Fabio Sciarrino

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/8002012/publications.pdf

Version: 2024-02-01

228 papers	11,267 citations	31902 53 h-index	31759 101 g-index
229 all docs	229 docs citations	229 times ranked	6659 citing authors

#	Article	IF	Citations
1	Integrated photonic quantum technologies. Nature Photonics, 2020, 14, 273-284.	15.6	724
2	Integrated multimode interferometers with arbitrary designs for photonic boson sampling. Nature Photonics, 2013, 7, 545-549.	15.6	528
3	Two-Particle Bosonic-Fermionic Quantum Walk via Integrated Photonics. Physical Review Letters, 2012, 108, 010502.	2.9	468
4	Photonic quantum information processing: a review. Reports on Progress in Physics, 2019, 82, 016001.	8.1	402
5	Spin-to-orbital conversion of the angular momentum of light and its classical and quantum applications. Journal of Optics (United Kingdom), 2011, 13, 064001.	1.0	394
6	Anderson localization of entangled photons in an integrated quantum walk. Nature Photonics, 2013, 7, 322-328.	15.6	372
7	Free-Space Quantum Key Distribution by Rotation-Invariant Twisted Photons. Physical Review Letters, 2014, 113, 060503.	2.9	331
8	Quantum Information Transfer from Spin to Orbital Angular Momentum of Photons. Physical Review Letters, 2009, 103, 013601.	2.9	323
9	Complete experimental toolbox for alignment-free quantum communication. Nature Communications, 2012, 3, 961.	5.8	264
10	Photonic polarization gears for ultra-sensitive angular measurements. Nature Communications, 2013, 4, 2432.	5.8	257
11	Integrated photonic quantum gates for polarization qubits. Nature Communications, 2011, 2, 566.	5.8	251
12	Experimental validation of photonic boson sampling. Nature Photonics, 2014, 8, 615-620.	15.6	244
13	Photonic quantum metrology. AVS Quantum Science, 2020, 2, .	1.8	226
14	Polarization Entangled State Measurement on a Chip. Physical Review Letters, 2010, 105, 200503.	2.9	216
15	Storage and retrieval of vector beams of light in a multiple-degree-of-freedom quantum memory. Nature Communications, 2015, 6, 7706.	5.8	214
16	Optimal quantum cloning of orbital angular momentum photon qubits through Hongâ€“Ouâ€“Mandel coalescence. Nature Photonics, 2009, 3, 720-723.	15.6	203
17	Experimental scattershot boson sampling. Science Advances, 2015, 1, e1400255.	4.7	184
18	Teleportation of a Vacuumâ€“One-Photon Qubit. Physical Review Letters, 2002, 88, 070402.	2.9	178

#	Article	IF	Citations
19	Experimental realization of the quantum universal NOT gate. Nature, 2002, 419, 815-818.	13.7	152
20	The potential and global outlook of integrated photonics for quantum technologies. Nature Reviews Physics, 2022, 4, 194-208.	11.9	151
21	Quantum walks and wavepacket dynamics on a lattice with twisted photons. Science Advances, 2015, 1, e1500087.	4.7	148
22	Three-photon bosonic coalescence in an integrated tritter. Nature Communications, 2013, 4, 1606.	5.8	139
23	Experimental on-demand recovery of entanglement by local operations within non-Markovian dynamics. Scientific Reports, 2015, 5, 8575.	1.6	132
24	Optimal Measurements for Simultaneous Quantum Estimation of Multiple Phases. Physical Review Letters, 2017, 119, 130504.	2.9	119
25	Rotated waveplates in integrated waveguide optics. Nature Communications, 2014, 5, 4249.	5.8	111
26	Suppression law of quantum states in a 3D photonic fast Fourier transform chip. Nature Communications, 2016, 7, 10469.	5.8	105
27	Thermally reconfigurable quantum photonic circuits at telecom wavelength by femtosecond laser micromachining. Light: Science and Applications, 2015, 4, e354-e354.	7.7	103
28	Entanglement Test on a Microscopic-Macroscopic System. Physical Review Letters, 2008, 100, 253601.	2.9	97
29	Machine Learning-Based Classification of Vector Vortex Beams. Physical Review Letters, 2020, 124, 160401.	2.9	88
30	Quantum interferometry with three-dimensional geometry. Scientific Reports, 2012, 2, 862.	1.6	87
31	Quantum-enhanced multiparameter estimation in multiarm interferometers. Scientific Reports, 2016, 6, 28881.	1.6	84
32	Two-photon interference: the Hongâ€“Ouâ€“Mandel effect. Reports on Progress in Physics, 2021, 84, 012402.	8.1	83
33	Quantum key distribution with entangled photons generated on demand by a quantum dot. Science Advances, 2021, 7, .	4.7	80
34	Experimental Optimal Cloning of Four-Dimensional Quantum States of Photons. Physical Review Letters, 2010, 105, 073602.	2.9	75
35	Air-core fiber distribution of hybrid vector vortex-polarization entangled states. Advanced Photonics, 2019, 1, 1.	6.2	74
36	Path-polarization hyperentangled and cluster states of photons on a chip. Light: Science and Applications, 2016, 5, e16064-e16064.	7.7	73

