

Anton Zeilinger

List of Publications by Year in Descending Order

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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	Strategies for achieving high key rates in satellite-based QKD. <i>Npj Quantum Information</i> , 2021 , 7,	8.6	9
74	Quantum teleportation of physical qubits into logical code spaces. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	4
73	Advances in high-dimensional quantum entanglement. <i>Nature Reviews Physics</i> , 2020 , 2, 365-381	23.6	65
72	Passively stable distribution of polarisation entanglement over 192 km of deployed optical fibre. <i>Npj Quantum Information</i> , 2020 , 6,	8.6	20
71	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> , 2020 , 117, 1910-1916	11.5	16
70	Computer-inspired quantum experiments. <i>Nature Reviews Physics</i> , 2020 , 2, 649-661	23.6	18
69	Computer-Inspired Concept for High-Dimensional Multipartite Quantum Gates. <i>Physical Review Letters</i> , 2020 , 125, 050501	7.4	11
68	Path identity as a source of high-dimensional entanglement. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 26118-26122	11.5	4
67	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> , 2019 , 116, 6684-6688	11.5	45
66	Quantum experiments and graphs. III. High-dimensional and multiparticle entanglement. <i>Physical Review A</i> , 2019 , 99,	2.6	14
65	Quantum Teleportation in High Dimensions. <i>Physical Review Letters</i> , 2019 , 123, 070505	7.4	98
64	Arbitrary d-dimensional Pauli X gates of a flying qudit. <i>Physical Review A</i> , 2019 , 99,	2.6	18
63	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> , 2019 , 116, 4147-4155	11.5	15
62	Nonclassicality of induced coherence without induced emission. <i>Physical Review A</i> , 2019 , 100,	2.6	9
61	Gouy Phase Radial Mode Sorter for Light: Concepts and Experiments. <i>Physical Review Letters</i> , 2018 , 120, 103601	7.4	53
60	Active learning machine learns to create new quantum experiments. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 1221-1226	11.5	139
59	Satellite-Relayed Intercontinental Quantum Network. <i>Physical Review Letters</i> , 2018 , 120, 030501	7.4	285

58	Twisted photons: new quantum perspectives in high dimensions. <i>Light: Science and Applications</i> , 2018 , 7, 17146	16.7	242
57	Cosmic Bell Test Using Random Measurement Settings from High-Redshift Quasars. <i>Physical Review Letters</i> , 2018 , 121, 080403	7.4	56
56	Experimental Greenberger-Horne-Zeilinger entanglement beyond qubits. <i>Nature Photonics</i> , 2018 , 12, 759-764	33.9	58
55	Space QUEST mission proposal: experimentally testing decoherence due to gravity. <i>New Journal of Physics</i> , 2018 , 20, 063016	2.9	20
54	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> , 2017 , 114, 1508-1511	11.5	19
53	Orbital angular momentum of photons and the entanglement of Laguerre-Gaussian modes. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2017 , 375,	3	73
52	Entanglement by Path Identity. <i>Physical Review Letters</i> , 2017 , 118, 080401	7.4	50
51	Cosmic Bell Test: Measurement Settings from Milky Way Stars. <i>Physical Review Letters</i> , 2017 , 118, 060401	7.4	78
50	Quantum gate description for induced coherence without induced emission and its applications. <i>Physical Review A</i> , 2017 , 96,	2.6	1
49	Twin-photon correlations in single-photon interference. <i>Physical Review A</i> , 2017 , 96,	2.6	12
48	Quantum Experiments and Graphs: Multipartite States as Coherent Superpositions of Perfect Matchings. <i>Physical Review Letters</i> , 2017 , 119, 240403	7.4	36
47	High-Dimensional Single-Photon Quantum Gates: Concepts and Experiments. <i>Physical Review Letters</i> , 2017 , 119, 180510	7.4	88
46	Partial polarization by quantum distinguishability. <i>Physical Review A</i> , 2017 , 95,	2.6	12
45	Generation of the complete four-dimensional Bell basis. <i>Optica</i> , 2017 , 4, 1462	8.6	32
44	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> , 2016 , 113, 13642-13647	11.5	113
43	Twisted light transmission over 143 km. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 13648-13653	11.5	177
42	Multi-photon entanglement in high dimensions. <i>Nature Photonics</i> , 2016 , 10, 248-252	33.9	172
41	Automated Search for new Quantum Experiments. <i>Physical Review Letters</i> , 2016 , 116, 090405	7.4	120

