Jonathan P Dowling

List of Publications by Year
in descending order

216 papers	14,441 citations	38660 50 h-index	19690 117 g-index
219 all docs	219 docs citations	219 times ranked	7904 citing authors

#	Article	IF	Citations
1	Spooky action at a global distance: analysis of space-based entanglement distribution for the quantum internet. Npj Quantum Information, 2021, 7, .	2.8	34
2	Emulating Quantum Teleportation of a Majorana Zero Mode Qubit. Physical Review Letters, 2021, 126, 090502.	2.9	30
3	Error suppression in adiabatic quantum computing with qubit ensembles. Npj Quantum Information, 2021, 7, .	2.8	10
4	Quantum gates for Majoranas zero modes in topological superconductors in one-dimensional geometry. Physical Review B, 2021, 103, .	1.1	4
5	Efficient Simulation of Loop Quantum Gravity: A Scalable Linear-Optical Approach. Physical Review Letters, 2021, 126, 020501.	2.9	9
6	Finding broken gates in quantum circuits: exploiting hybrid machine learning. Quantum Information Processing, 2020, 19, 1.	1.0	8
7	Quantum-Limited Squeezed Light Detection with a Camera. Physical Review Letters, 2020, 125, 113602.	2.9	8
8	Enhanced phase estimation with coherently boosted two-mode squeezed beams and its application to optical gyroscopes. Physical Review A, 2020, 102, .	1.0	2
9	Entanglement-based quantum clock synchronization. AIP Conference Proceedings, 2020, , .	0.3	2
10	Optimized Multilayer Structures With Ultrabroadband Near-Perfect Absorption. IEEE Photonics Journal, 2020, 12, 1-10.	1.0	5
11	Deterministic generation of hybrid high- <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>N</mml:mi></mml:math> NOON states with Rydberg atoms trapped in microwave cavities. Physical Review A, 2020, 101, .	1.0	7
12	Relativistic corrections to photonic entangled states for the space-based quantum network. Physical Review A, 2020, 101, .	1.0	3
13	Towards classification of experimental Laguerreâ€“Gaussian modes using convolutional neural networks. Optical Engineering, 2020, 59, 1.	0.5	12
14	Enhanced Hanbury Brown and Twiss interferometry using parametric amplification. EPJ Quantum Technology, 2020, 7, .	2.9	1
15	Optomechanical entanglement at room temperature: A simulation study with realistic conditions. Physical Review A, 2020, 102, .	1.0	5
16	Optical Gyroscope with Coherent-Boosted Two-Mode Squeezed Beams. , 2020, , .		0
17	Quantum Enhancement of Optical Measurements using Four-wave Mixing in Rb vapor. , 2020, , .		0
18	Relativity of quantum states in entanglement swapping. Physics Letters, Section A: General, Atomic and Solid State Physics, 2020, 384, 126301.	0.9	3

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19	Quantum teleportation of photonic qudits using linear optics. Physical Review A, 2019, 100, .	1.0	16
20	Entanglement-enhanced optical gyroscope. New Journal of Physics, 2019, 21, 053010.	1.2	39
21	Conclusive precision bounds for SU(1,1) interferometers. Physical Review A, 2019, 99, .	1.0	27
22	Experimental Gaussian Boson sampling. Science Bulletin, 2019, 64, 511-515.	4.3	51
23	Thresholded Quantum LIDAR: Exploiting Photon-Number-Resolving Detection. Physical Review Letters, 2019, 123, 203601.	2.9	32
24	Practical figures of merit and thresholds for entanglement distribution in quantum networks. Physical Review Research, 2019, 1, .	1.3	56
25	Optical angular momentum manipulations in a four-wave mixing process. Optics Letters, 2019, 44, 739.	1.7	20
26	Demonstration of topologically path-independent anyonic braiding in a nine-qubit planar code. Optica, 2019, 6, 264.	4.8	18
27	Robust quantum network architectures and topologies for entanglement distribution. Physical Review A, 2018, 97, .	1.0	40
28	Direct characterization of linear and quadratically nonlinear optical systems. Physical Review A, 2018, 98, .	1.0	6
29	Limits to atom-vapor-based room-temperature photon-number-resolving detection. Physical Review A, 2018, 98, .	1.0	2
30	Quantized nonlinear Gaussian-beam dynamics: Tailoring multimode squeezed-light generation. Physical Review A, 2018, 98, .	1.0	5
31	Remote quantum clock synchronization without synchronized clocks. Npj Quantum Information, 2018, 4, .	2.8	41
32	Phase estimation in an SU(1,1) interferometer with displaced squeezed states. OSA Continuum, 2018, 1, 438.	1.8	18
33	Orbital-angular-momentum-enhanced estimation of sub-Heisenberg-limited angular displacement with two-mode squeezed vacuum and parity detection. Optics Express, 2018, 26, 16524.	1.7	10
34	Absolute calibration of single-photon and multiplexed photon-number-resolving detectors. Physical Review A, 2018, 98, .	1.0	20
35	Sub-shot-noise-limited phase estimation via SU(1,1) interferometer with thermal states. Optics Express, 2018, 26, 18492.	1.7	20
36	Room-Temperature Photon-Number-Resolved Detection Using A Two-Mode Squeezer. , 2018, , .		0

