Ewan M Wright

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/4401493/publications.pdf

Version: 2024-02-01

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	Quantum dynamics of an atomic Bose-Einstein condensate in a double-well potential. Physical Review A, 1997, 55, 4318-4324.	1.0	984
2	Dynamic spatial replenishment of femtosecond pulses propagating in air. Optics Letters, 1998, 23, 382.	1.7	462
3	Third order nonlinear integrated optics. Journal of Lightwave Technology, 1988, 6, 953-970.	2.7	355
4	Soliton switching in fiber nonlinear directional couplers. Optics Letters, 1988, 13, 672.	1.7	302
5	Optically Turbulent Femtosecond Light Guide in Air. Physical Review Letters, 1999, 83, 2938-2941.	2.9	284
6	All-optical waveguide switching. Optical and Quantum Electronics, 1990, 22, 95-122.	1.5	280
7	Dynamics of microparticles trapped in a perfect vortex beam. Optics Letters, 2013, 38, 4919.	1.7	263
8	Complex geometrical phases for dissipative systems. Physics Letters, Section A: General, Atomic and Solid State Physics, 1988, 128, 177-181.	0.9	203
9	Dynamic Nonlinear X Waves for Femtosecond Pulse Propagation in Water. Physical Review Letters, 2004, 92, 253901.	2.9	203
10	Optical solitary waves induced by cross-phase modulation. Optics Letters, 1988, 13, 871.	1.7	201
11	Collapses and Revivals of Bose-Einstein Condensates Formed in Small Atomic Samples. Physical Review Letters, 1996, 77, 2158-2161.	2.9	200
12	Vortex Coupler for Atomic Bose-Einstein Condensates. Physical Review Letters, 1997, 79, 4728-4731.	2.9	154
13	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
14	Exact dispersion relations for transverse magnetic polarized guided waves at a nonlinear interface. Optics Letters, 1987, 12, 187.	1.7	147
15	Solitary-wave decay and symmetry-breaking instabilities in two-mode fibers. Physical Review A, 1989, 40, 4455-4466.	1.0	144
16	Observation of the Dynamical Inversion of the Topological Charge of an Optical Vortex. Physical Review Letters, 2001, 87, .	2.9	142
17	Characteristics of Two-Dimensional Quantum Turbulence in a Compressible Superfluid. Physical Review Letters, 2013, 111, 235301.	2.9	141
18	Optical levitation in a Bessel light beam. Applied Physics Letters, 2004, 85, 4001-4003.	1.5	131

#	Article	IF	Citations
19	Stability of the higher-bound states in a saturable self-focusing medium. Physical Review A, 1991, 44, 636-644.	1.0	127
20	Dark Solitons in a One-Dimensional Condensate of Hard Core Bosons. Physical Review Letters, 2000, 84, 5691-5694.	2.9	118
21	Optical dipole traps and atomic waveguides based on Bessel light beams. Physical Review A, 2001, 63, .	1.0	118
22	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
23	Propagation and control of noncanonical optical vortices. Optics Letters, 2001, 26, 163.	1.7	113
24	Femtosecond pulse propagation in argon: A pressure dependence study. Physical Review E, 1998, 58, 4903-4910.	0.8	112
25	Creation of gap solitons in Bose-Einstein condensates. Physical Review A, 1999, 59, 643-648.	1.0	110
26	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
27	Self-focusing threshold in normally dispersive media. Optics Letters, 1994, 19, 862.	1.7	107
28	Exact theory of nonlinearp-polarized optical waves. Physical Review A, 1987, 35, 1159-1164.	1.0	102
29	Short-pulse conical emission and spectral broadening in normally dispersive media. Optics Letters, 1994, 19, 789.	1.7	101
30	Interpretation of the spectrally resolved far field of femtosecond pulses propagating in bulk nonlinear dispersive media. Optics Express, 2005, 13, 10729.	1.7	99
31	Experimental Observation of Modulation Instability and Optical Spatial Soliton Arrays in Soft Condensed Matter. Physical Review Letters, 2007, 98, 203902.	2.9	95
32	Visualization of the birth of an optical vortex using diffraction from a triangular aperture. Optics Express, 2011, 19, 5760.	1.7	95
33	Instabilities and allâ€optical phaseâ€controlled switching in a nonlinear directional coherent coupler. Applied Physics Letters, 1986, 49, 838-840.	1.5	93
34	Allâ€optical switching of solitons in twoâ€and threeâ€core nonlinear fiber couplers. Journal of Applied Physics, 1991, 70, 7240-7243.	1.1	91
35	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
36	Ultraviolet filamentation in air. Optics Communications, 2000, 180, 383-390.	1.0	90