#	Article	IF	Citations
37	Experimental generation and characterization of single-photon hybrid ququarts based on polarization and orbital angular momentum encoding. Physical Review A, 2010, 81, .	1.0	72
38	Fast escape of a quantum walker from an integrated photonic maze. Nature Communications, 2016, 7, 11682.	5.8	72
39	Experimental Phase Estimation Enhanced by Machine Learning. Physical Review Applied, 2018, 10, .	1.5	70
40	Contextual, Optimal, and Universal Realization of the Quantum Cloning Machine and of the NOT Gate. Physical Review Letters, 2004, 92, 067901.	2.9	68
41	Experimental Engineering of Arbitrary Qudit States with Discrete-Time Quantum Walks. Physical Review Letters, 2019, 122, 020503.	2.9	68
42	Experimental quantum private queries with linear optics. Physical Review A, 2009, 80, .	1.0	67
43	Integrated sources of entangled photons at the telecom wavelength in femtosecond-laser-written circuits. Optica, 2018, 5, 311.	4.8	67
44	Joining the quantum state of two photons into one. Nature Photonics, 2013, 7, 521-526.	15.6	65
45	General Rules for Bosonic Bunching in Multimode Interferometers. Physical Review Letters, 2013, 111, 130503.	2.9	64
46	Entangled vector vortex beams. Physical Review A, 2016, 94, .	1.0	63
47	Entanglement of photons in their dual wave-particle nature. Nature Communications, 2017, 8, 915.	5.8	63
48	Experimental statistical signature of many-body quantum interference. Nature Photonics, 2018, 12, 173-178.	15.6	63
49	Experimental multiphase estimation on a chip. Optica, 2019, 6, 288.	4.8	60
50	Experimental violation of local causality in a quantum network. Nature Communications, 2017, 8, 14775.	5.8	57
51	First observation of the quantized exciton-polariton field and effect of interactions on a single polariton. Science Advances, 2018, 4, eaao6814.	4.7	57
52	Particle Statistics Affects Quantum Decay and Fano Interference. Physical Review Letters, 2015, 114, 090201.	2.9	56
53	Generation of hybrid polarization-orbital angular momentum entangled states. Optics Express, 2010, 18, 18243.	1.7	54
54	Experimental quantum process tomography of non-trace-preserving maps. Physical Review A, 2010, 82, .	1.0	54

