

Paul G Kwiat

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.

87
papers

16,014
citations

53
h-index

92
g-index

92
ext. papers

18,582
ext. citations

7.4
avg, IF

6.42
L-index

#	Paper	IF	Citations
87	New high-intensity source of polarization-entangled photon pairs. <i>Physical Review Letters</i> , 1995 , 75, 4337-4341	7.4	12110
86	Measurement of qubits. <i>Physical Review A</i> , 2001 , 64,	2.6	1214
85	Observation of the spin hall effect of light via weak measurements. <i>Science</i> , 2008 , 319, 787-90	33.3	1138
84	Dense coding in experimental quantum communication. <i>Physical Review Letters</i> , 1996 , 76, 4656-4659	7.4	918
83	Ultrabright source of polarization-entangled photons. <i>Physical Review A</i> , 1999 , 60, R773-R776	2.6	770
82	Measurement of the single-photon tunneling time. <i>Physical Review Letters</i> , 1993 , 71, 708-711	7.4	647
81	Strong Loophole-Free Test of Local Realism. <i>Physical Review Letters</i> , 2015 , 115, 250402	7.4	640
80	Beating the channel capacity limit for linear photonic superdense coding. <i>Nature Physics</i> , 2008 , 4, 282-286	6.2	511
79	Generation of hyperentangled photon pairs. <i>Physical Review Letters</i> , 2005 , 95, 260501	7.4	482
78	Experimental verification of decoherence-free subspaces. <i>Science</i> , 2000 , 290, 498-501	33.3	391
77	Interaction-free measurement. <i>Physical Review Letters</i> , 1995 , 74, 4763-4766	7.4	379
76	Nonmaximally Entangled States: Production, Characterization, and Utilization. <i>Physical Review Letters</i> , 1999 , 83, 3103-3107	7.4	365
75	Entangled state quantum cryptography: eavesdropping on the ekert protocol. <i>Physical Review Letters</i> , 2000 , 84, 4733-6	7.4	287
74	Detection-loophole-free test of quantum nonlocality, and applications. <i>Physical Review Letters</i> , 2013 , 111, 130406	7.4	269
73	Experimental entanglement distillation and 'hidden' non-locality. <i>Nature</i> , 2001 , 409, 1014-7	50.4	248
72	High-visibility interference in a Bell-inequality experiment for energy and time. <i>Physical Review A</i> , 1993 , 47, R2472-R2475	2.6	239
71	Complementarity and the quantum eraser. <i>Physical Review Letters</i> , 1995 , 75, 3034-3037	7.4	234

70	Maximal entanglement versus entropy for mixed quantum states. <i>Physical Review A</i> , 2003 , 67,	2.6	229
69	Hyper-entangled states. <i>Journal of Modern Optics</i> , 1997 , 44, 2173-2184	1.1	216
68	Embedded Bell-state analysis. <i>Physical Review A</i> , 1998 , 58, R2623-R2626	2.6	209
67	Remote state preparation: arbitrary remote control of photon polarization. <i>Physical Review Letters</i> , 2005 , 94, 150502	7.4	206
66	Optical simulation of quantum logic. <i>Physical Review A</i> , 1998 , 57, R1477-R1480	2.6	205
65	Observation of a "quantum eraser": A revival of coherence in a two-photon interference experiment. <i>Physical Review A</i> , 1992 , 45, 7729-7739	2.6	205
64	Dispersion cancellation in a measurement of the single-photon propagation velocity in glass. <i>Physical Review Letters</i> , 1992 , 68, 2421-2424	7.4	195
63	Ancilla-assisted quantum process tomography. <i>Physical Review Letters</i> , 2003 , 90, 193601	7.4	194
62	Practical Free-Space Quantum Key Distribution over 1 km. <i>Physical Review Letters</i> , 1998 , 81, 3283-3286	7.4	192
61	Correlated two-photon interference in a dual-beam Michelson interferometer. <i>Physical Review A</i> , 1990 , 41, 2910-2913	2.6	171
60	High efficiency single photon detection via frequency up-conversion. <i>Journal of Modern Optics</i> , 2004 , 51, 1433-1445	1.1	149
59	Proposal for a loophole-free Bell inequality experiment. <i>Physical Review A</i> , 1994 , 49, 3209-3220	2.6	148
58	High-Efficiency Quantum Interrogation Measurements via the Quantum Zeno Effect. <i>Physical Review Letters</i> , 1999 , 83, 4725-4728	7.4	136
57	Observation of a nonclassical Berry's phase for the photon. <i>Physical Review Letters</i> , 1991 , 66, 588-591	7.4	131
56	Dispersion cancellation and high-resolution time measurements in a fourth-order optical interferometer. <i>Physical Review A</i> , 1992 , 45, 6659-6665	2.6	131
55	Counterfactual quantum computation through quantum interrogation. <i>Nature</i> , 2006 , 439, 949-52	50.4	126
54	Grover's search algorithm: An optical approach. <i>Journal of Modern Optics</i> , 2000 , 47, 257-266	1.1	116
53	Quantitative wave-particle duality and nonerasing quantum erasure. <i>Physical Review A</i> , 1999 , 60, 4285-4290	2.6	109

