

# Ian A Walmsley

## List of Publications by Citations

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332  
papers

15,411  
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67  
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113  
g-index

455  
ext. papers

18,359  
ext. citations

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6.57  
L-index

#	Paper	IF	Citations
332	Spectral phase interferometry for direct electric-field reconstruction of ultrashort optical pulses. <i>Optics Letters</i> , <b>1998</b> , 23, 792-4	3	878
331	Boson sampling on a photonic chip. <i>Science</i> , <b>2013</b> , 339, 798-801	33.3	526
330	Heralded generation of ultrafast single photons in pure quantum States. <i>Physical Review Letters</i> , <b>2008</b> , 100, 133601	7.4	387
329	Spectral information and distinguishability in type-II down-conversion with a broadband pump. <i>Physical Review A</i> , <b>1997</b> , 56, 1627-1634	2.6	345
328	Quantum memories. <i>European Physical Journal D</i> , <b>2010</b> , 58, 1-22	1.3	323
327	Optimal quantum phase estimation. <i>Physical Review Letters</i> , <b>2009</b> , 102, 040403	7.4	307
326	Continuous frequency entanglement: effective finite hilbert space and entropy control. <i>Physical Review Letters</i> , <b>2000</b> , 84, 5304-7	7.4	304
325	Eliminating frequency and space-time correlations in multiphoton states. <i>Physical Review A</i> , <b>2001</b> , 64,	2.6	286
324	Characterization of ultrashort electromagnetic pulses. <i>Advances in Optics and Photonics</i> , <b>2009</b> , 1, 308	16.7	275
323	Experimental determination of the quantum-mechanical state of a molecular vibrational mode using fluorescence tomography. <i>Physical Review Letters</i> , <b>1995</b> , 74, 884-887	7.4	266
322	Quantum Physics Under Control. <i>Physics Today</i> , <b>2003</b> , 56, 43-49	0.9	237
321	Entangling macroscopic diamonds at room temperature. <i>Science</i> , <b>2011</b> , 334, 1253-6	33.3	230
320	Towards high-speed optical quantum memories. <i>Nature Photonics</i> , <b>2010</b> , 4, 218-221	33.9	222
319	Fiber-assisted detection with photon number resolution. <i>Optics Letters</i> , <b>2003</b> , 28, 2387-9	3	200
318	Tomography of quantum detectors. <i>Nature Physics</i> , <b>2009</b> , 5, 27-30	16.2	197
317	Quantum enhanced multiple phase estimation. <i>Physical Review Letters</i> , <b>2013</b> , 111, 070403	7.4	189
316	The quantum technologies roadmap: a European community view. <i>New Journal of Physics</i> , <b>2018</b> , 20, 080201		188

315	Quantum phase estimation with lossy interferometers. <i>Physical Review A</i> , <b>2009</b> , 80,	2.6	182
314	Measurement of the intensity and phase of ultraweak, ultrashort laser pulses. <i>Optics Letters</i> , <b>1996</b> , 21, 884-6	3	178
313	Experimental quantum-enhanced estimation of a lossy phase shift. <i>Nature Photonics</i> , <b>2010</b> , 4, 357-360	33.9	170
312	Quantum path interferences in high-order harmonic generation. <i>Physical Review Letters</i> , <b>2008</b> , 100, 143902	7.4	148
311	Single-photon-level quantum memory at room temperature. <i>Physical Review Letters</i> , <b>2011</b> , 107, 053603	7.4	147
310	The role of dispersion in ultrafast optics. <i>Review of Scientific Instruments</i> , <b>2001</b> , 72, 1-29	1.7	143
309	Mapping broadband single-photon wave packets into an atomic memory. <i>Physical Review A</i> , <b>2007</b> , 75,	2.6	141
308	Characterization of sub-6-fs optical pulses with spectral phase interferometry for direct electric-field reconstruction. <i>Optics Letters</i> , <b>1999</b> , 24, 1314-6	3	137
307	Spatio-temporal focusing of an ultrafast pulse through a multiply scattering medium. <i>Nature Communications</i> , <b>2011</b> , 2, 447	17.4	135
306	Photon pair-state preparation with tailored spectral properties by spontaneous four-wave mixing in photonic-crystal fiber. <i>Optics Express</i> , <b>2007</b> , 15, 14870-86	3.3	132
305	Quantum theory of spatial and temporal coherence properties of stimulated Raman scattering. <i>Physical Review A</i> , <b>1985</b> , 32, 332-344	2.6	124
304	Tailored photon-pair generation in optical fibers. <i>Physical Review Letters</i> , <b>2009</b> , 102, 123603	7.4	119
303	Efficient conditional preparation of high-fidelity single photon states for fiber-optic quantum networks. <i>Physical Review Letters</i> , <b>2004</b> , 93, 093601	7.4	116
302	Fabrication of Ultrathin Single-Crystal Diamond Membranes. <i>Advanced Materials</i> , <b>2008</b> , 20, 4793-4798	24	112
301	Joint estimation of phase and phase diffusion for quantum metrology. <i>Nature Communications</i> , <b>2014</b> , 5, 3532	17.4	111
300	Experimental determination of the dynamics of a molecular nuclear wave packet via the spectra of spontaneous emission. <i>Physical Review Letters</i> , <b>1993</b> , 70, 3388-3391	7.4	111
299	Broadband single-photon-level memory in a hollow-core photonic crystal fibre. <i>Nature Photonics</i> , <b>2014</b> , 8, 287-291	33.9	110
298	Photon-number-resolving detection using time-multiplexing. <i>Journal of Modern Optics</i> , <b>2004</b> , 51, 1499-1515	15.15	109