#	Article	IF	Citations
55	Maximal qubit violation of n-locality inequalities in a star-shaped quantum network. New Journal of Physics, 2017, 19, 113020.	1.2	53
56	Quantum violation of an instrumental test. Nature Physics, 2018, 14, 291-296.	6.5	52
57	Transmission of vector vortex beams in dispersive media. Advanced Photonics, 2020, 2, 1.	6.2	52
58	All-optical non-Markovian stroboscopic quantum simulator. Physical Review A, 2015, 91, .	1.0	50
59	Experimental Implementation of a Kochen-Specker Set of Quantum Tests. Physical Review X, 2013, 3, .	2.8	49
60	Experimental realization of macroscopic coherence by phase-covariant cloning of a single photon. Physical Review A, 2007, 76, .	1.0	48
61	Photonic simulation of entanglement growth and engineering after a spin chain quench. Nature Communications, 2017, 8, 1569.	5.8	48
62	Experimental learning of quantum states. Science Advances, 2019, 5, eaau1946.	4.7	46
63	Realization of the optimal phase-covariant quantum cloning machine. Physical Review A, 2005, 72, .	1.0	44
64	Hybrid ququart-encoded quantum cryptography protected by Kochen-Specker contextuality. Physical Review A, 2011, 84, .	1.0	42
65	Experimental Entanglement Activation from Discord in a Programmable Quantum Measurement. Physical Review Letters, 2014, 112, 140501.	2.9	42
66	Experimental violation of n-locality in a star quantum network. Nature Communications, 2020, 11, 2467.	5.8	41
67	Phase Estimation via Quantum Interferometry for Noisy Detectors. Physical Review Letters, 2012, 108, 233602.	2.9	39
68	Non-linear parametric processes in quantum information. Progress in Quantum Electronics, 2005, 29, 165-256.	3.5	38
69	Calibration of Quantum Sensors by Neural Networks. Physical Review Letters, 2019, 123, 230502.	2.9	38
70	Bayesian approach to Boson sampling validation. International Journal of Quantum Information, 2014, 12, 1560028.	0.6	36
71	All-optical implementation of collision-based evolutions of open quantum systems. Scientific Reports, 2019, 9, 3205.	1.6	36
72	Test of mutually unbiased bases for six-dimensional photonic quantum systems. Scientific Reports, 2013, 3, 2726.	1.6	35

#	Article	IF	Citations
73	Wigner-function theory and decoherence of the quantum-injected optical parametric amplifier. Physical Review A, 2009, 80, .	1.0	33
74	Device-Independent Certification of High-Dimensional Quantum Systems. Physical Review Letters, 2014, 112, 140503.	2.9	33
75	Experimental bilocality violation without shared reference frames. Physical Review A, 2017, 95, .	1.0	33
76	Benchmarking integrated linear-optical architectures for quantum information processing. Scientific Reports, 2017, 7, 15133.	1.6	33
77	Pattern Recognition Techniques for Boson Sampling Validation. Physical Review X, 2019, 9, .	2.8	33
78	Experimental generalized quantum suppression law in Sylvester interferometers. New Journal of Physics, 2018, 20, 033017.	1.2	32
79	Experimental sub-Rayleigh resolution by an unseeded high-gain optical parametric amplifier for quantum lithography. Physical Review A, 2008, 77, .	1.0	31
80	Entanglement-seeded, dual, optical parametric amplification: Applications to quantum imaging and metrology. Physical Review A, 2008, 78, .	1.0	30
81	Arbitrary, direct and deterministic manipulation of vector beams via electrically-tuned q-plates. Scientific Reports, 2015, 5, 7840.	1.6	30
82	Experimental Investigation of Quantum Decay at Short, Intermediate, and Long Times via Integrated Photonics. Physical Review Letters, 2019, 122, 130401.	2.9	30
83	Interfacing scalable photonic platforms: solid-state based multi-photon interference in a reconfigurable glass chip. Optica, 2019, 6, 1471.	4.8	30
84	Quantum state engineering using one-dimensional discrete-time quantum walks. Physical Review A, 2017, 96, .	1.0	29
85	Quantum-to-classical transition via fuzzy measurements on high-gain spontaneous parametric down-conversion. Physical Review A, 2010, 81, .	1.0	28
86	Simulation of noise-assisted transport via optical cavity networks. Physical Review A, 2011, 83, .	1.0	28
87	Experimental Observation of Impossible-to-Beat Quantum Advantage on a Hybrid Photonic System. Physical Review Letters, 2012, 108, 090501.	2.9	28
88	Quantum simulation of bosonic-fermionic noninteracting particles in disordered systems via a quantum walk. Physical Review A, 2014, 89, .	1.0	28
89	Towards quantum supremacy with lossy scattershot boson sampling. New Journal of Physics, 2016, 18, 113008.	1.2	28
90	Experimental Investigation of Superdiffusion via Coherent Disordered Quantum Walks. Physical Review Letters, 2019, 123, 140501.	2.9	28

