

Nicolas Sangouard

List of Publications by Year in descending order

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Version: 2024-02-01

35
papers

3,612
citations

394421

19
h-index

454955

30
g-index

35
all docs

35
docs citations

35
times ranked

2766
citing authors

#	ARTICLE	IF	CITATIONS
1	Self-testing two-qubit maximally entangled states from generalized Clauser-Horne-Shimony-Holt tests. <i>Physical Review Research</i> , 2022, 4, .	3.6	1
2	Factoring 2048-bit RSA Integers in 177 Days with 13%436 Qubits and a Multimode Memory. <i>Physical Review Letters</i> , 2021, 127, 140503.	7.8	44
3	Setting Up Experimental Bell Tests with Reinforcement Learning. <i>Physical Review Letters</i> , 2020, 125, 160401.	7.8	20
4	Bipartite nonlocality with a many-body system. <i>New Journal of Physics</i> , 2019, 21, 103043.	2.9	10
5	Demonstration of Device-Independent Certification of a 398 M Link for Future Quantum Networks. , 2019, , .		0
6	A gated quantum dot strongly coupled to an optical microcavity. <i>Nature</i> , 2019, 575, 622-627.	27.8	145
7	Noise-Resistant Device-Independent Certification of Bell State Measurements. <i>Physical Review Letters</i> , 2018, 121, 250506.	7.8	39
8	Certifying the Building Blocks of Quantum Computers from Bell's Theorem. <i>Physical Review Letters</i> , 2018, 121, 180505.	7.8	44
9	Witnessing Optomechanical Entanglement with Photon Counting. <i>Physical Review Letters</i> , 2018, 121, 023602.	7.8	16
10	Two-Color Pump-Probe Measurement of Photonic Quantum Correlations Mediated by a Single Phonon. <i>Physical Review Letters</i> , 2018, 120, 233601.	7.8	41
11	Bell Correlations in a Many-Body System with Finite Statistics. <i>Physical Review Letters</i> , 2017, 119, 170403.	7.8	18
12	Optimal entanglement witnesses in a split spin-squeezed Bose-Einstein condensate. <i>Physical Review A</i> , 2017, 95, .	2.5	7
13	Experimental many-pairs nonlocality. <i>Physical Review A</i> , 2017, 96, .	2.5	4
14	Generation of single photons with highly tunable wave shape from a cold atomic ensemble. <i>Nature Communications</i> , 2016, 7, 13556.	12.8	43
15	Bounding quantum-gravity-inspired decoherence using atom interferometry. <i>Physical Review A</i> , 2016, 94, .	2.5	8
16	Bell correlations in a Bose-Einstein condensate. <i>Science</i> , 2016, 352, 441-444.	12.6	141
17	Heralded amplification of photonic qubits. <i>Optics Express</i> , 2016, 24, 125.	3.4	21
18	Demonstration of Light-Matter Micro-Macro Quantum Correlations. <i>Physical Review Letters</i> , 2016, 116, 190502.	7.8	10

#	ARTICLE	IF	CITATIONS
19	What does it take to detect entanglement with the human eye?. <i>Optica</i> , 2016, 3, 473.	9.3	6
20	Witnessing single-photon entanglement with local homodyne measurements: analytical bounds and robustness to losses. <i>New Journal of Physics</i> , 2014, 16, 103035.	2.9	10
21	How Difficult Is It to Prove the Quantumness of Macroscopic States?. <i>Physical Review Letters</i> , 2014, 113, 090403.	7.8	35
22	Heralded Single-Phonon Preparation, Storage, and Readout in Cavity Optomechanics. <i>Physical Review Letters</i> , 2014, 112, 143602.	7.8	109
23	Prospective applications of optical quantum memories. <i>Journal of Modern Optics</i> , 2013, 60, 1519-1537.	1.3	218
24	Witnessing Trustworthy Single-Photon Entanglement with Local Homodyne Measurements. <i>Physical Review Letters</i> , 2013, 110, 130401.	7.8	54
25	Coupling of an erbium spin ensemble to a superconducting resonator. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2012, 45, 124019.	1.5	30
26	Heralded quantum entanglement between two crystals. <i>Nature Photonics</i> , 2012, 6, 234-237.	31.4	120
27	What are single photons good for?. <i>Journal of Modern Optics</i> , 2012, 59, 1458-1464.	1.3	57
28	Quantum storage of photonic entanglement in a crystal. <i>Nature</i> , 2011, 469, 508-511.	27.8	416
29	Quantum repeaters based on atomic ensembles and linear optics. <i>Reviews of Modern Physics</i> , 2011, 83, 33-80.	45.6	1,412
30	Faithful Entanglement Swapping Based on Sum-Frequency Generation. <i>Physical Review Letters</i> , 2011, 106, 120403.	7.8	45
31	Quantum Repeaters with Photon Pair Sources and Multimode Memories. <i>Physical Review Letters</i> , 2007, 98, 190503.	7.8	447
32	Self-testing with finite statistics enabling the certification of a quantum network link. <i>Quantum - the Open Journal for Quantum Science</i> , 0, 5, 401.	0.0	12
33	How post-selection affects device-independent claims under the fair sampling assumption. <i>Quantum - the Open Journal for Quantum Science</i> , 0, 4, 238.	0.0	8
34	Device-independent characterization of quantum instruments. <i>Quantum - the Open Journal for Quantum Science</i> , 0, 4, 243.	0.0	17
35	What is the minimum CHSH score certifying that a state resembles the singlet?. <i>Quantum - the Open Journal for Quantum Science</i> , 0, 4, 246.	0.0	4