Ewan M Wright

List of Publications by Year
in descending order

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250 papers	11,905 citations	26567 56 h-index	32761 100 g-index
253 all docs	253 docs citations	253 times ranked	5378 citing authors

#	Article	IF	Citations
1	Measurement of Penrose Superradiance in a Photon Superfluid. Physical Review Letters, 2022, 128, 013901.	2.9	20
2	The Penrose process in nonlinear optics. AVS Quantum Science, 2022, 4, 010501.	1.8	2
3	Intra-Cavity Astigmatic Mode Converting VECSEL. IEEE Photonics Journal, 2022, 14, 1-6.	1.0	2
4	CLEOÂ®/Europe-EQEC 2021 Penrose wave amplification in superfluids of light. , 2021, , .		0
5	All-intracavity fourth harmonic generation in a passively mode locked VECSEL for ultrafast UV emission. Optics Communications, 2021, 499, 127255.	1.0	5
6	Passively Mode Locked 265 nm VECSEL Utilizing All-Intracavity Harmonic Generation. , 2021, , .		0
7	Penrose Superradiance in Nonlinear Optics. Physical Review Letters, 2020, 125, 193902.	2.9	16
8	Amplification of waves from a rotating body. Nature Physics, 2020, 16, 1069-1073.	6.5	45
9	Ã–hberg and Wright Reply:. Physical Review Letters, 2020, 124, 178902.	2.9	12
10	High peak power, sub-ps green emission in a passively mode locked W-cavity VECSEL. Optics Express, 2020, 28, 5794.	1.7	10
11	Memory effects in the long-wave infrared avalanche ionization of gases: a review of recent progress. Reports on Progress in Physics, 2019, 82, 064401.	8.1	16
12	High-Power Higher Order Hermiteâ€“Gaussian and Laguerreâ€“Gaussian Beams From Vertical External Cavity Surface Emitting Lasers. IEEE Journal of Selected Topics in Quantum Electronics, 2019, 25, 1-6.	1.9	8
13	Quantum Time Crystals and Interacting Gauge Theories in Atomic Bose-Einstein Condensates. Physical Review Letters, 2019, 123, 250402.	2.9	30
14	Megafilament in air formed by self-guided terawatt long-wavelength infrared laser. Nature Photonics, 2019, 13, 41-46.	15.6	83
15	Control of the filament dynamics of 10â€‰â€‰Âµm pulses via designer pulse trains. Journal of the Optical Society of America B: Optical Physics, 2019, 36, G33.	0.9	6
16	Universal long-wavelength nonlinear optical response of noble gases. Optics Express, 2019, 27, 25445.	1.7	4
17	High power two-color orbital angular momentum beam generation using vertical external cavity surface emitting lasers. Applied Physics Letters, 2018, 112, .	1.5	6
18	Self-bound droplets of light with orbital angular momentum. Physical Review A, 2018, 98, .	1.0	11

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19	Watt-Level High Order Hermite-Gaussian and Laguerre-Gaussian Beams from Vertical External Cavity Surface Emitting Lasers. , 2018, , .		1
20	Photopolymerization with Light Fields Possessing Orbital Angular Momentum: Generation of Helical Microfibers. ACS Photonics, 2018, 5, 4156-4163.	3.2	33
21	Observation of Photon Droplets and Their Dynamics. Physical Review Letters, 2018, 121, 133903.	2.9	16
22	Rotating black hole geometries in a two-dimensional photon superfluid. Optica, 2018, 5, 1099.	4.8	49
23	Optical binding of two cooled micro-gyroscopes levitated in vacuum. Optica, 2018, 5, 910.	4.8	49
24	Rotation-dependent nonlinear absorption of orbital angular momentum beams in ruby. Optics Letters, 2018, 43, 3073.	1.7	4
25	Nonlinear Zelâ€™dovich Effect: Parametric Amplification from Medium Rotation. Physical Review Letters, 2017, 118, 093901.	2.9	9
26	Dynamics of optically levitated microparticles in vacuum placed in 2D and 3D optical potentials possessing orbital angular momentum. , 2017, , .		0
27	Optical binding of two microparticles levitated in vacuum. , 2017, , .		0
28	Nonlinear rovibrational polarization response of water vapor to ultrashort long-wave infrared pulses. Physical Review A, 2017, 96, .	1.0	6
29	Modal beam splitter: determination of the transversal components of an electromagnetic light field. Scientific Reports, 2017, 7, 9139.	1.6	7
30	Self-Channeling of High-Power Long-Wave Infrared Pulses in Atomic Gases. Physical Review Letters, 2017, 118, 063901.	2.9	36
31	Antibunching in an optomechanical oscillator. Physical Review A, 2017, 95, .	1.0	27
32	Generation of high-power spatially structured beams using vertical external cavity surface emitting lasers. Optics Express, 2017, 25, 25504.	1.7	13
33	Dynamics of a levitated microparticle in vacuum trapped by a perfect vortex beam: three-dimensional motion around a complex optical potential. Journal of the Optical Society of America B: Optical Physics, 2017, 34, C14.	0.9	34
34	Optical analogues of the Newtonâ€“SchrÃ¶dinger equation and boson star evolution. Nature Communications, 2016, 7, 13492.	5.8	54
35	Role of geometry in the superfluid flow of nonlocal photon fluids. Physical Review A, 2016, 94, .	1.0	42
36	Synthetic magnetism for photon fluids. Physical Review A, 2016, 94, .	1.0	15

