

Andrew G White

List of Publications by Year in descending order

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149
papers

19,027
citations

28190

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20307

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150
all docs

150
docs citations

150
times ranked

10703
citing authors

#	ARTICLE	IF	CITATIONS
1	Robust and Efficient High-Dimensional Quantum State Tomography. Physical Review Letters, 2021, 126, 100402.	2.9	33
2	Hiding Ignorance Using High Dimensions. Physical Review Letters, 2020, 124, 250401.	2.9	8
3	Increasing communication capacity via superposition of order. Physical Review Research, 2020, 2, .	1.3	52
4	Optimal Imaging of Remote Bodies Using Quantum Detectors. , 2020, , .		0
5	Quantum Hypercube States. Physical Review Letters, 2019, 123, 020402.	2.9	15
6	Optimal Imaging of Remote Bodies Using Quantum Detectors. Physical Review Letters, 2019, 123, 143604.	2.9	19
7	Charting the Australian quantum landscape. Quantum Science and Technology, 2019, 4, 020505.	2.6	24
8	Hypercube States for Sub-Planck Sensing. , 2019, , .		0
9	Towards Storage of Sub-Megahertz Single Photons in Gradient Echo Memory. , 2019, , .		0
10	Communicating via ignorance & imaging via counting. , 2019, , .		0
11	Communicating via ignorance & imaging via counting. , 2019, , .		0
12	Certification and Quantification of Multilevel Quantum Coherence. Physical Review X, 2018, 8, .	2.8	41
13	Indefinite Causal Order in a Quantum Switch. Physical Review Letters, 2018, 121, 090503.	2.9	144
14	Hectometer Revivals of Quantum Interference. Physical Review Letters, 2018, 121, 093603.	2.9	8
15	Generation of mechanical interference fringes by multi-photon counting. New Journal of Physics, 2018, 20, 053042.	1.2	28
16	Multi-time quantum correlations with no spatial analog. Npj Quantum Information, 2018, 4, .	2.8	17
17	Unifying framework for spatial and temporal quantum correlations. Physical Review A, 2018, 98, .	1.0	14
18	Challenging local realism with human choices. Nature, 2018, 557, 212-216.	13.7	136

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19	Spatial modes for testing indefinite causal order. , 2018, , .		0
20	Active demultiplexing of single photons from a solid-state source. Laser and Photonics Reviews, 2017, 11, 1600297.	4.4	51
21	A solid-state single-photon filter. Nature Nanotechnology, 2017, 12, 663-667.	15.6	66
22	Boson Sampling with Single-Photon Fock States from a Bright Solid-State Source. Physical Review Letters, 2017, 118, 130503.	2.9	155
23	High-performance semiconductor quantum-dot single-photon sources. Nature Nanotechnology, 2017, 12, 1026-1039.	15.6	741
24	Roadmap on structured light. Journal of Optics (United Kingdom), 2017, 19, 013001.	1.0	888
25	Generation of mechanical interference fringes by multi-photon quantum measurement. , 2017, , .		0
26	Sub-megahertz linewidth single photon source suitable for quantum memories. , 2017, , .		1
27	Sub-Megahertz Linewidth Single Photon Source Suitable for Quantum Memories. , 2017, , .		0
28	Experimental test of nonlocal causality. Science Advances, 2016, 2, e1600162.	4.7	41
29	Sub-megahertz linewidth single photon source. APL Photonics, 2016, 1, .	3.0	49
30	Scalable performance in solid-state single-photon sources. Optica, 2016, 3, 433.	4.8	106
31	Measuring Entanglement in a Photonic Embedding Quantum Simulator. Physical Review Letters, 2016, 116, 070503.	2.9	14
32	Enhancing coherent transport in a photonic network using controllable decoherence. Nature Communications, 2016, 7, 11282.	5.8	82
33	Engineering integrated photonics for heralded quantum gates. Scientific Reports, 2016, 6, 25126.	1.6	20
34	Near-optimal single-photon sources in the solid state. Nature Photonics, 2016, 10, 340-345.	15.6	858
35	Demonstration of an Exposed-Core Fiber Platform for Two-Photon Rubidium Spectroscopy. Physical Review Applied, 2015, 4, .	1.5	8
36	Measurements on the reality of the wavefunction. Nature Physics, 2015, 11, 249-254.	6.5	113