297	Multimode memories in atomic ensembles. <i>Physical Review Letters</i> , <b>2008</b> , 101, 260502	7.4	108
296	Quantum teleportation on a photonic chip. <i>Nature Photonics</i> , <b>2014</b> , 8, 770-774	33.9	106
295	Multiphoton quantum interference in a multiport integrated photonic device. <i>Nature Communications</i> , <b>2013</b> , 4, 1356	17.4	106
294	Generation of correlated photons in controlled spatial modes by downconversion in nonlinear waveguides. <i>Optics Letters</i> , <b>2001</b> , 26, 1367-9	3	102
293	Large-alphabet time-frequency entangled quantum key distribution by means of time-to-frequency conversion. <i>Optics Express</i> , <b>2013</b> , 21, 15959-73	3.3	98
292	Photon pair generation in birefringent optical fibers. <i>Optics Express</i> , <b>2009</b> , 17, 23589-602	3.3	95
291	Precision metrology using weak measurements. <i>Physical Review Letters</i> , <b>2015</b> , 114, 210801	7.4	92
290	Conditional preparation of single photons using parametric downconversion: a recipe for purity. <i>New Journal of Physics</i> , <b>2008</b> , 10, 093011	2.9	88
289	Chronocyclic tomography for measuring the amplitude and phase structure of optical pulses. <i>Optics Letters</i> , <b>1993</b> , 18, 2041	3	88
288	High quantum-efficiency photon-number-resolving detector for photonic on-chip information processing. <i>Optics Express</i> , <b>2013</b> , 21, 22657-70	3.3	87
287	Coherent control of decoherence. <i>Science</i> , <b>2008</b> , 320, 638-43	33.3	87
286	Linear optical quantum computing in a single spatial mode. <i>Physical Review Letters</i> , <b>2013</b> , 111, 150501	7.4	86
285	On-chip low loss heralded source of pure single photons. <i>Optics Express</i> , <b>2013</b> , 21, 13522-32	3.3	86
284	Phase-controlled integrated photonic quantum circuits. <i>Optics Express</i> , <b>2009</b> , 17, 13516-25	3.3	86
283	Photon counting with a loop detector. <i>Optics Letters</i> , <b>2003</b> , 28, 52-4	3	85
282	Optimal control of quantum gates and suppression of decoherence in a system of interacting two-level particles. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , <b>2007</b> , 40, S103-S125	1.3	84
281	Interferometric technique for measuring broadband ultrashort pulses at the sampling limit. <i>Optics Letters</i> , <b>2005</b> , 30, 326-8	3	83
280	Optimal Measurements for Simultaneous Quantum Estimation of Multiple Phases. <i>Physical Review Letters</i> , <b>2017</b> , 119, 130504	7.4	82