#	Article	IF	Citations
37	Beam-propagation method analysis of a nonlinear directional coupler. Optics Letters, 1986, 11, 739.	1.7	87
38	Nonlinear atom optics: General formalism and atomic solitons. Physical Review A, 1994, 50, 1681-1691.	1.0	87
39	Nonlinear slab-guided waves in non-Kerr-like media. IEEE Journal of Quantum Electronics, 1986, 22, 977-983.	1.0	84
40	Megafilament in air formed by self-guided terawatt long-wavelength infrared laser. Nature Photonics, 2019, 13, 41-46.	15.6	83
41	Multisoliton emission from a nonlinear waveguide. Physical Review A, 1986, 34, 4442-4444.	1.0	80
42	Nonlinear optical response of colloidal suspensions. Optics Express, 2009, 17, 10277.	1.7	79
43	Experimental Tests of the New Paradigm for Laser Filamentation in Gases. Physical Review Letters, 2011, 106, 153902.	2.9	77
44	The quantum discrete self-trapping equation in the Hartree approximation. Physica D: Nonlinear Phenomena, 1993, 69, 18-32.	1.3	76
45	Experimental characterization of nonlocal photon fluids. Optica, 2015, 2, 484.	4.8	73
46	Generation of macroscopic superpositions in a micromaser. Optics Letters, 1990, 15, 233.	1.7	72
47	Generation of Electromagnetic Pulses from Plasma Channels Induced by Femtosecond Light Strings. Physical Review Letters, 2001, 87, 213001.	2.9	72
48	Visualization of optical binding of microparticles using a femtosecond fiber optical trap. Optics Express, 2006, 14, 3677.	1.7	69
49	Polarized soliton instability and branching in birefringent fibers. Optics Communications, 1989, 70, 166-172.	1.0	67
50	Stable self-trapping and ring formation in polydiacetylene para-toluene sulfonate. Optics Letters, 1995, 20, 2481.	1.7	67
51	White light propagation invariant beams. Optics Express, 2005, 13, 6657.	1.7	67
52	Picosecond switching induced by saturable absorption in a nonlinear directional coupler. Applied Physics Letters, 1988, 53, 1144-1146.	1.5	66
53	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
54	Measurements-induced dynamics of a micromaser. Physical Review A, 1988, 37, 2524-2529.	1.0	60