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37	Characterizing Quantum Dynamics with Initial System-Environment Correlations. Physical Review Letters, 2015, 114, 090402.	2.9	58
38	Photon Sorting, Efficient Bell Measurements, and a Deterministic Controlled- Z Gate Using a Passive Two-Level Nonlinearity. Physical Review Letters, 2015, 114, 173603.	2.9	48
39	Information Causality in the Quantum and Post-Quantum Regime. Scientific Reports, 2015, 4, 6955.	1.6	7
40	Toward a quantum network based on semiconductor quantum dots. , 2014, , .		0
41	Doctor Who Meets Professor Heisenberg. Asia-Pacific Physics Newsletter, 2014, 03, 22-22.	0.0	0
42	Experimental Joint Quantum Measurements with Minimum Uncertainty. Physical Review Letters, 2014, 112, 020401.	2.9	95
43	Entanglement-free certification of entangling gates. Physical Review A, 2014, 89, .	1.0	16
44	Experimental simulation of closed timelike curves. Nature Communications, 2014, 5, 4145.	5.8	35
45	Observation of Entanglement-Dependent Two-Particle Holonomic Phase. Physical Review Letters, 2014, 112, 143603.	2.9	19
46	Entangling Quantum-Logic Gate Operated with an Ultrabright Semiconductor Single-Photon Source. Physical Review Letters, 2013, 110, 250501.	2.9	44
47	High-efficiency cross-phase modulation in a gas-filled waveguide. Physical Review A, 2013, 88, .	1.0	31
48	Experimental Distribution of Entanglement with Separable Carriers. Physical Review Letters, 2013, 111, 230504.	2.9	62
49	Experimental bosonsampling in a photonic circuit. , 2013, , .		0
50	Photonic Boson Sampling in a Tunable Circuit. Science, 2013, 339, 794-798.	6.0	522
51	Direct characterization of linear-optical networks. Optics Express, 2013, 21, 13450.	1.7	80
52	Fabrication and classical characterisation of an integrated optic controlled phase gate. , 2013, , .		0
53	Quantum Computing Using Optics. , 2013, , 1-24.		0
54	BosonSampling with realistic single-photon sources. , 2013, , .		0

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55	Conclusive quantum steering with superconducting transition-edge sensors. Nature Communications, 2012, 3, 625.	5.8	200
56	Observation of topologically protected bound states in photonic quantum walks. Nature Communications, 2012, 3, 882.	5.8	488
57	Quantum Computing Using Optics. , 2012, , 2437-2452.		1
58	Efficient Measurement of Quantum Dynamics via Compressive Sensing. Physical Review Letters, 2011, 106, 100401.	2.9	185
59	Engineered optical nonlinearity for quantum light sources. Optics Express, 2011, 19, 55.	1.7	107
60	Reducing multi-photon rates in pulsed down-conversion by temporal multiplexing. Optics Express, 2011, 19, 22698.	1.7	65
61	Two-photon quantum walks in an elliptical direct-write waveguide array. New Journal of Physics, 2011, 13, 075003.	1.2	124
62	Experimental information complementarity of two-qubit states. New Journal of Physics, 2011, 13, 053038.	1.2	5
63	Simulating Quantum Systems in Biology, Chemistry, and Physics. , 2011, , .		0
64	Hardy's Paradox and Violation of a State-Independent Bell Inequality in Time. Physical Review Letters, 2011, 106, 200402.	2.9	36
65	Violation of the Leggett-Garg inequality with weak measurements of photons. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 1256-1261.	3.3	231
66	Single-photon device requirements for operating linear optics quantum computing outside the post-selection basis. Journal of Modern Optics, 2011, 58, 276-287.	0.6	114
67	Observation of topologically protected bound states in photonic quantum walks. , 2011, , .		1
68	Towards quantum chemistry on a quantum computer. Nature Chemistry, 2010, 2, 106-111.	6.6	568
69	Discrete Single-Photon Quantum Walks With Tunable Decoherence. , 2010, , .		6
70	Experimental Feedback Control of Quantum Systems Using Weak Measurements. Physical Review Letters, 2010, 104, 080503.	2.9	120
71	Discrete Single-Photon Quantum Walks with Tunable Decoherence. Physical Review Letters, 2010, 104, 153602.	2.9	346
72	Matchgate quantum computing and non-local process analysis. New Journal of Physics, 2010, 12, 083027.	1.2	4

