

Jonathan P Dowling

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

180
papers

11,156
citations

46
h-index

103
g-index

219
ext. papers

13,036
ext. citations

4.1
avg, IF

6.38
L-index

#	Paper	IF	Citations
180	Emulating Quantum Teleportation of a Majorana Zero Mode Qubit. <i>Physical Review Letters</i> , 2021 , 126, 090502	7.4	5
179	Error suppression in adiabatic quantum computing with qubit ensembles. <i>Npj Quantum Information</i> , 2021 , 7,	8.6	2
178	Quantum gates for Majoranas zero modes in topological superconductors in one-dimensional geometry. <i>Physical Review B</i> , 2021 , 103,	3.3	1
177	Spooky action at a global distance: analysis of space-based entanglement distribution for the quantum internet. <i>Npj Quantum Information</i> , 2021 , 7,	8.6	11
176	Efficient Simulation of Loop Quantum Gravity: A Scalable Linear-Optical Approach. <i>Physical Review Letters</i> , 2021 , 126, 020501	7.4	3
175	Entanglement-based quantum clock synchronization 2020 ,		1
174	Optimized Multilayer Structures With Ultrabroadband Near-Perfect Absorption. <i>IEEE Photonics Journal</i> , 2020 , 12, 1-10	1.8	4
173	Deterministic generation of hybrid high-N NOON states with Rydberg atoms trapped in microwave cavities. <i>Physical Review A</i> , 2020 , 101,	2.6	4
172	Towards classification of experimental Laguerre-Gaussian modes using convolutional neural networks. <i>Optical Engineering</i> , 2020 , 59, 1	1.1	7
171	Relativity of quantum states in entanglement swapping. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2020 , 384, 126301	2.3	1
170	Relativistic corrections to photonic entangled states for the space-based quantum network. <i>Physical Review A</i> , 2020 , 101,	2.6	1
169	Finding broken gates in quantum circuits: exploiting hybrid machine learning. <i>Quantum Information Processing</i> , 2020 , 19, 1	1.6	1
168	Quantum-Limited Squeezed Light Detection with a Camera. <i>Physical Review Letters</i> , 2020 , 125, 113602	7.4	2
167	Quantum teleportation of photonic qudits using linear optics. <i>Physical Review A</i> , 2019 , 100,	2.6	9
166	Entanglement-enhanced optical gyroscope. <i>New Journal of Physics</i> , 2019 , 21, 053010	2.9	16
165	Conclusive precision bounds for SU(1,1) interferometers. <i>Physical Review A</i> , 2019 , 99,	2.6	16
164	Experimental Gaussian Boson sampling. <i>Science Bulletin</i> , 2019 , 64, 511-515	10.6	30