#	Article	IF	Citations
55	Soliton coupler. Applied Physics Letters, 1988, 53, 172-174.	1.5	59
56	Electromagnetic-force distribution inside matter. Physical Review A, 2013, 88, .	1.0	59
57	Theory and simulation of supercontinuum generation in transparent bulk media. Applied Physics B: Lasers and Optics, 2003, 77, 185-195.	1.1	58
58	Polarisation patterns in a nonlinear cavity. Optics Communications, 1994, 111, 623-631.	1.0	57
59	Quantum theory of soliton propagation in an optical fiber using the Hartree approximation. Physical Review A, 1991, 43, 3836-3844.	1.0	56
60	Stationary trapping of light beams in bulk second-order nonlinear media. Optics Communications, 1995, 121, 149-155.	1.0	56
61	Soliton switching in an erbium-doped nonlinear fiber coupler. Optics Letters, 1991, 16, 1653.	1.7	55
62	Simulation of femtosecond pulse propagation in sub-micron diameter tapered fibers. Applied Physics B: Lasers and Optics, 2004, 79, 293-300.	1.1	55
63	Femtosecond filamentation in air and higher-order nonlinearities. Optics Letters, 2010, 35, 2550.	1.7	55
64	Theory of Gaussian-beam optical bistability. Optics Communications, 1982, 40, 233-238.	1.0	54
65	Fundamental limit for integrated atom optics with Bose-Einstein condensates. Physical Review A, 2003, 68, .	1.0	54
66	Optical analogues of the Newtonâ€“SchrÃ¶dinger equation and boson star evolution. Nature Communications, 2016, 7, 13492.	5.8	54
67	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
68	Propagation-induced escape from adiabatic following in a semiconductor. Physical Review Letters, 1992, 69, 852-855.	2.9	51
69	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
70	Intracavity ionization and pulse formation in femtosecond enhancement cavities. Optics Letters, 2011, 36, 2991.	1.7	51
71	Quantum-state transfer between a Bose-Einstein condensate and an optomechanical mirror. Physical Review A, 2012, 86, .	1.0	50
72	Boundary effects in large-aspect-ratio lasers. Physical Review A, 1994, 50, 4310-4317.	1.0	49

#	Article	IF	Citations
73	Rotating black hole geometries in a two-dimensional photon superfluid. Optica, 2018, 5, 1099.	4.8	49
74	Optical binding of two cooled micro-gyroscopes levitated in vacuum. Optica, 2018, 5, 910.	4.8	49
75	Optical path clearing and enhanced transmission through colloidal suspensions. Optics Express, 2010, 18, 17130.	1.7	48
76	Multimode strong-coupling quantum optomechanics. Physical Review A, 2013, 88, .	1.0	47
77	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
78	All-Optical Optomechanics: An Optical Spring Mirror. Physical Review Letters, 2010, 105, 213602.	2.9	46
79	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
80	Amplification of waves from a rotating body. Nature Physics, 2020, 16, 1069-1073.	6.5	45
81	Power dependence of dynamic spatial replenishment of femtosecond pulses propagating in air. Optics Express, 1999, 4, 223.	1.7	43
82	A dual beam photonic crystal fiber trap for microscopic particles. Applied Physics Letters, 2008, 93, 041110.	1.5	42
83	Role of geometry in the superfluid flow of nonlocal photon fluids. Physical Review A, 2016, 94, .	1.0	42
84	Pseudorecurrence in two-dimensional modulation instability with a saturable self-focusing nonlinearity. Physical Review Letters, 1990, 65, 1423-1426.	2.9	41
85	Three-dimensional simulations of degenerate counterpropagating beam instabilities in a nonlinear medium. Optics Communications, 1992, 88, 167-172.	1.0	41
86	Interference of a Thermal Tonks Gas on a Ring. Physical Review Letters, 2002, 89, 170404.	2.9	41
87	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
88	Theory of an atomic beam splitter based on velocity-tuned resonances. Physical Review A, 1991, 43, 2455-2463.	1.0	40
89	Semiclassical theory of a micromaser. Physical Review A, 1989, 40, 2471-2478.	1.0	39
90	Microscopic model for the higher-order nonlinearity in optical filaments. Physical Review A, 2010, 82, .	1.0	39