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73	Quantum Information and Nonlinear Optics: Together at Last?. , 2010, , .		0
74	Linear optics implementation of symmetric matchgates. , 2009, , .		0
75	Complementarity in variable strength quantum non-demolition measurements. New Journal of Physics, 2009, 11, 093012.	1.2	13
76	Parametric downconversion and optical quantum gates: two's company, four's a crowd. Journal of Modern Optics, 2009, 56, 209-214.	0.6	18
77	Simplifying quantum logic using higher-dimensional Hilbert spaces. Nature Physics, 2009, 5, 134-140.	6.5	570
78	Quantum Chemistry on a Quantum Computer: First Steps and Prospects. , 2009, , .		0
79	Experimental Quantum Computing without Entanglement. Physical Review Letters, 2008, 101, 200501.	2.9	773
80	Manipulating Biphotonic Qutrits. Physical Review Letters, 2008, 100, 060504.	2.9	132
81	The Secret World of Shrimps: Polarisation Vision at Its Best. PLoS ONE, 2008, 3, e2190.	1.1	33
82	Efficient quantum logic circuits: or, How I Learned to Stop Worrying and Love Hilbert Space. , 2007, , IFB3.		0
83	Publisher's Note: Time-Reversal and Super-Resolving Phase Measurements [Phys. Rev. Lett.98, 223601 (2007)]. Physical Review Letters, 2007, 99, .	2.9	1
84	Experimental Demonstration of a Compiled Version of Shor's Algorithm with Quantum Entanglement. Physical Review Letters, 2007, 99, 250505.	2.9	221
85	Time-Reversal and Super-Resolving Phase Measurements. Physical Review Letters, 2007, 98, 223601.	2.9	220
86	Entanglement Generation by Fock-State Filtration. Physical Review Letters, 2007, 98, 203602.	2.9	21
87	Measuring two-qubit gates. Journal of the Optical Society of America B: Optical Physics, 2007, 24, 172.	0.9	111
88	Source of triggered entangled photon pairs?. Nature, 2007, 445, E4-E5.	13.7	6
89	Efficient quantum-logic circuits: or, How I Learned to Stop Worrying and Love Hilbert Space. , 2007, , .		0
90	Study of optical properties of electropolymerized melanin films by photopyroelectric spectroscopy. European Biophysics Journal, 2006, 35, 190-195.	1.2	36

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91	Determination of thermal and optical parameters of melanins by photopyroelectric spectroscopy. Applied Physics Letters, 2005, 87, 061920.	1.5	20
92	High-fidelity Z-measurement error encoding of optical qubits. Physical Review A, 2005, 71, .	1.0	21
93	Reply to Pryde et al. Physical Review Letters, 2005, 95, .	2.9	6
94	Publisher's Note: Measurement of Quantum Weak Values of Photon Polarization [Phys. Rev. Lett. 94, 220405 (2005)]. Physical Review Letters, 2005, 94, .	2.9	8
95	Measurement of Quantum Weak Values of Photon Polarization. Physical Review Letters, 2005, 94, 220405.	2.9	290
96	Demonstrating Superior Discrimination of Locally Prepared States Using Nonlocal Measurements. Physical Review Letters, 2005, 94, 220406.	2.9	18
97	Demonstration of a Simple Entangling Optical Gate and Its Use in Bell-State Analysis. Physical Review Letters, 2005, 95, 210504.	2.9	222
98	On the Measurement of Qubits. , 2005, , 509-538.		19
99	Optical Quantum Information: Computing, Communication, and Metrology. , 2005, , .		0
100	Measuring a Photonic Qubit without Destroying It. Physical Review Letters, 2004, 92, 190402.	2.9	114
101	Quantum Process Tomography of a Controlled-NOT Gate. Physical Review Letters, 2004, 93, 080502.	2.9	378
102	Measuring Entangled Qubits and Their Use for Quantum Bit Commitment. Physical Review Letters, 2004, 93, 053601.	2.9	307
103	Laser frequency locking by direct measurement of detuning. Optics Letters, 2004, 29, 2704.	1.7	20
104	The Los Alamos Trapped Ion Quantum Computer Experiment. , 2004, , 23-55.		0
105	Frequency locking by analysis of orthogonal modes. Optics Communications, 2003, 221, 163-171.	1.0	14
106	Demonstration of an all-optical quantum controlled-NOT gate. Nature, 2003, 426, 264-267.	18.7	792
107	Ancilla-Assisted Quantum Process Tomography. Physical Review Letters, 2003, 90, 193601.	2.9	252
108	Creation of maximally entangled photon-number states using optical fiber multiports. Physical Review A, 2003, 68, .	1.0	74