163	Practical figures of merit and thresholds for entanglement distribution in quantum networks. <i>Physical Review Research</i> , 2019 , 1,	3.9	34
162	Optical angular momentum manipulations in a four-wave mixing process. <i>Optics Letters</i> , 2019 , 44, 739-742		13
161	Demonstration of topologically path-independent anyonic braiding in a nine-qubit planar code. <i>Optica</i> , 2019 , 6, 264	8.6	9
160	Thresholded Quantum LIDAR: Exploiting Photon-Number-Resolving Detection. <i>Physical Review Letters</i> , 2019 , 123, 203601	7.4	19
159	Robust quantum network architectures and topologies for entanglement distribution. <i>Physical Review A</i> , 2018 , 97,	2.6	19
158	Orbital-angular-momentum-enhanced estimation of sub-Heisenberg-limited angular displacement with two-mode squeezed vacuum and parity detection. <i>Optics Express</i> , 2018 , 26, 16524-16534	3.3	8
157	Absolute calibration of single-photon and multiplexed photon-number-resolving detectors. <i>Physical Review A</i> , 2018 , 98,	2.6	12
156	Sub-shot-noise-limited phase estimation via SU(1,1) interferometer with thermal states. <i>Optics Express</i> , 2018 , 26, 18492-18504	3.3	13
155	Direct characterization of linear and quadratically nonlinear optical systems. <i>Physical Review A</i> , 2018 , 98,	2.6	2
154	Limits to atom-vapor-based room-temperature photon-number-resolving detection. <i>Physical Review A</i> , 2018 , 98,	2.6	1
153	Quantized nonlinear Gaussian-beam dynamics: Tailoring multimode squeezed-light generation. <i>Physical Review A</i> , 2018 , 98,	2.6	1
152	Remote quantum clock synchronization without synchronized clocks. <i>Npj Quantum Information</i> , 2018 , 4,	8.6	18
151	Phase estimation in an SU(1,1) interferometer with displaced squeezed states. <i>OSA Continuum</i> , 2018 , 1, 438	1.4	8
150	Nearly optimal measurement schemes in a noisy Mach-Zehnder interferometer with coherent and squeezed vacuum. <i>EPJ Quantum Technology</i> , 2017 , 4,	6.9	21
149	Linear optical quantum metrology with single photons: Experimental errors, resource counting, and quantum Cramér-Rao bounds. <i>Physical Review A</i> , 2017 , 96,	2.6	18
148	Multiphoton Interference in Quantum Fourier Transform Circuits and Applications to Quantum Metrology. <i>Physical Review Letters</i> , 2017 , 119, 080502	7.4	39
147	Multipass configuration for improved squeezed vacuum generation in hot Rb vapor. <i>Physical Review A</i> , 2017 , 96,	2.6	4
146	Optimized aperiodic broadband visible absorbers. <i>Journal of Optics (United Kingdom)</i> , 2017 , 19, 105003	1.7	10

145	Gaussian-beam-propagation theory for nonlinear optics involving an analytical treatment of orbital-angular-momentum transfer. <i>Physical Review A</i> , 2017 , 96,	2.6	25
144	Modeling the atomtronic analog of an optical polarizing beam splitter, a half-wave plate, and a quarter-wave plate for phonons of the motional state of two trapped atoms. <i>Physical Review A</i> , 2017 , 96,	2.6	1
143	Why a hole is like a beam splitter: A general diffraction theory for multimode quantum states of light. <i>Physical Review A</i> , 2017 , 96,	2.6	5
142	Room-temperature photon-number-resolved detection using a two-mode squeezer. <i>Physical Review A</i> , 2017 , 96,	2.6	3
141	Fundamental precision limit of a Mach-Zehnder interferometric sensor when one of the inputs is the vacuum. <i>Physical Review A</i> , 2017 , 96,	2.6	34
140	Multiparameter estimation with single photons—nearly-optimally generated quantum entanglement beats the shotnoise limit. <i>Journal of Optics (United Kingdom)</i> , 2017 , 19, 124002	1.7	15
139	Adaptive phase estimation with two-mode squeezed vacuum and parity measurement. <i>Physical Review A</i> , 2017 , 95,	2.6	20
138	Optimal digital dynamical decoupling for general decoherence via Walsh modulation. <i>Quantum Information Processing</i> , 2017 , 16, 1	1.6	3
137	Optimized mid-infrared thermal emitters for applications in aircraft countermeasures. <i>AIP Advances</i> , 2017 , 7, 125112	1.5	13
136	Spatial multimode structure of atom-generated squeezed light. <i>Physical Review A</i> , 2016 , 93,	2.6	10
135	Quantum phase representation of Heisenberg limits and a minimally resourced quantum phase estimator. <i>Physical Review A</i> , 2016 , 93,	2.6	1
134	Sagnac interferometry with coherent vortex superposition states in exciton-polariton condensates. <i>Physical Review A</i> , 2016 , 93,	2.6	18
133	Quantum-enhanced spectroscopy with entangled multiphoton states. <i>Physical Review A</i> , 2016 , 93,	2.6	10
132	On the connection between quantum nonlocality and phase sensitivity of two-mode entangled Fock state superpositions. <i>Quantum Information Processing</i> , 2016 , 15, 1025-1042	1.6	0
131	Efficient recycling strategies for preparing large Fock states from single-photon sources: Applications to quantum metrology. <i>Physical Review A</i> , 2016 , 94,	2.6	15
130	Phase sensitivity at the Heisenberg limit in an $SU(1,1)$ interferometer via parity detection. <i>Physical Review A</i> , 2016 , 94,	2.6	48
129	Boson sampling with displaced single-photon Fock states versus single-photon-added coherent states: The quantum-classical divide and computational-complexity transitions in linear optics. <i>Physical Review A</i> , 2015 , 91,	2.6	25
128	Sampling arbitrary photon-added or photon-subtracted squeezed states is in the same complexity class as boson sampling. <i>Physical Review A</i> , 2015 , 91,	2.6	33

