Ian A Walmsley

List of Publications by Year
in descending order

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		8732	12910
451	20,180	75	131
papers	citations	h-index	g-index

455	455	455	9742
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Spectral phase interferometry for direct electric-field reconstruction of ultrashort optical pulses. Optics Letters, 1998, 23, 792.	1.7	1,181
2	Boson Sampling on a Photonic Chip. Science, 2013, 339, 798-801.	6.0	686
3	Heralded Generation of Ultrafast Single Photons in Pure Quantum States. Physical Review Letters, 2008, 100, 133601.	2.9	502
4	Quantum memories. European Physical Journal D, 2010, 58, 1-22.	0.6	420
5	Spectral information and distinguishability in type-II down-conversion with a broadband pump. Physical Review A, 1997, 56, 1627-1634.	1.0	407
6	Characterization of ultrashort electromagnetic pulses. Advances in Optics and Photonics, 2009, 1, 308.	12.1	404
7	Continuous Frequency Entanglement: Effective Finite Hilbert Space and Entropy Control. Physical Review Letters, 2000, 84, 5304-5307.	2.9	396
8	Optimal Quantum Phase Estimation. Physical Review Letters, 2009, 102, 040403.	2.9	375
9	Eliminating frequency and space-time correlations in multiphoton states. Physical Review A, 2001, 64, .	1.0	360
10	The quantum technologies roadmap: a European community view. New Journal of Physics, 2018, 20, 080201.	1.2	358
11	Quantum Physics Under Control. Physics Today, 2003, 56, 43-49.	0.3	332
12	Entangling Macroscopic Diamonds at Room Temperature. Science, 2011, 334, 1253-1256.	6.0	299
13	Experimental Determination of the Quantum-Mechanical State of a Molecular Vibrational Mode Using Fluorescence Tomography. Physical Review Letters, 1995, 74, 884-887.	2.9	294
14	Towards high-speed optical quantum memories. Nature Photonics, 2010, 4, 218-221.	15.6	290
15	Tomography of quantum detectors. Nature Physics, 2009, 5, 27-30.	6.5	267
16	Quantum Enhanced Multiple Phase Estimation. Physical Review Letters, 2013, 111, 070403.	2.9	266
17	Fiber-assisted detection with photon number resolution. Optics Letters, 2003, 28, 2387.	1.7	247
18	Quantum phase estimation with lossy interferometers. Physical Review A, 2009, 80, .	1.0	239

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19	Measurement of the intensity and phase of ultraweak, ultrashort laser pulses. Optics Letters, 1996, 21, 884.	1.7	223
20	Experimental quantum-enhanced estimation of a lossy phase shift. Nature Photonics, 2010, 4, 357-360.	15.6	201
21	Single-Photon-Level Quantum Memory at Room Temperature. Physical Review Letters, 2011, 107, 053603.	2.9	199
22	The role of dispersion in ultrafast optics. Review of Scientific Instruments, 2001, 72, 1-29.	0.6	191
23	Mapping broadband single-photon wave packets into an atomic memory. Physical Review A, 2007, 75, .	1.0	185
24	Characterization of sub-6-fs optical pulses with spectral phase interferometry for direct electric-field reconstruction. Optics Letters, 1999, 24, 1314.	1.7	177
25	Quantum Path Interferences in High-Order Harmonic Generation. Physical Review Letters, 2008, 100, 143902.	2.9	177
26	Photon pair-state preparation with tailored spectral properties by spontaneous four-wave mixing in photonic-crystal fiber. Optics Express, 2007, 15, 14870.	1.7	174
27	Tailored Photon-Pair Generation in Optical Fibers. Physical Review Letters, 2009, 102, 123603.	2.9	163
28	Spatio-temporal focusing of an ultrafast pulse through a multiply scattering medium. Nature Communications, 2011, 2, 447.	5.8	161
29	Joint estimation of phase and phase diffusion for quantum metrology. Nature Communications, 2014, 5, 3532.	5.8	150
30	Quantum theory of spatial and temporal coherence properties of stimulated Raman scattering. Physical Review A, 1985, 32, 332-344.	1.0	148
31	Quantum teleportation on a photonic chip. Nature Photonics, 2014, 8, 770-774.	15.6	144
32	Efficient Conditional Preparation of High-Fidelity Single Photon States for Fiber-Optic Quantum Networks. Physical Review Letters, 2004, 93, 093601.	2.9	142
33	Photon-number-resolving detection using time-multiplexing. Journal of Modern Optics, 2004, 51, 1499-1515.	0.6	137
34	Broadband single-photon-level memory in a hollow-core photonic crystal fibre. Nature Photonics, 2014, 8, 287-291.	15.6	135
35	Multimode Memories in Atomic Ensembles. Physical Review Letters, 2008, 101, 260502.	2.9	134
36	Photon pair generation in birefringent optical fibers. Optics Express, 2009, 17, 23589.	1.7	133

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37	Fabrication of Ultrathin Singleâ€Crystal Diamond Membranes. Advanced Materials, 2008, 20, 4793-4798.	11.1	129
38	Multiphoton quantum interference in a multiport integrated photonic device. Nature Communications, 2013, 4, 1356.	5.8	128
39	Large-alphabet time-frequency entangled quantum key distribution by means of time-to-frequency conversion. Optics Express, 2013, 21, 15959.	1.7	128
40	Precision Metrology Using Weak Measurements. Physical Review Letters, 2015, 114, 210801.	2.9	127
41	Chronocyclic tomography for measuring the amplitude and phase structure of optical pulses. Optics Letters, 1993, 18, 2041.	1.7	122
42	Experimental determination of the dynamics of a molecular nuclear wave packet via the spectra of spontaneous emission. Physical Review Letters, 1993, 70, 3388-3391.	2.9	121
43	Optimal Measurements for Simultaneous Quantum Estimation of Multiple Phases. Physical Review Letters, 2017, 119, 130504.	2.9	119
44	Generation of correlated photons in controlled spatial modes by downconversion in nonlinear waveguides. Optics Letters, 2001, 26, 1367.	1.7	118
45	Enhancing Multiphoton Rates with Quantum Memories. Physical Review Letters, 2013, 110, 133601.	2.9	118
46	Two-photon quantum walk in a multimode fiber. Science Advances, 2016, 2, e1501054.	4.7	113
47	Macroscopic non-classical states and terahertz quantum processing in room-temperature diamond. Nature Photonics, 2012, 6, 41-44.	15.6	112
48	Linear Optical Quantum Computing in a Single Spatial Mode. Physical Review Letters, 2013, 111, 150501.	2.9	112
49	Quantum optics: Science and technology in a new light. Science, 2015, 348, 525-530.	6.0	109
50	Interferometric technique for measuring broadband ultrashort pulses at the sampling limit. Optics Letters, 2005, 30, 326.	1.7	108
51	Phase-controlled integrated photonic quantum circuits. Optics Express, 2009, 17, 13516.	1.7	107
52	On-chip low loss heralded source of pure single photons. Optics Express, 2013, 21, 13522.	1.7	107
53	Quantum metrology with imperfect states and detectors. Physical Review A, 2011, 83, .	1.0	106
54	Conditional preparation of single photons using parametric downconversion: a recipe for purity. New Journal of Physics, 2008, 10, 093011.	1.2	105