#	Article	IF	Citations
91	Amplification, absorption, and lossless propagation of femtosecond pulses in semiconductor amplifiers. Optics Letters, 1993, 18, 1538.	1.7	37
92	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
93	Metastable electronic states and nonlinear response for high-intensity optical pulses. Optica, 2014, 1, 323.	4.8	37
94	Second Harmonic Generation of Femtosecond Pulses at the Boundary of a Nonlinear Dielectric. Physical Review Letters, 1999, 83, 2934-2937.	2.9	36
95	Vortex revivals with trapped light. Optics Letters, 2001, 26, 1601.	1.7	36
96	Non-collinear interaction of photons with orbital angular momentum. Scientific Reports, 2013, 3, 3491.	1.6	36
97	Self-Channeling of High-Power Long-Wave Infrared Pulses in Atomic Gases. Physical Review Letters, 2017, 118, 063901.	2.9	36
98	Excess noise in gain-guided amplifiers. Journal of the Optical Society of America B: Optical Physics, 1991, 8, 1244.	0.9	35
99	Spatial soliton laser. Optics Communications, 1998, 147, 393-401.	1.0	35
100	Powerâ€dependent coupling and fast switching in distributed coupling to ZnO waveguides. Applied Physics Letters, 1986, 49, 687-689.	1.5	34
101	Stationary nonlinear surface waves and their stability in diffusive Kerr media. Optics Letters, 1988, 13, 690.	1.7	34
102	Photoluminescence and Terahertz Emission from Femtosecond Laser-Induced Plasma Channels. Physical Review Letters, 2005, 94, 115004.	2.9	34
103	Nonlinear optical dynamics in nonideal gases of interacting colloidal nanoparticles. Physical Review A, 2009, 80, .	1.0	34
104	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
105	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
106	Spin and orbital angular momenta of light reflected from a cone. Physical Review A, 2011, 84, .	1.0	33
107	Orbital-angular-momentum transfer to optically levitated microparticles in vacuum. Physical Review A, 2016, 94, .	1.0	33
108	Photopolymerization with Light Fields Possessing Orbital Angular Momentum: Generation of Helical Microfibers. ACS Photonics, 2018, 5, 4156-4163.	3.2	33

#	Article	IF	Citations
109	Creating and probing of a perfect vortex in situ with an optically trapped particle. Optical Review, 2015, 22, 162-165.	1.2	30
110	Quantum Time Crystals and Interacting Gauge Theories in Atomic Bose-Einstein Condensates. Physical Review Letters, 2019, 123, 250402.	2.9	30
111	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
112	Master equation for spatio-temporal beam propagation and Kerr lens mode-locking. Optics Communications, 1997, 138, 211-226.	1.0	29
113	The role of linear power partitioning in beam filamentation. Applied Physics B: Lasers and Optics, 2007, 86, 249-258.	1.1	29
114	Effects of absorption on TE0 nonlinear guided waves. Optics Communications, 1987, 61, 357-362.	1.0	28
115	Collapse and revival in the micromaser. Optics Letters, 1989, 14, 177.	1.7	28
116	Supercontinuum and third-harmonic generation accompanying optical filamentation as first-order scattering processes. Optics Letters, 2007, 32, 2816.	1.7	27
117	Antibunching in an optomechanical oscillator. Physical Review A, 2017, 95, .	1.0	27
118	Nonlinear directional coupler with a diffusive Kerr-type nonlinearity. Optics Letters, 1988, 13, 419.	1.7	26
119	Semiconductor figure of merit for nonlinear directional couplers. Applied Physics Letters, 1988, 52, 2127-2129.	1.5	26
120	Mirror confinement and control through radiation pressure. Optics Letters, 1984, 9, 193.	1.7	25
121	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
122	Self-action and regularized self-guiding of pulsed Bessel-like beams in air. Optics Express, 2007, 15, 9893.	1.7	25
123	Modal Characterization using Principal Component Analysis: application to Bessel, higher-order Gaussian beams and their superposition. Scientific Reports, 2013, 3, 1422.	1.6	25
124	Polarization instabilities of dark and bright coupled solitary waves in birefringent optical fibers. Physical Review A, 1990, 41, 6415-6424.	1.0	24
125	Crossover from One to Three Dimensions for a Gas of Hard-Core Bosons. Physical Review Letters, 2002, 89, 110402.	2.9	24
126	Rotation of two trapped microparticles in vacuum: observation of optically mediated parametric resonances. Optics Letters, 2015, 40, 4751.	1.7	24