#	Article	IF	Citations
91	Witnessing Genuine Multiphoton Indistinguishability. Physical Review Letters, 2019, 122, 063602.	2.9	28
92	Realization of an Optimally Distinguishable Multiphoton Quantum Superposition. Physical Review Letters, 2005, 95, 240401.	2.9	26
93	Deterministic qubit transfer between orbital and spin angular momentum of single photons. Optics Letters, 2012, 37, 172.	1.7	26
94	Experimental adaptive Bayesian estimation of multiple phases with limited data. Npj Quantum Information, 2020, 6, .	2.8	26
95	Enhanced Resolution of Lossy Interferometry by Coherent Amplification of Single Photons. Physical Review Letters, 2010, 105, 113602.	2.9	25
96	Colloquium: Multiparticle quantum superpositions and the quantum-to-classical transition. Reviews of Modern Physics, 2012, 84, 1765-1789.	16.4	24
97	Learning an unknown transformation via a genetic approach. Scientific Reports, 2017, 7, 14316.	1.6	24
98	Hybrid methods for witnessing entanglement in a microscopic-macroscopic system. Physical Review A, 2011, 84, .	1.0	23
99	Loophole-Free Bell Test Based on Local Precertification of Photonâ€™s Presence. Physical Review X, 2012, 2, .	2.8	23
100	Generation of tunable entanglement and violation of a Bell-like inequality between different degrees of freedom of a single photon. Physical Review A, 2014, 90, .	1.0	23
101	Resilience of hybrid optical angular momentum qubits to turbulence. Scientific Reports, 2015, 5, 8424.	1.6	23
102	Tunable Two-Photon Quantum Interference of Structured Light. Physical Review Letters, 2019, 122, 013601.	2.9	23
103	Calibration of Multiparameter Sensors via Machine Learning at the Single-Photon Level. Physical Review Applied, 2021, 15, .	1.5	23
104	Quantum cloning and universal NOT gate by teleportation. Physics Letters, Section A: General, Atomic and Solid State Physics, 2004, 323, 34-39.	0.9	22
105	What Hong-Ou-Mandel interference says on two-photon frequency entanglement. Scientific Reports, 2017, 7, 7247.	1.6	22
106	Causal Networks and Freedom of Choice in Bellâ€™s Theorem. PRX Quantum, 2021, 2, .	3.5	22
107	Resilience of orbital-angular-momentum photonic qubits and effects on hybrid entanglement. Physical Review A, 2011, 83, .	1.0	21
108	Multiphase estimation without a reference mode. Physical Review A, 2020, 102, .	1.0	21

#	Article	IF	Citations
109	Entanglement criteria for microscopic-macroscopic systems. Physical Review A, 2010, 82, .	1.0	20
110	Implementation of optimal phase-covariant cloning machines. Physical Review A, 2007, 76, .	1.0	19
111	Hong-Ou-Mandel interferometer with one and two photon pairs. Physical Review A, 2008, 77, .	1.0	19
112	Decoherence, environment-induced superselection, and classicality of a macroscopic quantum superposition generated by quantum cloning. Physical Review A, 2009, 79, .	1.0	19
113	Testing sequential quantum measurements: how can maximal knowledge be extracted?. Scientific Reports, 2012, 2, 443.	1.6	19
114	Device-independent test of a delayed choice experiment. Physical Review A, 2019, 100, .	1.0	19
115	Nonseparable Werner states in spontaneous parametric down-conversion. Physical Review A, 2006, 73, .	1.0	18
116	Polarization entangled states measurement on a chip. , 2011, , .		18
117	Symmetry Protection of Photonic Entanglement in the Interaction with a Single Nanoaperture. Physical Review Letters, 2018, 121, 173901.	2.9	18
118	Experimental quantification of four-photon indistinguishability. New Journal of Physics, 2020, 22, 043001.	1.2	18
119	Experimental device-independent certified randomness generation with an instrumental causal structure. Communications Physics, 2020, 3, .	2.0	17
120	Birth and evolution of an optical vortex. Optics Express, 2016, 24, 16390.	1.7	16
121	Single-Photon Quantum Contextuality on a Chip. ACS Photonics, 2017, 4, 2807-2812.	3.2	16
122	Quantum walks in synthetic gauge fields with three-dimensional integrated photonics. Physical Review A, 2017, 95, .	1.0	16
123	Experimental investigation on the geometry of GHZ states. Scientific Reports, 2017, 7, 13265.	1.6	16
124	Optimal photonic indistinguishability tests in multimode networks. Science Bulletin, 2018, 63, 1470-1478.	4.3	16
125	Visual assessment of multi-photon interference. Quantum Science and Technology, 2019, 4, 024008.	2.6	16
126	Twin beams correlation and single beam noise for triply resonant KTP OPOs. Optics Communications, 2001, 194, 373-379.	1.0	15