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37	Nonlinear optical response of noble gases via the metastable electronic state approach. Physical Review A, 2016, 94, .	1.0	11
38	Orbital-angular-momentum transfer to optically levitated microparticles in vacuum. Physical Review A, 2016, 94, .	1.0	33
39	Numerical investigation of enhanced femtosecond supercontinuum via a weak seed in noble gases. Optics Express, 2016, 24, 15110.	1.7	4
40	Carrier-wave shape effects in optical filamentation. Optics Letters, 2016, 41, 859.	1.7	3
41	The role of geometry in nonlocal superfluids.. , 2016, , .		0
42	Rotation of two trapped microparticles in vacuum: observation of optically mediated parametric resonances. Optics Letters, 2015, 40, 4751.	1.7	24
43	Assessment of the metastable electronic state approach as a microscopically self-consistent description for the nonlinear response of atoms. Optics Letters, 2015, 40, 4987.	1.7	13
44	Creating and probing of a perfect vortex in situ with an optically trapped particle. Optical Review, 2015, 22, 162-165.	1.2	30
45	Experimental characterization of nonlocal photon fluids. Optica, 2015, 2, 484.	4.8	73
46	Metastable electronic states and nonlinear response for high-intensity optical pulses: erratum. Optica, 2015, 2, 509.	4.8	0
47	Metastable electronic states and nonlinear response for high-intensity optical pulses. Optica, 2014, 1, 323.	4.8	37
48	Dichroism for orbital angular momentum using parametric amplification. Physical Review A, 2014, 90, .	1.0	5
49	Dynamic stabilization of an optomechanical oscillator. Physical Review A, 2014, 90, .	1.0	8
50	Reflectionless Beam Propagation on a Piecewise Linear Complex Domain. Journal of Lightwave Technology, 2014, 32, 4272-4278.	2.7	8
51	Optical trapping with a perfect vortex beam. Proceedings of SPIE, 2014, , .	0.8	18
52	Simple model for the nonlinear optical response of gases in the transparency region. Optics Letters, 2014, 39, 5086.	1.7	5
53	Dynamics of Microparticles Trapped in a Perfect Vortex Beam. , 2014, , .		0
54	Spiral Phase Matching. , 2014, , .		0

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55	Electromagnetic-force distribution inside matter. Physical Review A, 2013, 88, .	1.0	59
56	Characteristics of Two-Dimensional Quantum Turbulence in a Compressible Superfluid. Physical Review Letters, 2013, 111, 235301.	2.9	141
57	Optical Response of Atomic Gases to Ultrafast Pump-Probe Pulses. IEEE Journal of Quantum Electronics, 2013, 49, 1088-1096.	1.0	1
58	Dynamics of microparticles trapped in a perfect vortex beam. Optics Letters, 2013, 38, 4919.	1.7	263
59	Multimode strong-coupling quantum optomechanics. Physical Review A, 2013, 88, .	1.0	47
60	Non-collinear interaction of photons with orbital angular momentum. Scientific Reports, 2013, 3, 3491.	1.6	36
61	Modal Characterization using Principal Component Analysis: application to Bessel, higher-order Gaussian beams and their superposition. Scientific Reports, 2013, 3, 1422.	1.6	25
62	Superpositions in atomic quantum rings. Physical Review A, 2013, 88, .	1.0	1
63	Phase conjugation in quantum optomechanics. Physical Review A, 2013, 88, .	1.0	10
64	Operating characteristics of a femtosecond amplification cavity for infrared frequency combs. Physical Review A, 2013, 87, .	1.0	0
65	On the relative roles of higher-order nonlinearity and ionization in ultrafast light-matter interactions. Optics Letters, 2012, 37, 1604.	1.7	20
66	Space-time resolved simulation of femtosecond nonlinear light-matter interactions using a holistic quantum atomic model : Application to near-threshold harmonics. Optics Express, 2012, 20, 16113.	1.7	4
67	An interacting dipole model to explore broadband transverse optical binding. Journal of Physics Condensed Matter, 2012, 24, 464117.	0.7	8
68	Seeded optically driven avalanche ionization in molecular and noble gases. Physical Review A, 2012, 86, .	1.0	20
69	Localized waves with spherical harmonic symmetries. Physical Review A, 2012, 86, .	1.0	10
70	Quantum-state transfer between a Bose-Einstein condensate and an optomechanical mirror. Physical Review A, 2012, 86, .	1.0	50
71	Simultaneous determination of the constituent azimuthal and radial mode indices for light fields possessing orbital angular momentum. Applied Physics Letters, 2012, 100, .	1.5	45
72	Experimental Tests of the New Paradigm for Laser Filamentation in Gases. Physical Review Letters, 2011, 106, 153902.	2.9	77