52	Maximally entangled mixed states: creation and concentration. <i>Physical Review Letters</i> , 2004 , 92, 133601	7.4	104
51	High-efficiency single-photon detectors. <i>Physical Review A</i> , 1993 , 48, R867-R870	2.6	92
50	Interaction-free imaging. <i>Physical Review A</i> , 1998 , 58, 605-613	2.6	87
49	Exploring Hilbert space: Accurate characterization of quantum information. <i>Physical Review A</i> , 2001 , 65,	2.6	86
48	Postselection-free energy-time entanglement. <i>Physical Review A</i> , 1996 , 54, R1-R4	2.6	83
47	Quantum Seeing in the Dark. <i>Scientific American</i> , 1996 , 275, 72-78	0.5	82
46	Time-multiplexed heralded single-photon source. <i>Optica</i> , 2015 , 2, 1010	8.6	81
45	Optimizing type-I polarization-entangled photons. <i>Optics Express</i> , 2009 , 17, 18920-33	3.3	81
44	Atomic-vapor-based high efficiency optical detectors with photon number resolution. <i>Physical Review Letters</i> , 2002 , 89, 183601	7.4	80
43	Phase-compensated ultra-bright source of entangled photons. <i>Optics Express</i> , 2005 , 13, 8951-9	3.3	78
42	Low-bias high-speed quantum random number generator via shaped optical pulses. <i>Optics Express</i> , 2010 , 18, 9351-7	3.3	75
41	Experimental investigation of a two-qubit decoherence-free subspace. <i>Physical Review Letters</i> , 2004 , 92, 147901	7.4	72
40	Towards a periodic deterministic source of arbitrary single-photon states. <i>New Journal of Physics</i> , 2004 , 6, 100-100	2.9	71
39	Three proposed "quantum erasers". <i>Physical Review A</i> , 1994 , 49, 61-68	2.6	71
38	Photon arrival time quantum random number generation. <i>Journal of Modern Optics</i> , 2009 , 56, 516-522	1.1	66
37	High-efficiency single-photon generation via large-scale active time multiplexing. <i>Science Advances</i> , 2019 , 5, eaaw8586	14.3	64
36	Superdense teleportation using hyperentangled photons. <i>Nature Communications</i> , 2015 , 6, 7185	17.4	64
35	Two-Photon Franson-Type Experiments and Local Realism. <i>Physical Review Letters</i> , 1999 , 83, 2872-2875	7.4	54