279	Tradeoff in simultaneous quantum-limited phase and loss estimation in interferometry. <i>Physical Review A</i> , <b>2014</b> , 89,	2.6	82
278	Macroscopic non-classical states and terahertz quantum processing in room-temperature diamond. <i>Nature Photonics</i> , <b>2012</b> , 6, 41-44	33.9	82
277	Violation of Bell's inequality by a generalized einstein-podolsky-rosen state using homodyne detection. <i>Physical Review Letters</i> , <b>2000</b> , 85, 1349-53	7.4	82
276	Observation of Macroscopic Quantum Fluctuations in Stimulated Raman Scattering. <i>Physical Review Letters</i> , <b>1983</b> , 50, 962-965	7.4	80
275	Enhancing multiphoton rates with quantum memories. <i>Physical Review Letters</i> , <b>2013</b> , 110, 133601	7.4	76
274	Real-world quantum sensors: evaluating resources for precision measurement. <i>Physical Review Letters</i> , <b>2011</b> , 107, 113603	7.4	76
273	Simplified field wave equations for the nonlinear propagation of extremely short light pulses. <i>Physical Review A</i> , <b>2002</b> , 66,	2.6	76
272	Quantum metrology with imperfect states and detectors. <i>Physical Review A</i> , <b>2011</b> , 83,	2.6	75
271	Theory of quantum beats in optical transmission-correlation and pump-probe experiments for a general Raman configuration. <i>Physical Review A</i> , <b>1988</b> , 38, 4681-4689	2.6	75
270	Quantum optics: science and technology in a new light. <i>Science</i> , <b>2015</b> , 348, 525-30	33.3	74
269	Characterization of the electric field of ultrashort optical pulses. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>1996</b> , 13, 2453	1.7	71
268	Two-photon quantum walk in a multimode fiber. <i>Science Advances</i> , <b>2016</b> , 2, e1501054	14.3	70
267	Analysis of ultrashort pulse-shape measurement using linear interferometers. <i>Optics Letters</i> , <b>1994</b> , 19, 287	3	69
266	Distinguishability and Many-Particle Interference. <i>Physical Review Letters</i> , <b>2017</b> , 118, 153603	7.4	68
265	Sub-10 fs pulse characterization using spatially encoded arrangement for spectral phase interferometry for direct electric field reconstruction. <i>Optics Letters</i> , <b>2006</b> , 31, 1914-6	3	67
264	Spectral distinguishability in ultrafast parametric down-conversion. <i>Physical Review A</i> , <b>1998</b> , 57, R2289-R2292		66
263	Engineering the Indistinguishability and Entanglement of Two Photons. <i>Physical Review Letters</i> , <b>1999</b> , 83, 955-958	7.4	65
262	Coherent control of ultracold molecule dynamics in a magneto-optical trap by use of chirped femtosecond laser pulses. <i>Physical Review Letters</i> , <b>2006</b> , 96, 173002	7.4	62

261	On-chip, photon-number-resolving, telecommunication-band detectors for scalable photonic information processing. <i>Physical Review A</i> , <b>2011</b> , 84,	2.6	61
260	Measurement of group delay with high temporal and spectral resolution. <i>Optics Letters</i> , <b>1990</b> , 15, 492-4	3	61
259	High-performance single-photon generation with commercial-grade optical fiber. <i>Physical Review A</i> , <b>2011</b> , 83,	2.6	60
258	Direct, loss-tolerant characterization of nonclassical photon statistics. <i>Physical Review Letters</i> , <b>2006</b> , 97, 043602	7.4	60
257	Time-resolved luminescence from coherently excited molecules as a probe of molecular wave-packet dynamics. <i>Physical Review A</i> , <b>1990</b> , 42, 5622-5626	2.6	60
256	Mapping coherence in measurement via full quantum tomography of a hybrid optical detector. <i>Nature Photonics</i> , <b>2012</b> , 6, 364-368	33.9	59
255	Broadband astigmatism-free Czerny-Turner imaging spectrometer using spherical mirrors. <i>Applied Optics</i> , <b>2009</b> , 48, 3846-53	0.2	59
254	Chip-based array of near-identical, pure, heralded single-photon sources. <i>Optica</i> , <b>2017</b> , 4, 90	8.6	58
253	Ultrashort-pulse characterization from dynamic spectrograms by iterative phase retrieval. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>1997</b> , 14, 944	1.7	58
252	Secure quantum key distribution using continuous variables of single photons. <i>Physical Review Letters</i> , <b>2008</b> , 100, 110504	7.4	58
251	Photon number statistics of multimode parametric down-conversion. <i>Physical Review Letters</i> , <b>2008</b> , 101, 053601	7.4	57
250	Cavity-Enhanced Room-Temperature Broadband Raman Memory. <i>Physical Review Letters</i> , <b>2016</b> , 116, 090501	7.4	56
249	Generation of two-photon States with an arbitrary degree of entanglement via nonlinear crystal superlattices. <i>Physical Review Letters</i> , <b>2006</b> , 97, 223602	7.4	56
248	Multipulse addressing of a Raman quantum memory: configurable beam splitting and efficient readout. <i>Physical Review Letters</i> , <b>2012</b> , 108, 263602	7.4	55
247	Femtosecond to attosecond light pulses from a molecular modulator. <i>Nature Photonics</i> , <b>2011</b> , 5, 664-671	33.9	54
246	Measuring measurement: theory and practice. <i>New Journal of Physics</i> , <b>2009</b> , 11, 093038	2.9	54
245	Direct space time-characterization of the electric fields of ultrashort optical pulses. <i>Optics Letters</i> , <b>2002</b> , 27, 548-50	3	54
244	Multiphoton state engineering by heralded interference between single photons and coherent states. <i>Physical Review A</i> , <b>2012</b> , 86,	2.6	53

