

Yu-Ao Chen

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3501048/publications.pdf>

Version: 2024-02-01

117
papers

14,023
citations

30070

54
h-index

23533

111
g-index

118
all docs

118
docs citations

118
times ranked

8185
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental exploration of five-qubit quantum error-correcting code with superconducting qubits. National Science Review, 2022, 9, nwab011.	9.5	22
2	Loss-tolerant all-photonic quantum repeater with generalized Shor code. Optica, 2022, 9, 152.	9.3	9
3	Second sound attenuation near quantum criticality. Science, 2022, 375, 528-533.	12.6	15
4	Efficient Bipartite Entanglement Detection Scheme with a Quantum Adversarial Solver. Physical Review Letters, 2022, 128, 110501.	7.8	6
5	Observation of the density dependence of the closed-channel fraction of a ^6Li superfluid. National Science Review, 2022, 9, .	9.5	1
6	Quantum State Transfer over 1200Åkm Assisted by Prior Distributed Entanglement. Physical Review Letters, 2022, 128, 170501.	7.8	15
7	Distributed quantum phase estimation with entangled photons. Nature Photonics, 2021, 15, 137-142.	31.4	71
8	An integrated space-to-ground quantum communication network over 4,600 kilometres. Nature, 2021, 589, 214-219.	27.8	415
9	Universal Dynamical Scaling of Quasi-Two-Dimensional Vortices in a Strongly Interacting Fermionic Superfluid. Physical Review Letters, 2021, 126, 185302.	7.8	5
10	Experimental Quantum Generative Adversarial Networks for Image Generation. Physical Review Applied, 2021, 16, .	3.8	87
11	Improved Spatial Resolution Achieved by Chromatic Intensity Interferometry. Physical Review Letters, 2021, 127, 103601.	7.8	3
12	Dynamic formation of quasicondensate and spontaneous vortices in a strongly interacting Fermi gas. Physical Review Research, 2021, 3, .	3.6	6
13	Oscillatory-like expansion of a Fermionic superfluid. Science Bulletin, 2020, 65, 7-11.	9.0	5
14	Verification of a resetting protocol for an uncontrolled superconducting qubit. Npj Quantum Information, 2020, 6, .	6.7	2
15	Counting Classical Nodes in Quantum Networks. Physical Review Letters, 2020, 124, 180503.	7.8	8
16	Towards satellite-based quantum-secure time transfer. Nature Physics, 2020, 16, 848-852.	16.7	43
17	Entanglement-based secure quantum cryptography over 1,120 kilometres. Nature, 2020, 582, 501-505.	27.8	350
18	Implementation of quantum key distribution surpassing the linear rate-transmittance bound. Nature Photonics, 2020, 14, 422-425.	31.4	130

#	ARTICLE	IF	CITATIONS
19	Observation of state-to-state hyperfine-changing collisions in a Bose-Fermi mixture of ^6Li atoms. Physical Review A, 2020, 101, .	2.5	2
20	Measurement-Device-Independent Entanglement Witness of Tripartite Entangled States and Its Applications. Physical Review Letters, 2020, 124, 160503.	7.8	12
21	Discriminating quantum correlations with networking quantum teleportation. Physical Review Research, 2020, 2, .	3.6	10
22	Chromatic interferometry with small frequency differences. Optics Express, 2020, 28, 32294.	3.4	2
23	Photonic realization of quantum resetting. Optica, 2020, 7, 766.	9.3	5
24	High detection efficiency silicon single-photon detector with a monolithic integrated circuit of active quenching and active reset. Review of Scientific Instruments, 2020, 91, 123106.	1.3	3
25	A battery-powered floating current source of 100 A for precise and fast control of magnetic field. AIP Advances, 2020, 10, .	1.3	2
26	Demonstration of an Exponential Advantage in Communication Complexity via the Quantum Switch. , 2020, , .		0
27	Discriminating Quantum Correlations with Networking Quantum Teleportation. , 2020, , .		0
28	Experimental random-party entanglement distillation via weak measurement. Physical Review Research, 2020, 2, .	3.6	2
29	Satellite testing of a gravitationally induced quantum decoherence model. Science, 2019, 366, 132-135.	12.6	40
30	Experimental quantum repeater without quantum memory. Nature Photonics, 2019, 13, 644-648.	31.4	93
31	Degenerate Bose gases near a d-wave shape resonance. Nature Physics, 2019, 15, 570-576.	16.7	21
32	Experimental Quantum Switching for Exponentially Superior Quantum Communication Complexity. Physical Review Letters, 2019, 122, 120504.	7.8	82
33	Experimental quantum network coding. Npj Quantum Information, 2019, 5, .	6.7	31
34	Color Erasure Detectors Enable Chromatic Interferometry. Physical Review Letters, 2019, 123, 243601.	7.8	12
35	11-watt single-frequency 1342-nm laser based on multi-segmented Nd:YVO ₄ crystal. Optics Express, 2019, 27, 31913.	3.4	9
36	High-power High-efficiency Second Harmonic Generation of 1342-nm Laser in LBO and PPKTP. , 2019, , .		0