34	Observation of power-Law scaling for phase transitions in linear trapped ion crystals. <i>Physical Review Letters</i> , 2000 , 85, 2466-9	7.4	51
33	Heralded single-photon source utilizing highly nondegenerate, spectrally factorable spontaneous parametric downconversion. <i>Optics Express</i> , 2016 , 24, 10733-47	3.3	49
32	Free-space quantum-key distribution. <i>Physical Review A</i> , 1998 , 57, 2379-2382	2.6	48
31	Efficient optical quantum state engineering. <i>Physical Review Letters</i> , 2009 , 103, 163602	7.4	43
30	Joint spectral characterization of photon-pair sources. <i>Journal of Modern Optics</i> , 2018 , 65, 1141-1160	1.1	42
29	Strengthening weak-value amplification with recycled photons. <i>Physical Review A</i> , 2013 , 88,	2.6	40
28	Security of high-dimensional quantum key distribution protocols using Franson interferometers. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2013 , 46, 104010	1.3	37
27	Quantum-memory-assisted multi-photon generation for efficient quantum information processing. <i>Optica</i> , 2017 , 4, 1034	8.6	36
26	Power-recycled weak-value-based metrology. <i>Physical Review Letters</i> , 2015 , 114, 170801	7.4	34
25	Photonic Technologies for Quantum Information Processing. <i>Quantum Information Processing</i> , 2004 , 3, 215-231	1.6	31
24	Experimental Realization of Interaction-free Measurements. <i>Annals of the New York Academy of Sciences</i> , 1995 , 755, 383-393	6.5	31
23	Exploring the Limits of Quantum Nonlocality with Entangled Photons. <i>Physical Review X</i> , 2015 , 5,	9.1	28
22	The mystery of the quantum cakes. <i>American Journal of Physics</i> , 2000 , 68, 33-36	0.7	27
21	Synthesizing arbitrary two-photon polarization mixed states. <i>Physical Review A</i> , 2005 , 71,	2.6	26
20	Free-space quantum key distribution in daylight. <i>Journal of Modern Optics</i> , 2000 , 47, 549-562	1.1	24
19	Entangled-photon six-state quantum cryptography. <i>New Journal of Physics</i> , 2002 , 4, 45-45	2.9	17
18	Hyper-entangled states		15
17	Phase-compensated ultra-bright source of entangled photons: erratum. <i>Optics Express</i> , 2007 , 15, 5260	3.3	13

16	Precision optical displacement measurements using biphotons. <i>Physical Review A</i> , 2016 , 93,	2.6	12
15	Engineering an ideal indistinguishable photon-pair source for optical quantum information processing. <i>Journal of Modern Optics</i> , 2011 , 58, 318-327	1.1	12
14	Measuring temporal summation in visual detection with a single-photon source. <i>Vision Research</i> , 2017 , 140, 33-43	2.1	10
13	Grover's search algorithm: An optical approach		10
12	Afterpulse Reduction Through Prompt Quenching in Silicon Reach-Through Single-Photon Avalanche Diodes. <i>Journal of Lightwave Technology</i> , 2014 , 32, 4097-4103	4	9
11	Quantum process estimation via generic two-body correlations. <i>Physical Review A</i> , 2010 , 81,	2.6	9
10	Free-space quantum key distribution in daylight		9
9	Polarization dependence on downconversion emission angle: investigation of the Migdall effect□ <i>Journal of Modern Optics</i> , 2011 , 58, 312-317	1.1	8
8	High-speed transparent switch via frequency upconversion. <i>Optics Express</i> , 2007 , 15, 4677-83	3.3	8
7	Engineering of near-IR photon pairs to be factorable in space-time and entangled in polarization. <i>Optics Express</i> , 2015 , 23, 7894-907	3.3	6
6	Time-Bin and Polarization Superdense Teleportation for Space Applications. <i>Physical Review Applied</i> , 2020 , 14,	4.3	5
5	What does a quantum eraser really erase? 1999 ,		4
4	Superdense teleportation and quantum key distribution for space applications 2015 ,		3
3	Enhanced Weak-Value Amplification via Photon Recycling. <i>Physical Review Letters</i> , 2021 , 126, 220801	7.4	2
2	Editorial Introduction to the Special Issue on Quantum Communications and Information Science. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2009 , 15, 1545-1546	3.8	1
1	The Los Alamos Trapped Ion Quantum Computer Experiment 2004 , 23-55		