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73	Visualization of the birth of an optical vortex using diffraction from a triangular aperture. Optics Express, 2011, 19, 5760.	1.7	95
74	Intracavity ionization and pulse formation in femtosecond enhancement cavities. Optics Letters, 2011, 36, 2991.	1.7	51
75	Spin and orbital angular momenta of light reflected from a cone. Physical Review A, 2011, 84, .	1.0	33
76	VUV frequency combs and fundamental limits of intracavity HHG due to ionization dynamics. , 2011, , .		0
77	Quantum superpositions of flow states on a ring. Journal of Optics (United Kingdom), 2011, 13, 064011.	1.0	5
78	Spin-to-orbital angular momentum exchange via reflection from a cone. Proceedings of SPIE, 2011, , .	0.8	1
79	High harmonic generation with fs frequency combs and limitations due to intracavity plasma dynamics. , 2011, , .		0
80	All-Optical Optomechanics: An Optical Spring Mirror. Physical Review Letters, 2010, 105, 213602.	2.9	46
81	Optical path clearing and enhanced transmission through colloidal suspensions. Optics Express, 2010, 18, 17130.	1.7	48
82	Femtosecond filamentation in air and higher-order nonlinearities. Optics Letters, 2010, 35, 2550.	1.7	55
83	Microscopic model for the higher-order nonlinearity in optical filaments. Physical Review A, 2010, 82, .	1.0	39
84	Revisiting transverse optical binding. , 2009, , .		4
85	Supercontinuum generation in planar glass membrane fibers: comparison with bulk media. Optics Letters, 2009, 34, 286.	1.7	10
86	Nonlinear optical response of colloidal suspensions. Optics Express, 2009, 17, 10277.	1.7	79
87	Nonlinear optical dynamics in nonideal gases of interacting colloidal nanoparticles. Physical Review A, 2009, 80, .	1.0	34
88	Probing the Nonlinear Optical Response of Nanosuspensions. , 2009, , .		0
89	Propagation and diffraction of optical vortices. Physica C: Superconductivity and Its Applications, 2008, 468, 514-517.	0.6	7
90	A dual beam photonic crystal fiber trap for microscopic particles. Applied Physics Letters, 2008, 93, 041110.	1.5	42