#	Article	IF	Citations
127	Beam propagation study of nonlinear coupling between transverse electric modes of a slab waveguide. Applied Physics Letters, 1987, 50, 1562-1564.	1.5	23
128	Quantum theory of self-phase modulation. Journal of the Optical Society of America B: Optical Physics, 1990, 7, 1142.	0.9	23
129	Gaussian beam excitation of TE0nonlinear guided waves. Applied Physics Letters, 1986, 49, 435-436.	1.5	22
130	Emission of spatial solitons from nonlinear waveguides. Physics Reports, 1990, 194, 309-323.	10.3	22
131	Laser-induced breakdown versus self-focusing for focused picosecond pulses in water. Optics Letters, 1995, 20, 1958.	1.7	22
132	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
133	Bose-Fermi Variational Theory of the Bose-Einstein Condensate Crossover to the Tonks Gas. Physical Review Letters, 2001, 87, 210401.	2.9	22
134	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
135	Enhanced optical guiding of colloidal particles using a supercontinuum light source. Optics Express, 2006, 14, 5792.	1.7	20
136	On the relative roles of higher-order nonlinearity and ionization in ultrafast light-matter interactions. Optics Letters, 2012, 37, 1604.	1.7	20
137	Seeded optically driven avalanche ionization in molecular and noble gases. Physical Review A, 2012, 86, .	1.0	20
138	Measurement of Penrose Superradiance in a Photon Superfluid. Physical Review Letters, 2022, 128, 013901.	2.9	20
139	Theory of an atomic interferometer in the Raman-Nath regime. Optics Communications, 1990, 75, 388-396.	1.0	19
140	Theory of the nonlinear Sagnac effect in a fiber-optic gyroscope. Physical Review A, 1985, 32, 2857-2863.	1.0	18
141	Effects of transverse diffusion on increasing absorption bistability. Physical Review A, 1987, 35, 2542-2549.	1.0	18
142	Solitary wave emission from a nonlinear slab waveguide in three dimensions. Applied Physics Letters, 1990, 56, 215-217.	1.5	18
143	Optical trapping with a perfect vortex beam. Proceedings of SPIE, 2014, , .	0.8	18
144	Orthogonality properties of general optical resonator eigenmodes. Optics Communications, 1982, 40, 410-412.	1.0	17

#	Article	IF	Citations
145	Dynamic theory of crystallization in Ge_2Sb_23Te_5 phase-change optical recording media. Applied Optics, 2000, 39, 6695.	2.1	17
146	Broken enantiomeric symmetry for electromagnetic waves interacting with planar chiral nanostructures. Applied Physics B: Lasers and Optics, 2006, 84, 97-101.	1.1	17
147	Nonlinear theory of self-oscillations in a phase-conjugate resonator. Optics Communications, 1984, 51, 428-432.	1.0	16
148	Generalized mean-field or master equation for nonlinear cavities with transverse effects. Optics Letters, 1996, 21, 770.	1.7	16
149	Quantum dynamics of Raman-coupled Bose-Einstein condensates using Laguerre-Gaussian beams. Physical Review A, 2007, 75, .	1.0	16
150	Observation of Photon Droplets and Their Dynamics. Physical Review Letters, 2018, 121, 133903.	2.9	16
151	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
152	Penrose Superradiance in Nonlinear Optics. Physical Review Letters, 2020, 125, 193902.	2.9	16
153	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
154	Synthetic magnetism for photon fluids. Physical Review A, 2016, 94, .	1.0	15
155	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
156	All-optical switching of solitons in an active nonlinear directional coupler. Optical and Quantum Electronics, 1992, 24, S1325-S1336.	1.5	14
157	Collapses and revivals of collective excitations in trapped Bose condensates. Physical Review A, 1998, 57, 503-510.	1.0	14
158	The effect of diffusion on surface-guided nonlinear TM waves: A finite element approach. Optics Communications, 1990, 74, 347-352.	1.0	13
159	Interference of a hard-core boson gas on a ring. Physical Review A, 2002, 65, .	1.0	13
160	The dark spots of Arago. Optics Express, 2007, 15, 11860.	1.7	13
161	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
162	Generation of high-power spatially structured beams using vertical external cavity surface emitting lasers. Optics Express, 2017, 25, 25504.	1.7	13