127	Preserving photon qubits in an unknown quantum state with Knill dynamical decoupling: Towards an all optical quantum memory. <i>Physical Review A</i> , 2015 , 91,	2.6	3
126	Linear optical quantum metrology with single photons: exploiting spontaneously generated entanglement to beat the shot-noise limit. <i>Physical Review Letters</i> , 2015 , 114, 170802	7.4	69
125	Non-Gaussian entangled states and quantum teleportation of Schrödinger-cat states. <i>Physica Scripta</i> , 2015 , 90, 074029	2.6	24
124	QUANTUM OPTICS. The on-ramp to the all-optical quantum information processing highway. <i>Science</i> , 2015 , 349, 696	33.3	4
123	Reducing the number of ancilla qubits and the gate count required for creating large controlled operations. <i>Quantum Information Processing</i> , 2015 , 14, 891-899	1.6	1
122	Implementing BosonSampling with time-bin encoding: Analysis of loss, mode mismatch, and time jitter. <i>Physical Review A</i> , 2015 , 92,	2.6	12
121	Quantum Hall effect with small numbers of vortices in Bose-Einstein condensates. <i>Physical Review A</i> , 2015 , 92,	2.6	5
120	An Introduction to Boson-Sampling 2015 , 167-192		12
119	Quantum Optical Technologies for Metrology, Sensing, and Imaging. <i>Journal of Lightwave Technology</i> , 2015 , 33, 2359-2370	4	67
118	Evidence for the conjecture that sampling generalized cat states with linear optics is hard. <i>Physical Review A</i> , 2015 , 91,	2.6	19
117	Optimized aperiodic highly directional narrowband infrared emitters. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2014 , 31, 1316	1.7	17
116	Super-resolving single-photon number-path-entangled state and its generation. <i>Physical Review A</i> , 2014 , 89,	2.6	1
115	On the uncertainty of the ordering of nonlocal wavefunction collapse when relativity is considered. <i>Quantum Studies: Mathematics and Foundations</i> , 2014 , 1, 57-64	0.6	1
114	Inefficiency of classically simulating linear optical quantum computing with Fock-state inputs. <i>Physical Review A</i> , 2014 , 89,	2.6	15
113	Scalable boson sampling with time-bin encoding using a loop-based architecture. <i>Physical Review Letters</i> , 2014 , 113, 120501	7.4	77
112	Optimized aperiodic multilayer structures for use as narrow-angular absorbers. <i>Journal of Applied Physics</i> , 2014 , 116, 243101	2.5	20
111	Quantum information transmission. <i>Quantum Information Processing</i> , 2013 , 12, 899-906	1.6	12
110	Phase estimation at the quantum CramÉ-Rao bound via parity detection. <i>Physical Review A</i> , 2013 , 87,	2.6	51

