

# Anton Zeilinger

## 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.

75  
papers

7,489  
citations

40  
h-index

81  
g-index

81  
ext. papers

9,458  
ext. citations

10.8  
avg, IF

6.07  
L-index

#	Paper	IF	Citations
75	Experimental realization of any discrete unitary operator. <i>Physical Review Letters</i> , <b>1994</b> , 73, 58-61	7.4	999
74	Multiphoton entanglement and interferometry. <i>Reviews of Modern Physics</i> , <b>2012</b> , 84, 777-838	40.5	750
73	Significant-Loophole-Free Test of Bell's Theorem with Entangled Photons. <i>Physical Review Letters</i> , <b>2015</b> , 115, 250401	7.4	642
72	Experimental demonstration of free-space decoy-state quantum key distribution over 144 km. <i>Physical Review Letters</i> , <b>2007</b> , 98, 010504	7.4	459
71	Quantum discord as resource for remote state preparation. <i>Nature Physics</i> , <b>2012</b> , 8, 666-670	16.2	329
70	Quantum imaging with undetected photons. <i>Nature</i> , <b>2014</b> , 512, 409-12	50.4	292
69	Satellite-Relayed Intercontinental Quantum Network. <i>Physical Review Letters</i> , <b>2018</b> , 120, 030501	7.4	285
68	A wavelength-tunable fiber-coupled source of narrowband entangled photons. <i>Optics Express</i> , <b>2007</b> , 15, 15377-86	3.3	282
67	Twisted photons: new quantum perspectives in high dimensions. <i>Light: Science and Applications</i> , <b>2018</b> , 7, 17146	16.7	242
66	Twisted light transmission over 143 km. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, 13648-13653	11.5	177
65	Multi-photon entanglement in high dimensions. <i>Nature Photonics</i> , <b>2016</b> , 10, 248-252	33.9	172
64	Experimental delayed-choice entanglement swapping. <i>Nature Physics</i> , <b>2012</b> , 8, 479-484	16.2	140
63	Active learning machine learns to create new quantum experiments. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, 1221-1226	11.5	139
62	High-fidelity transmission of entanglement over a high-loss free-space channel. <i>Nature Physics</i> , <b>2009</b> , 5, 389-392	16.2	131
61	Experimental generation of single photons via active multiplexing. <i>Physical Review A</i> , <b>2011</b> , 83,	2.6	121
60	Automated Search for new Quantum Experiments. <i>Physical Review Letters</i> , <b>2016</b> , 116, 090405	7.4	120
59	Interface between path and orbital angular momentum entanglement for high-dimensional photonic quantum information. <i>Nature Communications</i> , <b>2014</b> , 5, 4502	17.4	116

58	Quantum simulation of the wavefunction to probe frustrated Heisenberg spin systems. <i>Nature Physics</i> , <b>2011</b> , 7, 399-405	16.2	114
57	Quantum entanglement of angular momentum states with quantum numbers up to 10,010. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, 13642-13647	11.5	113
56	Twisted photon entanglement through turbulent air across Vienna. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, 14197-201	11.5	105
55	Quantum Teleportation in High Dimensions. <i>Physical Review Letters</i> , <b>2019</b> , 123, 070505	7.4	98
54	High-Dimensional Single-Photon Quantum Gates: Concepts and Experiments. <i>Physical Review Letters</i> , <b>2017</b> , 119, 180510	7.4	88
53	Heralded generation of entangled photon pairs. <i>Nature Photonics</i> , <b>2010</b> , 4, 553-556	33.9	82
52	Happy centenary, photon. <i>Nature</i> , <b>2005</b> , 433, 230-8	50.4	80
51	Cosmic Bell Test: Measurement Settings from Milky Way Stars. <i>Physical Review Letters</i> , <b>2017</b> , 118, 060401	7.4	78
50	Orbital angular momentum of photons and the entanglement of Laguerre-Gaussian modes. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , <b>2017</b> , 375,	3	73
49	The message of the quantum. <i>Nature</i> , <b>2005</b> , 438, 743	50.4	70
48	Advances in high-dimensional quantum entanglement. <i>Nature Reviews Physics</i> , <b>2020</b> , 2, 365-381	23.6	65
47	Experimental Greenberger-Horne-Zeilinger entanglement beyond qubits. <i>Nature Photonics</i> , <b>2018</b> , 12, 759-764	33.9	58
46	Cosmic Bell Test Using Random Measurement Settings from High-Redshift Quasars. <i>Physical Review Letters</i> , <b>2018</b> , 121, 080403	7.4	56
45	Feasibility of 300 km quantum key distribution with entangled states. <i>New Journal of Physics</i> , <b>2009</b> , 11, 085002	2.9	55
44	Information Invariance and Quantum Probabilities. <i>Foundations of Physics</i> , <b>2009</b> , 39, 677-689	1.2	54
43	Gouy Phase Radial Mode Sorter for Light: Concepts and Experiments. <i>Physical Review Letters</i> , <b>2018</b> , 120, 103601	7.4	53
42	Entangled singularity patterns of photons in Ince-Gauss modes. <i>Physical Review A</i> , <b>2013</b> , 87,	2.6	53
41	Entanglement by Path Identity. <i>Physical Review Letters</i> , <b>2017</b> , 118, 080401	7.4	50

