

# Yu-Ao Chen

## 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.

108  
papers

9,718  
citations

49  
h-index

98  
g-index

118  
ext. papers

12,151  
ext. citations

12.9  
avg, IF

5.72  
L-index

#	Paper	IF	Citations
108	Loss-tolerant all-photonic quantum repeater with generalized Shor code. <i>Optica</i> , <b>2022</b> , 9, 152	8.6	1
107	Second sound attenuation near quantum criticality.. <i>Science</i> , <b>2022</b> , 375, 528-533	33.3	1
106	Experimental exploration of five-qubit quantum error-correcting code with superconducting qubits.. <i>National Science Review</i> , <b>2022</b> , 9, nwab011	10.8	7
105	Efficient Bipartite Entanglement Detection Scheme with a Quantum Adversarial Solver.. <i>Physical Review Letters</i> , <b>2022</b> , 128, 110501	7.4	0
104	Quantum State Transfer over 1200km Assisted by Prior Distributed Entanglement.. <i>Physical Review Letters</i> , <b>2022</b> , 128, 170501	7.4	1
103	Dynamic formation of quasicondensate and spontaneous vortices in a strongly interacting Fermi gas. <i>Physical Review Research</i> , <b>2021</b> , 3,	3.9	1
102	Universal Dynamical Scaling of Quasi-Two-Dimensional Vortices in a Strongly Interacting Fermionic Superfluid. <i>Physical Review Letters</i> , <b>2021</b> , 126, 185302	7.4	2
101	Distributed quantum phase estimation with entangled photons. <i>Nature Photonics</i> , <b>2021</b> , 15, 137-142	33.9	23
100	An integrated space-to-ground quantum communication network over 4,600 kilometres. <i>Nature</i> , <b>2021</b> , 589, 214-219	50.4	97
99	Experimental Quantum Generative Adversarial Networks for Image Generation. <i>Physical Review Applied</i> , <b>2021</b> , 16,	4.3	20
98	Improved Spatial Resolution Achieved by Chromatic Intensity Interferometry. <i>Physical Review Letters</i> , <b>2021</b> , 127, 103601	7.4	1
97	Counting Classical Nodes in Quantum Networks. <i>Physical Review Letters</i> , <b>2020</b> , 124, 180503	7.4	3
96	Towards satellite-based quantum-secure time transfer. <i>Nature Physics</i> , <b>2020</b> , 16, 848-852	16.2	13
95	Entanglement-based secure quantum cryptography over 1,120 kilometres. <i>Nature</i> , <b>2020</b> , 582, 501-505	50.4	131
94	Implementation of quantum key distribution surpassing the linear rate-transmittance bound. <i>Nature Photonics</i> , <b>2020</b> , 14, 422-425	33.9	61
93	Observation of state-to-state hyperfine-changing collisions in a Bose-Fermi mixture of Li6 and K41 atoms. <i>Physical Review A</i> , <b>2020</b> , 101,	2.6	1
92	Measurement-Device-Independent Entanglement Witness of Tripartite Entangled States and Its Applications. <i>Physical Review Letters</i> , <b>2020</b> , 124, 160503	7.4	6