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91	Rotating Ground States of a One-Dimensional Spin-Polarized Gas of Fermionic Atoms with Attractivep-Wave Interactions on a Mesoscopic Ring. Physical Review Letters, 2008, 100, 200403.	2.9	5
92	Quantum dynamics of Raman-coupled Bose-Einstein condensates using Laguerre-Gaussian beams. Physical Review A, 2007, 75, .	1.0	16
93	Supercontinuum and third-harmonic generation accompanying optical filamentation as first-order scattering processes. Optics Letters, 2007, 32, 2816.	1.7	27
94	Self-action and regularized self-guiding of pulsed Bessel-like beams in air. Optics Express, 2007, 15, 9893.	1.7	25
95	The dark spots of Arago. Optics Express, 2007, 15, 11860.	1.7	13
96	Experimental Observation of Modulation Instability and Optical Spatial Soliton Arrays in Soft Condensed Matter. Physical Review Letters, 2007, 98, 203902.	2.9	95
97	The role of linear power partitioning in beam filamentation. Applied Physics B: Lasers and Optics, 2007, 86, 249-258.	1.1	29
98	White Light Takes Shape. Optics and Photonics News, 2006, 17, 37.	0.4	0
99	Visualization of optical binding of microparticles using a femtosecond fiber optical trap. Optics Express, 2006, 14, 3677.	1.7	69
100	Enhanced optical guiding of colloidal particles using a supercontinuum light source. Optics Express, 2006, 14, 5792.	1.7	20
101	Broken enantiomeric symmetry for electromagnetic waves interacting with planar chiral nanostructures. Applied Physics B: Lasers and Optics, 2006, 84, 97-101.	1.1	17
102	Simulation of third-harmonic and supercontinuum generation for femtosecond pulses in air. Applied Physics B: Lasers and Optics, 2006, 85, 531-538.	1.1	108
103	Theory and simulation of the bistable behaviour of optically bound particles in the Mie size regime. New Journal of Physics, 2006, 8, 139-139.	1.2	25
104	Photoluminescence and Terahertz Emission from Femtosecond Laser-Induced Plasma Channels. Physical Review Letters, 2005, 94, 115004.	2.9	34
105	Stability and transient effects in nanosecond ultraviolet light filaments in air. Physical Review E, 2005, 72, 016618.	0.8	6
106	White light propagation invariant beams. Optics Express, 2005, 13, 6657.	1.7	67
107	Interpretation of the spectrally resolved far field of femtosecond pulses propagating in bulk nonlinear dispersive media. Optics Express, 2005, 13, 10729.	1.7	99
108	Polarization conversion and â€œfocusingâ€•of light propagating through a small chiral hole in a metallic screen. Applied Physics Letters, 2005, 86, 201105.	1.5	41

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109	Optical levitation in a Bessel light beam. Applied Physics Letters, 2004, 85, 4001-4003.	1.5	131
110	Simulation of femtosecond pulse propagation in sub-micron diameter tapered fibers. Applied Physics B: Lasers and Optics, 2004, 79, 293-300.	1.1	55
111	Mode properties of an external-cavity laser with Gaussian gain. Optics Letters, 2004, 29, 229.	1.7	10
112	Dynamic Nonlinear X Waves for Femtosecond Pulse Propagation in Water. Physical Review Letters, 2004, 92, 253901.	2.9	203
113	Theory and simulation of supercontinuum generation in transparent bulk media. Applied Physics B: Lasers and Optics, 2003, 77, 185-195.	1.1	58
114	Fundamental limit for integrated atom optics with Bose-Einstein condensates. Physical Review A, 2003, 68, .	1.0	54
115	Feshbach-Resonance-Induced Atomic Filamentation and Quantum Pair Correlation in Atom-Laser-Beam Propagation. Physical Review Letters, 2003, 90, 140401.	2.9	10
116	Crossover from One to Three Dimensions for a Gas of Hard-Core Bosons. Physical Review Letters, 2002, 89, 110402.	2.9	24
117	Interference of a hard-core boson gas on a ring. Physical Review A, 2002, 65, .	1.0	13
118	Interference of a Thermal Tonks Gas on a Ring. Physical Review Letters, 2002, 89, 170404.	2.9	41
119	Bose-Fermi Variational Theory of the Bose-Einstein Condensate Crossover to the Tonks Gas. Physical Review Letters, 2001, 87, 210401.	2.9	22
120	Observation of the Dynamical Inversion of the Topological Charge of an Optical Vortex. Physical Review Letters, 2001, 87, .	2.9	142
121	LASER PHYSICS: Getting to Grips with Light. Science, 2001, 293, 1265-1267.	6.0	0
122	Polarization instability of femtosecond pulse splitting in normally dispersive self-focusing media. Optics Letters, 2001, 26, 78.	1.7	7
123	Propagation and control of noncanonical optical vortices. Optics Letters, 2001, 26, 163.	1.7	113
124	Vortex revivals with trapped light. Optics Letters, 2001, 26, 1601.	1.7	36
125	Efficiency of pump absorption in double-clad fiber amplifiers I Fiber with circular symmetry. Journal of the Optical Society of America B: Optical Physics, 2001, 18, 743.	0.9	33
126	Generation of Electromagnetic Pulses from Plasma Channels Induced by Femtosecond Light Strings. Physical Review Letters, 2001, 87, 213001.	2.9	72