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37	Optimized Ultrabroadband Absorbing Multilayer Thin Film Structure. , 2018, , .		0
38	Nearly optimal measurement schemes in a noisy Mach-Zehnder interferometer with coherent and squeezed vacuum. EPJ Quantum Technology, 2017, 4, .	2.9	37
39	Linear optical quantum metrology with single photons: Experimental errors, resource counting, and quantum CramÃ©r-Rao bounds. Physical Review A, 2017, 96, .	1.0	28
40	Multiphoton Interference in Quantum Fourier Transform Circuits and Applications to Quantum Metrology. Physical Review Letters, 2017, 119, 080502.	2.9	57
41	Multipass configuration for improved squeezed vacuum generation in hot Rb vapor. Physical Review A, 2017, 96, .	1.0	8
42	Optimized aperiodic broadband visible absorbers. Journal of Optics (United Kingdom), 2017, 19, 105003.	1.0	12
43	Gaussian-beam-propagation theory for nonlinear optics involving an analytical treatment of orbital-angular-momentum transfer. Physical Review A, 2017, 96, .	1.0	32
44	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. Physical Review A, 2017, 96, .	1.0	1
45	Why a hole is like a beam splitter: A general diffraction theory for multimode quantum states of light. Physical Review A, 2017, 96, .	1.0	9
46	Room-temperature photon-number-resolved detection using a two-mode squeezer. Physical Review A, 2017, 96, .	1.0	3
47	Fundamental precision limit of a Mach-Zehnder interferometric sensor when one of the inputs is the vacuum. Physical Review A, 2017, 96, .	1.0	52
48	Multiparameter estimation with single photonsâ€"linearly-optically generated quantum entanglement beats the shotnoise limit. Journal of Optics (United Kingdom), 2017, 19, 124002.	1.0	28
49	Adaptive phase estimation with two-mode squeezed vacuum and parity measurement. Physical Review A, 2017, 95, .	1.0	36
50	Optimal digital dynamical decoupling for general decoherence via Walsh modulation. Quantum Information Processing, 2017, 16, 1.	1.0	7
51	Optimized mid-infrared thermal emitters for applications in aircraft countermeasures. AIP Advances, 2017, 7, .	0.6	16
52	Efficient recycling strategies for preparing large Fock states from single-photon sources: Applications to quantum metrology. Physical Review A, 2016, 94, .	1.0	22
53	Phase sensitivity at the Heisenberg limit in an SU(1,1) interferometer via parity detection. Physical Review A, 2016, 94, .	1.0	70
54	Spatial multimode structure of atom-generated squeezed light. Physical Review A, 2016, 93, .	1.0	15