#	Article	IF	Citations
127	Anomalous Lack of Decoherence of the Macroscopic Quantum Superpositions Based on Phase-Covariant Quantum Cloning. Physical Review Letters, 2009, 103, 100501.	2.9	15
128	Reconfigurable continuously-coupled 3D photonic circuit for Boson Sampling experiments. Npj Quantum Information, 2022, 8, .	2.8	15
129	Testing noncontextuality inequalities that are building blocks of quantum correlations. Physical Review A, 2015, 92, .	1.0	14
130	Experimental Robust Self-Testing of the State Generated by a Quantum Network. PRX Quantum, 2021, 2, .	3.5	14
131	Bell experiments with random destination sources. Physical Review A, 2011, 83, .	1.0	13
132	Quantum walks of two correlated photons in a 2D synthetic lattice. Npj Quantum Information, 2022, 8, .	2.8	13
133	Amplification of polarization NOON states. Journal of the Optical Society of America B: Optical Physics, 2009, 26, 892.	0.9	12
134	Control of quantum transverse correlations on a four-photon system. Optics Express, 2011, 19, 3715.	1.7	12
135	Is my boson sampler working?. New Journal of Physics, 2016, 18, 041001.	1.2	12
136	Adaptive phase estimation through a genetic algorithm. Physical Review Research, 2020, 2, .	1.3	12
137	Ab initio experimental violation of Bell inequalities. Physical Review Research, 2022, 4, .	1.3	12
138	The race for quantum supremacy: pushing the classical limit for photonic hardware. National Science Review, 2019, 6, 2-3.	4.6	11
139	Enhanced detection techniques of orbital angular momentum states in the classical and quantum regimes. New Journal of Physics, 2021, 23, 073014.	1.2	11
140	Experimental Test of the No-Signaling Theorem. Physical Review Letters, 2007, 99, 193601.	2.9	10
141	Polarization preserving ultra fast optical shutter for quantum information processing. Optics Express, 2008, 16, 17609.	1.7	10
142	Coherent Scattering of a Multiphoton Quantum Superposition by a Mirror BEC. Physical Review Letters, 2010, 104, 050403.	2.9	10
143	Entanglement transfer, accumulation and retrieval via quantum-walk-based qubitâ€“qudit dynamics. New Journal of Physics, 2021, 23, 023012.	1.2	10
144	Experimental test of quantum causal influences. Science Advances, 2022, 8, eabm1515.	4.7	10

#	Article	IF	Citations
145	Entanglement localization after coupling to an incoherent noisy system. Physical Review A, 2009, 79, .	1.0	9
146	Joining and splitting the quantum states of photons. Physical Review A, 2013, 88, .	1.0	9
147	Experimental Study of Nonclassical Teleportation Beyond Average Fidelity. Physical Review Letters, 2018, 121, 140501.	2.9	9
148	Propagation of structured light through tissue-mimicking phantoms. Optics Express, 2020, 28, 35427.	1.7	8
149	Measurement-induced quantum operations on multiphoton states. Physical Review A, 2010, 82, .	1.0	7
150	Witnesses of coherence and dimension from multiphoton indistinguishability tests. Physical Review Research, 2021, 3, .	1.3	7
151	Experimental reversion of the optimal quantum cloning and flipping processes. Physical Review A, 2006, 73, .	1.0	6
152	Insight on future quantum networks. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 20169-20170.	3.3	6
153	Experimental semi-device-independent tests of quantum channels. Quantum Science and Technology, 2019, 4, 035004.	2.6	6
154	Criteria for nonclassicality in the prepare-and-measure scenario. Physical Review Research, 2020, 2, .	1.3	6
155	Entanglement, EPR correlations, and mesoscopic quantum superposition by the high-gain quantum injected parametric amplification. Physical Review A, 2006, 74, .	1.0	5
156	Resilience to decoherence of the macroscopic quantum superpositions generated by universally covariant optimal quantum cloning. Physical Review A, 2010, 82, .	1.0	5
157	Fabrication of Quantum Photonic Integrated Circuits by Means of Femtosecond Laser Pulses. Foundations of Physics, 2014, 44, 843-855.	0.6	5
158	Experimental Connection between the Instrumental and Bell Inequalities. Proceedings (mdpi), 2019, 12, .	0.2	5
159	Diagnosing Imperfections in Quantum Sensors via Generalized CramÃ©r-Rao Bounds. Physical Review Applied, 2020, 13, .	1.5	5
160	A theoretical and experimental study of fluctuations of the optical parametric oscillator. Optics and Lasers in Engineering, 2002, 37, 585-599.	2.0	4
161	Entanglement, Einstein Podolsky Rosen correlations and Schrodinger cat state generation by quantum-injected optical parametric amplification. Journal of Physics A: Mathematical and Theoretical, 2007, 40, 2977-2988.	0.7	4
162	EXPERIMENTAL ENTANGLEMENT RESTORATION ON NOISY CHANNELS BY MEASURING ENVIRONMENT. International Journal of Quantum Information, 2009, 07, 1-8.	0.6	4