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127	Optical dipole traps and atomic waveguides based on Bessel light beams. Physical Review A, 2001, 63, .	1.0	118
128	Ultraviolet filamentation in air. Optics Communications, 2000, 180, 383-390.	1.0	90
129	Time-domain master equation for pulse evolution and laser mode-locking. Optical and Quantum Electronics, 2000, 32, 1131-1146.	1.5	10
130	Breakdown of Time-Dependent Mean-Field Theory for a One-Dimensional Condensate of Impenetrable Bosons. Physical Review Letters, 2000, 84, 5239-5242.	2.9	117
131	Crystallization behavior of as-deposited, melt quenched, and primed amorphous states of Ge[sub 2]Sb[sub 2.3]Te[sub 5] films. Journal of Applied Physics, 2000, 88, 3926.	1.1	91
132	Dark Solitons in a One-Dimensional Condensate of Hard Core Bosons. Physical Review Letters, 2000, 84, 5691-5694.	2.9	118
133	Dynamic theory of crystallization in Ge_2Sb_23Te_5 phase-change optical recording media. Applied Optics, 2000, 39, 6695.	2.1	17
134	Second Harmonic Generation of Femtosecond Pulses at the Boundary of a Nonlinear Dielectric. Physical Review Letters, 1999, 83, 2934-2937.	2.9	36
135	Numerical investigations of cavity mode instabilities induced by a Gaussian gain medium. Optics Communications, 1999, 172, 103-112.	1.0	0
136	Optically Turbulent Femtosecond Light Guide in Air. Physical Review Letters, 1999, 83, 2938-2941.	2.9	284
137	Moving-focus versus self-waveguiding model for long-distance propagation of femtosecond pulses in air. IEEE Journal of Quantum Electronics, 1999, 35, 1771-1776.	1.0	46
138	Power dependence of dynamic spatial replenishment of femtosecond pulses propagating in air. Optics Express, 1999, 4, 223.	1.7	43
139	Creation of gap solitons in Bose-Einstein condensates. Physical Review A, 1999, 59, 643-648.	1.0	110
140	Spatial pattern of microchannel formation in fused silica irradiated by nanosecond ultraviolet pulses. Applied Optics, 1999, 38, 5785.	2.1	9
141	Solitary wave emission from a non-linear waveguide with a PTS cladding. Optical and Quantum Electronics, 1998, 30, 673-685.	1.5	0
142	Spatial soliton laser. Optics Communications, 1998, 147, 393-401.	1.0	35
143	Dynamic spatial replenishment of femtosecond pulses propagating in air. Optics Letters, 1998, 23, 382.	1.7	462
144	Pulse shapes and stability in Kerr and Active Mode-Locking (KAML). Optics Express, 1998, 2, 204.	1.7	6

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145	Femtosecond pulse propagation in argon: A pressure dependence study. Physical Review E, 1998, 58, 4903-4910.	0.8	112
146	Dressed Bose-Einstein condensates in high-Qcavities. Physical Review A, 1998, 57, 1223-1229.	1.0	9
147	Collapses and revivals of collective excitations in trapped Bose condensates. Physical Review A, 1998, 57, 503-510.	1.0	14
148	Detection of condensate vortex states. Physical Review A, 1998, 58, 576-579.	1.0	12
149	Vortex Coupler for Atomic Bose-Einstein Condensates. Physical Review Letters, 1997, 79, 4728-4731.	2.9	154
150	Collapses and revivals in the interference between two Bose-Einstein condensates formed in small atomic samples. Physical Review A, 1997, 56, 591-602.	1.0	64
151	Quantum dynamics of an atomic Bose-Einstein condensate in a double-well potential. Physical Review A, 1997, 55, 4318-4324.	1.0	984
152	Nonlinear focusing of femtosecond pulses as a result of self-reflection from a saturable absorber. Optics Letters, 1997, 22, 239.	1.7	10
153	Theory and simulation on the threshold of water breakdown induced by focused ultrashort laser pulses. IEEE Journal of Quantum Electronics, 1997, 33, 127-137.	1.0	151
154	Title is missing!. Optical and Quantum Electronics, 1997, 29, 961-983.	1.5	2
155	Master equation for spatio-temporal beam propagation and Kerr lens mode-locking. Optics Communications, 1997, 138, 211-226.	1.0	29
156	Femtosecond pulse propagation near a two-photon transition in a semiconductor quantum-dot waveguide. Optics Letters, 1996, 21, 659.	1.7	10
157	Generalized mean-field or master equation for nonlinear cavities with transverse effects. Optics Letters, 1996, 21, 770.	1.7	16
158	Soliton excitation and mutual locking of light beams in bulk quadratic nonlinear crystals. Journal of the Optical Society of America B: Optical Physics, 1996, 13, 864.	0.9	37
159	Doppler Shift of Self-Reflected Optical Pulses at an Interface: Dynamic Nonlinear Optical Skin Effect. Physical Review Letters, 1996, 76, 3695-3698.	2.9	22
160	Collapses and Revivals of Bose-Einstein Condensates Formed in Small Atomic Samples. Physical Review Letters, 1996, 77, 2158-2161.	2.9	200
161	Two-dimensional motion of cold atoms in a near-resonant annular laser beam: artificial two-dimensional molecules. Optics Communications, 1996, 129, 423-432.	1.0	2
162	Effects of linear and nonlinear dispersion on ultrashort pulse generation in solid-state solitary-wave lasers. , 1996, , .		0

