Neil Sinclair

List of Publications by Year
in descending order

34 papers	2,703 citations	331670 21 h-index	526287 27 g-index
34 all docs	34 docs citations	34 times ranked	2044 citing authors

#	Article	IF	Citations
1	Integrated photonics on thin-film lithium niobate. Advances in Optics and Photonics, 2021, 13, 242.	25.5	503
2	Broadband waveguide quantum memory for entangled photons. Nature, 2011, 469, 512-515.	27.8	481
3	Demonstration of sub-3 ps temporal resolution with a superconducting nanowire single-photon detector. Nature Photonics, 2020, 14, 250-255.	31.4	285
4	Spectral Multiplexing for Scalable Quantum Photonics using an Atomic Frequency Comb Quantum Memory and Feed-Forward Control. Physical Review Letters, 2014, 113, 053603.	7.8	214
5	Perspectives on quantum transduction. Quantum Science and Technology, 2020, 5, 020501.	5.8	155
6	2022 Roadmap on integrated quantum photonics. JPhys Photonics, 2022, 4, 012501.	4.6	152
7	Microwave-to-optical conversion using lithium niobate thin-film acoustic resonators. Optica, 2019, 6, 1498.	9.3	152
8	Coherent acoustic control of a single silicon vacancy spin in diamond. Nature Communications, 2020, 11, 193.	12.8	92
9	On-chip electro-optic frequency shifters and beam splitters. Nature, 2021, 599, 587-593.	27.8	78
10	Non-reciprocal transmission of microwave acoustic waves in nonlinear parityâ€“time symmetric resonators. Nature Electronics, 2020, 3, 267-272.	26.0	73
11	Cavity electro-optics in thin-film lithium niobate for efficient microwave-to-optical transduction. Optica, 2020, 7, 1714.	9.3	66
12	Teleportation Systems Toward a Quantum Internet. PRX Quantum, 2020, 1, .	9.2	54
13	Nanophotonic Quantum Storage at Telecommunication Wavelength. Physical Review Applied, 2019, 12, .	3.8	46
14	Integrated silicon carbide electro-optic modulator. Nature Communications, 2022, 13, 1851.	12.8	46
15	Integrated microwave acousto-optic frequency shifter on thin-film lithium niobate. Optics Express, 2020, 28, 23728.	3.4	43
16	Conditional Detection of Pure Quantum States of Light after Storage in a Tm-Doped Waveguide. Physical Review Letters, 2012, 108, 083602.	7.8	41
17	Storage and Reemission of Heralded Telecommunication-Wavelength Photons Using a Crystal Waveguide. Physical Review Applied, 2019, 11, .	3.8	40
18	Telecom-Band Quantum Optics with Ytterbium Atoms and Silicon Nanophotonics. Physical Review Applied, 2019, 11, .	3.8	39

#	Article	IF	Citations
19	Long-Lived Solid-State Optical Memory for High-Rate Quantum Repeaters. Physical Review Letters, 2021, 127, 220502.	7.8	29
20	Two-photon interference of weak coherent laser pulses recalled from separate solid-state quantum memories. Nature Communications, 2013, 4, 2386.	12.8	23
21	Electrical control of surface acoustic waves. Nature Electronics, 2022, 5, 348-355.	26.0	22
22	High-Q suspended optical resonators in 3C silicon carbide obtained by thermal annealing. Optics Express, 2020, 28, 4938.	3.4	19
23	Controllable-dipole quantum memory. Physical Review A, 2012, 86, .	2.5	13
24	Persistent atomic frequency comb based on Zeeman sub-levels of an erbium-doped crystal waveguide. Journal of the Optical Society of America B: Optical Physics, 2020, 37, 352.	2.1	10
25	Diamond mirrors for high-power continuous-wave lasers. Nature Communications, 2022, 13, 2610.	12.8	9
26	Toward Efficient Microwave-Optical Transduction using Cavity Electro-Optics in Thin-Film Lithium Niobate. , 2020, , .		6
27	Sample-Efficient Adaptive Calibration of Quantum Networks Using Bayesian Optimization. Physical Review Applied, 2022, 17, .	3.8	5
28	Telecommunication-wavelength two-dimensional photonic crystal cavities in a thin single-crystal diamond membrane. Applied Physics Letters, 2021, 119, .	3.3	4
29	Low-repetition-rate Integrated Electro-optic Frequency Comb Sources. , 2020, , .		1
30	Broadband Waveguide Quantum Memory for Entangled Photons. , 2011, , .		1
31	Integrated Lithium Niobate Acousto-optic Cavities for Microwave-to-optical Conversion. , 2020, , .		1
32	Broadband waveguide quantum memory for entangled photons. , 2011, , .		0
33	Frequency multiplexed quantum memories with read-out on demand for quantum repeaters. , 2013, , .		0
34	Acoustically Mediated Microwave-to-Optical Conversion on Thin-Film Lithium Niobate. , 2020, , .		0