91	Discriminating quantum correlations with networking quantum teleportation. <i>Physical Review Research</i> , <b>2020</b> , 2,	3.9	3
90	Chromatic interferometry with small frequency differences. <i>Optics Express</i> , <b>2020</b> , 28, 32294-32301	3.3	2
89	Photonic realization of quantum resetting. <i>Optica</i> , <b>2020</b> , 7, 766	8.6	1
88	High detection efficiency silicon single-photon detector with a monolithic integrated circuit of active quenching and active reset. <i>Review of Scientific Instruments</i> , <b>2020</b> , 91, 123106	1.7	
87	A battery-powered floating current source of 100 A for precise and fast control of magnetic field. <i>AIP Advances</i> , <b>2020</b> , 10, 125207	1.5	1
86	Oscillatory-like expansion of a Fermionic superfluid. <i>Science Bulletin</i> , <b>2020</b> , 65, 7-11	10.6	3
85	Satellite testing of a gravitationally induced quantum decoherence model. <i>Science</i> , <b>2019</b> , 366, 132-135	33.3	14
84	Experimental quantum repeater without quantum memory. <i>Nature Photonics</i> , <b>2019</b> , 13, 644-648	33.9	45
83	Degenerate Bose gases near a d-wave shape resonance. <i>Nature Physics</i> , <b>2019</b> , 15, 570-576	16.2	12
82	Experimental Quantum Switching for Exponentially Superior Quantum Communication Complexity. <i>Physical Review Letters</i> , <b>2019</b> , 122, 120504	7.4	41
81	11-watt single-frequency 1342-nm laser based on multi-segmented Nd:YVO crystal. <i>Optics Express</i> , <b>2019</b> , 27, 31913-31925	3.3	5
80	Experimental quantum network coding. <i>Npj Quantum Information</i> , <b>2019</b> , 5,	8.6	9
79	Color Erasure Detectors Enable Chromatic Interferometry. <i>Physical Review Letters</i> , <b>2019</b> , 123, 243601	7.4	6
78	Bell Test over Extremely High-Loss Channels: Towards Distributing Entangled Photon Pairs between Earth and the Moon. <i>Physical Review Letters</i> , <b>2018</b> , 120, 140405	7.4	15
77	Coupled dipole oscillations of a mass-imbalanced Bose-Fermi superfluid mixture. <i>Physical Review B</i> , <b>2018</b> , 97,	3.3	14
76	Satellite-Relayed Intercontinental Quantum Network. <i>Physical Review Letters</i> , <b>2018</b> , 120, 030501	7.4	285
75	High-Speed Device-Independent Quantum Random Number Generation without a Detection Loophole. <i>Physical Review Letters</i> , <b>2018</b> , 120, 010503	7.4	53
74	Entanglement Structure: Entanglement Partitioning in Multipartite Systems and Its Experimental Detection Using Optimizable Witnesses. <i>Physical Review X</i> , <b>2018</b> , 8,	9.1	12

73	High-power 671 nm laser by second-harmonic generation with 93% efficiency in an external ring cavity. <i>Optics Letters</i> , <b>2018</b> , 43, 1666-1669	3	12
72	30 W, sub-kHz frequency-locked laser at 532 nm. <i>Optics Express</i> , <b>2018</b> , 26, 33756-33763	3.3	4
71	12-Photon Entanglement and Scalable Scattershot Boson Sampling with Optimal Entangled-Photon Pairs from Parametric Down-Conversion. <i>Physical Review Letters</i> , <b>2018</b> , 121, 250505	7.4	142
70	Large scale quantum key distribution: challenges and solutions [Invited]. <i>Optics Express</i> , <b>2018</b> , 26, 24260-24273	3.4	386
69	Feshbach spectroscopy of an ultracold K <sub>41</sub> Li <sub>6</sub> mixture and K <sub>41</sub> atoms. <i>Physical Review A</i> , <b>2018</b> , 98,	2.6	3
68	Controlled state-to-state atom-exchange reaction in an ultracold atom dimer mixture. <i>Nature Physics</i> , <b>2017</b> , 13, 699-703	16.2	37
67	Direct counterfactual communication via quantum Zeno effect. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, 4920-4924	11.5	38
66	Satellite-based entanglement distribution over 1200 kilometers. <i>Science</i> , <b>2017</b> , 356, 1140-1144	33.3	527
65	A quantum degenerate Bose-Einstein mixture of <sup>41</sup> K and <sup>6</sup> Li. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , <b>2017</b> , 50, 094001	1.3	6
64	Experimental nested purification for a linear optical quantum repeater. <i>Nature Photonics</i> , <b>2017</b> , 11, 695-699	9.9	31
63	Four-body ring-exchange interactions and anyonic statistics within a minimal toric-code Hamiltonian. <i>Nature Physics</i> , <b>2017</b> , 13, 1195-1200	16.2	49
62	Satellite-to-ground quantum key distribution. <i>Nature</i> , <b>2017</b> , 549, 43-47	50.4	585
61	Ground-to-satellite quantum teleportation. <i>Nature</i> , <b>2017</b> , 549, 70-73	50.4	300
60	Sine wave gating silicon single-photon detectors for multiphoton entanglement experiments. <i>Review of Scientific Instruments</i> , <b>2017</b> , 88, 083102	1.7	3
59	Space-to-Ground Quantum Key Distribution Using a Small-Sized Payload on Tiangong-2 Space Lab. <i>Chinese Physics Letters</i> , <b>2017</b> , 34, 090302	1.8	23
58	Satellite-to-Ground Entanglement-Based Quantum Key Distribution. <i>Physical Review Letters</i> , <b>2017</b> , 119, 200501	7.4	91
57	Two-Hierarchy Entanglement Swapping for a Linear Optical Quantum Repeater. <i>Physical Review Letters</i> , <b>2017</b> , 119, 170502	7.4	19
56	10-Qubit Entanglement and Parallel Logic Operations with a Superconducting Circuit. <i>Physical Review Letters</i> , <b>2017</b> , 119, 180511	7.4	212