243	Invited review article: technology for attosecond science. <i>Review of Scientific Instruments</i> , <b>2012</b> , 83, 071101	10.1	52
242	Spatially resolved amplitude and phase characterization of femtosecond optical pulses. <i>Optics Letters</i> , <b>2001</b> , 26, 96-8	3	50
241	Applied physics. Toward quantum-information processing with photons. <i>Science</i> , <b>2005</b> , 307, 1733-4	33.3	48
240	Accuracy criterion for ultrashort pulse characterization techniques: application to spectral phase interferometry for direct electric field reconstruction. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2002</b> , 19, 1019	1.7	48
239	Temporal quantum fluctuations in stimulated Raman scattering: Coherent-modes description. <i>Physical Review Letters</i> , <b>1989</b> , 63, 1586-1589	7.4	48
238	Experimental determination of hot-carrier scattering processes in Al <sub>x</sub> Ga <sub>1-x</sub> As. <i>Applied Physics Letters</i> , <b>1987</b> , 51, 605-607	3.4	48
237	Interfacing GHz-bandwidth heralded single photons with a warm vapour Raman memory. <i>New Journal of Physics</i> , <b>2015</b> , 17, 043006	2.9	47
236	High-speed noise-free optical quantum memory. <i>Physical Review A</i> , <b>2018</b> , 97,	2.6	47
235	Self-referencing, spectrally, or spatially encoded spectral interferometry for the complete characterization of attosecond electromagnetic pulses. <i>Physical Review Letters</i> , <b>2005</b> , 94, 033905	7.4	47
234	Pure-state single-photon wave-packet generation by parametric down-conversion in a distributed microcavity. <i>Physical Review A</i> , <b>2005</b> , 72,	2.6	47
233	Quantum detector tomography of a time-multiplexed superconducting nanowire single-photon detector at telecom wavelengths. <i>Optics Express</i> , <b>2013</b> , 21, 893-902	3.3	46
232	Strategies for enhancing quantum entanglement by local photon subtraction. <i>Physical Review A</i> , <b>2013</b> , 87,	2.6	45
231	Direct observation of sub-binomial light. <i>Physical Review Letters</i> , <b>2013</b> , 110, 173602	7.4	45
230	Compact continuous-variable entanglement distillation. <i>Physical Review Letters</i> , <b>2012</b> , 108, 060502	7.4	44
229	Continuous-variable quantum computing in optical time-frequency modes using quantum memories. <i>Physical Review Letters</i> , <b>2014</b> , 113, 130502	7.4	42
228	Efficient spatially resolved multimode quantum memory. <i>Physical Review A</i> , <b>2008</b> , 78,	2.6	42
227	Real-time SPIDER: ultrashort pulse characterization at 20 Hz. <i>Optics Express</i> , <b>1999</b> , 5, 134-43	3.3	42
226	Direct measurement of the spatial Wigner function with area-integrated detection. <i>Optics Letters</i> , <b>2003</b> , 28, 1317-9	3	41