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55	Photon counting with a loop detector. Optics Letters, 2003, 28, 52.	1.7	103
56	High quantum-efficiency photon-number-resolving detector for photonic on-chip information processing. Optics Express, 2013, 21, 22657.	1.7	101
57	Tradeoff in simultaneous quantum-limited phase and loss estimation in interferometry. Physical Review A, 2014, 89, .	1.0	101
58	Distinguishability and Many-Particle Interference. Physical Review Letters, 2017, 118, 153603.	2.9	101
59	Coherent Control of Decoherence. Science, 2008, 320, 638-643.	6.0	97
60	Real-World Quantum Sensors: Evaluating Resources for Precision Measurement. Physical Review Letters, 2011, 107, 113603.	2.9	93
61	Optimal control of quantum gates and suppression of decoherence in a system of interacting two-level particles. Journal of Physics B: Atomic, Molecular and Optical Physics, 2007, 40, S103-S125.	0.6	92
62	Observation of Macroscopic Quantum Fluctuations in Stimulated Raman Scattering. Physical Review Letters, 1983, 50, 962-965.	2.9	90
63	Violation of Bell's Inequality by a Generalized Einstein-Podolsky-Rosen State Using Homodyne Detection. Physical Review Letters, 2000, 85, 1349-1353.	2.9	90
64	Characterization of the electric field of ultrashort optical pulses. Journal of the Optical Society of America B: Optical Physics, 1996, 13, 2453.	0.9	89
65	Simplified field wave equations for the nonlinear propagation of extremely short light pulses. Physical Review A, 2002, 66, .	1.0	89
66	Analysis of ultrashort pulse-shape measurement using linear interferometers. Optics Letters, 1994, 19, 287.	1.7	88
67	Sub-10 fs pulse characterization using spatially encoded arrangement for spectral phase interferometry for direct electric field reconstruction. Optics Letters, 2006, 31, 1914.	1.7	84
68	Cavity-Enhanced Room-Temperature Broadband Raman Memory. Physical Review Letters, 2016, 116, 090501.	2.9	83
69	High-speed noise-free optical quantum memory. Physical Review A, 2018, 97, .	1.0	81
70	Direct spaceâ€“time characterization of the electric fields of ultrashort optical pulses. Optics Letters, 2002, 27, 548.	1.7	80
71	Broadband astigmatism-free Czerny-Turner imaging spectrometer using spherical mirrors. Applied Optics, 2009, 48, 3846.	2.1	80
72	Theory of quantum beats in optical transmission-correlation and pump-probe experiments for a general Raman configuration. Physical Review A, 1988, 38, 4681-4689.	1.0	79

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73	Secure Quantum Key Distribution using Continuous Variables of Single Photons. Physical Review Letters, 2008, 100, 110504.	2.9	78
74	High-performance single-photon generation with commercial-grade optical fiber. Physical Review A, 2011, 83, .	1.0	78
75	Interfacing GHz-bandwidth heralded single photons with a warm vapour Raman memory. New Journal of Physics, 2015, 17, 043006.	1.2	77
76	Chip-based array of near-identical, pure, heralded single-photon sources. Optica, 2017, 4, 90.	4.8	77
77	Engineering the Indistinguishability and Entanglement of Two Photons. Physical Review Letters, 1999, 83, 955-958.	2.9	76
78	On-chip, photon-number-resolving, telecommunication-band detectors for scalable photonic information processing. Physical Review A, 2011, 84, .	1.0	75
79	Measurement of group delay with high temporal and spectral resolution. Optics Letters, 1990, 15, 492.	1.7	74
80	Spatially resolved amplitude and phase characterization of femtosecond optical pulses. Optics Letters, 2001, 26, 96.	1.7	74
81	Direct, Loss-Tolerant Characterization of Nonclassical Photon Statistics. Physical Review Letters, 2006, 97, 043602.	2.9	74
82	Mapping coherence in measurement via full quantum tomography of a hybrid optical detector. Nature Photonics, 2012, 6, 364-368.	15.6	74
83	Measuring measurement: theory and practice. New Journal of Physics, 2009, 11, 093038.	1.2	73
84	Spectral distinguishability in ultrafast parametric down-conversion. Physical Review A, 1998, 57, R2289-R2292.	1.0	71
85	Coherent Control of Ultracold Molecule Dynamics in a Magneto-Optical Trap by Use of Chirped Femtosecond Laser Pulses. Physical Review Letters, 2006, 96, 173002.	2.9	71
86	Femtosecond to attosecond light pulses from a molecular modulator. Nature Photonics, 2011, 5, 664-671.	15.6	70
87	8Ã—8 reconfigurable quantum photonic processor based on silicon nitride waveguides. Optics Express, 2019, 27, 26842.	1.7	70
88	Ultrashort-pulse characterization from dynamic spectrograms by iterative phase retrieval. Journal of the Optical Society of America B: Optical Physics, 1997, 14, 944.	0.9	69
89	Photon Number Statistics of Multimode Parametric Down-Conversion. Physical Review Letters, 2008, 101, 053601.	2.9	69
90	Multiphoton state engineering by heralded interference between single photons and coherent states. Physical Review A, 2012, 86, .	1.0	69

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91	Multipulse Addressing of a Raman Quantum Memory: Configurable Beam Splitting and Efficient Readout. Physical Review Letters, 2012, 108, 263602.	2.9	68
92	Efficient Classical Algorithm for Boson Sampling with Partially Distinguishable Photons. Physical Review Letters, 2018, 120, 220502.	2.9	68
93	Invited Review Article: Technology for Attosecond Science. Review of Scientific Instruments, 2012, 83, 071101.	0.6	67
94	Time-resolved luminescence from coherently excited molecules as a probe of molecular wave-packet dynamics. Physical Review A, 1990, 42, 5622-5626.	1.0	63
95	Generation of Two-Photon States with an Arbitrary Degree of Entanglement Via Nonlinear Crystal Superlattices. Physical Review Letters, 2006, 97, 223602.	2.9	62
96	Using an imperfect photonic network to implement random unitaries. Optics Express, 2017, 25, 28236.	1.7	61
97	Pure-state single-photon wave-packet generation by parametric down-conversion in a distributed microcavity. Physical Review A, 2005, 72, .	1.0	59
98	Quantum states made to measure. Nature Photonics, 2009, 3, 673-676.	15.6	59
99	Temporal quantum fluctuations in stimulated Raman scattering: Coherent-modes description. Physical Review Letters, 1989, 63, 1586-1589.	2.9	58
100	Quantum detector tomography of a time-multiplexed superconducting nanowire single-photon detector at telecom wavelengths. Optics Express, 2013, 21, 893.	1.7	58
101	APPLIED PHYSICS: Toward Quantum-Information Processing with Photons. Science, 2005, 307, 1733-1734.	6.0	57
102	Direct Observation of Sub-Binomial Light. Physical Review Letters, 2013, 110, 173602.	2.9	57
103	Accuracy criterion for ultrashort pulse characterization techniques: application to spectral phase interferometry for direct electric field reconstruction. Journal of the Optical Society of America B: Optical Physics, 2002, 19, 1019.	0.9	56
104	Compact Continuous-Variable Entanglement Distillation. Physical Review Letters, 2012, 108, 060502.	2.9	54
105	Strategies for enhancing quantum entanglement by local photon subtraction. Physical Review A, 2013, 87, .	1.0	54
106	Real-time SPIDER: ultrashort pulse characterization at 20 Hz. Optics Express, 1999, 5, 134.	1.7	53
107	Direct measurement of the spatial Wigner function with area-integrated detection. Optics Letters, 2003, 28, 1317.	1.7	53
108	Self-Referencing, Spectrally, or Spatially Encoded Spectral Interferometry for the Complete Characterization of Attosecond Electromagnetic Pulses. Physical Review Letters, 2005, 94, 033905.	2.9	53