#	ARTICLE	IF	CITATIONS
37	Bell Test over Extremely High-Loss Channels: Towards Distributing Entangled Photon Pairs between Earth and the Moon. <i>Physical Review Letters</i> , 2018, 120, 140405.	7.8	32
38	Coupled dipole oscillations of a mass-imbalanced Bose-Fermi superfluid mixture. <i>Physical Review B</i> , 2018, 97, .	3.2	22
39	Satellite-Relayed Intercontinental Quantum Network. <i>Physical Review Letters</i> , 2018, 120, 030501.	7.8	499
40	High-Speed Device-Independent Quantum Random Number Generation without a Detection Loophole. <i>Physical Review Letters</i> , 2018, 120, 010503.	7.8	85
41	12-Photon Entanglement and Scalable Scattershot Boson Sampling with Optimal Entangled-Photon Pairs from Parametric Down-Conversion. <i>Physical Review Letters</i> , 2018, 121, 250505.	7.8	249
42	Large scale quantum key distribution: challenges and solutions [Invited]. <i>Optics Express</i> , 2018, 26, 24260.	3.4	148
43	Feshbach spectroscopy of an ultracold $K^{41}\sim Li^6$ mixture and K^{41} atoms. <i>Physical Review A</i> , 2018, 98, .	2.5	4
44	Entanglement Structure: Entanglement Partitioning in Multipartite Systems and Its Experimental Detection Using Optimizable Witnesses. <i>Physical Review X</i> , 2018, 8, .	8.9	23
45	High-power 671-nm laser by second-harmonic generation with 93% efficiency in an external ring cavity. <i>Optics Letters</i> , 2018, 43, 1666.	3.3	18
46	30 W, sub-kHz frequency-locked laser at 532 nm. <i>Optics Express</i> , 2018, 26, 33756.	3.4	7
47	Controlled state-to-state atom-exchange reaction in an ultracold atom-dimer mixture. <i>Nature Physics</i> , 2017, 13, 699-703.	16.7	48
48	Direct counterfactual communication via quantum Zeno effect. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 4920-4924.	7.1	68
49	Satellite-based entanglement distribution over 1200 kilometers. <i>Science</i> , 2017, 356, 1140-1144.	12.6	870
50	A quantum degenerate Bose-Fermi mixture of 4K and 6Li . <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2017, 50, 094001.	1.5	11
51	Experimental nested purification for a linear optical quantum repeater. <i>Nature Photonics</i> , 2017, 11, 695-699.	31.4	46
52	Four-body ring-exchange interactions and anyonic statistics within a minimal toric-code Hamiltonian. <i>Nature Physics</i> , 2017, 13, 1195-1200.	16.7	82
53	Satellite-to-ground quantum key distribution. <i>Nature</i> , 2017, 549, 43-47.	27.8	1,040
54	Ground-to-satellite quantum teleportation. <i>Nature</i> , 2017, 549, 70-73.	27.8	524