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55	Quantum phase representation of Heisenberg limits and a minimally resourced quantum phase estimator. Physical Review A, 2016, 93, .	1.0	2
56	Sagnac interferometry with coherent vortex superposition states in exciton-polariton condensates. Physical Review A, 2016, 93, .	1.0	30
57	Quantum-enhanced spectroscopy with entangled multiphoton states. Physical Review A, 2016, 93, .	1.0	16
58	On the connection between quantum nonlocality and phase sensitivity of two-mode entangled Fock state superpositions. Quantum Information Processing, 2016, 15, 1025-1042.	1.0	1
59	Optimal Architectures for Single Photon Metrology. , 2016, , .		0
60	Optimized Mid-Infrared Thermal Emitters for Applications in Aircraft Countermeasures. , 2016, , .		0
61	Implementing BosonSampling with time-bin encoding: Analysis of loss, mode mismatch, and time jitter. Physical Review A, 2015, 92, .	1.0	18
62	Quantum Hall effect with small numbers of vortices in Bose-Einstein condensates. Physical Review A, 2015, 92, .	1.0	5
63	An Introduction to Boson-Sampling. , 2015, , 167-192.		19
64	Quantum Optical Technologies for Metrology, Sensing, and Imaging. Journal of Lightwave Technology, 2015, 33, 2359-2370.	2.7	106
65	Evidence for the conjecture that sampling generalized cat states with linear optics is hard. Physical Review A, 2015, 91, .	1.0	22
66	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. Physical Review A, 2015, 91, .	1.0	32
67	Sampling arbitrary photon-added or photon-subtracted squeezed states is in the same complexity class as boson sampling. Physical Review A, 2015, 91, .	1.0	38
68	Preserving photon qubits in an unknown quantum state with Knill dynamical decoupling: Towards an all optical quantum memory. Physical Review A, 2015, 91, .	1.0	6
69	Linear Optical Quantum Metrology with Single Photons: Exploiting Spontaneously Generated Entanglement to Beat the Shot-Noise Limit. Physical Review Letters, 2015, 114, 170802.	2.9	98
70	Non-Gaussian entangled states and quantum teleportation of SchrÃ¶dinger-cat states. Physica Scripta, 2015, 90, 074029.	1.2	31
71	The on-ramp to the all-optical quantum information processing highway. Science, 2015, 349, 696-696.	6.0	4
72	Near Total Resonant Light Absorption in a Graphene Monolayer at Multiple Tunable Wavelengths with Aperiodic Multilayer Structures. , 2015, , .		0

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73	Reducing the number of ancilla qubits and the gate count required for creating large controlled operations. Quantum Information Processing, 2015, 14, 891-899.	1.0	2
74	Multiwavelength Resonant Absorption Enhancement and Highly Directional Absorption with Aperiodic Multilayer Structures. , 2015, , .		0
75	Linear Optical Quantum Metrology with Single Photons. , 2015, , .		0
76	Super-resolving single-photon number-path-entangled state and its generation. , 2014, , .		0
77	Inefficiency of classically simulating linear optical quantum computing with Fock-state inputs. Physical Review A, 2014, 89, .	1.0	17
78	Scalable Boson Sampling with Time-Bin Encoding Using a Loop-Based Architecture. Physical Review Letters, 2014, 113, 120501.	2.9	94
79	Optimized aperiodic multilayer structures for use as narrow-angular absorbers. Journal of Applied Physics, 2014, 116, .	1.1	25
80	Optimized aperiodic highly directional narrowband infrared emitters. Journal of the Optical Society of America B: Optical Physics, 2014, 31, 1316.	0.9	28
81	Super-resolving single-photon number-path-entangled state and its generation. Physical Review A, 2014, 89, .	1.0	2
82	On the uncertainty of the ordering of nonlocal wavefunction collapse when relativity is considered. Quantum Studies: Mathematics and Foundations, 2014, 1, 57-64.	0.4	1
83	Optimized aperiodic highly directional narrowband infrared emitters. Proceedings of SPIE, 2014, , .	0.8	0
84	Quantum information transmission. Quantum Information Processing, 2013, 12, 899-906.	1.0	13
85	Phase estimation at the quantum CramÃ©r-Rao bound via parity detection. Physical Review A, 2013, 87, .	1.0	72
86	Quantum random walks with multiphoton interference and high-order correlation functions. Journal of the Optical Society of America B: Optical Physics, 2013, 30, 1538.	0.9	12
87	Super-resolving quantum radar: Coherent-state sources with homodyne detection suffice to beat the diffraction limit. Journal of Applied Physics, 2013, 114, 193102.	1.1	47
88	Effects of phase fluctuations on phase sensitivity and visibility of path-entangled photon Fock states. Physical Review A, 2013, 88, .	1.0	25
89	Spontaneous parametric down-conversion photon sources are scalable in the asymptotic limit for boson sampling. Physical Review A, 2013, 88, .	1.0	31
90	Dynamical decoupling with tailored wave plates for long-distance communication using polarization qubits. Physical Review A, 2013, 88, .	1.0	2