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109	Continuous-Variable Quantum Computing in Optical Time-Frequency Modes Using Quantum Memories. Physical Review Letters, 2014, 113, 130502.	2.9	53
110	Experimental determination of hotâ€carrier scattering processes in AlxGa1â^'xAs. Applied Physics Letters, 1987, 51, 605-607.	1.5	50
111	Efficient spatially resolved multimode quantum memory. Physical Review A, 2008, 78, .	1.0	50
112	Restoring dispersion cancellation for entangled photons produced by ultrashort pulses. Physical Review A, 2000, 62, .	1.0	48
113	Linear filter analysis of methods for ultrashort-pulse-shape measurements. Journal of the Optical Society of America B: Optical Physics, 1995, 12, 1491.	0.9	47
114	Quantum random bit generation using stimulated Raman scattering. Optics Express, 2011, 19, 25173.	1.7	46
115	Experimental study of the macroscopic quantum fluctuations of partially coherent stimulated Raman scattering. Physical Review A, 1986, 33, 382-390.	1.0	45
116	Characterization of the nonclassical nature of conditionally prepared single photons. Physical Review A, 2005, 72, .	1.0	45
117	Experimental Realization of Maximum Confidence Quantum State Discrimination for the Extraction of Quantum Information. Physical Review Letters, 2006, 97, 193601.	2.9	45
118	SPIDER: A decade of measuring ultrashort pulses. Laser Physics Letters, 2008, 5, 259-266.	0.6	45
119	Tomography of photon-number resolving continuous-output detectors. New Journal of Physics, 2015, 17, 103044.	1.2	45
120	Decoherence of molecular vibrational wave packets: Observable manifestations and control criteria. Physical Review A, 2001, 63, .	1.0	44
121	Theoretical and experimental analysis of quantum path interferences in high-order harmonic generation. Physical Review A, 2009, 80, .	1.0	44
122	Modular linear optical circuits. Optica, 2018, 5, 1087.	4.8	44
123	Temporal modes in quantum optics: then and now. Physica Scripta, 2020, 95, 064002.	1.2	44
124	Directly comparing entanglement-enhancing non-Gaussian operations. New Journal of Physics, 2015, 17, 023038.	1.2	43
125	Femtosecond carrier dynamics in lowâ€temperatureâ€grown indium phosphide. Applied Physics Letters, 1995, 66, 1821-1823.	1.5	40
126	Blind dispersion compensation for optical coherence tomography. Optics Communications, 2007, 269, 152-155.	1.0	39

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127	Design of bright, fiber-coupled and fully factorable photon pair sources. New Journal of Physics, 2010, 12, 093027.	1.2	39
128	Absolute efficiency estimation of photon-number-resolving detectors using twin beams. Optics Express, 2009, 17, 4397.	1.7	38
129	Recursive quantum detector tomography. New Journal of Physics, 2012, 14, 115005.	1.2	38
130	Observation of Brillouin optomechanical strong coupling with an 11â€‰â€‰GHz mechanical mode. Optica, 2019, 6, 7.	4.8	38
131	Homodyne detection in spectral phase interferometry for direct electric-field reconstruction. Optics Letters, 2001, 26, 1510.	1.7	37
132	Joint Quantum Measurement Using Unbalanced Array Detection. Physical Review Letters, 2001, 87, 253601.	2.9	37
133	A characterization of the single-photon sensitivity of an electron multiplying charge-coupled device. Journal of Physics B: Atomic, Molecular and Optical Physics, 2009, 42, 114011.	0.6	37
134	UK national quantum technology programme. Quantum Science and Technology, 2019, 4, 040502.	2.6	37
135	Simple linear technique for the measurement of spaceâ€“time coupling in ultrashort optical pulses. Optics Letters, 2002, 27, 1947.	1.7	36
136	Space QUEST mission proposal: experimentally testing decoherence due to gravity. New Journal of Physics, 2018, 20, 063016.	1.2	36
137	The boundary for quantum advantage in Gaussian boson sampling. Science Advances, 2022, 8, eabl9236.	4.7	36
138	Emission tomography for quantum state measurement in matter. Journal of Physics B: Atomic, Molecular and Optical Physics, 1998, 31, 1825-1863.	0.6	35
139	Measuring phonon dephasing with ultrafast pulses using Raman spectral interference. Physical Review B, 2008, 78, .	1.1	35
140	High-fidelity polarization storage in a gigahertz bandwidth quantum memory. Journal of Physics B: Atomic, Molecular and Optical Physics, 2012, 45, 124008.	0.6	35
141	Attosecond sampling of arbitrary optical waveforms. Optica, 2016, 3, 303.	4.8	35
142	Lateral shearing interferometry of high-harmonic wavefronts. Optics Letters, 2011, 36, 1746.	1.7	34
143	Observing optical coherence across Fock layers with weak-field homodyne detectors. Nature Communications, 2014, 5, 5584.	5.8	34
144	High precision self-referenced phase retrieval of complex pulses with multiple-shearing spectral interferometry. Journal of the Optical Society of America B: Optical Physics, 2009, 26, 1818.	0.9	33

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145	Optimal experiment design for quantum state tomography: Fair, precise, and minimal tomography. Physical Review A, 2010, 81, .	1.0	33
146	Quasiprobability representation of quantum coherence. Physical Review A, 2018, 97, .	1.0	33
147	Quantum-enhanced interferometry with large heralded photon-number states. Npj Quantum Information, 2020, 6, .	2.8	33
148	Simplified quantum process tomography. New Journal of Physics, 2009, 11, 115010.	1.2	32
149	Improved ancilla preparation in spectral shearing interferometry for accurate ultrafast pulse characterization. Optics Letters, 2009, 34, 881.	1.7	32
150	Approximating vibronic spectroscopy with imperfect quantum optics. Journal of Physics B: Atomic, Molecular and Optical Physics, 2018, 51, 245503.	0.6	32
151	Bridging Particle and Wave Sensitivity in a Configurable Detector of Positive Operator-Valued Measures. Physical Review Letters, 2009, 102, 080404.	2.9	31
152	A proposed testbed for detector tomography. Journal of Modern Optics, 2009, 56, 432-441.	0.6	31
153	Coherent Control and Wave Mixing in an Ensemble of Silicon-Vacancy Centers in Diamond. Physical Review Letters, 2019, 122, 063601.	2.9	31
154	Quantum-enhanced stimulated emission detection for label-free microscopy. Applied Physics Letters, 2020, 117, .	1.5	31
155	Encoding a qubit into multilevel subspaces. New Journal of Physics, 2006, 8, 35-35.	1.2	30
156	Efficient optical pumping and high optical depth in a hollow-core photonic-crystal fibre for a broadband quantum memory. New Journal of Physics, 2013, 15, 055013.	1.2	30
157	The determination of electronic dephasing rates in timeâ€resolved quantumâ€beat spectroscopy. Journal of Chemical Physics, 1990, 92, 1568-1574.	1.2	29
158	Dynamics of photoinduced collisions of cold atoms probed with picosecond laser pulses. Physical Review A, 2001, 64, .	1.0	29
159	Large scale quantum walks by means of optical fiber cavities. Journal of Optics (United Kingdom), 2016, 18, 094007.	1.0	29
160	Detecting quantum superpositions of classically distinguishable states of a molecule. Physical Review A, 1995, 52, 681-685.	1.0	28
161	Looking to the Future of Quantum Optics. Science, 2008, 319, 1211-1213.	6.0	28
162	A hybrid quantum memoryâ€“enabled network at room temperature. Science Advances, 2020, 6, eaax1425.	4.7	28