#	ARTICLE	IF	CITATIONS
55	Sine wave gating silicon single-photon detectors for multiphoton entanglement experiments. Review of Scientific Instruments, 2017, 88, 083102.	1.3	3
56	Space-to-Ground Quantum Key Distribution Using a Small-Sized Payload on Tiangong-2 Space Lab. Chinese Physics Letters, 2017, 34, 090302.	3.3	48
57	Satellite-to-Ground Entanglement-Based Quantum Key Distribution. Physical Review Letters, 2017, 119, 200501.	7.8	166
58	Two-Hierarchy Entanglement Swapping for a Linear Optical Quantum Repeater. Physical Review Letters, 2017, 119, 170502.	7.8	26
59	10-Qubit Entanglement and Parallel Logic Operations with a Superconducting Circuit. Physical Review Letters, 2017, 119, 180511.	7.8	313
60	Experimental quantum channel simulation. Physical Review A, 2017, 95, .	2.5	24
61	Observation of ten-photon entanglement using thin BiB ₃ O ₆ crystals. Optica, 2017, 4, 77.	9.3	52
62	Space-based quantum communication towards global quantum network. , 2017, , .		2
63	Narrow-linewidth cooling of ${}^6\text{Li}$ atoms using the 2S-3P transition. Applied Physics B: Lasers and Optics, 2016, 122, 1.	2.2	10
64	Production of large K Bose-Einstein condensates using D_1 molasses. Physical Review A, 2016, 94, .	2.5	26
65	Observation of Coupled Vortex Lattices in a Mass-Imbalance Bose and Fermi Superfluid Mixture. Physical Review Letters, 2016, 117, 145301.	7.8	88
66	Secret Sharing of a Quantum State. Physical Review Letters, 2016, 117, 030501.	7.8	65
67	Experimental Ten-Photon Entanglement. Physical Review Letters, 2016, 117, 210502.	7.8	403
68	Generation and detection of atomic spin entanglement in optical lattices. Nature Physics, 2016, 12, 783-787.	16.7	65
69	Genuine High-Order Einstein-Podolsky-Rosen Steering. Physical Review Letters, 2015, 115, 010402.	7.8	107
70	Quantum Information Processing with Photons. , 2014, , .		0
71	Experimental realization of a concatenated Greenberger-Horne-Zeilinger state for macroscopic quantum superpositions. Nature Photonics, 2014, 8, 364-368.	31.4	38
72	Implementation of a Measurement-Device-Independent Entanglement Witness. Physical Review Letters, 2014, 112, 140506.	7.8	44

#	ARTICLE	IF	CITATIONS
73	Direct and full-scale experimental verifications towards ground-state satellite quantum key distribution. Nature Photonics, 2013, 7, 387-393.	31.4	247
74	Experimental realization of strong effective magnetic fields in optical superlattice potentials. Applied Physics B: Lasers and Optics, 2013, 113, 1-11.	2.2	53
75	Experimental quasi-single-photon transmission from satellite to earth. Optics Express, 2013, 21, 20032.	3.4	63
76	Experimental Realization of Plaquette Resonating Valence-Bond States with Ultracold Atoms in Optical Superlattices. Physical Review Letters, 2012, 108, 205301.	7.8	80
77	Observation of eight-photon entanglement. Nature Photonics, 2012, 6, 225-228.	31.4	355
78	Probing the relaxation towards equilibrium in an isolated strongly correlated one-dimensional Bose gas. Nature Physics, 2012, 8, 325-330.	16.7	762
79	Quantum teleportation and entanglement distribution over 100-kilometre free-space channels. Nature, 2012, 488, 185-188.	27.8	397
80	Experimental demonstration of topological error correction. Nature, 2012, 482, 489-494.	27.8	162
81	Deterministic spin-wave interferometer based on the Rydberg blockade. Physical Review A, 2011, 83, .	2.5	6
82	Experimental Realization of Strong Effective Magnetic Fields in an Optical Lattice. Physical Review Letters, 2011, 107, 255301.	7.8	629
83	Landau-Zener Sweeps and Sudden Quenches in Coupled Bose-Hubbard Chains. Physical Review Letters, 2011, 106, 155302.	7.8	30
84	Experimental measurement-based quantum computing beyond the cluster-state model. Nature Photonics, 2011, 5, 117-123.	31.4	19
85	Many-body Landau-Zener dynamics in coupled one-dimensional Bose liquids. Nature Physics, 2011, 7, 61-67.	16.7	124
86	Controlling Correlated Tunneling and Superexchange Interactions with ac-Driven Optical Lattices. Physical Review Letters, 2011, 107, 210405.	7.8	142
87	Experimental demonstration of a heralded entanglement source. Nature Photonics, 2010, 4, 549-552.	31.4	357
88	Experimental demonstration of a hyper-entangled ten-qubit Schrödinger cat state. Nature Physics, 2010, 6, 331-335.	16.7	282
89	Heralded Generation of an Atomic NOON State. Physical Review Letters, 2010, 104, 043601.	7.8	50
90	Controlling and Detecting Spin Correlations of Ultracold Atoms in Optical Lattices. Physical Review Letters, 2010, 105, 265303.	7.8	91

