Nicolas Sangouard

List of Publications by Year
in descending order

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	Quantum repeaters based on atomic ensembles and linear optics. Reviews of Modern Physics, 2011, 83, 33-80.	45.6	1,412
2	Quantum Repeaters with Photon Pair Sources and Multimode Memories. Physical Review Letters, 2007, 98, 190503.	7.8	447
3	Quantum storage of photonic entanglement in a crystal. Nature, 2011, 469, 508-511.	27.8	416
4	Prospective applications of optical quantum memories. Journal of Modern Optics, 2013, 60, 1519-1537.	1.3	218
5	A gated quantum dot strongly coupled to an optical microcavity. Nature, 2019, 575, 622-627.	27.8	145
6	Bell correlations in a Bose-Einstein condensate. Science, 2016, 352, 441-444.	12.6	141
7	Heralded quantum entanglement between two crystals. Nature Photonics, 2012, 6, 234-237.	31.4	120
8	Heralded Single-Phonon Preparation, Storage, and Readout in Cavity Optomechanics. Physical Review Letters, 2014, 112, 143602.	7.8	109
9	What are single photons good for?. Journal of Modern Optics, 2012, 59, 1458-1464.	1.3	57
10	Witnessing Trustworthy Single-Photon Entanglement with Local Homodyne Measurements. Physical Review Letters, 2013, 110, 130401.	7.8	54
11	Faithful Entanglement Swapping Based on Sum-Frequency Generation. Physical Review Letters, 2011, 106, 120403.	7.8	45
12	Certifying the Building Blocks of Quantum Computers from Bellâ€™s Theorem. Physical Review Letters, 2018, 121, 180505.	7.8	44
13	Factoring 2048-bit RSA Integers in 177 Days with 13â€‰436 Qubits and a Multimode Memory. Physical Review Letters, 2021, 127, 140503.	7.8	44
14	Generation of single photons with highly tunable wave shape from a cold atomic ensemble. Nature Communications, 2016, 7, 13556.	12.8	43
15	Two-Color Pump-Probe Measurement of Photonic Quantum Correlations Mediated by a Single Phonon. Physical Review Letters, 2018, 120, 233601.	7.8	41
16	Noise-Resistant Device-Independent Certification of Bell State Measurements. Physical Review Letters, 2018, 121, 250506.	7.8	39
17	How Difficult Is It to Prove the Quantumness of Macroscopic States?. Physical Review Letters, 2014, 113, 090403.	7.8	35
18	Coupling of an erbium spin ensemble to a superconducting resonator. Journal of Physics B: Atomic, Molecular and Optical Physics, 2012, 45, 124019.	1.5	30

#	Article	IF	Citations
19	Heralded amplification of photonic qubits. Optics Express, 2016, 24, 125.	3.4	21
20	Setting Up Experimental Bell Tests with Reinforcement Learning. Physical Review Letters, 2020, 125, 160401.	7.8	20
21	Bell Correlations in a Many-Body System with Finite Statistics. Physical Review Letters, 2017, 119, 170403.	7.8	18
22	Device-independent characterization of quantum instruments. Quantum - the Open Journal for Quantum Science, 0, 4, 243.	0.0	17
23	Witnessing Optomechanical Entanglement with Photon Counting. Physical Review Letters, 2018, 121, 023602.	7.8	16
24	Self-testing with finite statistics enabling the certification of a quantum network link. Quantum - the Open Journal for Quantum Science, 0, 5, 401.	0.0	12
25	Witnessing single-photon entanglement with local homodyne measurements: analytical bounds and robustness to losses. New Journal of Physics, 2014, 16, 103035.	2.9	10
26	Demonstration of Light-Matter Micro-Macro Quantum Correlations. Physical Review Letters, 2016, 116, 190502.	7.8	10
27	Bipartite nonlocality with a many-body system. New Journal of Physics, 2019, 21, 103043.	2.9	10
28	Bounding quantum-gravity-inspired decoherence using atom interferometry. Physical Review A, 2016, 94, .	2.5	8
29	How post-selection affects device-independent claims under the fair sampling assumption. Quantum - the Open Journal for Quantum Science, 0, 4, 238.	0.0	8
30	Optimal entanglement witnesses in a split spin-squeezed Bose-Einstein condensate. Physical Review A, 2017, 95, .	2.5	7
31	What does it take to detect entanglement with the human eye?. Optica, 2016, 3, 473.	9.3	6
32	Experimental many-pairs nonlocality. Physical Review A, 2017, 96, .	2.5	4
33	What is the minimum CHSH score certifying that a state resembles the singlet?. Quantum - the Open Journal for Quantum Science, 0, 4, 246.	0.0	4
34	Self-testing two-qubit maximally entangled states from generalized Clauser-Horne-Shimony-Holt tests. Physical Review Research, 2022, 4, .	3.6	1
35	Demonstration of Device-Independent Certification of a 398 M Link for Future Quantum Networks. , 2019, , .		0