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163	Tuning between photon-number and quadrature measurements with weak-field homodyne detection. Physical Review A, 2020, 101, .	1.0	28
164	Interferometric technique for engineering indistinguishability and entanglement of photon pairs. Physical Review A, 2000, 62, .	1.0	27
165	Ultrahigh and persistent optical depths of cesium in KagomÃ©-type hollow-core photonic crystal fibers. Optics Letters, 2015, 40, 5582.	1.7	27
166	Nonclassical light manipulation in a multiple-scattering medium. Optics Letters, 2014, 39, 6090.	1.7	26
167	Theory of noise suppression in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi mathvariant="normal">Î›</mml:mi></mml:math> -type quantum memories by means of a cavity. Physical Review A, 2017, 96, .	1.0	26
168	Rotationally induced collapse and revivals of molecular vibrational wavepackets: model for environment-induced decoherence. Journal of Physics B: Atomic, Molecular and Optical Physics, 2002, 35, 1967-1984.	0.6	25
169	Compact spectral shearing interferometer for ultrashort pulse characterization. Optics Letters, 2007, 32, 181.	1.7	25
170	Detector-Independent Verification of Quantum Light. Physical Review Letters, 2017, 118, 163602.	2.9	25
171	Engineering SchrÃ¶dinger cat states with a photonic even-parity detector. Quantum - the Open Journal for Quantum Science, 0, 4, 239.	0.0	25
172	Fidelity of optimally controlled quantum gates with randomly coupled multiparticle environments. Journal of Modern Optics, 2007, 54, 2339-2349.	0.6	24
173	Pump-probe study of the formation of rubidium molecules by ultrafast photoassociation of ultracold atoms. Physical Review A, 2009, 80, .	1.0	24
174	Analytic Solution for Strong-Field Quantum Control of Atomic Wave Packets. Physical Review Letters, 1998, 81, 955-958.	2.9	23
175	Simplified spectral phase interferometry for direct electric-field reconstruction by using a thick nonlinear crystal. Optics Letters, 2006, 31, 1008.	1.7	23
176	Integrated photonic sensing. New Journal of Physics, 2011, 13, 055024.	1.2	23
177	Certified Quantum Random Numbers from Untrusted Light. Physical Review X, 2020, 10, .	2.8	23
178	Amplification of Impulsively Excited Molecular Rotational Coherence. Physical Review Letters, 2010, 104, 193902.	2.9	22
179	Benchmarking of Gaussian boson sampling using two-point correlators. Physical Review A, 2019, 99, .	1.0	22
180	Precision and consistency criteria in spectral phase interferometry for direct electric-field reconstruction. Journal of the Optical Society of America B: Optical Physics, 2002, 19, 1030.	0.9	21

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181	Broadband noise-free optical quantum memory with neutral nitrogen-vacancy centers in diamond. Physical Review B, 2015, 91, .	1.1	21
182	Nonclassicality Criteria in Multiport Interferometry. Physical Review Letters, 2016, 117, 213602.	2.9	21
183	Raman quantum memory with built-in suppression of four-wave-mixing noise. Physical Review A, 2019, 100, .	1.0	21
184	On-chip beam rotators, adiabatic mode converters, and waveplates through low-loss waveguides with variable cross-sections. Light: Science and Applications, 2022, 11, .	7.7	21
185	Linear pulse propagation in stationary and nonstationary multilevel media in the transient regime. Journal of the Optical Society of America B: Optical Physics, 1996, 13, 601.	0.9	20
186	Measuring ultrafast pulses in the near-ultraviolet using spectral phase interferometry for direct electric field reconstruction. Journal of Modern Optics, 2003, 50, 179-184.	0.6	20
187	Concepts for the Temporal Characterization of Short Optical Pulses. Eurasip Journal on Advances in Signal Processing, 2005, 2005, 1.	1.0	20
188	Suppression of Decoherence in a Wave Packet via Nonlinear Resonance. Physical Review Letters, 2007, 98, 050501.	2.9	20
189	Resolution of the relative phase ambiguity in spectral shearing interferometry of ultrashort pulses. Optics Letters, 2010, 35, 1971.	1.7	20
190	Multiparticle Interference of Pairwise Distinguishable Photons. Physical Review Letters, 2020, 125, 123603.	2.9	20
191	Entanglement in macroscopic systems. Physical Review A, 2017, 95, .	1.0	19
192	Quantum interference enables constant-time quantum information processing. Science Advances, 2019, 5, eaau9674.	4.7	19
193	Complete characterization of attosecond pulses. Journal of Modern Optics, 2005, 52, 361-378.	0.6	18
194	Strain-optic active control for quantum integrated photonics. Optics Express, 2014, 22, 21719.	1.7	18
195	Quantum Correlations from the Conditional Statistics of Incomplete Data. Physical Review Letters, 2016, 117, 083601.	2.9	18
196	Gaussian optical Ising machines. Physical Review A, 2017, 96, .	1.0	18
197	On-chip III-V monolithic integration of heralded single photon sources and beamsplitters. Applied Physics Letters, 2018, 112, .	1.5	18
198	Tensor network states in time-bin quantum optics. Physical Review A, 2018, 97, .	1.0	18

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199	Measurement of ultrashort optical pulses with Î²â€BaB2O4. Applied Physics Letters, 1988, 52, 519-521.	1.5	17
200	Managing photons for quantum information processing. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2003, 361, 1493-1506.	1.6	17
201	Understanding High-Gain Twin-Beam Sources Using Cascaded Stimulated Emission. Physical Review X, 2020, 10, .	2.8	17
202	Photon-number-resolving detection using time-multiplexing. , 0, .		17
203	Spectrally pure single photons at telecommunications wavelengths using commercial birefringent optical fiber. Optics Express, 2020, 28, 5147.	1.7	17
204	Quasi-phase-matched high-harmonic generation in gas-filled hollow-core photonic crystal fiber. Optica, 2019, 6, 442.	4.8	17
205	Modeling of the gain distribution for diode pumping of a solid-state laser rod with nonimaging optics. Applied Optics, 1993, 32, 1517.	2.1	16
206	Molecular emission tomography of anharmonic vibrations. Physical Review A, 1997, 56, R2491-R2494.	1.0	16
207	Measuring Ultrafast Optical Pulses Using Spectral Interferometry. Optics and Photonics News, 1999, 10, 28.	0.4	16
208	Spectral shearing interferometry with spatially chirped replicas for measuring ultrashort pulses. Optics Express, 2007, 15, 15168.	1.7	16
209	Heralding quantum entanglement between two room-temperature atomic ensembles. Optica, 2021, 8, 925.	4.8	16
210	Further compactifying linear optical unitaries. APL Photonics, 2021, 6, .	3.0	16
211	8Ã—8 Programmable Quantum Photonic Processor based on Silicon Nitride Waveguides. , 2018, , .		16
212	Testing multi-photon interference on a silicon chip. Optics Express, 2019, 27, 35646.	1.7	16
213	Competition between geometrical and dynamical squeezing during a Franck-Condon transition. Physical Review A, 1994, 50, 732-740.	1.0	15
214	Ultrashort pulse characterization by spectral shearing interferometry with spatially chirped ancillae. Optics Express, 2009, 17, 18983.	1.7	15
215	Measuring the Joint Spectral Mode of Photon Pairs Using Intensity Interferometry. Physical Review Letters, 2022, 128, 023601.	2.9	15
216	Quantum Control of Molecular Wavepackets:Â An Approximate Analytic Solution for the Strong-Response Regime. Journal of Physical Chemistry A, 1999, 103, 10409-10416.	1.1	14