109	Quantum random walks with multiphoton interference and high-order correlation functions. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2013 , 30, 1538	1.7	8
108	Super-resolving quantum radar: Coherent-state sources with homodyne detection suffice to beat the diffraction limit. <i>Journal of Applied Physics</i> , 2013 , 114, 193102	2.5	31
107	Effects of phase fluctuations on phase sensitivity and visibility of path-entangled photon Fock states. <i>Physical Review A</i> , 2013 , 88,	2.6	19
106	Spontaneous parametric down-conversion photon sources are scalable in the asymptotic limit for boson sampling. <i>Physical Review A</i> , 2013 , 88,	2.6	27
105	Dynamical decoupling with tailored wave plates for long-distance communication using polarization qubits. <i>Physical Review A</i> , 2013 , 88,	2.6	1
104	Quantum lithography: status of the field. <i>Quantum Information Processing</i> , 2012 , 11, 891-901	1.6	26
103	Single and biphoton imaging and high dimensional quantum communication. <i>Quantum Information Processing</i> , 2012 , 11, 925-948	1.6	0
102	Ultra-stable matter-wave gyrosocopy with counter-rotating vortex superpositions in Bose-Einstein condensates. <i>Journal of Modern Optics</i> , 2012 , 59, 1180-1185	1.1	12
101	POPPERS' THOUGHT EXPERIMENT REINVESTIGATED. <i>International Journal of Quantum Information</i> , 2012 , 10, 1250033	0.8	4
100	Quantum-enhanced magnetometer with low-frequency squeezing. <i>Physical Review A</i> , 2012 , 86,	2.6	46
99	Strategies for choosing path-entangled number states for optimal robust quantum-optical metrology in the presence of loss. <i>Physical Review A</i> , 2012 , 86,	2.6	21
98	Dynamical decoupling in optical fibers: Preserving polarization qubits from birefringent dephasing. <i>Physical Review A</i> , 2012 , 85,	2.6	7
97	Phase-controlled entanglement in a quantum-beat laser: application to quantum lithography. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2011 , 44, 225504	1.3	10
96	Quantum Sensors, Computing, Metrology, and Imaging 2011 ,		1
95	Parity detection achieves the Heisenberg limit in interferometry with coherent mixed with squeezed vacuum light. <i>New Journal of Physics</i> , 2011 , 13, 083026	2.9	55
94	Coherent-light-boosted, sub-shot noise, quantum interferometry. <i>New Journal of Physics</i> , 2010 , 12, 083014	2.4	87
93	Parity detection in quantum optical metrology without number-resolving detectors. <i>New Journal of Physics</i> , 2010 , 12, 113025	2.9	53
92	An invisible quantum tripwire. <i>New Journal of Physics</i> , 2010 , 12, 083012	2.9	4

91	Quantum metrology with two-mode squeezed vacuum: parity detection beats the Heisenberg limit. <i>Physical Review Letters</i> , 2010 , 104, 103602	7.4	231
90	Super-resolution at the shot-noise limit with coherent states and photon-number-resolving detectors. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2010 , 27, A170	1.7	45
89	Resolution and sensitivity of a Fabry-Perot interferometer with a photon-number-resolving detector. <i>Physical Review A</i> , 2009 , 80,	2.6	30
88	Maximal success probabilities of linear-optical quantum gates. <i>Physical Review A</i> , 2009 , 79,	2.6	29
87	Optimizing the multiphoton absorption properties of maximally path-entangled number states. <i>Physical Review A</i> , 2009 , 80,	2.6	4
86	An optical parametric oscillator as a high-flux source of two-mode light for quantum lithography. <i>New Journal of Physics</i> , 2009 , 11, 113055	2.9	4
85	Optimization of quantum interferometric metrological sensors in the presence of photon loss. <i>Physical Review A</i> , 2009 , 80,	2.6	58
84	Quantum optical metrology II the lowdown on high-N00N states. <i>Contemporary Physics</i> , 2008 , 49, 125-143,3	3.3	472
83	Entanglement-seeded, dual, optical parametric amplification: Applications to quantum imaging and metrology. <i>Physical Review A</i> , 2008 , 78,	2.6	25
82	Arbitrary coherent superpositions of quantized vortices in Bose-Einstein condensates via orbital angular momentum of light. <i>Physical Review A</i> , 2008 , 77,	2.6	35
81	Experimental sub-Rayleigh resolution by an unseeded high-gain optical parametric amplifier for quantum lithography. <i>Physical Review A</i> , 2008 , 77,	2.6	25
80	Entangled Fock states for robust quantum optical metrology, imaging, and sensing. <i>Physical Review A</i> , 2008 , 78,	2.6	158
79	Generating entangled photons from the vacuum by accelerated measurements: Quantum-information theory and the Unruh-Davies effect. <i>Physical Review A</i> , 2008 , 78,	2.6	16
78	Thermal radiation in photonic crystals. <i>Physical Review B</i> , 2007 , 75,	3.3	36
77	Improving solar cell efficiency using photonic band-gap materials. <i>Solar Energy Materials and Solar Cells</i> , 2007 , 91, 1599-1610	6.4	75
76	Linear optical quantum computing with photonic qubits. <i>Reviews of Modern Physics</i> , 2007 , 79, 135-174	40.5	1596
75	Engineering Quantum States of Light on Demand via Projective Measurements 2007 , JTUB3		
74	Strong violations of Bell-type inequalities for path-entangled number states. <i>Physical Review A</i> , 2007 , 76,	2.6	37