#	Article	IF	Citations
163	Continuous-variable nonlocality test performed over a multiphoton quantum state. Physical Review A, 2012, 85, .	1.0	4
164	Variational quantum process tomography of two-qubit maps. Physical Review A, 2013, 87, .	1.0	4
165	Let researchers try new paths. Nature, 2016, 538, 451-453.	13.7	4
166	Validating multi-photon quantum interference with finite data. Quantum Science and Technology, 2020, 5, 045005.	2.6	4
167	Experimental high-gain quantum-injected optical parametric amplification and multiphoton phase-covariant cloning. Laser Physics, 2006, 16, 1551-1556.	0.6	3
168	Complete analysis of measurement-induced entanglement localization on a three-photon system. Physical Review A, 2010, 81, .	1.0	3
169	Detection efficiency for loophole-free Bell tests with entangled states affected by colored noise. Physical Review A, 2013, 87, .	1.0	3
170	Observation of photonic states dynamics in 3-D integrated Fourier circuits. Journal of Optics (United) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	1.0	3
171	Twenty Years of Quantum State Teleportation at the Sapienza University in Rome. Entropy, 2019, 21, 768.	1.1	3
172	Realization of the optimal universal quantum entangler. Physical Review A, 2004, 70, .	1.0	2
173	Femtosecond laser waveguide writing for integrated quantum optics. , 2012, , .		2
174	Investigation on the quantum-to-classical transition by optical parametric amplification: Generation and detection of multiphoton quantum superposition. Optics Communications, 2015, 337, 44-52.	1.0	2
175	Manipulating quantum information via quantum cloning. Journal of Optics B: Quantum and Semiclassical Optics, 2005, 7, S664-S671.	1.4	1
176	MACROSCOPIC QUANTUM ENTANGLEMENT IN LIGHT REFLECTION FROM BOSE-EINSTEIN CONDENSATES. International Journal of Quantum Information, 2009, 07, 171-177.	0.6	1
177	Quantum-to-classical transition via fuzzy measurements on high gain spontaneous parametric down-conversion. , 2011, , .		1
178	Micro meets macro. Nature Physics, 2013, 9, 529-529.	6.5	1
179	Bosonic and Fermionic Discrete-Time Quantum Walk on Integrated Optics. Journal of Computational and Theoretical Nanoscience, 2013, 10, 1662-1666.	0.4	1
180	Arbitrary integrated multimode interferometers for the elaboration of photonic qubits. , 2014, , .		1