#	Article	IF	Citations
217	Quantum Information Science. Optics and Photonics News, 2002, 13, 42.	0.4	14
218	Non-edge-ray design: improved optical pumping of lasers. Optical Engineering, 2004, 43, 1511.	0.5	14
219	Generation of highly entangled photon pairs for continuous variable Bell inequality violation. Journal of Modern Optics, 2007, 54, 707-719.	0.6	14
220	Entanglement quantification from incomplete measurements: applications using photon-number-resolving weak homodyne detectors. New Journal of Physics, 2010, 12, 033042.	1.2	14
221	Sequential Path Entanglement for Quantum Metrology. Scientific Reports, 2013, 3, .	1.6	14
222	Two-Way Photonic Interface for Linking the Sr+ Transition at 422 nm to the Telecommunication C Band. Physical Review Applied, 2018, 10, .	1.5	14
223	Temporal heterodyne detector for multitemporal mode quantum state measurement. Journal of Optics B: Quantum and Semiclassical Optics, 2000, 2, 510-516.	1.4	13
224	Quantum correlations in composite systems. Journal of Physics B: Atomic, Molecular and Optical Physics, 2017, 50, 134003.	0.6	13
225	Homodyne detection in a photon counting application. Journal of Modern Optics, 1996, 43, 795-805.	0.6	12
226	Heterodyne measurement of vibrational wave packets of diatomic molecules. Physical Review A, 1999, 60, 2716-2725.	1.0	12
227	Quantum limits of stochastic cooling of a bosonic gas. Physical Review A, 2003, 67, .	1.0	12
228	Analytic solution for quantum control of atomic and molecular wavepackets. Journal of Optics B: Quantum and Semiclassical Optics, 2003, 5, R27-R42.	1.4	12
229	Quantum memory in an optical lattice. Physical Review A, 2010, 82, .	1.0	12
230	Spaceâ€“time coupling of shaped ultrafast ultraviolet pulses from an acousto-optic programmable dispersive filter. Journal of the Optical Society of America B: Optical Physics, 2011, 28, 58.	0.9	12
231	Quantum coherences of indistinguishable particles. Physical Review A, 2017, 96, .	1.0	12
232	Quantum noise limit to the beam-pointing stability in stimulated Raman generation. Journal of the Optical Society of America B: Optical Physics, 1991, 8, 805.	0.9	11
233	Analysis of some intuitive approaches to the coherent control of state-selected ultracold molecules. Journal of Physics B: Atomic, Molecular and Optical Physics, 2006, 39, S1055-S1075.	0.6	11
234	Entanglement fidelity of quantum memories. Physical Review A, 2006, 74, .	1.0	11

#	Article	IF	Citations
235	Measuring sub-Planck structural analogues in chronocyclic phase space. Optics Communications, 2010, 283, 855-859.	1.0	11
236	From molecular control to quantum technology with the dynamic Stark effect. Faraday Discussions, 2011, 153, 321.	1.6	11
237	Accuracy measurements and improvement for complete characterization of optical pulses from nonlinear processes via multiple spectral-shearing interferometry. Optics Express, 2011, 19, 25355.	1.7	11
238	Heralded generation of single photons in pure quantum states. Journal of Modern Optics, 2012, 59, 1525-1537.	0.6	11
239	High efficiency Raman memory by suppressing radiation trapping. New Journal of Physics, 2017, 19, 063034.	1.2	11
240	Classical multiparty computation using quantum resources. Physical Review A, 2017, 96, .	1.0	11
241	Optimal Coherent Filtering for Single Noisy Photons. Physical Review Letters, 2019, 123, 213604.	2.9	11
242	Comment on â€˜â€˜Femtosecond dynamics of highly excited carriers in AlxGa1â^'xAsâ€™â€™ [Appl. Phys. Lett. 51, 161 (1987)]. Applied Physics Letters, 1988, 52, 850-851.	1.5	10
243	Multiphoton interference effects at a beam splitter. Journal of Modern Optics, 1998, 45, 2233-2243.	0.6	10
244	Maximum confidence measurements and their optical implementation. European Physical Journal D, 2007, 41, 589-598.	0.6	10
245	Optimal experiment design for quantum state tomography of a molecular vibrational mode. Journal of Physics B: Atomic, Molecular and Optical Physics, 2008, 41, 074004.	0.6	10
246	Mutual interferometric characterization of a pair of independent electric fields. Optics Letters, 2013, 38, 5299.	1.7	10
247	Simultaneous spatial characterization of two independent sources of high harmonic radiation. Optics Letters, 2014, 39, 6142.	1.7	10
248	Editorial: Building Quantum Networks. Physical Review Applied, 2016, 6, .	1.5	10
249	Identification of nonclassical properties of light with multiplexing layouts. Physical Review A, 2017, 96, .	1.0	10
250	Measuring Fast Pulses With Slow Detectors. Optics and Photonics News, 1996, 7, 23.	0.4	9
251	Violation of a Bell-type inequality in the homodyne measurement of light in an Einstein-Podolsky-Rosen state. Physical Review A, 2001, 64, .	1.0	9
252	Efficient optical implementation of the Bernstein-Vazirani algorithm. Physical Review A, 2004, 69, .	1.0	9

#	Article	IF	Citations
253	Demonstrating coherent control in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mmultiscripts><mml:mtext>R</mml:mtext><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>85</mml:mn></mml:mrow></mml:mmultiscripts><mml:mtext>b</mml:mtext></mml:mrow><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math> ultrafast laser pulses: A theoretical outline of two experiments. Physical Review A, 2009, 80, .	1.0	9
254	Quantum interference beyond the fringe. Science, 2017, 358, 1001-1002.	6.0	9
255	Quasistates and quasiprobabilities. Physical Review A, 2018, 98, .	1.0	9
256	Mapping and measuring large-scale photonic correlation with single-photon imaging. Optica, 2019, 6, 244.	4.8	9
257	Measuring the quantum state of cold atoms using momentum-shearing interferometry. Physical Review A, 1998, 57, R713-R716.	1.0	8
258	Gold-SPIDER: spectral phase interferometry for direct electric field reconstruction utilizing sum-frequency generation from a gold surface. Journal of the Optical Society of America B: Optical Physics, 2008, 25, A13.	0.9	8
259	Continuous phase stabilization and active interferometer control using two modes. Journal of Modern Optics, 2012, 59, 42-45.	0.6	8
260	Enhanced delegated computing using coherence. Physical Review A, 2016, 93, .	1.0	8
261	Detector-Agnostic Phase-Space Distributions. Physical Review Letters, 2020, 124, 013605.	2.9	8
262	Preparing narrow velocity distributions for quantum memories in room-temperature alkali-metal vapors. Physical Review A, 2021, 103, .	1.0	8
263	Quantum simulations with multiphoton Fock states. Npj Quantum Information, 2021, 7, .	2.8	8
264	Reducing g⁽²⁾(0) of a parametric down-conversion source via photon-number resolution with superconducting nanowire detectors. Optics Express, 2022, 30, 3138.	1.7	8
265	Spectral quantum fluctuations in a stimulated Raman generator: a description in terms of temporally coherent modes. Optics Letters, 1992, 17, 435.	1.7	7
266	Room temperature atomic frequency comb storage for light. Optics Letters, 2021, 46, 2960.	1.7	7
267	Gigahertz-bandwidth optical memory in Pr3+:Y2SiO5. Optics Letters, 2021, 46, 2948.	1.7	7
268	Free-space spectro-temporal and spatio-temporal conversion for pulsed light. Optics Letters, 2016, 41, 4328.	1.7	7
269	Maximum likelihood identification of quantum systems for control design. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2003, 36, 121-126.	0.4	6
270	Synthesis of time-bin entangled states via tailored group velocity matching. Journal of Modern Optics, 2005, 52, 2197-2205.	0.6	6

