

Philip Walther

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

68 papers	5,357 citations	28 h-index	73 g-index
100 ext. papers	6,446 ext. citations	12.7 avg, IF	5.59 L-index

#	Paper	IF	Citations
68	Experimental one-way quantum computing. <i>Nature</i> , 2005 , 434, 169-76	50.4	820
67	Photonic quantum simulators. <i>Nature Physics</i> , 2012 , 8, 285-291	16.2	522
66	Experimental boson sampling. <i>Nature Photonics</i> , 2013 , 7, 540-544	33.9	443
65	De Broglie wavelength of a non-local four-photon state. <i>Nature</i> , 2004 , 429, 158-61	50.4	372
64	Quantum discord as resource for remote state preparation. <i>Nature Physics</i> , 2012 , 8, 666-670	16.2	329
63	Demonstration of blind quantum computing. <i>Science</i> , 2012 , 335, 303-8	33.3	263
62	High-speed linear optics quantum computing using active feed-forward. <i>Nature</i> , 2007 , 445, 65-9	50.4	245
61	Realization of a photonic controlled-NOT gate sufficient for quantum computation. <i>Physical Review Letters</i> , 2004 , 93, 020504	7.4	221
60	Communications: quantum teleportation across the Danube. <i>Nature</i> , 2004 , 430, 849	50.4	196
59	Experimental realization of Dicke states of up to six qubits for multiparty quantum networking. <i>Physical Review Letters</i> , 2009 , 103, 020503	7.4	172
58	Long-distance free-space distribution of quantum entanglement. <i>Science</i> , 2003 , 301, 621-3	33.3	143
57	Experimental superposition of orders of quantum gates. <i>Nature Communications</i> , 2015 , 6, 7913	17.4	123
56	Quantum simulation of the wavefunction to probe frustrated Heisenberg spin systems. <i>Nature Physics</i> , 2011 , 7, 399-405	16.2	114
55	Experimental violation of a cluster state bell inequality. <i>Physical Review Letters</i> , 2005 , 95, 020403	7.4	100
54	Continuous-Variable Quantum Key Distribution with Gaussian Modulation—The Theory of Practical Implementations. <i>Advanced Quantum Technologies</i> , 2018 , 1, 1800011	4.3	93
53	Full characterization of a three-photon Greenberger-Horne-Zeilinger state using quantum state tomography. <i>Physical Review Letters</i> , 2005 , 94, 070402	7.4	90
52	Experimental verification of an indefinite causal order. <i>Science Advances</i> , 2017 , 3, e1602589	14.3	88

51	Distributing entanglement and single photons through an intra-city, free-space quantum channel. <i>Optics Express</i> , 2005 , 13, 202-9	3.3	87
50	Experimental verification of quantum computation. <i>Nature Physics</i> , 2013 , 9, 727-731	16.2	83
49	Heralded generation of entangled photon pairs. <i>Nature Photonics</i> , 2010 , 4, 553-556	33.9	82
48	Generalized Multiphoton Quantum Interference. <i>Physical Review X</i> , 2015 , 5,	9.1	66
47	Experimental realization of a quantum game on a one-way quantum computer. <i>New Journal of Physics</i> , 2007 , 9, 205-205	2.9	51
46	Local Conversion of Greenberger-Horne-Zeilinger States to Approximate W States. <i>Physical Review Letters</i> , 2005 , 94,	7.4	50
45	A two-qubit photonic quantum processor and its application to solving systems of linear equations. <i>Scientific Reports</i> , 2014 , 4, 6115	4.9	49
44	Demonstration of measurement-only blind quantum computing. <i>New Journal of Physics</i> , 2016 , 18, 013020	20.9	40
43	Integrated-optics heralded controlled-NOT gate for polarization-encoded qubits. <i>Npj Quantum Information</i> , 2018 , 4,	8.6	39
42	Ligand dynamics on the surface of zirconium oxo clusters. <i>Physical Chemistry Chemical Physics</i> , 2009 , 11, 3640-7	3.6	32
41	Quantum computing with graphene plasmons. <i>Npj Quantum Information</i> , 2019 , 5,	8.6	29
40	Heralded generation of multiphoton entanglement. <i>Physical Review A</i> , 2007 , 75,	2.6	28
39	Experimental realization of a photonic Bell-state analyzer. <i>Physical Review A</i> , 2005 , 72,	2.6	26
38	Experimental quantum speed-up in reinforcement learning agents. <i>Nature</i> , 2021 , 591, 229-233	50.4	23
37	Quantum nonlocality obtained from local states by entanglement purification. <i>Physical Review Letters</i> , 2005 , 94, 040504	7.4	21
36	Quantum technology: from research to application. <i>Applied Physics B: Lasers and Optics</i> , 2016 , 122, 1	1.9	21
35	Experimental few-copy multi-particle entanglement detection. <i>Nature Physics</i> , 2019 , 15, 935-940	16.2	18
34	Experimental Two-Way Communication with One Photon. <i>Advanced Quantum Technologies</i> , 2019 , 2, 1900050	10.50	18