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91	Coherently generated of vortex superpositions in Bose-Einstein Condensates and their applications. , 2013, , .		0
92	Path-Symmetric States and Parity Detection in Quantum Optical Interferometry. , 2013, , .		0
93	Classical Computers Can Not Efficiently Simulate Multimode Linear Optical Interferometers with Arbitrary Fock-State Inputs. , 2013, , .		0
94	Super-Resolving Quantum Radar: Coherent-State Sources with Homodyne Detection Suffice to Beat the Diffraction Limit. , 2013, , .		0
95	Effects of Phase Fluctuations on the Sensitivity of NOON State in a Noisy Environment. , 2013, , .		0
96	Classical Computers Can Not Efficiently Simulate Multimode Linear Optical Interferometers with Arbitrary Fock-State Inputs. , 2013, , .		0
97	Ultra-stable matterâ€“wave gyroscopy with counter-rotating vortex superpositions in Boseâ€“Einstein condensates. Journal of Modern Optics, 2012, 59, 1180-1185.	0.6	22
98	POPPER'S THOUGHT EXPERIMENT REINVESTIGATED. International Journal of Quantum Information, 2012, 10, 1250033.	0.6	6
99	Quantum-enhanced magnetometer with low-frequency squeezing. Physical Review A, 2012, 86, .	1.0	63
100	Strategies for choosing path-entangled number states for optimal robust quantum-optical metrology in the presence of loss. Physical Review A, 2012, 86, .	1.0	32
101	Dynamical decoupling in optical fibers: Preserving polarization qubits from birefringent dephasing. Physical Review A, 2012, 85, .	1.0	11
102	Enhancing the efficiency of photovoltaic solar cells with photonic nanostructures. , 2012, , .		0
103	Quantum lithography: status of the field. Quantum Information Processing, 2012, 11, 891-901.	1.0	29
104	Single and biphoton imaging and high dimensional quantum communication. Quantum Information Processing, 2012, 11, 925-948.	1.0	1
105	Phase-controlled entanglement in a quantum-beat laser: application to quantum lithography. Journal of Physics B: Atomic, Molecular and Optical Physics, 2011, 44, 225504.	0.6	10
106	Quantum Sensors, Computing, Metrology, and Imaging. , 2011, , .		1
107	Two-Mode Squeezed Vacuum: Phase Estimation and Parity Detection. , 2011, , .		0
108	Parity detection achieves the Heisenberg limit in interferometry with coherent mixed with squeezed vacuum light. New Journal of Physics, 2011, 13, 083026.	1.2	77

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109	Parity Detection for Heisenberg-limited Metrology with Coherent and Squeezed Vacuum Light. , 2011, , .		0
110	Bayesian Analysis of Parity Based Detection Scheme. , 2011, , .		0
111	Coherent-light-boosted, sub-shot noise, quantum interferometry. New Journal of Physics, 2010, 12, 083014.	1.2	127
112	Parity detection in quantum optical metrology without number-resolving detectors. New Journal of Physics, 2010, 12, 113025.	1.2	67
113	An invisible quantum tripwire. New Journal of Physics, 2010, 12, 083012.	1.2	5
114	Quantum Metrology with Two-Mode Squeezed Vacuum: Parity Detection Beats the Heisenberg Limit. Physical Review Letters, 2010, 104, 103602.	2.9	334
115	Super-resolution at the shot-noise limit with coherent states and photon-number-resolving detectors. Journal of the Optical Society of America B: Optical Physics, 2010, 27, A170.	0.9	58
116	Novel Matter-wave Gyroscope via Vortex Superposition in BEC. , 2009, , .		0
117	Resolution and sensitivity of a Fabry-Perot interferometer with a photon-number-resolving detector. Physical Review A, 2009, 80, .	1.0	39
118	Maximal success probabilities of linear-optical quantum gates. Physical Review A, 2009, 79, .	1.0	40
119	Optimizing the multiphoton absorption properties of maximally path-entangled number states. Physical Review A, 2009, 80, .	1.0	7
120	An optical parametric oscillator as a high-flux source of two-mode light for quantum lithography. New Journal of Physics, 2009, 11, 113055.	1.2	5
121	Optimization of quantum interferometric metrological sensors in the presence of photon loss. Physical Review A, 2009, 80, .	1.0	74
122	Quantum Mie scattering and metrology with a Fabry-Perot interferometer and quantum states of light. , 2009, , .		0
123	Quantum optical metrologyÂâ€“Âthe lowdown on high-N00N states. Contemporary Physics, 2008, 49, 125-143.	0.8	655
124	Entanglement-seeded, dual, optical parametric amplification: Applications to quantum imaging and metrology. Physical Review A, 2008, 78, .	1.0	30
125	Arbitrary coherent superpositions of quantized vortices in Bose-Einstein condensates via orbital angular momentum of light. Physical Review A, 2008, 77, .	1.0	42
126	Experimental sub-Rayleigh resolution by an unseeded high-gain optical parametric amplifier for quantum lithography. Physical Review A, 2008, 77, .	1.0	31