#	Article	IF	Citations
271	Tailoring the phase-matching function for ultrashort pulse characterization by spectral shearing interferometry. Journal of the Optical Society of America B: Optical Physics, 2007, 24, 2064.	0.9	6
272	Ultrafast computing with molecules. Physics Magazine, 2010, 3, .	0.1	6
273	Effects ofnâ€type modulation doping of quantum wells on the dynamics of photoluminescence. Applied Physics Letters, 1993, 63, 3461-3463.	1.5	5
274	Dithered-edge sampling of terahertz pulses. Applied Physics Letters, 1999, 75, 2181-2183.	1.5	5
275	Quantum control of Rydberg wave packets in the strong-response regime. Physical Review A, 2001, 63, .	1.0	5
276	Simultaneous time and frequency gating of weak molecular fluorescence in a thick nonlinear crystal. Applied Physics Letters, 2006, 88, 061109.	1.5	5
277	In situcharacterization of an optically thick atom-filled cavity. Physical Review A, 2016, 93, .	1.0	5
278	Entangled resource for interfacing single- and dual-rail optical qubits. Quantum - the Open Journal for Quantum Science, 0, 5, 416.	0.0	5
279	Quantum noise limit to the beam-pointing stability in stimulated Raman generation: errata. Journal of the Optical Society of America B: Optical Physics, 1991, 8, 2392.	0.9	4
280	Reconstruction of temporal signals from nonlinear-optical measurements. Quantum Electronics, 1998, 28, 728-732.	0.3	4
281	The coherent effect of chirped femtosecond laser pulses on the formation of ultracold molecules in a magneto-optical trap. Optics Communications, 2006, 264, 278-284.	1.0	4
282	A short perspective on long crystals: broadband wave mixing and its application to ultrafast quantum optics. Journal of Modern Optics, 2007, 54, 1939-1958.	0.6	4
283	A pumpâ€“probe study of the photoassociation of cold rubidium molecules. Faraday Discussions, 2009, 142, 403.	1.6	4
284	Characterization of the femtosecond speckle field of a multiply scattering medium via spatio-spectral interferometry. Journal of the Optical Society of America B: Optical Physics, 2012, 29, 1146.	0.9	4
285	Separable and Inseparable Quantum Trajectories. Physical Review Letters, 2017, 119, 170401.	2.9	4
286	Drive-noise tolerant optical switching inspired by composite pulses. Optics Express, 2020, 28, 8646.	1.7	4
287	Femtosecond laser studies of the relaxation dynamics of semiconductors and large molecules. IBM Journal of Research and Development, 1989, 33, 447-455.	3.2	3
288	<title>Phase retrieval in time-resolved spectral phase measurement</title>. , 1995, , .		3

#	Article	IF	Citations
289	Direct measurement of a photoconductive receiverâ€™s temporal response by dithered-edge sampling. Optics Letters, 1999, 24, 1771.	1.7	3
290	IDENTIFICATION OF QUANTUM SYSTEMS: MAXIMUM LIKELIHOOD AND OPTIMAL EXPERIMENT DESIGN FOR STATE TOMOGRAPHY. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 668-673.	0.4	3
291	Characterization of the non-classical nature of conditionally-prepared single photon states. , 2005, , FWD6.		3
292	MEASUREMENT OF THE INTENSITY-DEPENDENT REFRACTIVE INDEX USING COMPLETE SPATIO-TEMPORAL PULSE CHARACTERIZATION. Journal of Nonlinear Optical Physics and Materials, 2005, 14, 9-20.	1.1	3
293	Quantum Proces Tomography of Decoherence in Diatomic Molecules. , 2007, , .		3
294	High-birefringence direct UV-written waveguides for use as heralded single-photon sources at telecommunication wavelengths. Optics Express, 2018, 26, 24678.	1.7	3
295	Single-shot discrimination of coherent states beyond the standard quantum limit. Optics Letters, 2021, 46, 2565.	1.7	3
296	A noise-free quantum memory for broadband light at room temperature. , 2017, , .		3
297	Spectral Phase Interferometry for Direct Electric Field Reconstruction of Ultrashort Optical Pulses. Springer Series in Chemical Physics, 1998, , 103-105.	0.2	3
298	From the fundamental to the applied. Nature, 1993, 365, 585-585.	13.7	2
299	Development and applications of electro-optics for high-power systems. , 1993, 1865, 100.		2
300	<title>Practical advances in ultrashort-pulse measurement using frequency-resolved optical gating</title>. , 1996, , .		2
301	Characterization and Preparation of Higher Photon Number States. AIP Conference Proceedings, 2004, , .	0.3	2
302	Efficient conditional preparation and assessment of single photon wavepackets based on spontaneous parametric downconversion in a KTP nonlinear waveguide (Invited Paper). , 2005, , .		2
303	Requirements for two-source entanglement concentration. Quantum Measurements and Quantum Metrology, 2013, 1, 5-11.	3.3	2
304	Quantum enhanced estimation of optical detector efficiencies. Quantum Measurements and Quantum Metrology, 2016, 3, .	3.3	2
305	Homodyne detection in a photon counting application. , 0, .		2
306	Quantum interference of multiple on-chip heralded sources of pure single photons. , 2014, , .		2