33	Tapering of femtosecond laser-written waveguides. <i>Applied Optics</i> , 2018 , 57, 377-381	1.7	18
32	Single-photon test of hyper-complex quantum theories using a metamaterial. <i>Nature Communications</i> , 2017 , 8, 15044	17.4	16
31	Quantum cryptography with highly entangled photons from semiconductor quantum dots. <i>Science Advances</i> , 2021 , 7,	14.3	16
30	Experimental quantum communication enhancement by superposing trajectories. <i>Physical Review Research</i> , 2021 , 3,	3.9	16
29	Numerical Investigation of Photon-Pair Generation in Periodically Poled MTiOXO4 (M=K, Rb, Cs; X=P, As). <i>Physical Review Applied</i> , 2017 , 8,	4.3	15
28	Demonstrating elements of measurement-based quantum error correction. <i>Physical Review A</i> , 2014 , 90,	2.6	13
27	On unitary reconstruction of linear optical networks. <i>Journal of Optics (United Kingdom)</i> , 2016 , 18, 1140027	2.7	12
26	Modelling parametric down-conversion yielding spectrally pure photon pairs. <i>Optics Express</i> , 2016 , 24, 2712-27	3.3	12
25	Tuning single-photon sources for telecom multi-photon experiments. <i>Optics Express</i> , 2018 , 26, 3286-3303	3.3	11
24	Comment on Peres experiment using photons: No test for hypercomplex (quaternionic) quantum theories. <i>Physical Review A</i> , 2017 , 96,	2.6	11
23	No-go theorem for passive single-rail linear optical quantum computing. <i>Scientific Reports</i> , 2013 , 3, 1394	4.9	10
22	Experimental entangled entanglement. <i>Physical Review Letters</i> , 2006 , 97, 020501	7.4	10
21	Towards photonic quantum simulation of ground states of frustrated Heisenberg spin systems. <i>Scientific Reports</i> , 2014 , 4, 3583	4.9	9
20	GENERATION OF NARROW-BANDWIDTH SINGLE PHOTONS USING ELECTROMAGNETICALLY INDUCED TRANSPARENCY IN ATOMIC ENSEMBLES. <i>International Journal of Quantum Information</i> , 2007 , 05, 51-62	0.8	9
19	Giant enhancement of third-harmonic generation in graphene-metal heterostructures. <i>Nature Nanotechnology</i> , 2021 , 16, 318-324	28.7	9
18	Scalable spin-photon entanglement by time-to-polarization conversion. <i>Npj Quantum Information</i> , 2020 , 6,	8.6	8
17	Gravitationally induced phase shift on a single photon. <i>New Journal of Physics</i> , 2017 , 19, 033028	2.9	7
16	A novel single-crystal & single-pass source for polarisation- and colour-entangled photon pairs. <i>Scientific Reports</i> , 2017 , 7, 7235	4.9	6

15	Quantum advantage for probabilistic one-time programs. <i>Nature Communications</i> , 2018 , 9, 5225	17.4	6
14	Practical and efficient experimental characterization of multiqubit stabilizer states. <i>Physical Review A</i> , 2015 , 91,	2.6	5
13	Experimental entanglement of temporal order. <i>Quantum - the Open Journal for Quantum Science</i> , 2022 , 6, 621		5
12	Experimental photonic quantum memristor. <i>Nature Photonics</i> , 2022 , 16, 318-323	33.9	5
11	Novel single-mode narrow-band photon source of high brightness tuned to cesium D2 line. <i>APL Photonics</i> , 2019 , 4, 090804	5.2	4
10	Trace-free counterfactual communication with a nanophotonic processor. <i>Npj Quantum Information</i> , 2019 , 5,	8.6	3
9	Experimental Entanglement of Temporal Orders 2019 ,		3
8	Experimental quantum homomorphic encryption. <i>Npj Quantum Information</i> , 2021 , 7,	8.6	3
7	Fiber-compatible photonic feed-forward with 99% fidelity. <i>Optics Express</i> , 2021 , 29, 3425-3437	3.3	2
6	Weakly gravitating isotropic waveguides. <i>Classical and Quantum Gravity</i> , 2018 , 35, 244001	3.3	2
5	Advanced Quantum Communications Experiments with Entangled Photons. <i>Optical Science and Engineering</i> , 2005 , 45-81		1
4	Large-scale quantum technology based on luminescent centers in crystals 2016 ,		1
3	Photonic Toolbox for Quantum Simulation. <i>Advances in Chemical Physics</i> , 2014 , 229-240		
2	Quantenrechnen mit Licht. <i>Physik in Unserer Zeit</i> , 2022 , 53, 80-87	0.1	
1	Few-Copy Entanglement Detection in the Presence of Noise. <i>Annalen Der Physik</i> , 2010 , 2100597	2.6	