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109	Input states for quantum gates. Physical Review A, 2003, 67, .	1.0	5
110	Quantum theory of the far-off-resonance continuous-wave Raman laser: Heisenberg-Langevin approach. Physical Review A, 2003, 68, .	1.0	7
111	Experimental linear optics controlled-NOT gates. , 2003, , .		0
112	Entanglement creation using quantum interrogation. Physical Review A, 2002, 66, .	1.0	9
113	Qudit quantum-state tomography. Physical Review A, 2002, 66, .	1.0	254
114	Linear optical controlled-NOT gate in the coincidence basis. Physical Review A, 2002, 65, .	1.0	258
115	Maximizing the entanglement of two mixed qubits. Physical Review A, 2001, 64, .	1.0	236
116	Measurement of qubits. Physical Review A, 2001, 64, .	1.0	1,609
117	The bell inequality: A measure of entanglementa?. Journal of Modern Optics, 2001, 48, 1239-1246.	0.6	11
118	The Bell inequality: a measure of entanglement?. Journal of Modern Optics, 2001, 48, 1239-1246.	0.6	34
119	Transforming chaos to periodic oscillations. Physical Review E, 2001, 64, 056220.	0.8	4
120	Exploring Hilbert space: Accurate characterization of quantum information. Physical Review A, 2001, 65, .	1.0	97
121	Simple scheme for efficient linear optics quantum gates. Physical Review A, 2001, 65, .	1.0	165
122	Kerr noise reduction and squeezing. Journal of Optics B: Quantum and Semiclassical Optics, 2000, 2, 553-561.	1.4	13
123	Entangled State Quantum Cryptography: Eavesdropping on the Ekert Protocol. Physical Review Letters, 2000, 84, 4733-4736.	2.9	335
124	Observation of Power-Law Scaling for Phase Transitions in Linear Trapped Ion Crystals. Physical Review Letters, 2000, 85, 2466-2469.	2.9	67
125	Experimental Verification of Decoherence-Free Subspaces. Science, 2000, 290, 498-501.	6.0	458
126	Grover's search algorithm: An optical approach. Journal of Modern Optics, 2000, 47, 257-266.	0.6	148

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127	Nonmaximally Entangled States: Production, Characterization, and Utilization. Physical Review Letters, 1999, 83, 3103-3107.	2.9	433
128	Ultrabright source of polarization-entangled photons. Physical Review A, 1999, 60, R773-R776.	1.0	931
129	High-Efficiency Quantum Interrogation Measurements via the Quantum Zeno Effect. Physical Review Letters, 1999, 83, 4725-4728.	2.9	178
130	“Interaction-free” measurements of quantum objects? , 1999, , .		0
131	Trapped Ion Quantum Computer Research at Los Alamos. Lecture Notes in Computer Science, 1999, , 426-437.	1.0	0
132	The Los Alamos Trapped Ion Quantum Computer Experiment. Fortschritte Der Physik, 1998, 46, 329-361.	1.5	55
133	“Interaction-free” imaging. Physical Review A, 1998, 58, 605-613.	1.0	137
134	Classical and quantum signatures of competing $\chi^{(2)}$ nonlinearities. Physical Review A, 1997, 55, 4511-4515.	1.0	31
135	Comment on “Noiseless amplification in cavity-based optical systems with an internal two-photon process. II. Self-frequency-doubling laser and second-harmonic generation, self-down-converting laser”™. Journal of Modern Optics, 1997, 44, 651-652.	0.6	0
136	Classical and quantum properties of the subharmonic-pumped parametric oscillator. Optics Communications, 1997, 138, 158-171.	1.0	20
137	Active versus passive squeezing by second-harmonic generation. Journal of the Optical Society of America B: Optical Physics, 1996, 13, 1337.	0.9	15
138	<title>Experiments and theory of laser noise: consequences for squeezing and injection locking</title>. , 1996, 2799, 157.		1
139	Experimental test of modular noise propagation theory for quantum optics. Physical Review A, 1996, 54, 3400-3404.	1.0	12
140	Cascaded second-order nonlinearity in an optical cavity. Europhysics Letters, 1996, 35, 425-430.	0.7	33
141	Optical Tomography of a Highly Squeezed, Continuous-Wave Vacuum-State. , 1996, , 475-476.		0
142	Progress in the search for the optimum light source: squeezing experiments with a frequency doubler. Quantum and Semiclassical Optics: Journal of the European Optical Society Part B, 1995, 7, 715-726.	1.0	2
143	Generation of continuous-wave bright-squeezed light. Proceedings of SPIE, 1995, 2378, 91.	0.8	3
144	Squeezed light from second-harmonic generation: experiment versus theory. Optics Letters, 1995, 20, 1316.	1.7	30

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145	Retrieving squeezing from classically noisy light in second-harmonic generation. Journal of the Optical Society of America B: Optical Physics, 1995, 12, 833.	0.9	4
146	Generation of optical phase singularities by computer-generated holograms. Optics Letters, 1992, 17, 221.	1.7	1,247
147	Interferometric Measurements of Phase Singularities in the Output of a Visible Laser. Journal of Modern Optics, 1991, 38, 2531-2541.	0.6	87
148	Gyromagnetic ratios of low-lying rotational states in ^{156}Gd , ^{158}Gd , ^{160}Gd . Zeitschrift für Physik A, 1991, 338, 135-138.	0.9	19
149	Grover's search algorithm: An optical approach. , 0, .		13