#	Article	IF	Citations
163	Pattern selection in passive and active nonlinear optical systems. Chaos, Solitons and Fractals, 1994, 4, 1261-1274.	2.5	12
164	Nonlinear pulse propagation in the vicinity of a two-photon resonance. Physical Review A, 1995, 52, 3231-3238.	1.0	12
165	Detection of condensate vortex states. Physical Review A, 1998, 58, 576-579.	1.0	12
166	Ã–hberg and Wright Reply:. Physical Review Letters, 2020, 124, 178902.	2.9	12
167	Reciprocity and orthogonality relations for ring resonators. IEEE Journal of Quantum Electronics, 1984, 20, 1307-1310.	1.0	11
168	Nonlinear optical response of noble gases via the metastable electronic state approach. Physical Review A, 2016, 94, .	1.0	11
169	Self-bound droplets of light with orbital angular momentum. Physical Review A, 2018, 98, .	1.0	11
170	Femtosecond pulse propagation near a two-photon transition in a semiconductor quantum-dot waveguide. Optics Letters, 1996, 21, 659.	1.7	10
171	Nonlinear focusing of femtosecond pulses as a result of self-reflection from a saturable absorber. Optics Letters, 1997, 22, 239.	1.7	10
172	Time-domain master equation for pulse evolution and laser mode-locking. Optical and Quantum Electronics, 2000, 32, 1131-1146.	1.5	10
173	Feshbach-Resonance-Induced Atomic Filamentation and Quantum Pair Correlation in Atom-Laser-Beam Propagation. Physical Review Letters, 2003, 90, 140401.	2.9	10
174	Mode properties of an external-cavity laser with Gaussian gain. Optics Letters, 2004, 29, 229.	1.7	10
175	Supercontinuum generation in planar glass membrane fibers: comparison with bulk media. Optics Letters, 2009, 34, 286.	1.7	10
176	Localized waves with spherical harmonic symmetries. Physical Review A, 2012, 86, .	1.0	10
177	Phase conjugation in quantum optomechanics. Physical Review A, 2013, 88, .	1.0	10
178	High peak power, sub-ps green emission in a passively mode locked W-cavity VECSEL. Optics Express, 2020, 28, 5794.	1.7	10
179	Nonlinear TE waves of coupled waveguides bounded by nonlinear media. Journal of Lightwave Technology, 1988, 6, 977-983.	2.7	9
180	Variation of the switching power with diffusion length in a nonlinear directional coupler. Optics Communications, 1989, 73, 385-392.	1.0	9