73	General linear-optical quantum state generation scheme: Applications to maximally path-entangled states. <i>Physical Review A</i> , 2007 , 76,	2.6	25
72	Local and global distinguishability in quantum interferometry. <i>Physical Review Letters</i> , 2007 , 99, 070801	7.4	63
71	Efficient generation of large number-path entanglement using only linear optics and feed-forward. <i>Physical Review Letters</i> , 2007 , 99, 163604	7.4	63
70	Bootstrapping approach for generating maximally path-entangled photon states. <i>Physical Review Letters</i> , 2007 , 99, 053602	7.4	37
69	ALTERNATE SCHEME FOR OPTICAL CLUSTER-STATE GENERATION WITHOUT NUMBER-RESOLVING PHOTON DETECTORS. <i>International Journal of Quantum Information</i> , 2007 , 05, 617-626	0.8	0
68	Quantum interferometric sensors 2007 ,		5
67	Quantum states of light produced by a high-gain optical parametric amplifier for use in quantum lithography. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2007 , 24, 270	1.7	15
66	High-fidelity linear optical quantum computing with polarization encoding. <i>Physical Review A</i> , 2006 , 73,	2.6	14
65	Heisenberg-limited measurements with superconducting circuits. <i>Physical Review A</i> , 2006 , 73,	2.6	2
64	Nonlinear tuning of 3D photonic band-gap structures for single-photon on demand sources. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2006 , 32, 484-487	3	2
63	Quantum lithography: A non-computing application of quantum information. <i>Computer Science - Research and Development</i> , 2006 , 21, 73-82		7
62	Exploiting the Quantum Zeno effect to beat photon loss in linear optical quantum information processors. <i>Optics Communications</i> , 2005 , 254, 374-379	2	7
61	Vortex phase qubit: generating arbitrary, counterrotating, coherent superpositions in Bose-Einstein condensates via optical angular momentum beams. <i>Physical Review Letters</i> , 2005 , 95, 173601	7.4	106
60	From linear optical quantum computing to Heisenberg-limited interferometry. <i>Journal of Optics B: Quantum and Semiclassical Optics</i> , 2004 , 6, S796-S800		5
59	Quantum lithography, entanglement and Heisenberg-limited parameter estimation. <i>Journal of Optics B: Quantum and Semiclassical Optics</i> , 2004 , 6, S811-S815		52
58	Towards photostatistics from photon-number discriminating detectors. <i>Journal of Modern Optics</i> , 2004 , 51, 1517-1528	1.1	27
57	Towards photostatistics from photon-number discriminating detectors 2004 ,		4
56	Quantum technology: the second quantum revolution. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2003 , 361, 1655-74	3	332