#	Article	IF	Citations
307	Diagnosing phase correlations in the joint spectrum of parametric downconversion using multi-photon emission. Optics Express, 2020, 28, 34246.	1.7	2
308	<title>Characterization of noisy trains of ultrashort pulses</title>. , 1996, , .		1
309	Foreword Special Issue: Attosecond Science. Journal of Modern Optics, 2005, 52, 163-164.	0.6	1
310	A compact spectral shearing interferometer for ultrashort pulse characterization. , 2006, , .		1
311	Measurement of Ultrashort Electromagnetic Pulses. Journal of the Optical Society of America B: Optical Physics, 2008, 25, MU1.	0.9	1
312	Joint Photon Statistics of Photon-Subtracted Squeezed Light. , 2009, , .		1
313	Analysis of space-time coupling in SEA-SPIDER measurements. , 2009, , .		1
314	Focusing on factorability: spaceâ€“time coupling in the generation of pure heralded single photons. Journal of Modern Optics, 2009, 56, 179-189.	0.6	1
315	Applications of Raman Scattering in Quantum Technologies. , 2010, , .		1
316	Towards scalable photonics via quantum storage. Proceedings of SPIE, 2013, , .	0.8	1
317	Entang-bling: Observing quantum correlations in room-temperature solids. Journal of Physics: Conference Series, 2013, 442, 012004.	0.3	1
318	Precision metrology with weak measurements. , 2014, , .		1
319	Classical evolution in quantum systems. Physica Scripta, 2020, 95, 065101.	1.2	1
320	ULTRAFAST NONLINEAR OPTICS. , 1992, , 119-186.		1
321	Measuring ultrafast pulses in the near-ultraviolet using spectral phase interferometry for direct electric field reconstruction. , 0, .		1
322	Temporal-mode selection with a Raman quantum memory. , 2017, , .		1
323	Engineering a Noiseless and Broadband Raman Quantum Memory for Temporal Mode Manipulation. , 2018, , .		1
324	Fully automated, phase corrected Long Crystal SPIDER for the characterization of broadband pulses. , 2008, , .		1

#	Article	IF	Citations
325	High quantum efficiency photon-number-resolving detector for photonic on-chip information processing. , 2013, , .		1
326	Heralded single photon storage in a room-temperature, broadband quantum memory. , 2014, , .		1
327	Linear Optical Quantum Computing in a Single Spatial Mode. , 2014, , .		1
328	QLad: A Noise-Free Quantum Memory for Broadband Light at Room Temperature. , 2017, , .		1
329	Femtosecond Relaxation Processes In Semiconductors. Proceedings of SPIE, 1988, , .	0.8	0
330	Material beginnings. Nature, 1992, 359, 454-454.	13.7	0
331	<title>Measurement of the amplitude and phase of pulses from passively mode-locked lasers</title>. , 1993, , .		0
332	Looking good. Nature, 1994, 371, 451-451.	13.7	0
333	<title>Pulse-shape measurement using linear interferometers</title>. , 1994, , .		0
334	CAREERS IN OPTICS. Optics and Photonics News, 2000, 11, 20.	0.4	0
335	Quantum oracles and the optical Bernstein-Vazirani algorithm. , 2003, 4829, 618.		0
336	Indirect Adaptive Control of Quantum Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2003, 36, 227-232.	0.4	0
337	Characterizing space-time coupling of the electric field of ultrashort pulses using the SPIDER technique. , 2005, , .		0
338	MEASURING ATTOSECOND XUV PULSES. , 2005, , JMC1.		0
339	MANAGING CONTINUOUS VARIABLES FOR SINGLE PHOTONS. , 2005, , .		0
340	Single photon quantum key distribution with continuous variables. , 2006, , .		0
341	Loss-tolerant characterization of nonclassical photonic states. , 2006, , .		0
342	Characterization of sub-10-fs pulses using spatially encoded arrangement for SPIDER. , 2006, , .		0

#	Article	IF	Citations
343	Coherent control of decoherence in diatomic molecules. , 2006, , .		0
344	Characterising spatio-temporal coupling of extreme ultraviolet ultrashort pulses from high harmonic generation. , 2007, , .		0
345	Characterizing spatio-temporal coupling of extreme ultraviolet ultrashort pulses from high harmonic generation. , 2007, , .		0
346	Experimental production of pure single-photon states. , 2007, , .		0
347	Spectral Shearing Interferometry with Spatially Chirped Beams. , 2007, , .		0
348	Evaluation of an Optimal Experiment Design Protocol Based on Convex Optimization for Photonic State Tomography. , 2009, , .		0
349	Dynamic wavepackets in coherently controlled rubidium dimers. , 2009, , .		0
350	A pump-probe study of the photoassociation of cold rubidium molecules. , 2009, , .		0
351	Phase retrieval of complex ultrashort pulses using multiple-shearing spectral interferometry. , 2009, , .		0
352	Publisher's Note: Demonstrating coherent control in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mmultiscripts><mml:mtext>R</mml:mtext><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>85</mml:mn></mml:mrow></mml:mmultiscripts><mml:mtext>b</mml:mtext></mml:mrow><mml:mn>2</mml:mn> ultrafast laser pulses: A theoretical outline of two experiments [Phys. Rev. A80, 033403 (2009)].	1.0	0
353	Photon Pair Generation via Spontaneous Four-Wave Mixing in Birefringent Optical Fibers. , 2009, , .		0
354	Full characterization of quantum optical detectors. , 2009, , .		0
355	COMPONENTS FOR MULTI-PHOTON NON-CLASSICAL STATE PREPARATION AND MEASUREMENT. , 2010, , .		0
356	Extending electron orbital precession to the molecular case: Use of orbital alignment for observation of wavepacket dynamics. Physical Review A, 2011, 83, .	1.0	0
357	Single-photon-level memory at room temperature. , 2011, , .		0
358	Photonic quantum memories. , 2011, , .		0
359	Quantum-path interferometry for high-harmonic generation. , 2011, , .		0
360	Synchronizing single photons with quantum memories. , 2012, , .		0

#	Article	IF	Citations
361	Turning classical states quantum with linear optics and photon counting. , 2012, , .		0
362	Quantum Diamonds. Optics and Photonics News, 2012, 23, 34.	0.4	0
363	Entangbling - Quantum correlations in diamond. , 2012, , .		0
364	Quantum memories and large-scale quantum coherence based on Raman interactions. , 2013, , .		0
365	Measuring Ultrashort Optical Pulses. , 2013, , 1-21.		0
366	Hybrid Detectors. Experimental Methods in the Physical Sciences, 2013, 45, 217-255.	0.1	0
367	Quantum Detector Tomography. Experimental Methods in the Physical Sciences, 2013, 45, 283-313.	0.1	0
368	High-efficiency Bragg grating enhanced on-chip photon-number-resolving detectors. , 2013, , .		0
369	Measuring nonlocal coherence with weak-field homodyne detection. , 2013, , .		0
370	Attosecond sampling of arbitrary optical waveforms. , 2013, , .		0
371	Direct observation of sub-binomial light. , 2013, , .		0
372	On-chip quantum teleportation. , 2013, , .		0
373	Storing GHz Bandwidth Heralded Single Photons in a Room-Temperature Raman Memory: Efficiency and Noise. , 2014, , .		0
374	Blind digital holographic microscopy. , 2017, , .		0
375	Frequency-multiplexed single-photon sources using electro-optic frequency translation. , 2017, , .		0
376	Integrated quantum optics. , 2017, , .		0
377	Engineering the spectral and temporal properties of a GHz-bandwidth heralded single-photon source interfaced with an on-demand, broadband quantum memory. Journal of Modern Optics, 2018, 65, 1668-1679.	0.6	0
378	Bending the Rules: Quantum Effects in the Operation of a Microscopic Heat Engine in Diamond. , 2019, , .		0