#	Article	IF	Citations
181	Spatial ring emission and filament formation in an optical fiber with a saturable nonlinear cladding. Optics Letters, 1991, 16, 291.	1.7	9
182	Dressed Bose-Einstein condensates in high-Qcavities. Physical Review A, 1998, 57, 1223-1229.	1.0	9
183	Spatial pattern of microchannel formation in fused silica irradiated by nanosecond ultraviolet pulses. Applied Optics, 1999, 38, 5785.	2.1	9
184	Nonlinear Zelâ€™dovich Effect: Parametric Amplification from Medium Rotation. Physical Review Letters, 2017, 118, 093901.	2.9	9
185	Optical anyons: Atoms trapped on electromagnetic vortices. Chaos, Solitons and Fractals, 1994, 4, 1797-1803.	2.5	8
186	An interacting dipole model to explore broadband transverse optical binding. Journal of Physics Condensed Matter, 2012, 24, 464117.	0.7	8
187	Dynamic stabilization of an optomechanical oscillator. Physical Review A, 2014, 90, .	1.0	8
188	Reflectionless Beam Propagation on a Piecewise Linear Complex Domain. Journal of Lightwave Technology, 2014, 32, 4272-4278.	2.7	8
189	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
190	Coupled-mode theory of vertically integrated impedance-matched waveguide/photodetectors. Optics Communications, 1995, 117, 170-178.	1.0	7
191	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
192	Polarization instability of femtosecond pulse splitting in normally dispersive self-focusing media. Optics Letters, 2001, 26, 78.	1.7	7
193	Propagation and diffraction of optical vortices. Physica C: Superconductivity and Its Applications, 2008, 468, 514-517.	0.6	7
194	Modal beam splitter: determination of the transversal components of an electromagnetic light field. Scientific Reports, 2017, 7, 9139.	1.6	7
195	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
196	Noise-induced switching of photonic logic elements. Physical Review A, 1987, 35, 1172-1180.	1.0	6
197	Pulse shapes and stability in Kerr and Active Mode-Locking (KAML). Optics Express, 1998, 2, 204.	1.7	6
198	Stability and transient effects in nanosecond ultraviolet light filaments in air. Physical Review E, 2005, 72, 016618.	0.8	6

#	Article	IF	Citations
199	Nonlinear rovibrational polarization response of water vapor to ultrashort long-wave infrared pulses. Physical Review A, 2017, 96, .	1.0	6
200	High power two-color orbital angular momentum beam generation using vertical external cavity surface emitting lasers. Applied Physics Letters, 2018, 112, .	1.5	6
201	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
202	Complex trajectories and Feynman path integrals. Physics Letters, Section A: General, Atomic and Solid State Physics, 1985, 108, 129-132.	0.9	5
203	Formation of transverse spatial ring structures in increasing-absorption optical bistability. Optics Letters, 1990, 15, 258.	1.7	5
204	Ultrashort pulse self-switching in coupled-semiconductor traveling-wave amplifiers. IEEE Journal of Quantum Electronics, 1991, 27, 410-415.	1.0	5
205	HIGHLY NONLINEAR PHENOMENA IN OPTICAL WAVEGUIDES. Optics and Photonics News, 1991, 2, 24.	0.4	5
206	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
207	Quantum superpositions of flow states on a ring. Journal of Optics (United Kingdom), 2011, 13, 064011.	1.0	5
208	Dichroism for orbital angular momentum using parametric amplification. Physical Review A, 2014, 90, .	1.0	5
209	Simple model for the nonlinear optical response of gases in the transparency region. Optics Letters, 2014, 39, 5086.	1.7	5
210	All-intracavity fourth harmonic generation in a passively mode locked VECSEL for ultrafast UV emission. Optics Communications, 2021, 499, 127255.	1.0	5
211	Raman-Nath theory of degenerate four-wave mixing in semiconductors. Physical Review A, 1990, 41, 1620-1628.	1.0	4
212	Revisiting transverse optical binding. , 2009, , .		4
213	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
214	Numerical investigation of enhanced femtosecond supercontinuum via a weak seed in noble gases. Optics Express, 2016, 24, 15110.	1.7	4
215	Rotation-dependent nonlinear absorption of orbital angular momentum beams in ruby. Optics Letters, 2018, 43, 3073.	1.7	4
216	Universal long-wavelength nonlinear optical response of noble gases. Optics Express, 2019, 27, 25445.	1.7	4