225	Restoring dispersion cancellation for entangled photons produced by ultrashort pulses. <i>Physical Review A</i> , <b>2000</b> , 62,	2.6	41
224	Linear filter analysis of methods for ultrashort-pulse-shape measurements. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>1995</b> , 12, 1491	1.7	39
223	Experimental study of the macroscopic quantum fluctuations of partially coherent stimulated Raman scattering. <i>Physical Review A</i> , <b>1986</b> , 33, 382-390	2.6	38
222	Experimental realization of maximum confidence quantum state discrimination for the extraction of quantum information. <i>Physical Review Letters</i> , <b>2006</b> , 97, 193601	7.4	37
221	Decoherence of molecular vibrational wave packets: Observable manifestations and control criteria. <i>Physical Review A</i> , <b>2001</b> , 63,	2.6	37
220	Efficient Classical Algorithm for Boson Sampling with Partially Distinguishable Photons. <i>Physical Review Letters</i> , <b>2018</b> , 120, 220502	7.4	37
219	Theoretical and experimental analysis of quantum path interferences in high-order harmonic generation. <i>Physical Review A</i> , <b>2009</b> , 80,	2.6	36
218	88 reconfigurable quantum photonic processor based on silicon nitride waveguides. <i>Optics Express</i> , <b>2019</b> , 27, 26842-26857	3.3	36
217	Tomography of photon-number resolving continuous-output detectors. <i>New Journal of Physics</i> , <b>2015</b> , 17, 103044	2.9	35
216	SPIDER: A decade of measuring ultrashort pulses. <i>Laser Physics Letters</i> , <b>2008</b> , 5, 259-266	1.5	35
215	Characterization of the nonclassical nature of conditionally prepared single photons. <i>Physical Review A</i> , <b>2005</b> , 72,	2.6	35
214	Homodyne detection in spectral phase interferometry for direct electric-field reconstruction. <i>Optics Letters</i> , <b>2001</b> , 26, 1510-2	3	35
213	Using an imperfect photonic network to implement random unitaries. <i>Optics Express</i> , <b>2017</b> , 25, 28236	3.3	34
212	Design of bright, fiber-coupled and fully factorable photon pair sources. <i>New Journal of Physics</i> , <b>2010</b> , 12, 093027	2.9	34
211	Absolute efficiency estimation of photon-number-resolving detectors using twin beams. <i>Optics Express</i> , <b>2009</b> , 17, 4397-411	3.3	33
210	Blind dispersion compensation for optical coherence tomography. <i>Optics Communications</i> , <b>2007</b> , 269, 152-155	2	32
209	Emission tomography for quantum state measurement in matter. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , <b>1998</b> , 31, 1825-1863	1.3	32
208	Directly comparing entanglement-enhancing non-Gaussian operations. <i>New Journal of Physics</i> , <b>2015</b> , 17, 023038	2.9	31



207	Modular linear optical circuits. <i>Optica</i> , <b>2018</b> , 5, 1087	8.6	31
206	High-fidelity polarization storage in a gigahertz bandwidth quantum memory. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , <b>2012</b> , 45, 124008	1.3	30
205	Quantum random bit generation using stimulated Raman scattering. <i>Optics Express</i> , <b>2011</b> , 19, 25173-80	3.3	30
204	Lateral shearing interferometry of high-harmonic wavefronts. <i>Optics Letters</i> , <b>2011</b> , 36, 1746-8	3	29
203	Improved ancilla preparation in spectral shearing interferometry for accurate ultrafast pulse characterization. <i>Optics Letters</i> , <b>2009</b> , 34, 881-3	3	29
202	Dynamics of photoinduced collisions of cold atoms probed with picosecond laser pulses. <i>Physical Review A</i> , <b>2001</b> , 64,	2.6	29
201	Optimal experiment design for quantum state tomography: Fair, precise, and minimal tomography. <i>Physical Review A</i> , <b>2010</b> , 81,	2.6	28
200	A characterization of the single-photon sensitivity of an electron multiplying charge-coupled device. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , <b>2009</b> , 42, 114011	1.3	28
199	Detecting quantum superpositions of classically distinguishable states of a molecule. <i>Physical Review A</i> , <b>1995</b> , 52, 681-685	2.6	28
198	Femtosecond carrier dynamics in low-temperature-grown indium phosphide. <i>Applied Physics Letters</i> , <b>1995</b> , 66, 1821-1823	3.4	28
197	Encoding a qubit into multilevel subspaces. <i>New Journal of Physics</i> , <b>2006</b> , 8, 35-35	2.9	27
196	Temporal modes in quantum optics: then and now. <i>Physica Scripta</i> , <b>2020</b> , 95, 064002	2.6	26
195	Observing optical coherence across Fock layers with weak-field homodyne detectors. <i>Nature Communications</i> , <b>2014</b> , 5, 5584	17.4	26
194	Simplified quantum process tomography. <i>New Journal of Physics</i> , <b>2009</b> , 11, 115010	2.9	26
193	High precision self-referenced phase retrieval of complex pulses with multiple-shearing spectral interferometry. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2009</b> , 26, 1818	1.7	26
192	Measuring phonon dephasing with ultrafast pulses using Raman spectral interference. <i>Physical Review B</i> , <b>2008</b> , 78,	3.3	26
191	Joint quantum measurement using unbalanced array detection. <i>Physical Review Letters</i> , <b>2001</b> , 87, 253601	7.4	26
190	The determination of electronic dephasing rates in time-resolved quantum-beat spectroscopy. <i>Journal of Chemical Physics</i> , <b>1990</b> , 92, 1568-1574	3.9	26