#	Article	IF	Citations
379	8Ã—8 Programmable Si3N4 Photonic Processor for Linear Quantum Processing. , 2019, , .		0
380	Brillouin optomechanics in whispering-gallery-mode microresonators: From strong coupling to single-phonon addition and subtraction. , 2021, , .		0
381	Precision and accuracy of ultrashort optical pulse measurement using SPIDER. Springer Series in Chemical Physics, 2001, , 120-122.	0.2	0
382	Controlling the Dephasing of Vibrational Wavepackets in Potassium Dimers. , 2002, , .		0
383	Controlling the Dephasing of Vibrational Wavepackets in Potassium Dimers. Springer Series in Chemical Physics, 2003, , 82-84.	0.2	0
384	Joint Quantum Measurement Using Fourier-Transform Spectral Interferometry. Springer Series in Chemical Physics, 2003, , 235-237.	0.2	0
385	Joint quantum measurement using unbalanced array detection. , 2003, , 455-456.		0
386	COHERENT CONTROL OF DECOHERENCE. , 2005, , .		0
387	Classical and Quantum Information Processing Using EIT. , 2005, , .		0
388	Synthesis of time-bin entangled states via tailored group velocity matching. , 2005, , .		0
389	The Effect of Chirped Femtosecond Laser Pulses on the Formation of Ultracold Molecules in a Magneto-Optical Trap. , 2006, , .		0
390	Ultrashort pulse characterization using a compact spectral shearing interferometer. , 2006, , .		0
391	Study of quantum-path interferences in the high harmonic generation process. Springer Series in Chemical Physics, 2009, , 27-29.	0.2	0
392	The Long and the Short of Interferometric Pulse Measurement. , 2007, , .		0
393	Conditional preparation of single photon wavepackets in pure quantum states. , 2007, , .		0
394	Quantum communication with photon number resolved detection and waveguided parametric downconversion. , 2007, , .		0
395	Continuous Variables for Single Photons. , 2007, , 367-387.		0
396	Design of bright, fiber-coupled and fully factorable photon pair sources for quantum information processing. , 2008, , .		0

#	Article	IF	Citations
397	Tomography of a Heralded N00N State with Losses. , 2009, , .		0
398	Quantum Path Interferences in High-Harmonic Generation: Ionization Effects and Spatial Structure. , 2009, , .		0
399	Increasing the Consistency and Accuracy of Spectral Shearing Interferometry Via Multiple Shearing. , 2009, , .		0
400	Photon Pair Generation in Birefringent Fiber: A Route to Better Photons. , 2009, , .		0
401	Two-Photon Interference and Commutation Relations. , 2010, , .		0
402	Coherent Optical Memory with GHz Bandwidth. , 2010, , .		0
403	Phase-controlled Photonic Quantum Circuits in Laser Written Integrated Optics. , 2010, , .		0
404	Optimal Experiment Design for Minimal Tomography. , 2010, , .		0
405	Building multimode quantum optical networks. , 2011, , .		0
406	Single-photon-level memory at room temperature. , 2011, , .		0
407	Absolute Calibration of Optical Detectors Using Two-Mode Squeezed Light. , 2011, , .		0
408	Generalized Multishearing Interferometry for the Complete Multidimensional Characterization of Optical Beams and Ultrashort Pulses. , 2012, , .		0
409	Vectorial Phase Retrieval for Linear Characterization of Attosecond Pulses. , 2012, , .		0
410	Entangbling â€“ quantum correlations in diamond. , 2012, , .		0
411	Elements of a Practical Quantum Network. , 2012, , .		0
412	Quantum random bit generation by stimulated Raman scattering. , 2012, , .		0
413	Tutorial: Scalable photonic quantum networks. , 2012, , .		0
414	Non-Classical States Of Light: Toward Scalable Photonic Quantum Networks. , 2013, , .		0

#	Article	IF	Citations
415	Scalable Photonic Quantum Networks. , 2013, , .		0
416	Surpassing the conventional Heisenberg limit using classical resources. , 2013, , .		0
417	Storage of Light in a Hollow-Core Photonic-Crystal Fibre. , 2013, , .		0
418	Scalable Photonic Quantum Networks. , 2013, , .		0
419	Mutual Interferometric Characterization of Electric-fields. , 2013, , .		0
420	Photon replacement: a versatile tool for non-Gaussian continuous-variable quantum optics. , 2014, , .		0
421	Identifying nonclassicality of multiphoton and multimode quantum states directly from experimental detector outcomes. , 2014, , .		0
422	Quantum Statistics of Stimulated Raman Scattering. , 1984, , 63-70.		0
423	Femtosecond Relaxation Studies of Semiconductors and Large Molecules. Springer Series in Chemical Physics, 1988, , 357-362.	0.2	0
424	Spectrally-Resolved, DC-Balanced Homodyne Detection for Ultrafast, Multimode, Quantum Field State Measurement. Springer Series in Chemical Physics, 1996, , 169-170.	0.2	0
425	On the Strong-Field Quantum Control Problem in Matter. Springer Series in Chemical Physics, 1996, , 217-218.	0.2	0
426	Dithered-edge sampling of terahertz pulses: fast detection using slow photoconductive receivers. Springer Series in Chemical Physics, 1998, , 205-207.	0.2	0
427	Engineering Quantum Indistinguishability in Ultrafast Parametric Downconversion. Springer Series in Chemical Physics, 1998, , 139-141.	0.2	0
428	Bad Cavities for Good Memories: Storing Broadband Photons with Low Noise. , 2015, , .		0
429	Bad Cavities for Good Memories: Suppression of Four-Wave Mixing in Raman Memories. , 2015, , .		0
430	A Cavity-Enhanced Room-Temperature Broadband Raman Memory. , 2016, , .		0
431	Ultrahigh and persistent optical depths of alkali vapours for quantum memories in hollow-core photonic crystal fibers. , 2016, , .		0
432	Photonic Networked Quantum Information Technologies. , 2016, , .		0

#	Article	IF	Citations
433	Beyond the Fringe: Interferometry for Ultrafast Optics. , 2017, , .		0
434	A Noiseless Quantum Optical Memory at Room Temperature. , 2017, , .		0
435	Global estimation of phase using double homodyne detection and single photons. , 2017, , .		0
436	A monolithic, doubly-resonant parametric down-conversion source for Caesium Raman memories. , 2017, , .		0
437	Click-Counting Detection of Quantum Correlated Light. , 2017, , .		0
438	Quasi-phase-matched high harmonic generation in gas-filled photonic crystal fibers. , 2017, , .		0
439	Multiparticle distinguishability: three photons are different in four ways. , 2017, , .		0
440	Attosecond Sampling of Arbitrary Optical Waveforms. , 2017, , .		0
441	Temporal Amplitude & Phase: Algorithmic Reconstruction via Time-domain Interferometry (TeAPARTI). , 2017, , .		0
442	Interfering photons in orthogonal states. , 2018, , .		0
443	Single-photon-level interface for linking Sr+ transition at 422nm with the telecommunications C-band. , 2018, , .		0
444	Si3N4 Reconfigurable Linear Optical Network for Quantum Information Processing. , 2019, , .		0
445	Interference in multi-photon emission from photon pair sources with shaped spectral amplitudes. , 2019, , .		0
446	Optimal Coherent Filtering for Single Photons. , 2019, , .		0
447	Quasiprobability Representation for Quantum Correlations and Measurements. , 2019, , .		0
448	Quasiprobability Representation for Quantum Correlations and Measurements. , 2019, , .		0
449	Demonstration of an Atomic Frequency Comb Quantum Memory Using Velocity-Selective Pumping in Warm Alkali Vapour. , 2020, , .		0
450	High-Gain Twin-Beam Generation in Waveguides: Experimental Characterization Using Cascaded Stimulated Emission. , 2020, , .		0

#	Article	IF	Citations
451	Brillouin optomechanics: from strong coupling to single-phonon-level operations. , 2022, , .		0