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127	Entangled Fock states for robust quantum optical metrology, imaging, and sensing. Physical Review A, 2008, 78, .	1.0	204
128	Generating entangled photons from the vacuum by accelerated measurements: Quantum-information theory and the Unruh-Davies effect. Physical Review A, 2008, 78, .	1.0	21
129	A Study of the Absorption Properties of Maximally Path Entangled Number States. , 2008, , .		0
130	A Toolkit for Analyzing Quantum Imaging Systems. , 2008, , .		0
131	Engineering Quantum States of Light on Demand via Projective Measurements. , 2007, , JTuB3.		0
132	Strong violations of Bell-type inequalities for path-entangled number states. Physical Review A, 2007, 76, .	1.0	52
133	General linear-optical quantum state generation scheme: Applications to maximally path-entangled states. Physical Review A, 2007, 76, .	1.0	32
134	Local and Global Distinguishability in Quantum Interferometry. Physical Review Letters, 2007, 99, 070801.	2.9	76
135	Efficient Generation of Large Number-Path Entanglement Using Only Linear Optics and Feed-Forward. Physical Review Letters, 2007, 99, 163604.	2.9	81
136	Bootstrapping Approach for Generating Maximally Path-Entangled Photon States. Physical Review Letters, 2007, 99, 053602.	2.9	42
137	ALTERNATE SCHEME FOR OPTICAL CLUSTER-STATE GENERATION WITHOUT NUMBER-RESOLVING PHOTON DETECTORS. International Journal of Quantum Information, 2007, 05, 617-626.	0.6	1
138	Quantum interferometric sensors. , 2007, , .		5
139	Quantum states of light produced by a high-gain optical parametric amplifier for use in quantum lithography. Journal of the Optical Society of America B: Optical Physics, 2007, 24, 270.	0.9	18
140	Thermal radiation in photonic crystals. Physical Review B, 2007, 75, .	1.1	46
141	Improving solar cell efficiency using photonic band-gap materials. Solar Energy Materials and Solar Cells, 2007, 91, 1599-1610.	3.0	92
142	Kittens catch phase. Nature, 2007, 450, 362-363.	13.7	2
143	Linear optical quantum computing with photonic qubits. Reviews of Modern Physics, 2007, 79, 135-174.	16.4	2,076
144	Sagnac effect in vortex superposition states of Bose-Einstein condensates. , 2007, , .		0