40	Cyclic transformation of orbital angular momentum modes. <i>New Journal of Physics</i> , 2016 , 18, 043019	2.9	26
39	Quantum optical rotatory dispersion. <i>Science Advances</i> , 2016 , 2, e1601306	14.3	14
38	Quantum technology: from research to application. <i>Applied Physics B: Lasers and Optics</i> , 2016 , 122, 1	1.9	21
37	Teleportation of entanglement over 143 km. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 14202-5	11.5	43
36	Twisted photon entanglement through turbulent air across Vienna. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 14197-201	11.5	105
35	Quantum key distribution at space scale 2015 ,		1
34	Theory of quantum imaging with undetected photons. <i>Physical Review A</i> , 2015 , 92,	2.6	43
33	Significant-Loophole-Free Test of Bell's Theorem with Entangled Photons. <i>Physical Review Letters</i> , 2015 , 115, 250401	7.4	642
32	Towards photonic quantum simulation of ground states of frustrated Heisenberg spin systems. <i>Scientific Reports</i> , 2014 , 4, 3583	4.9	9
31	Interface between path and orbital angular momentum entanglement for high-dimensional photonic quantum information. <i>Nature Communications</i> , 2014 , 5, 4502	17.4	116
30	Quantum imaging with undetected photons. <i>Nature</i> , 2014 , 512, 409-12	50.4	292
29	Introduction to the Proceedings of Horizons of Quantum Physics 2012. <i>Foundations of Physics</i> , 2014 , 44, 449-451	1.2	
28	Bose-Einstein condensate of metastable helium for quantum correlation experiments. <i>Physical Review A</i> , 2014 , 90,	2.6	16
27	Crossed-crystal scheme for femtosecond-pulsed entangled photon generation in periodically poled potassium titanyl phosphate. <i>Physical Review A</i> , 2014 , 89,	2.6	6
26	Entangled singularity patterns of photons in Ince-Gauss modes. <i>Physical Review A</i> , 2013 , 87,	2.6	53
25	Quantum orbital angular momentum of elliptically symmetric light. <i>Physical Review A</i> , 2013 , 87,	2.6	38
24	The interpretation of quantum mechanics: from disagreement to consensus?. <i>Annalen Der Physik</i> , 2013 , 525, A51-A54	2.6	7
23	Quantum discord as resource for remote state preparation. <i>Nature Physics</i> , 2012 , 8, 666-670	16.2	329

22	Multiphoton entanglement and interferometry. <i>Reviews of Modern Physics</i> , 2012 , 84, 777-838	40.5	750
21	Experimental delayed-choice entanglement swapping. <i>Nature Physics</i> , 2012 , 8, 479-484	16.2	140
20	Einstein-Podolsky-Rosen correlations from colliding Bose-Einstein condensates. <i>Physical Review A</i> , 2012 , 86,	2.6	30
19	Experimental generation of single photons via active multiplexing. <i>Physical Review A</i> , 2011 , 83,	2.6	121
18	Quantum simulation of the wavefunction to probe frustrated Heisenberg spin systems. <i>Nature Physics</i> , 2011 , 7, 399-405	16.2	114
17	Quantum circuit analog of the dynamical Casimir effect. <i>Physical Review B</i> , 2011 , 84,	3.3	49
16	Heralded generation of entangled photon pairs. <i>Nature Photonics</i> , 2010 , 4, 553-556	33.9	82
15	Quantum Information and Randomness. <i>European Review</i> , 2010 , 18, 469-480	0.3	15
14	THEORETICAL STUDIES ON DYNAMICAL CASIMIR EFFECT IN A SUPERCONDUCTING ARTIFICIAL ATOM 2010 ,		2
13	Experimental violation of a Bell inequality with two different degrees of freedom of entangled particle pairs. <i>Physical Review A</i> , 2009 , 79,	2.6	43
12	Information Invariance and Quantum Probabilities. <i>Foundations of Physics</i> , 2009 , 39, 677-689	1.2	54
11	High-fidelity transmission of entanglement over a high-loss free-space channel. <i>Nature Physics</i> , 2009 , 5, 389-392	16.2	131
10	Feasibility of 300 km quantum key distribution with entangled states. <i>New Journal of Physics</i> , 2009 , 11, 085002	2.9	55
9	Heralded generation of multiphoton entanglement. <i>Physical Review A</i> , 2007 , 75,	2.6	28
8	How to create and detect N-dimensional entangled photons with an active phase hologram. <i>Applied Physics Letters</i> , 2007 , 90, 261114	3.4	34
7	Experimental demonstration of free-space decoy-state quantum key distribution over 144 km. <i>Physical Review Letters</i> , 2007 , 98, 010504	7.4	459
6	A wavelength-tunable fiber-coupled source of narrowband entangled photons. <i>Optics Express</i> , 2007 , 15, 15377-86	3.3	282
5	Happy centenary, photon. <i>Nature</i> , 2005 , 433, 230-8	50.4	80

4	The message of the quantum. <i>Nature</i> , 2005 , 438, 743	50.4	70
3	Experimental realization of any discrete unitary operator. <i>Physical Review Letters</i> , 1994 , 73, 58-61	7.4	999
2	Resolution of Quantum Imaging with Undetected Photons. <i>Quantum - the Open Journal for Quantum Science</i> , 6 , 646		4
1	Experimental Control of the Orbital Angular Momentum of Single and Entangled Photons 199-212		1