#	ARTICLE	IF	CITATIONS
91	Increasing the Statistical Significance of Entanglement Detection in Experiments. Physical Review Letters, 2010, 104, 210401.	7.8	32
92	Experimental Realization of Programmable Quantum Gate Array for Directly Probing Commutation Relations of Pauli Operators. Physical Review Letters, 2010, 105, 120402.	7.8	11
93	Teleportation-based realization of an optical quantum two-qubit entangling gate. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 20869-20874.	7.1	44
94	A millisecond quantum memory for scalable quantum networks. Nature Physics, 2009, 5, 95-99.	16.7	217
95	Quantum Memory with Optically Trapped Atoms. Physical Review Letters, 2008, 101, 120501.	7.8	23
96	Experimental demonstration of a BDCZ quantum repeater node. Nature, 2008, 454, 1098-1101.	27.8	372
97	Memory-built-in quantum teleportation with photonic and atomic qubits. Nature Physics, 2008, 4, 103-107.	16.7	170
98	Multistage Entanglement Swapping. Physical Review Letters, 2008, 101, 080403.	7.8	101
99	Robust and efficient quantum repeaters with atomic ensembles and linear optics. Physical Review A, 2008, 77, .	2.5	135
100	Fault-tolerant quantum repeater with atomic ensembles and linear optics. Physical Review A, 2007, 76, .	2.5	108
101	Demonstration of a Stable Atom-Photon Entanglement Source for Quantum Repeaters. Physical Review Letters, 2007, 99, 180505.	7.8	108
102	Synchronized Independent Narrow-Band Single Photons and Efficient Generation of Photonic Entanglement. Physical Review Letters, 2007, 98, 180503.	7.8	56
103	Experimental Realization of One-Way Quantum Computing with Two-Photon Four-Qubit Cluster States. Physical Review Letters, 2007, 99, 120503.	7.8	165
104	Scalable Quantum Computing with Linear Optics and Quantum Memories. Optics and Photonics News, 2007, 18, 34.	0.5	0
105	Robust Creation of Entanglement between Remote Memory Qubits. Physical Review Letters, 2007, 98, 240502.	7.8	179
106	Experimental construction of optical multiqubit cluster states from Bell states. Physical Review A, 2006, 73, .	2.5	56
107	Experimental quantum teleportation of a two-qubit composite system. Nature Physics, 2006, 2, 678-682.	16.7	174
108	Deterministic and Storable Single-Photon Source Based on a Quantum Memory. Physical Review Letters, 2006, 97, 173004.	7.8	127

#	ARTICLE	IF	CITATIONS
109	Comment on "Quantum Key Distribution with Blind Polarization Bases" Physical Review Letters, 2006, 96, 078901; author reply 078902.	7.8	8
110	Experimental Violation of Bell's Inequality beyond Tsirelson's Bound. Physical Review Letters, 2006, 97, 170408.	7.8	17
111	Experimental Quantum Error Rejection for Quantum Communication. Physical Review Letters, 2006, 96, 220504.	7.8	19
112	Experimental Quantum Secret Sharing and Third-Man Quantum Cryptography. Physical Review Letters, 2005, 95, 200502.	7.8	137
113	Experimental Realization of Optimal Asymmetric Cloning and Telecloning via Partial Teleportation. Physical Review Letters, 2005, 95, 030502.	7.8	87
114	Experimental Demonstration of a Nondestructive Controlled-NOT Quantum Gate for Two Independent Photon Qubits. Physical Review Letters, 2005, 94, 030501.	7.8	128
115	Experimental demonstration of five-photon entanglement and open-destination teleportation. Nature, 2004, 430, 54-58.	27.8	532
116	Experimental Realization of Entanglement Concentration and a Quantum Repeater. Physical Review Letters, 2003, 90, 207901.	7.8	203
117	Experimental Violation of Local Realism by Four-Photon Greenberger-Horne-Zeilinger Entanglement. Physical Review Letters, 2003, 91, 180401.	7.8	190