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163	Coupled-mode theory of vertically integrated impedance-matched waveguide/photodetectors. Optics Communications, 1995, 117, 170-178.	1.0	7
164	Stationary trapping of light beams in bulk second-order nonlinear media. Optics Communications, 1995, 121, 149-155.	1.0	56
165	Nonlinear pulse propagation in the vicinity of a two-photon resonance. Physical Review A, 1995, 52, 3231-3238.	1.0	12
166	Self-induced modulation and compression of an ultracold atomic cloud in a nonlinear atomic cavity. Physical Review A, 1995, 52, 498-503.	1.0	7
167	Laser-induced breakdown versus self-focusing for focused picosecond pulses in water. Optics Letters, 1995, 20, 1958.	1.7	22
168	Suppression of third-order dispersion radiation in solid-state soliton lasers. Optics Letters, 1995, 20, 2267.	1.7	2
169	Stable self-trapping and ring formation in polydiacetylene para-toluene sulfonate. Optics Letters, 1995, 20, 2481.	1.7	67
170	Boundary effects in large-aspect-ratio lasers. Physical Review A, 1994, 50, 4310-4317.	1.0	49
171	Nonlinear atom optics: General formalism and atomic solitons. Physical Review A, 1994, 50, 1681-1691.	1.0	87
172	Pattern selection in passive and active nonlinear optical systems. Chaos, Solitons and Fractals, 1994, 4, 1261-1274.	2.5	12
173	Optical anyons: Atoms trapped on electromagnetic vortices. Chaos, Solitons and Fractals, 1994, 4, 1797-1803.	2.5	8
174	Quantum fluctuations in nonlinear optical self-focusing. Chaos, Solitons and Fractals, 1994, 4, 1805-1814.	2.5	3
175	Polarisation patterns in a nonlinear cavity. Optics Communications, 1994, 111, 623-631.	1.0	57
176	Short-pulse conical emission and spectral broadening in normally dispersive media. Optics Letters, 1994, 19, 789.	1.7	101
177	Self-focusing threshold in normally dispersive media. Optics Letters, 1994, 19, 862.	1.7	107
178	The quantum discrete self-trapping equation in the Hartree approximation. Physica D: Nonlinear Phenomena, 1993, 69, 18-32.	1.3	76
179	Amplification, absorption, and lossless propagation of femtosecond pulses in semiconductor amplifiers. Optics Letters, 1993, 18, 1538.	1.7	37
180	Propagation-induced escape from adiabatic following in a semiconductor. Physical Review Letters, 1992, 69, 852-855.	2.9	51