55	Suitability versus fidelity for rating single-photon guns. <i>Physical Review A</i> , 2003 , 67,	2.6	6
54	Construction of a quantum repeater with linear optics. <i>Physical Review A</i> , 2003 , 68,	2.6	36
53	Conditional linear-optical measurement schemes generate effective photon nonlinearities. <i>Physical Review A</i> , 2003 , 68,	2.6	24
52	All linear optical quantum memory based on quantum error correction. <i>Physical Review Letters</i> , 2003 , 91, 217901	7.4	38
51	Lorentz-invariant look at quantum clock-synchronization protocols based on distributed entanglement. <i>Physical Review A</i> , 2002 , 65,	2.6	34
50	Creation of large-photon-number path entanglement conditioned on photodetection. <i>Physical Review A</i> , 2002 , 65,	2.6	200
49	Linear optics and projective measurements alone suffice to create large-photon-number path entanglement. <i>Physical Review A</i> , 2002 , 65,	2.6	97
48	A quantum Rosetta stone for interferometry. <i>Journal of Modern Optics</i> , 2002 , 49, 2325-2338	1.1	306
47	Two-photon processes in faint biphoton fields. <i>Journal of Modern Optics</i> , 2002 , 49, 2349-2364	1.1	5
46	Single-photon quantum-nondemolition detectors constructed with linear optics and projective measurements. <i>Physical Review A</i> , 2002 , 66,	2.6	141
45	Quantum Lithography 2002 , 391-397		
44	Quantum-interferometric optical lithography: Towards arbitrary two-dimensional patterns. <i>Physical Review A</i> , 2001 , 63,	2.6	88
43	Quantum clock synchronization based on shared prior entanglement. <i>Physical Review Letters</i> , 2000 , 85, 2010-3	7.4	208
42	Quantum interferometric optical lithography: exploiting entanglement to beat the diffraction limit. <i>Physical Review Letters</i> , 2000 , 85, 2733-6	7.4	1010
41	Modification of Planck blackbody radiation by photonic band-gap structures. <i>Physical Review A</i> , 1999 , 59, 4736-4746	2.6	126
40	Correlated input-port, matter-wave interferometer: Quantum-noise limits to the atom-laser gyroscope. <i>Physical Review A</i> , 1998 , 57, 4736-4746	2.6	220
39	Spontaneous emission and nonlinear effects in photonic bandgap materials. <i>Journal of Optics</i> , 1998 , 7, 393-407		38
38	The Classical Lamb Shift: Why Jackson Is Wrong!. <i>NATO ASI Series Series B: Physics</i> , 1997 , 307-312		

37	Measurement of spontaneous-emission enhancement near the one-dimensional photonic band edge of semiconductor heterostructures. <i>Physical Review A</i> , 1996 , 53, 2799-2803	2.6	118
36	Analytic expressions for the electromagnetic mode density in finite, one-dimensional, photonic band-gap structures. <i>Physical Review E</i> , 1996 , 53, 4107-4121	2.4	416
35	Evanescent Light-Wave Atom Mirrors, Resonators, Waveguides, and Traps. <i>Advances in Atomic, Molecular and Optical Physics</i> , 1996 , 1-94	1.7	125
34	Factoring integers with Young's N-slit interferometer. <i>Physical Review A</i> , 1996 , 53, 4587-4590	2.6	50
33	Spontaneous Emission and Nonlinear Effects in Photonic Band Gap Materials 1996 , 237-248		
32	Local Field Effects in Nonlinear and Quantum Optics 1996 , 271-280		
31	Schrödinger modal structure of cubical, pyramidal, and conical, evanescent light-wave gravitational atom traps. <i>Physical Review A</i> , 1995 , 52, 3997-4003	2.6	10
30	Pulse propagation near highly reflective surfaces: Applications to photonic band-gap structures and the question of superluminal tunneling times. <i>Physical Review A</i> , 1995 , 52, 726-734	2.6	25
29	Thin-film nonlinear optical diode. <i>Applied Physics Letters</i> , 1995 , 66, 2324-2326	3.4	236
28	Piezophotonic switching due to local field effects in a coherently prepared medium of three-level atoms. <i>Physical Review Letters</i> , 1994 , 73, 1789-1792	7.4	52
27	Wigner distribution of a general angular-momentum state: Applications to a collection of two-level atoms. <i>Physical Review A</i> , 1994 , 49, 4101-4109	2.6	173
26	Anomalous Index of Refraction in Photonic Bandgap Materials. <i>Journal of Modern Optics</i> , 1994 , 41, 345-351		130
25	Photonic Band Calculations for Woodpile Structures. <i>Journal of Modern Optics</i> , 1994 , 41, 231-239	1.1	166
24	The photonic band edge laser: A new approach to gain enhancement. <i>Journal of Applied Physics</i> , 1994 , 75, 1896-1899	2.5	512
23	The photonic band edge optical diode. <i>Journal of Applied Physics</i> , 1994 , 76, 2023-2026	2.5	225
22	Optical limiting and switching of ultrashort pulses in nonlinear photonic band gap materials. <i>Physical Review Letters</i> , 1994 , 73, 1368-1371	7.4	467
21	Quantum-noise limits to matter-wave interferometry. <i>Physical Review A</i> , 1993 , 48, 3186-3190	2.6	62
20	Dipole radiators in a cavity: A radio frequency analog for the modification of atomic spontaneous emission rates between mirrors. <i>American Journal of Physics</i> , 1993 , 61, 545-550	0.7	14