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145	Linear Optical Quantum Information Processing, Imaging, and Sensing. , 2007, , .		0
146	A Bootstrapping Approach for Generating Maximally Path-Entangled Photon States. , 2007, , .		2
147	Sagnac effect in superposition of vortex states in Bose-Einstein condensates. , 2007, , .		0
148	Linear Optical Quantum Information Processing, Imaging, and Sensing. , 2007, , .		0
149	A General Linear-Optical Quantum State Generator. , 2007, , .		0
150	To compute or not to compute?. Nature, 2006, 439, 919-920.	13.7	10
151	Nonlinear tuning of 3D photonic band-gap structures for single-photon on demand sources. Physica E: Low-Dimensional Systems and Nanostructures, 2006, 32, 484-487.	1.3	3
152	Quantum lithography: AÂnon-computing application of quantum information. Computer Science - Research and Development, 2006, 21, 73-82.	0.9	9
153	Three-Dimensional Photonic Band-Gap Structures For Single-Photon on Demand Sources. , 2006, , .		0
154	High-fidelity linear optical quantum computing with polarization encoding. Physical Review A, 2006, 73, .	1.0	15
155	Heisenberg-limited measurements with superconducting circuits. Physical Review A, 2006, 73, .	1.0	2
156	Exploiting the Quantum Zeno effect to beat photon loss in linear optical quantum information processors. Optics Communications, 2005, 254, 374-379.	1.0	8
157	Vortex Phase Qubit: Generating Arbitrary, Counterrotating, Coherent Superpositions in Bose-Einstein Condensates via Optical Angular Momentum Beams. Physical Review Letters, 2005, 95, 173601.	2.9	141
158	From linear optical quantum computing to Heisenberg-limited interferometry. Journal of Optics B: Quantum and Semiclassical Optics, 2004, 6, S796-S800.	1.4	7
159	Quantum lithography, entanglement and Heisenberg-limited parameter estimation. Journal of Optics B: Quantum and Semiclassical Optics, 2004, 6, S811-S815.	1.4	68
160	Towards photostatistics from photon-number discriminating detectors. Journal of Modern Optics, 2004, 51, 1517-1528.	0.6	36
161	Towards photostatistics from photon-number discriminating detectors. , 2004, .		4
162	Quantum technology: the second quantum revolution. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2003, 361, 1655-1674.	1.6	594

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163	Suitability versus fidelity for rating single-photon guns. Physical Review A, 2003, 67, .	1.0	8
164	Construction of a quantum repeater with linear optics. Physical Review A, 2003, 68, .	1.0	47
165	Conditional linear-optical measurement schemes generate effective photon nonlinearities. Physical Review A, 2003, 68, .	1.0	31
166	All Linear Optical Quantum Memory Based on Quantum Error Correction. Physical Review Letters, 2003, 91, 217901.	2.9	43
167	Lorentz-invariant look at quantum clock-synchronization protocols based on distributed entanglement. Physical Review A, 2002, 65, .	1.0	39
168	Creation of large-photon-number path entanglement conditioned on photodetection. Physical Review A, 2002, 65, .	1.0	240
169	Linear optics and projective measurements alone suffice to create large-photon-number path entanglement. Physical Review A, 2002, 65, .	1.0	110
170	A quantum Rosetta stone for interferometry. Journal of Modern Optics, 2002, 49, 2325-2338.	0.6	393
171	Two-photon processes in faint biphoton fields. Journal of Modern Optics, 2002, 49, 2349-2364.	0.6	7
172	Single-photon quantum-nondemolition detectors constructed with linear optics and projective measurements. Physical Review A, 2002, 66, .	1.0	156
173	Quantum Lithography. , 2002, , 391-397.		0
174	Quantum-interferometric optical lithography:â€ƒTowards arbitrary two-dimensional patterns. Physical Review A, 2001, 63, .	1.0	104
175	Quantum Clock Synchronization Based on Shared Prior Entanglement. Physical Review Letters, 2000, 85, 2010-2013.	2.9	263
176	Quantum Interferometric Optical Lithography: Exploiting Entanglement to Beat the Diffraction Limit. Physical Review Letters, 2000, 85, 2733-2736.	2.9	1,308
177	Modification of Planck blackbody radiation by photonic band-gap structures. Physical Review A, 1999, 59, 4736-4746.	1.0	161
178	Correlated input-port, matter-wave interferometer: Quantum-noise limits to the atom-laser gyroscope. Physical Review A, 1998, 57, 4736-4746.	1.0	269
179	Spontaneous emission and nonlinear effects in photonic bandgap materials. Journal of Optics, 1998, 7, 393-407.	0.5	50
180	The Classical Lamb Shift: Why Jackson Is Wrong!. NATO ASI Series Series B: Physics, 1997, , 307-312.	0.2	0