#	Article	IF	Citations
217	Dynamics of the optical Freedericksz transition. Physical Review A, 1987, 36, 875-887.	1.0	3
218	Bifurcation of scattering orders in degenerate four-wave mixing. Optics Letters, 1989, 14, 75.	1.7	3
219	Quantum fluctuations in nonlinear optical self-focusing. Chaos, Solitons and Fractals, 1994, 4, 1805-1814.	2.5	3
220	Carrier-wave shape effects in optical filamentation. Optics Letters, 2016, 41, 859.	1.7	3
221	Degenerate fourâ€wave mixing from a waveguide with guided wave pump beams. Journal of Applied Physics, 1988, 64, 4318-4322.	1.1	2
222	Suppression of third-order dispersion radiation in solid-state soliton lasers. Optics Letters, 1995, 20, 2267.	1.7	2
223	Title is missing!. Optical and Quantum Electronics, 1997, 29, 961-983.	1.5	2
224	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
225	The Penrose process in nonlinear optics. AVS Quantum Science, 2022, 4, 010501.	1.8	2
226	Intra-Cavity Astigmatic Mode Converting VECSEL. IEEE Photonics Journal, 2022, 14, 1-6.	1.0	2
227	Observation of new scattering orders in degenerate four-wave mixing with semiconductors. Physical Review A, 1990, 41, 523-526.	1.0	1
228	Spin-to-orbital angular momentum exchange via reflection from a cone. Proceedings of SPIE, 2011, , .	0.8	1
229	Optical Response of Atomic Gases to Ultrafast Pump-Probe Pulses. IEEE Journal of Quantum Electronics, 2013, 49, 1088-1096.	1.0	1
230	Superpositions in atomic quantum rings. Physical Review A, 2013, 88, .	1.0	1
231	Watt-Level High Order Hermite-Gaussian and Laguerre-Gaussian Beams from Vertical External Cavity Surface Emitting Lasers. , 2018, , .		1
232	Theoretical and experimental investigations of time-dependent degenerate four-wave mixing in semiconductors. Physical Review A, 1991, 44, 628-635.	1.0	0
233	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
234	Solitary wave emission from a non-linear waveguide with a PTS cladding. Optical and Quantum Electronics, 1998, 30, 673-685.	1.5	0

#	Article	IF	Citations
235	Numerical investigations of cavity mode instabilities induced by a Gaussian gain medium. Optics Communications, 1999, 172, 103-112.	1.0	0
236	LASER PHYSICS: Getting to Grips with Light. Science, 2001, 293, 1265-1267.	6.0	0
237	White Light Takes Shape. Optics and Photonics News, 2006, 17, 37.	0.4	0
238	VUV frequency combs and fundamental limits of intracavity HHG due to ionization dynamics. , 2011, , .		0
239	Operating characteristics of a femtosecond amplification cavity for infrared frequency combs. Physical Review A, 2013, 87, .	1.0	0
240	Dynamics of Microparticles Trapped in a Perfect Vortex Beam. , 2014, , .		0
241	Spiral Phase Matching. , 2014, , .		0
242	Metastable electronic states and nonlinear response for high-intensity optical pulses: erratum. Optica, 2015, 2, 509.	4.8	0
243	Dynamics of optically levitated microparticles in vacuum placed in 2D and 3D optical potentials possessing orbital angular momentum. , 2017, , .		0
244	Optical binding of two microparticles levitated in vacuum. , 2017, , .		0
245	CLEOÂ®/Europe-EQEC 2021 Penrose wave amplification in superfluids of light. , 2021, , .		0
246	Passively Mode Locked 265 nm VECSEL Utilizing All-Intracavity Harmonic Generation. , 2021, , .		0
247	Probing the Nonlinear Optical Response of Nanosuspensions. , 2009, , .		0
248	High harmonic generation with fs frequency combs and limitations due to intracavity plasma dynamics. , 2011, , .		0
249	Effects of linear and nonlinear dispersion on ultrashort pulse generation in solid-state solitary-wave lasers. , 1996, , .		0
250	The role of geometry in nonlocal superfluids.. , 2016, , .		0