19	Near-dipole-dipole effects in dense media: Generalized Maxwell-Bloch equations. <i>Physical Review A</i> , 1993 , 47, 1247-1251	2.6	154
18	Near dipole-dipole effects in lasing without inversion: An enhancement of gain and absorptionless index of refraction. <i>Physical Review Letters</i> , 1993 , 70, 1421-1424	7.4	96
17	Spontaneous emission in cavities: How much more classical can you get?. <i>Foundations of Physics</i> , 1993 , 23, 895-905	1.2	36
16	Beat radiation from dipoles near a photonic band edge. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1993 , 10, 353	1.7	17
15	Band structure for neutral magnetic dipoles in a periodic magnetic field: A simple spin polarizer. <i>Physical Review Letters</i> , 1992 , 68, 3571-3574	7.4	12
14	Coulomb scattering near mirrors: Quantum corrections to the Rutherford formula. <i>Physical Review A</i> , 1992 , 45, 3121-3125	2.6	1
13	Sonic band structure in fluids with periodic density variations. <i>Journal of the Acoustical Society of America</i> , 1992 , 91, 2539-2543	2.2	59
12	The specular reflection of light off light. <i>American Journal of Physics</i> , 1992 , 60, 28-34	0.7	1
11	Atomic emission rates in inhomogeneous media with applications to photonic band structures. <i>Physical Review A</i> , 1992 , 46, 612-622	2.6	138
10	Cavity QED and Classical Antenna Theory. <i>NATO ASI Series Series B: Physics</i> , 1992 , 165-172		
9	Radiation pattern of a classical dipole in a cavity. <i>Optics Communications</i> , 1991 , 82, 415-419	2	52
8	Exponential decrease in phase uncertainty. <i>Physical Review A</i> , 1991 , 44, 3365-3368	2.6	27
7	A quantum state of ultra-low phase noise. <i>Optics Communications</i> , 1991 , 86, 119-122	2	12
6	Self-field quantum electrodynamics: The two-level atom. <i>Physical Review A</i> , 1990 , 41, 2284-2294	2.6	26
5	Quantum electrodynamics based on self-fields: On the origin of thermal radiation detected by an accelerating observer. <i>Physical Review A</i> , 1990 , 41, 2277-2283	2.6	14
4	Quantum electrodynamics based on self-fields, without second quantization: Apparatus dependent contributions to $g-2$. <i>Physical Review A</i> , 1989 , 39, 2796-2805	2.6	8
3	QED Based on Self-Fields: A Relativistic Calculation of $g-2$. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 1989 , 44, 1051-1056	1.4	12
2	Quantum electrodynamics based on self-fields, without second quantization: A nonrelativistic calculation of $g-2$. <i>Physical Review A</i> , 1988 , 38, 4405-4412	2.6	15

1 Photonic quantum data locking. *Quantum - the Open Journal for Quantum Science*,5, 447

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