Anton Zeilinger

List of Publications by Year
in descending order

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78 papers	11,107 citations	57719 44 h-index	79644 73 g-index
81 all docs	81 docs citations	81 times ranked	7123 citing authors

#	Article	IF	Citations
1	Quantum indistinguishability by path identity and with undetected photons. Reviews of Modern Physics, 2022, 94, .	16.4	27
2	Strategies for achieving high key rates in satellite-based QKD. Npj Quantum Information, 2021, 7, .	2.8	29
3	Characterizing mixed-state entanglement through single-photon interference. Physical Review A, 2021, 104, .	1.0	7
4	Quantum teleportation of physical qubits into logical code spaces. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	21
5	Computer-Inspired Concept for High-Dimensional Multipartite Quantum Gates. Physical Review Letters, 2020, 125, 050501.	2.9	37
6	Path identity as a source of high-dimensional entanglement. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 26118-26122.	3.3	22
7	Advances in high-dimensional quantum entanglement. Nature Reviews Physics, 2020, 2, 365-381.	11.9	234
8	Passively stable distribution of polarisation entanglement over 192 km of deployed optical fibre. Npj Quantum Information, 2020, 6, .	2.8	43
9	Predicting research trends with semantic and neural networks with an application in quantum physics. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 1910-1916.	3.3	48
10	Computer-inspired quantum experiments. Nature Reviews Physics, 2020, 2, 649-661.	11.9	48
11	Quantum Teleportation in High Dimensions. Physical Review Letters, 2019, 123, 070505.	2.9	228
12	Entanglement distribution over a 96-km-long submarine optical fiber. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 6684-6688.	3.3	85
13	Quantum experiments and graphs. III. High-dimensional and multiparticle entanglement. Physical Review A, 2019, 99, .	1.0	20
14	Arbitrary <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>d</mml:mi></mml:math> -dimensional Pauli <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>X</mml:mi></mml:math> gates of a flying qudit. Physical Review A, 2019, 99, .	1.0	29
15	Quantum experiments and graphs II: Quantum interference, computation, and state generation. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 4147-4155.	3.3	30
16	Nonclassicality of induced coherence without induced emission. Physical Review A, 2019, 100, .	1.0	22
17	Gouy Phase Radial Mode Sorter for Light: Concepts and Experiments. Physical Review Letters, 2018, 120, 103601.	2.9	74
18	Active learning machine learns to create new quantum experiments. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 1221-1226.	3.3	208

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19	Satellite-Relayed Intercontinental Quantum Network. Physical Review Letters, 2018, 120, 030501.	2.9	499
20	Twisted photons: new quantum perspectives in high dimensions. Light: Science and Applications, 2018, 7, 17146-17146.	7.7	412
21	Experimental Greenbergerâ€“Horneâ€“Zeilinger entanglement beyond qubits. Nature Photonics, 2018, 12, 759-764.	15.6	109
22	Space QUEST mission proposal: experimentally testing decoherence due to gravity. New Journal of Physics, 2018, 20, 063016.	1.2	36
23	Cosmic Bell Test Using Random Measurement Settings from High-Redshift Quasars. Physical Review Letters, 2018, 121, 080403.	2.9	89
24	Quantifying the momentum correlation between two light beams by detecting one. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 1508-1511.	3.3	31
25	Orbital angular momentum of photons and the entanglement of Laguerreâ€“Gaussian modes. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2017, 375, 20150442.	1.6	104
26	Entanglement by Path Identity. Physical Review Letters, 2017, 118, 080401.	2.9	81
27	Cosmic Bell Test: Measurement Settings from MilkyÂWay Stars. Physical Review Letters, 2017, 118, 060401.	2.9	111
28	Quantum gate description for induced coherence without induced emission and its applications. Physical Review A, 2017, 96, .	1.0	3
29	Twin-photon correlations in single-photon interference. Physical Review A, 2017, 96, .	1.0	22
30	Quantum Experiments and Graphs: Multiparty States as Coherent Superpositions of Perfect Matchings. Physical Review Letters, 2017, 119, 240403.	2.9	57
31	High-Dimensional Single-Photon Quantum Gates: Concepts and Experiments. Physical Review Letters, 2017, 119, 180510.	2.9	142
32	Partial polarization by quantum distinguishability. Physical Review A, 2017, 95, .	1.0	20
33	Generation of the complete four-dimensional Bell basis. Optica, 2017, 4, 1462.	4.8	51
34	Cyclic transformation of orbital angular momentum modes. New Journal of Physics, 2016, 18, 043019.	1.2	36
35	Quantum optical rotatory dispersion. Science Advances, 2016, 2, e1601306.	4.7	26
36	Quantum technology: from research to application. Applied Physics B: Lasers and Optics, 2016, 122, 1.	1.1	42

