Size Mirror. Physical Review Letters, 2006, 96, 173901.	2.9	60
62	High quality optical cavity with a tiny mirror on an AFM cantilever. , 2006, , .		0
63	Resilience of multiphoton entanglement under losses. Physical Review A, 2004, 70, .	1.0	22