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181	Measurement of spontaneous-emission enhancement near the one-dimensional photonic band edge of semiconductor heterostructures. Physical Review A, 1996, 53, 2799-2803.	1.0	128
182	Analytic expressions for the electromagnetic mode density in finite, one-dimensional, photonic band-gap structures. Physical Review E, 1996, 53, 4107-4121.	0.8	486
183	Evanescent Light-Wave Atom Mirrors, Resonators, Waveguides, and Traps. Advances in Atomic, Molecular and Optical Physics, 1996, , 1-94.	2.3	134
184	Factoring integers with Youngâ€™sN-slit interferometer. Physical Review A, 1996, 53, 4587-4590.	1.0	61
185	Spontaneous Emission and Nonlinear Effects in Photonic Band Gap Materials. , 1996, , 237-248.		0
186	Local Field Effects in Nonlinear and Quantum Optics. , 1996, , 271-280.		0
187	SchrÃ¶dinger modal structure of cubical, pyramidal, and conical, evanescent light-wave gravitational atom traps. Physical Review A, 1995, 52, 3997-4003.	1.0	10
188	Pulse propagation near highly reflective surfaces: Applications to photonic band-gap structures and the question of superluminal tunneling times. Physical Review A, 1995, 52, 726-734.	1.0	27
189	Thinâ€film nonlinear optical diode. Applied Physics Letters, 1995, 66, 2324-2326.	1.5	270
190	Piezophotonic Switching Due to Local Field Effects in a Coherently Prepared Medium of Three-Level Atoms. Physical Review Letters, 1994, 73, 1789-1792.	2.9	58
191	Wigner distribution of a general angular-momentum state: Applications to a collection of two-level atoms. Physical Review A, 1994, 49, 4101-4109.	1.0	205
192	Anomalous Index of Refraction in Photonic Bandgap Materials. Journal of Modern Optics, 1994, 41, 345-351.	0.6	150
193	Photonic Band Calculations for Woodpile Structures. Journal of Modern Optics, 1994, 41, 231-239.	0.6	195
194	The photonic band edge laser: A new approach to gain enhancement. Journal of Applied Physics, 1994, 75, 1896-1899.	1.1	609
195	The photonic band edge optical diode. Journal of Applied Physics, 1994, 76, 2023-2026.	1.1	254
196	Optical Limiting and Switching of Ultrashort Pulses in Nonlinear Photonic Band Gap Materials. Physical Review Letters, 1994, 73, 1368-1371.	2.9	556
197	Near dipole-dipole effects in lasing without inversion: An enhancement of gain and absorptionless index of refraction. Physical Review Letters, 1993, 70, 1421-1424.	2.9	102
198	Spontaneous emission in cavities: How much more classical can you get?. Foundations of Physics, 1993, 23, 895-905.	0.6	42

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199	Beat radiation from dipoles near a photonic band edge. Journal of the Optical Society of America B: Optical Physics, 1993, 10, 353.	0.9	17
200	Quantum-noise limits to matter-wave interferometry. Physical Review A, 1993, 48, 3186-3190.	1.0	76
201	Dipole radiators in a cavity: A radio frequency analog for the modification of atomic spontaneous emission rates between mirrors. American Journal of Physics, 1993, 61, 545-550.	0.3	14
202	Nearâ€“dipole-dipole effects in dense media: Generalized Maxwell-Bloch equations. Physical Review A, 1993, 47, 1247-1251.	1.0	178
203	Band structure for neutral magnetic dipoles in a periodic magnetic field: A simple spin polarizer. Physical Review Letters, 1992, 68, 3571-3574.	2.9	13
204	Coulomb scattering near mirrors: Quantum corrections to the Rutherford formula. Physical Review A, 1992, 45, 3121-3125.	1.0	1
205	Sonic band structure in fluids with periodic density variations. Journal of the Acoustical Society of America, 1992, 91, 2539-2543.	0.5	67
206	The specular reflection of light off light. American Journal of Physics, 1992, 60, 28-34.	0.3	2
207	Atomic emission rates in inhomogeneous media with applications to photonic band structures. Physical Review A, 1992, 46, 612-622.	1.0	151
208	A quantum state of ultra-low phase noise. Optics Communications, 1991, 86, 119-122.	1.0	14
209	Radiation pattern of a classical dipole in a cavity. Optics Communications, 1991, 82, 415-419.	1.0	59
210	Exponential decrease in phase uncertainty. Physical Review A, 1991, 44, 3365-3368.	1.0	29
211	Self-field quantum electrodynamics: The two-level atom. Physical Review A, 1990, 41, 2284-2294.	1.0	31
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