189	Attosecond sampling of arbitrary optical waveforms. <i>Optica</i> , <b>2016</b> , 3, 303	8.6	26
188	Approximating vibronic spectroscopy with imperfect quantum optics. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , <b>2018</b> , 51, 245503	1.3	26
187	Efficient optical pumping and high optical depth in a hollow-core photonic-crystal fibre for a broadband quantum memory. <i>New Journal of Physics</i> , <b>2013</b> , 15, 055013	2.9	25
186	A proposed testbed for detector tomography. <i>Journal of Modern Optics</i> , <b>2009</b> , 56, 432-441	1.1	25
185	Rotationally induced collapse and revivals of molecular vibrational wavepackets: model for environment-induced decoherence. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , <b>2002</b> , 35, 1967-1984	1.3	25
184	Simple linear technique for the measurement of space-time coupling in ultrashort optical pulses. <i>Optics Letters</i> , <b>2002</b> , 27, 1947-9	3	25
183	Recursive quantum detector tomography. <i>New Journal of Physics</i> , <b>2012</b> , 14, 115005	2.9	24
182	Pump-probe study of the formation of rubidium molecules by ultrafast photoassociation of ultracold atoms. <i>Physical Review A</i> , <b>2009</b> , 80,	2.6	23
181	Bridging particle and wave sensitivity in a configurable detector of positive operator-valued measures. <i>Physical Review Letters</i> , <b>2009</b> , 102, 080404	7.4	23
180	Interferometric technique for engineering indistinguishability and entanglement of photon pairs. <i>Physical Review A</i> , <b>2000</b> , 62,	2.6	23
179	Fidelity of optimally controlled quantum gates with randomly coupled multiparticle environments. <i>Journal of Modern Optics</i> , <b>2007</b> , 54, 2339-2349	1.1	22
178	Compact spectral shearing interferometer for ultrashort pulse characterization. <i>Optics Letters</i> , <b>2007</b> , 32, 181-3	3	22
177	Observation of Brillouin optomechanical strong coupling with an 11 GHz mechanical mode. <i>Optica</i> , <b>2019</b> , 6, 7	8.6	21
176	Analytic Solution for Strong-Field Quantum Control of Atomic Wave Packets. <i>Physical Review Letters</i> , <b>1998</b> , 81, 955-958	7.4	20
175	Linear pulse propagation in stationary and nonstationary multilevel media in the transient regime. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>1996</b> , 13, 601	1.7	20
174	Large scale quantum walks by means of optical fiber cavities. <i>Journal of Optics (United Kingdom)</i> , <b>2016</b> , 18, 094007	1.7	20
173	Space QUEST mission proposal: experimentally testing decoherence due to gravity. <i>New Journal of Physics</i> , <b>2018</b> , 20, 063016	2.9	20
172	Quasiprobability representation of quantum coherence. <i>Physical Review A</i> , <b>2018</b> , 97,	2.6	19

171	Theory of noise suppression in E-type quantum memories by means of a cavity. <i>Physical Review A</i> , <b>2017</b> , 96,	2.6	19
170	Detector-Independent Verification of Quantum Light. <i>Physical Review Letters</i> , <b>2017</b> , 118, 163602	7.4	19
169	Resolution of the relative phase ambiguity in spectral shearing interferometry of ultrashort pulses. <i>Optics Letters</i> , <b>2010</b> , 35, 1971-3	3	19
168	Suppression of decoherence in a wave packet via nonlinear resonance. <i>Physical Review Letters</i> , <b>2007</b> , 98, 050501	7.4	19
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