#	Article	IF	Citations
181	Hongâ€“Ouâ€“Mandel control through spectral shaping. Journal of Optics (United Kingdom), 2018, 20, 085201.	1.0	1
182	Efficient Long Range Communication by Quantum Injected Optical Parametric Amplification. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2010, , 330-339.	0.2	1
183	Generalized Quantum Fast Transformations via Femtosecond Laser Writing Technique. Interdisciplinary Information Sciences, 2017, 23, 115-118.	0.2	1
184	Experimental investigation of Bayesian bounds in multiparameter estimation. Quantum Science and Technology, 0, , .	2.6	1
185	Optimal quantum machines by linear and non-linear optics. Fortschritte Der Physik, 2004, 52, 1070-1079.	1.5	0
186	Einstein Podolsky Rosen correlations involving mesoscopic quantum systems. AIP Conference Proceedings, 2006, , .	0.3	0
187	Macroscopic quantum entanglement. Proceedings of SPIE, 2008, , .	0.8	0
188	Non Locality in a Micro-Macroscopic Photon System. , 2009, , .		0
189	Entanglement and Decoherence in a Microscopic-Macroscopic system. , 2009, , .		0
190	Micro-macro entangled photon systems: results and perspectives. Proceedings of SPIE, 2009, , .	0.8	0
191	Polarization entangled state measurement on a chip. , 2011, , .		0
192	Enhanced resolution in lossy phase estimation by optical parametric amplification. , 2011, , .		0
193	Generation of Highly Resilient to Decoherence Macroscopic Quantum Superpositions viaÂPhase-covariant Quantum Cloning. Foundations of Physics, 2011, 41, 492-508.	0.6	0
194	Engineering of photonic orbital angular momentum quantum states for quantum information processing. , 2011, , .		0
195	Sequential quantum measurements on entangled states. , 2011, , .		0
196	Enhanced resolution of lossy interferometry by coherent amplification of single photons. , 2011, , .		0
197	Fundamental tests on higher quantum dimensionality by exploiting the photonic orbital angular momentum. , 2012, , .		0
198	Simulation of quantum dynamics with integrated photonics. , 2012, , .		0

#	Article	IF	Citations
199	Integrated devices for quantum information and quantum simulation with polarization encoded qubits. Proceedings of SPIE, 2012, , .	0.8	0
200	Quantum simulation with integrated photonics. , 2013, , .		0
201	Femtosecond laser written photonic circuits for quantum simulation. , 2013, , .		0
202	From q-plates to the photonic gear: tailoring the rotational properties of light. Proceedings of SPIE, 2014, , .	0.8	0
203	Implementation and certification of Boson Sampling with integrated photonics. , 2016, , .		0
204	Observing quantum interference in 3D integrated-photonic symmetric multiports. Proceedings of SPIE, 2017, , .	0.8	0
205	Genetic algorithms to learn an unknown linear transformation. , 2017, , .		0
206	Quantum simulation of spin chain dynamics via integrated photonics. , 2017, , .		0
207	Stroboscopie evolutions of quantum states and quantum walks in a double-Sagnac interferometric configuration. , 2017, , .		0
208	Robust self-testing on photonic quantum networks. , 2021, , .		0
209	The race towards quantum computational advantage: milestone photonic experiment. Science Bulletin, 2021, 66, 637-639.	4.3	0
210	Engineering High-dimensional Entangled States via Discrete-time Quantum Walks. , 2021, , .		0
211	Witnesses of coherence and dimension from multiphoton indistinguishability tests. , 2021, , .		0
212	Experimental violation of n-locality in a star quantum network[1]. , 2021, , .		0
213	Integrated photonic quantum information processing based on polarization encoding. , 2012, , .		0
214	Alignment-free QKD along a free-space channel combining spinorial and orbital angular momentum. , 2014, , .		0
215	Experimental Boson Sampling with integrated photonics. , 2014, , .		0
216	Joining the quantum state of two photons into one. , 2014, , .		0

#	Article	IF	Citations
217	Photonic Simulation of Entanglement Generation and Transfer in a Spin Chain. , 2016, , .		0
218	Observing Multi-Photon Interference and Suppression Laws in 3D Photonic Chips. , 2016, , .		0
219	Experimental Statistical Signature of Many-body Quantum Interference. , 2018, , .		0
220	Visual assessment of multiphoton interference. , 2019, , .		0
221	Observation of Quantum Decay Dynamics in an Integrated Photonic Chip. , 2019, , .		0
222	Validation of multi-photon interference in photonic boson sampling. , 2019, , .		0
223	Machine Learning For Experimental Single Shot Phase Estimation. , 2019, , .		0
224	Quantifying n-photon Indistinguishability with an Integrated Multi-Port Interferometer. , 2021, , .		0
225	Ab-initio Automated Optimization of Nonlocality in Photonic Quantum States. , 2021, , .		0
226	Experimental Estimation of Causal Influences in the Presence of Quantum Common Cause. , 2021, , .		0
227	Adaptive two-phase estimation on a photonic integrated device. , 2021, , .		0
228	Single-photon Calibration of an Integrated Multiarm Interferometer via Neural Netowrks. , 2021, , .		0