55	Experimental quantum channel simulation. <i>Physical Review A</i> , <b>2017</b> , 95,	2.6	15
54	Observation of ten-photon entanglement using thin BiB <sub>3</sub> O <sub>6</sub> crystals. <i>Optica</i> , <b>2017</b> , 4, 77	8.6	38
53	Secret Sharing of a Quantum State. <i>Physical Review Letters</i> , <b>2016</b> , 117, 030501	7.4	50
52	Experimental Ten-Photon Entanglement. <i>Physical Review Letters</i> , <b>2016</b> , 117, 210502	7.4	310
51	Generation and detection of atomic spin entanglement in optical lattices. <i>Nature Physics</i> , <b>2016</b> , 12, 783-787	7.2	45
50	Narrow-linewidth cooling of ( <sup>6</sup> )Li atoms using the 2S-3P transition. <i>Applied Physics B: Lasers and Optics</i> , <b>2016</b> , 122, 1	1.9	5
49	Production of large K41 Bose-Einstein condensates using D1 gray molasses. <i>Physical Review A</i> , <b>2016</b> , 94,	2.6	22
48	Observation of Coupled Vortex Lattices in a Mass-Imbalance Bose and Fermi Superfluid Mixture. <i>Physical Review Letters</i> , <b>2016</b> , 117, 145301	7.4	57
47	Genuine High-Order Einstein-Podolsky-Rosen Steering. <i>Physical Review Letters</i> , <b>2015</b> , 115, 010402	7.4	72
46	Experimental realization of a concatenated Greenberger-Horne-Zeilinger state for macroscopic quantum superpositions. <i>Nature Photonics</i> , <b>2014</b> , 8, 364-368	33.9	31
45	Implementation of a measurement-device-independent entanglement witness. <i>Physical Review Letters</i> , <b>2014</b> , 112, 140506	7.4	40
44	Direct and full-scale experimental verifications towards ground-state satellite quantum key distribution. <i>Nature Photonics</i> , <b>2013</b> , 7, 387-393	33.9	170
43	Experimental realization of strong effective magnetic fields in optical superlattice potentials. <i>Applied Physics B: Lasers and Optics</i> , <b>2013</b> , 113, 1-11	1.9	42
42	Experimental quasi-single-photon transmission from satellite to earth. <i>Optics Express</i> , <b>2013</b> , 21, 20032-49	9.3	53
41	Observation of eight-photon entanglement. <i>Nature Photonics</i> , <b>2012</b> , 6, 225-228	33.9	296
40	Probing the relaxation towards equilibrium in an isolated strongly correlated one-dimensional Bose gas. <i>Nature Physics</i> , <b>2012</b> , 8, 325-330	16.2	639
39	Quantum teleportation and entanglement distribution over 100-kilometre free-space channels. <i>Nature</i> , <b>2012</b> , 488, 185-8	50.4	284
38	Experimental demonstration of topological error correction. <i>Nature</i> , <b>2012</b> , 482, 489-94	50.4	122