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181	Recurrence and azimuthal-symmetry breaking of a cylindrical Gaussian beam in a saturable self-focusing medium. Physical Review A, 1992, 45, 3168-3175.	1.0	51
182	Stability of the TE_0 guided wave of a nonlinear waveguide with a self-defocusing bounding medium. Optics Letters, 1992, 17, 121.	1.7	14
183	All-optical switching of solitons in an active nonlinear directional coupler. Optical and Quantum Electronics, 1992, 24, S1325-S1336.	1.5	14
184	Three-dimensional simulations of degenerate counterpropagating beam instabilities in a nonlinear medium. Optics Communications, 1992, 88, 167-172.	1.0	41
185	Quantum beam collapse in a self-focusing medium. Physics Letters, Section A: General, Atomic and Solid State Physics, 1992, 165, 217-220.	0.9	0
186	Ultrashort pulse self-switching in coupled-semiconductor traveling-wave amplifiers. IEEE Journal of Quantum Electronics, 1991, 27, 410-415.	1.0	5
187	Spatial ring emission and filament formation in an optical fiber with a saturable nonlinear cladding. Optics Letters, 1991, 16, 291.	1.7	9
188	Soliton switching in an erbium-doped nonlinear fiber coupler. Optics Letters, 1991, 16, 1653.	1.7	55
189	HIGHLY NONLINEAR PHENOMENA IN OPTICAL WAVEGUIDES. Optics and Photonics News, 1991, 2, 24.	0.4	5
190	Excess noise in gain-guided amplifiers. Journal of the Optical Society of America B: Optical Physics, 1991, 8, 1244.	0.9	35
191	Allâ€optical switching of solitons in twoâ€and threeâ€core nonlinear fiber couplers. Journal of Applied Physics, 1991, 70, 7240-7243.	1.1	91
192	Theoretical and experimental investigations of time-dependent degenerate four-wave mixing in semiconductors. Physical Review A, 1991, 44, 628-635.	1.0	0
193	Stability of the higher-bound states in a saturable self-focusing medium. Physical Review A, 1991, 44, 636-644.	1.0	127
194	Theory of an atomic beam splitter based on velocity-tuned resonances. Physical Review A, 1991, 43, 2455-2463.	1.0	40
195	Generation of pulse trains in the normal dispersion regime of a dielectric medium with a relaxing nonlinearity. Applied Physics Letters, 1991, 59, 2489-2491.	1.5	20
196	Quantum theory of soliton propagation in an optical fiber using the Hartree approximation. Physical Review A, 1991, 43, 3836-3844.	1.0	56
197	Emission of spatial solitons from nonlinear waveguides. Physics Reports, 1990, 194, 309-323.	10.3	22
198	All-optical waveguide switching. Optical and Quantum Electronics, 1990, 22, 95-122.	1.5	280

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199	Theory of an atomic interferometer in the Raman-Nath regime. Optics Communications, 1990, 75, 388-396.	1.0	19
200	The effect of diffusion on surface-guided nonlinear TM waves: A finite element approach. Optics Communications, 1990, 74, 347-352.	1.0	13
201	Solitary wave emission from a nonlinear slab waveguide in three dimensions. Applied Physics Letters, 1990, 56, 215-217.	1.5	18
202	Pseudorecurrence in two-dimensional modulation instability with a saturable self-focusing nonlinearity. Physical Review Letters, 1990, 65, 1423-1426.	2.9	41
203	Polarization instabilities of dark and bright coupled solitary waves in birefringent optical fibers. Physical Review A, 1990, 41, 6415-6424.	1.0	24
204	Observation of new scattering orders in degenerate four-wave mixing with semiconductors. Physical Review A, 1990, 41, 523-526.	1.0	1
205	Raman-Nath theory of degenerate four-wave mixing in semiconductors. Physical Review A, 1990, 41, 1620-1628.	1.0	4
206	Generation of macroscopic superpositions in a micromaser. Optics Letters, 1990, 15, 233.	1.7	72
207	Formation of transverse spatial ring structures in increasing-absorption optical bistability. Optics Letters, 1990, 15, 258.	1.7	5
208	Quantum theory of self-phase modulation. Journal of the Optical Society of America B: Optical Physics, 1990, 7, 1142.	0.9	23
209	Nonlinear optical pulse propagation in a semiconductor medium in the transient regime. I. Temporal and spectral effects. IEEE Journal of Quantum Electronics, 1990, 26, 770-777.	1.0	15
210	Solitary-wave decay and symmetry-breaking instabilities in two-mode fibers. Physical Review A, 1989, 40, 4455-4466.	1.0	144
211	Semiclassical theory of a micromaser. Physical Review A, 1989, 40, 2471-2478.	1.0	39
212	Variation of the switching power with diffusion length in a nonlinear directional coupler. Optics Communications, 1989, 73, 385-392.	1.0	9
213	Polarized soliton instability and branching in birefringent fibers. Optics Communications, 1989, 70, 166-172.	1.0	67
214	Bifurcation of scattering orders in degenerate four-wave mixing. Optics Letters, 1989, 14, 75.	1.7	3
215	Collapse and revival in the micromaser. Optics Letters, 1989, 14, 177.	1.7	28
216	Complex geometrical phases for dissipative systems. Physics Letters, Section A: General, Atomic and Solid State Physics, 1988, 128, 177-181.	0.9	203