40	Quantum circuit analog of the dynamical Casimir effect. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	49
39	Entanglement distribution over a 96-km-long submarine optical fiber. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> , 116, 6684-6688	11.5	45
38	Teleportation of entanglement over 143 km. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, 14202-5	11.5	43
37	Theory of quantum imaging with undetected photons. <i>Physical Review A</i> , <b>2015</b> , 92,	2.6	43
36	Experimental violation of a Bell inequality with two different degrees of freedom of entangled particle pairs. <i>Physical Review A</i> , <b>2009</b> , 79,	2.6	43
35	Quantum orbital angular momentum of elliptically symmetric light. <i>Physical Review A</i> , <b>2013</b> , 87,	2.6	38
34	Quantum Experiments and Graphs: Multipartite States as Coherent Superpositions of Perfect Matchings. <i>Physical Review Letters</i> , <b>2017</b> , 119, 240403	7.4	36
33	How to create and detect N-dimensional entangled photons with an active phase hologram. <i>Applied Physics Letters</i> , <b>2007</b> , 90, 261114	3.4	34
32	Generation of the complete four-dimensional Bell basis. <i>Optica</i> , <b>2017</b> , 4, 1462	8.6	32
31	Einstein-Podolsky-Rosen correlations from colliding Bose-Einstein condensates. <i>Physical Review A</i> , <b>2012</b> , 86,	2.6	30
30	Heralded generation of multiphoton entanglement. <i>Physical Review A</i> , <b>2007</b> , 75,	2.6	28
29	Cyclic transformation of orbital angular momentum modes. <i>New Journal of Physics</i> , <b>2016</b> , 18, 043019	2.9	26
28	Quantum technology: from research to application. <i>Applied Physics B: Lasers and Optics</i> , <b>2016</b> , 122, 1	1.9	21
27	Passively stable distribution of polarisation entanglement over 192 km of deployed optical fibre. <i>Npj Quantum Information</i> , <b>2020</b> , 6,	8.6	20
26	Space QUEST mission proposal: experimentally testing decoherence due to gravity. <i>New Journal of Physics</i> , <b>2018</b> , 20, 063016	2.9	20
25	Quantifying the momentum correlation between two light beams by detecting one. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, 1508-1511	11.5	19
24	Computer-inspired quantum experiments. <i>Nature Reviews Physics</i> , <b>2020</b> , 2, 649-661	23.6	18
23	Arbitrary d-dimensional Pauli X gates of a flying qudit. <i>Physical Review A</i> , <b>2019</b> , 99,	2.6	18

22	Predicting research trends with semantic and neural networks with an application in quantum physics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 1910-1916	11.5	16
21	Bose-Einstein condensate of metastable helium for quantum correlation experiments. <i>Physical Review A</i> , <b>2014</b> , 90,	2.6	16
20	Quantum Information and Randomness. <i>European Review</i> , <b>2010</b> , 18, 469-480	0.3	15
19	Quantum experiments and graphs II: Quantum interference, computation, and state generation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> , 116, 4147-4155	11.5	15
18	Quantum experiments and graphs. III. High-dimensional and multiparticle entanglement. <i>Physical Review A</i> , <b>2019</b> , 99,	2.6	14
17	Quantum optical rotatory dispersion. <i>Science Advances</i> , <b>2016</b> , 2, e1601306	14.3	14
16	Twin-photon correlations in single-photon interference. <i>Physical Review A</i> , <b>2017</b> , 96,	2.6	12
15	Partial polarization by quantum distinguishability. <i>Physical Review A</i> , <b>2017</b> , 95,	2.6	12
14	Computer-Inspired Concept for High-Dimensional Multipartite Quantum Gates. <i>Physical Review Letters</i> , <b>2020</b> , 125, 050501	7.4	11
13	Towards photonic quantum simulation of ground states of frustrated Heisenberg spin systems. <i>Scientific Reports</i> , <b>2014</b> , 4, 3583	4.9	9
12	Nonclassicality of induced coherence without induced emission. <i>Physical Review A</i> , <b>2019</b> , 100,	2.6	9
11	Strategies for achieving high key rates in satellite-based QKD. <i>Npj Quantum Information</i> , <b>2021</b> , 7,	8.6	9
10	The interpretation of quantum mechanics: from disagreement to consensus?. <i>Annalen Der Physik</i> , <b>2013</b> , 525, A51-A54	2.6	7
9	Crossed-crystal scheme for femtosecond-pulsed entangled photon generation in periodically poled potassium titanyl phosphate. <i>Physical Review A</i> , <b>2014</b> , 89,	2.6	6
8	Resolution of Quantum Imaging with Undetected Photons. <i>Quantum - the Open Journal for Quantum Science</i> , 6, 646		4
7	Path identity as a source of high-dimensional entanglement. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 26118-26122	11.5	4
6	Quantum teleportation of physical qubits into logical code spaces. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2021</b> , 118,	11.5	4
5	THEORETICAL STUDIES ON DYNAMICAL CASIMIR EFFECT IN A SUPERCONDUCTING ARTIFICIAL ATOM <b>2010</b> ,		2

4	Quantum gate description for induced coherence without induced emission and its applications. <i>Physical Review A</i> , <b>2017</b> , 96,	2.6	1
3	Quantum key distribution at space scale <b>2015</b> ,		1
2	Experimental Control of the Orbital Angular Momentum of Single and Entangled Photons 199-212		1
1	Introduction to the Proceedings of Horizons of Quantum Physics 2012. <i>Foundations of Physics</i> , <b>2014</b> , 44, 449-451	1.2	