

Rainer Kaltenbaek

List of Publications by Year in descending order

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Version: 2024-02-01

47
papers

2,923
citations

279798

23
h-index

315739

38
g-index

49
all docs

49
docs citations

49
times ranked

2413
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantum physics in space. <i>Physics Reports</i> , 2022, 951, 1-70.	25.6	38
2	Feasibility considerations for free-fall tests of gravitational decoherence. <i>AVS Quantum Science</i> , 2022, 4, 015604.	4.9	2
3	Single-shot Stern-Gerlach magnetic gradiometer with an expanding cloud of cold cesium atoms. <i>Physical Review A</i> , 2021, 103, .	2.5	5
4	Quantum technologies in space. <i>Experimental Astronomy</i> , 2021, 51, 1677-1694.	3.7	23
5	Testing the foundation of quantum physics in space via Interferometric and non-interferometric experiments with mesoscopic nanoparticles. <i>Communications Physics</i> , 2021, 4, .	5.3	28
6	Talbot-Lau effect beyond the point-particle approximation. <i>Physical Review A</i> , 2019, 100, .	2.5	15
7	Space QUEST mission proposal: experimentally testing decoherence due to gravity. <i>New Journal of Physics</i> , 2018, 20, 063016.	2.9	36
8	Macroscopic Quantum Resonators (MAQRO): 2015 update. <i>EPJ Quantum Technology</i> , 2016, 3, .	6.3	77
9	Thermal performance of a radiatively cooled system for quantum optomechanical experiments in space. <i>Applied Thermal Engineering</i> , 2016, 107, 689-699.	6.0	15
10	How cold can you get in space? Quantum physics at cryogenic temperatures in space. <i>New Journal of Physics</i> , 2014, 16, 013058.	2.9	13
11	Testing quantum physics in space using optically trapped nanospheres. <i>Proceedings of SPIE</i> , 2013, , .	0.8	5
12	Cavity cooling of an optically levitated submicron particle. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 14180-14185.	7.1	264
13	Dispersion-cancelled biological imaging with quantum-inspired interferometry. <i>Scientific Reports</i> , 2013, 3, 1582.	3.3	32
14	Optomechanical Schrödinger cats – a case for space. , 2013, , 123-132.		1
15	Optimal linear optical implementation of a single-qubit damping channel. <i>New Journal of Physics</i> , 2012, 14, 033016.	2.9	26
16	Macroscopic quantum resonators (MAQRO). <i>Experimental Astronomy</i> , 2012, 34, 123-164.	3.7	74
17	Large Quantum Superpositions and Interference of Massive Nanometer-Sized Objects. <i>Physical Review Letters</i> , 2011, 107, 020405.	7.8	373
18	Entanglement-Enhanced Classical Communication Over a Noisy Classical Channel. <i>Physical Review Letters</i> , 2011, 106, 110505.	7.8	28

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19	Linear-optics realization of channels for single-photon multimode qudits. <i>Physical Review A</i> , 2011, 84, .	2.5	17
20	Creating multiphoton-polarization bound entangled states. <i>Physical Review A</i> , 2011, 83, .	2.5	3
21	Chirped-pulse interferometry for dispersion-cancelled OCT. , 2011, , .		0
22	Entanglement-enhanced classical communication over a noisy classical channel. , 2011, , .		1
23	Macroscopic quantum resonators in space. , 2011, , .		3
24	Photon triplets and bound entanglement. , 2011, , .		0
25	Linear-Optics Realization of Channels for Single-Photon Multimode Qudits. , 2011, , .		1
26	Minimum-error discrimination of entangled quantum states. <i>Physical Review A</i> , 2010, 82, .	2.5	14
27	Optical one-way quantum computing with a simulated valence-bond solid. <i>Nature Physics</i> , 2010, 6, 850-854.	16.7	57
28	Experimental bound entanglement?. <i>Nature Physics</i> , 2010, 6, 827-827.	16.7	13
29	Experimental Bound Entanglement in a Four-Photon State. <i>Physical Review Letters</i> , 2010, 105, 130501.	7.8	67
30	Derivation and experimental test of fidelity benchmarks for remote preparation of arbitrary qubit states. <i>Physical Review A</i> , 2010, 81, .	2.5	43
31	High-fidelity entanglement swapping with fully independent sources. <i>Physical Review A</i> , 2009, 79, .	2.5	77
32	Classical Analogues of Two-Photon Quantum Interference. <i>Physical Review Letters</i> , 2009, 102, 243601.	7.8	40
33	Cluster-State Quantum Computing Enhanced by High-Fidelity Generalized Measurements. <i>Physical Review Letters</i> , 2009, 103, 240504.	7.8	31
34	Experimental violation of Svetlichny's inequality. <i>New Journal of Physics</i> , 2009, 11, 073051.	2.9	109
35	Quantum-optical coherence tomography with classical light. <i>Optics Express</i> , 2009, 17, 3818.	3.4	51
36	Optical implementation of a unitarily correctable code. <i>Physical Review A</i> , 2009, 80, .	2.5	4

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37	Chirped-pulse interferometry with finite frequency correlations. , 2009, , .		7
38	Quantum-inspired interferometry with chirped laser pulses. Nature Physics, 2008, 4, 864-868.	16.7	82
39	Implementation of Quantum Algorithms using Optical Cluster State. , 2007, , .		0
40	High-speed linear optics quantum computing using active feed-forward. Nature, 2007, 445, 65-69.	27.8	300
41	An experimental test of non-local realism. Nature, 2007, 446, 871-875.	27.8	305
42	Experimental Interference of Independent Photons. Physical Review Letters, 2006, 96, 240502.	7.8	171
43	Quantum communications in space. , 2004, 5161, 240.		7
44	Proof-of-concept experiments for quantum physics in space. , 2004, 5161, 252.		18
45	Quantum teleportation across the Danube. Nature, 2004, 430, 849-849.	27.8	261
46	Measurement and active compensation of polarization drifts in a fiber quantum channel used for teleportation. , 2003, , .		1
47	Long-Distance Free-Space Distribution of Quantum Entanglement. Science, 2003, 301, 621-623.	12.6	177