37	Experimental realization of plaquette resonating valence-bond states with ultracold atoms in optical superlattices. <i>Physical Review Letters</i> , <b>2012</b> , 108, 205301	7.4	63
36	Landau-Zener sweeps and sudden quenches in coupled Bose-Hubbard chains. <i>Physical Review Letters</i> , <b>2011</b> , 106, 155302	7.4	28
35	Experimental measurement-based quantum computing beyond the cluster-state model. <i>Nature Photonics</i> , <b>2011</b> , 5, 117-123	33.9	15
34	Many-body Landau-Zener dynamics in coupled one-dimensional Bose liquids. <i>Nature Physics</i> , <b>2011</b> , 7, 61-67	16.2	114
33	Deterministic spin-wave interferometer based on the Rydberg blockade. <i>Physical Review A</i> , <b>2011</b> , 83,	2.6	5
32	Experimental realization of strong effective magnetic fields in an optical lattice. <i>Physical Review Letters</i> , <b>2011</b> , 107, 255301	7.4	53 <sup>1</sup>
31	Controlling correlated tunneling and superexchange interactions with ac-driven optical lattices. <i>Physical Review Letters</i> , <b>2011</b> , 107, 210405	7.4	131
30	Experimental demonstration of a heralded entanglement source. <i>Nature Photonics</i> , <b>2010</b> , 4, 549-552	33.9	268
29	Experimental demonstration of a hyper-entangled ten-qubit Schrödinger cat state. <i>Nature Physics</i> , <b>2010</b> , 6, 331-335	16.2	236
28	Heralded generation of an atomic NOON state. <i>Physical Review Letters</i> , <b>2010</b> , 104, 043601	7.4	40
27	Controlling and detecting spin correlations of ultracold atoms in optical lattices. <i>Physical Review Letters</i> , <b>2010</b> , 105, 265303	7.4	82
26	Increasing the statistical significance of entanglement detection in experiments. <i>Physical Review Letters</i> , <b>2010</b> , 104, 210401	7.4	28
25	Experimental realization of programmable quantum gate array for directly probing commutation relations of Pauli operators. <i>Physical Review Letters</i> , <b>2010</b> , 105, 120402	7.4	7
24	Teleportation-based realization of an optical quantum two-qubit entangling gate. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2010</b> , 107, 20869-74	11.5	35
23	A millisecond quantum memory for scalable quantum networks. <i>Nature Physics</i> , <b>2009</b> , 5, 95-99	16.2	180
22	Experimental demonstration of a BDCZ quantum repeater node. <i>Nature</i> , <b>2008</b> , 454, 1098-101	50.4	303
21	Memory-built-in quantum teleportation with photonic and atomic qubits. <i>Nature Physics</i> , <b>2008</b> , 4, 103-107	16.2	142
20	Multistage entanglement swapping. <i>Physical Review Letters</i> , <b>2008</b> , 101, 080403	7.4	68

19	Robust and efficient quantum repeaters with atomic ensembles and linear optics. <i>Physical Review A</i> , <b>2008</b> , 77,	2.6	117
18	Quantum memory with optically trapped atoms. <i>Physical Review Letters</i> , <b>2008</b> , 101, 120501	7.4	22
17	Fault-tolerant quantum repeater with atomic ensembles and linear optics. <i>Physical Review A</i> , <b>2007</b> , 76,	2.6	94
16	Demonstration of a stable atom-photon entanglement source for quantum repeaters. <i>Physical Review Letters</i> , <b>2007</b> , 99, 180505	7.4	91
15	Synchronized independent narrow-band single photons and efficient generation of photonic entanglement. <i>Physical Review Letters</i> , <b>2007</b> , 98, 180503	7.4	49
14	Experimental realization of one-way quantum computing with two-photon four-qubit cluster states. <i>Physical Review Letters</i> , <b>2007</b> , 99, 120503	7.4	139
13	Robust creation of entanglement between remote memory qubits. <i>Physical Review Letters</i> , <b>2007</b> , 98, 240502	7.4	151
12	Deterministic and storable single-photon source based on a quantum memory. <i>Physical Review Letters</i> , <b>2006</b> , 97, 173004	7.4	107
11	Comment on "Quantum key distribution with blind polarization bases". <i>Physical Review Letters</i> , <b>2006</b> , 96, 078901; author reply 078902	7.4	6
10	Experimental violation of Bell's inequality beyond Tsirelson's bound. <i>Physical Review Letters</i> , <b>2006</b> , 97, 170408	7.4	16
9	Experimental quantum error rejection for quantum communication. <i>Physical Review Letters</i> , <b>2006</b> , 96, 220504	7.4	16
8	Experimental construction of optical multiqubit cluster states from Bell states. <i>Physical Review A</i> , <b>2006</b> , 73,	2.6	49
7	Experimental quantum teleportation of a two-qubit composite system. <i>Nature Physics</i> , <b>2006</b> , 2, 678-682	16.2	136
6	Experimental demonstration of a nondestructive controlled-NOT quantum gate for two independent photon qubits. <i>Physical Review Letters</i> , <b>2005</b> , 94, 030501	7.4	115
5	Experimental quantum secret sharing and third-man quantum cryptography. <i>Physical Review Letters</i> , <b>2005</b> , 95, 200502	7.4	107
4	Experimental realization of optimal asymmetric cloning and telecloning via partial teleportation. <i>Physical Review Letters</i> , <b>2005</b> , 95, 030502	7.4	79
3	Experimental demonstration of five-photon entanglement and open-destination teleportation. <i>Nature</i> , <b>2004</b> , 430, 54-8	50.4	470
2	Experimental realization of entanglement concentration and a quantum repeater. <i>Physical Review Letters</i> , <b>2003</b> , 90, 207901	7.4	176

- 1 Experimental violation of local realism by four-photon Greenberger-Horne-Zeilinger entanglement. *Physical Review Letters*, **2003**, 91, 180401 7.4 153