#	Article	IF	Citations
217	Nonlinear directional coupler with a diffusive Kerr-type nonlinearity. Optics Letters, 1988, 13, 419.	1.7	26
218	Soliton switching in fiber nonlinear directional couplers. Optics Letters, 1988, 13, 672.	1.7	302
219	Stationary nonlinear surface waves and their stability in diffusive Kerr media. Optics Letters, 1988, 13, 690.	1.7	34
220	Optical solitary waves induced by cross-phase modulation. Optics Letters, 1988, 13, 871.	1.7	201
221	Picosecond switching induced by saturable absorption in a nonlinear directional coupler. Applied Physics Letters, 1988, 53, 1144-1146.	1.5	66
222	Nonlinear TE waves of coupled waveguides bounded by nonlinear media. Journal of Lightwave Technology, 1988, 6, 977-983.	2.7	9
223	Soliton coupler. Applied Physics Letters, 1988, 53, 172-174.	1.5	59
224	Third order nonlinear integrated optics. Journal of Lightwave Technology, 1988, 6, 953-970.	2.7	355
225	Degenerate fourâ€wave mixing from a waveguide with guided wave pump beams. Journal of Applied Physics, 1988, 64, 4318-4322.	1.1	2
226	Semiconductor figure of merit for nonlinear directional couplers. Applied Physics Letters, 1988, 52, 2127-2129.	1.5	26
227	Measurements-induced dynamics of a micromaser. Physical Review A, 1988, 37, 2524-2529.	1.0	60
228	Quantization and phase-space methods for slowly varying optical fields in a dispersive nonlinear medium. Physical Review A, 1988, 38, 212-221.	1.0	51
229	Effects of transverse diffusion on increasing absorption bistability. Physical Review A, 1987, 35, 2542-2549.	1.0	18
230	Dynamics of the optical Freedericksz transition. Physical Review A, 1987, 36, 875-887.	1.0	3
231	Noise-induced switching of photonic logic elements. Physical Review A, 1987, 35, 1172-1180.	1.0	6
232	Beam propagation study of nonlinear coupling between transverse electric modes of a slab waveguide. Applied Physics Letters, 1987, 50, 1562-1564.	1.5	23
233	Exact dispersion relations for transverse magnetic polarized guided waves at a nonlinear interface. Optics Letters, 1987, 12, 187.	1.7	147
234	Effects of absorption on TE0 nonlinear guided waves. Optics Communications, 1987, 61, 357-362.	1.0	28

#	Article	IF	Citations
235	Exact theory of nonlinearp-polarized optical waves. Physical Review A, 1987, 35, 1159-1164.	1.0	102
236	Beam-propagation method analysis of a nonlinear directional coupler. Optics Letters, 1986, 11, 739.	1.7	87
237	Nonlinear slab-guided waves in non-Kerr-like media. IEEE Journal of Quantum Electronics, 1986, 22, 977-983.	1.0	84
238	Instabilities and allâ€optical phaseâ€controlled switching in a nonlinear directional coherent coupler. Applied Physics Letters, 1986, 49, 838-840.	1.5	93
239	Gaussian beam excitation of TE0nonlinear guided waves. Applied Physics Letters, 1986, 49, 435-436.	1.5	22
240	Multisoliton emission from a nonlinear waveguide. Physical Review A, 1986, 34, 4442-4444.	1.0	80
241	Powerâ€dependent coupling and fast switching in distributed coupling to ZnO waveguides. Applied Physics Letters, 1986, 49, 687-689.	1.5	34
242	Complex trajectories and Feynman path integrals. Physics Letters, Section A: General, Atomic and Solid State Physics, 1985, 108, 129-132.	0.9	5
243	Nonlinear theory of near degenerate four-wave mixing in a Kerr medium in the Raman-Nath approximation. Optics Communications, 1985, 53, 269-273.	1.0	6
244	Theory of the nonlinear Sagnac effect in a fiber-optic gyroscope. Physical Review A, 1985, 32, 2857-2863.	1.0	18
245	Nonlinear theory of self-oscillations in a phase-conjugate resonator. Optics Communications, 1984, 51, 428-432.	1.0	16
246	Reciprocity and orthogonality relations for ring resonators. IEEE Journal of Quantum Electronics, 1984, 20, 1307-1310.	1.0	11
247	Mirror confinement and control through radiation pressure. Optics Letters, 1984, 9, 193.	1.7	25
248	Orthogonality properties of general optical resonator eigenmodes. Optics Communications, 1982, 40, 410-412.	1.0	17
249	Theory of Gaussian-beam optical bistability. Optics Communications, 1982, 40, 233-238.	1.0	54
250	Oscillation and chaos in a Fabry-Perot bistable cavity with gaussian input beam. Physics Letters, Section A: General, Atomic and Solid State Physics, 1982, 92, 211-216.	0.9	29