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37	Quantum entanglement of angular momentum states with quantum numbers up to 10,010. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 13642-13647.	3.3	190
38	Twisted light transmission over 143 km. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 13648-13653.	3.3	276
39	Multi-photon entanglement in high dimensions. Nature Photonics, 2016, 10, 248-252.	15.6	253
40	Automated Search for new Quantum Experiments. Physical Review Letters, 2016, 116, 090405.	2.9	177
41	Quantum key distribution at space scale. , 2015, , .		1
42	Theory of quantum imaging with undetected photons. Physical Review A, 2015, 92, .	1.0	70
43	Significant-Loophole-Free Test of Bellâ€™s Theorem with Entangled Photons. Physical Review Letters, 2015, 115, 250401.	2.9	932
44	Teleportation of entanglement over 143 km. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 14202-14205.	3.3	56
45	Twisted photon entanglement through turbulent air across Vienna. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 14197-14201.	3.3	147
46	Towards photonic quantum simulation of ground states of frustrated Heisenberg spin systems. Scientific Reports, 2015, 4, 3583.	1.6	12
47	Bose-Einstein condensate of metastable helium for quantum correlation experiments. Physical Review A, 2014, 90, .	1.0	23
48	Crossed-crystal scheme for femtosecond-pulsed entangled photon generation in periodically poled potassium titanyl phosphate. Physical Review A, 2014, 89, .	1.0	8
49	Interface between path and orbital angular momentum entanglement for high-dimensional photonic quantum information. Nature Communications, 2014, 5, 4502.	5.8	148
50	Quantum imaging with undetected photons. Nature, 2014, 512, 409-412.	13.7	487
51	Introduction to the Proceedings of â€œHorizons of Quantum Physicsâ€•2012. Foundations of Physics, 2014, 44, 449-451.	0.6	0
52	Entangled singularity patterns of photons in Ince-Gauss modes. Physical Review A, 2013, 87, .	1.0	70
53	Quantum orbital angular momentum of elliptically symmetric light. Physical Review A, 2013, 87, .	1.0	53
54	The interpretation of quantum mechanics: from disagreement to consensus?. Annalen Der Physik, 2013, 525, A51-A54.	0.9	10

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55	Einstein-Podolsky-Rosen correlations from colliding Bose-Einstein condensates. Physical Review A, 2012, 86, .	1.0	32
56	Quantum discord as resource for remote stateÂpreparation. Nature Physics, 2012, 8, 666-670.	6.5	397
57	Multiphoton entanglement and interferometry. Reviews of Modern Physics, 2012, 84, 777-838.	16.4	1,007
58	Experimental delayed-choice entanglement swapping. Nature Physics, 2012, 8, 479-484.	6.5	171
59	Quantum circuit analog of the dynamical Casimir effect. Physical Review B, 2011, 84, .	1.1	53
60	Experimental generation of single photons via active multiplexing. Physical Review A, 2011, 83, .	1.0	165
61	Quantum simulation of the wavefunction to probe frustrated Heisenberg spin systems. Nature Physics, 2011, 7, 399-405.	6.5	145
62	Experimental photonic state engineering and quantum control of two optical qubits. , 2011, , .		0
63	Heralded generation of entangled photon pairs. Nature Photonics, 2010, 4, 553-556.	15.6	114
64	Quantum Information and Randomness. European Review, 2010, 18, 469-480.	0.4	18
65	THEORETICAL STUDIES ON DYNAMICAL CASIMIR EFFECT IN A SUPERCONDUCTING ARTIFICIAL ATOM. , 2010, , .		2
66	Experimental violation of a Bell inequality with two different degrees of freedom of entangled particle pairs. Physical Review A, 2009, 79, .	1.0	46
67	Information Invariance and Quantum Probabilities. Foundations of Physics, 2009, 39, 677-689.	0.6	62
68	High-fidelity transmission of entanglement over a high-loss free-space channel. Nature Physics, 2009, 5, 389-392.	6.5	165
69	Feasibility of 300â€‰km quantum key distribution with entangled states. New Journal of Physics, 2009, 11, 085002.	1.2	72
70	Heralded generation of multiphoton entanglement. Physical Review A, 2007, 75, .	1.0	33
71	How to create and detect N-dimensional entangled photons with an active phase hologram. Applied Physics Letters, 2007, 90, 261114.	1.5	40
72	Experimental Demonstration of Free-Space Decoy-State Quantum Key Distribution over 144Âkm. Physical Review Letters, 2007, 98, 010504.	2.9	589

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73	A wavelength-tunable fiber-coupled source of narrowband entangled photons. Optics Express, 2007, 15, 15377.	1.7	349
74	QUANTUM COMMUNICATION AND QUANTUM COMPUTATION WITH ENTANGLED PHOTONS. , 2006, , .		0
75	Happy centenary, photon. Nature, 2005, 433, 230-238.	13.7	116
76	The message of the quantum. Nature, 2005, 438, 743-743.	13.7	93
77	Experimental realization of any discrete unitary operator. Physical Review Letters, 1994, 73, 58-61.	2.9	1,417
78	Resolution of Quantum Imaging with Undetected Photons. Quantum - the Open Journal for Quantum Science, 0, 6, 646.	0.0	20