

# Govind P Agrawal

## List of Publications by Year in descending order

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719  
papers

26,012  
citations

11608

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17055

122  
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774  
all docs

774  
docs citations

774  
times ranked

11208  
citing authors

#	ARTICLE	IF	CITATIONS
1	Long-Wavelength Semiconductor Lasers. , 1986, , .		1,018
2	Self-phase modulation and spectral broadening of optical pulses in semiconductor laser amplifiers. IEEE Journal of Quantum Electronics, 1989, 25, 2297-2306.	1.0	984
3	Nonlinear optical phenomena in silicon waveguides: modeling and applications. Optics Express, 2007, 15, 16604.	1.7	774
4	Modulation instability induced by cross-phase modulation. Physical Review Letters, 1987, 59, 880-883.	2.9	451
5	Population pulsations and nondegenerate four-wave mixing in semiconductor lasers and amplifiers. Journal of the Optical Society of America B: Optical Physics, 1988, 5, 147.	0.9	375
6	Nonlinear optical properties of one-dimensional semiconductors and conjugated polymers. Physical Review B, 1978, 17, 776-789.	1.1	332
7	Impact of two-photon absorption on self-phase modulation in silicon waveguides. Optics Letters, 2007, 32, 2031.	1.7	314
8	Nonlinear Propagation in Multimode and Multicore Fibers: Generalization of the Manakov Equations. Journal of Lightwave Technology, 2013, 31, 398-406.	2.7	305
9	Phase-shifted fiber Bragg gratings and their application for wavelength demultiplexing. IEEE Photonics Technology Letters, 1994, 6, 995-997.	1.3	286
10	Soliton fission and supercontinuum generation in silicon waveguides. Optics Letters, 2007, 32, 391.	1.7	283
11	Ultrabroadband parametric generation and wavelength conversion in silicon waveguides. Optics Express, 2006, 14, 4786.	1.7	235
12	Line narrowing in a single-mode injection laser due to external optical feedback. IEEE Journal of Quantum Electronics, 1984, 20, 468-471.	1.0	216
13	Gain nonlinearities in semiconductor lasers: Theory and application to distributed feedback lasers. IEEE Journal of Quantum Electronics, 1987, 23, 860-868.	1.0	211
14	Raman response function for silica fibers. Optics Letters, 2006, 31, 3086.	1.7	209
15	Gaussian beam propagation beyond the paraxial approximation. Journal of the Optical Society of America, 1979, 69, 575.	1.2	207
16	Improved transmission model for metal-dielectric-metal plasmonic waveguides with stub structure. Optics Express, 2010, 18, 6191.	1.7	203
17	Calcium silicate based microspheres of repaglinide for gastroretentive floating drug delivery: Preparation and in vitro characterization. Journal of Controlled Release, 2005, 107, 300-309.	4.8	199
18	Dispersion of silicon nonlinearities in the near infrared region. Applied Physics Letters, 2007, 91, .	1.5	197

#	ARTICLE	IF	CITATIONS
19	Optical properties of one-dimensional semiconductors and conjugated polymers. <i>Physical Review B</i> , 1977, 15, 909-925.	1.1	188
20	Mannosylated solid lipid nanoparticles as vectors for site-specific delivery of an anti-cancer drug. <i>Journal of Controlled Release</i> , 2010, 148, 359-367.	4.8	185
21	Nonlinear fiber optics: its history and recent progress [Invited]. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2011, 28, A1.	0.9	185
22	Do Solitonlike Self-Similar Waves Exist in Nonlinear Optical Media?. <i>Physical Review Letters</i> , 2006, 97, 013901.	2.9	184
23	Optical pulse propagation in doped fiber amplifiers. <i>Physical Review A</i> , 1991, 44, 7493-7501.	1.0	162
24	Photon-pair generation in optical fibers through four-wave mixing: Role of Raman scattering and pump polarization. <i>Physical Review A</i> , 2007, 75, .	1.0	162
25	Nonlinear mechanisms of filamentation in broad-area semiconductor lasers. <i>IEEE Journal of Quantum Electronics</i> , 1996, 32, 590-596.	1.0	161
26	Optical bistability through nonlinear dispersion and absorption. <i>Physical Review A</i> , 1979, 19, 2074-2086.	1.0	155
27	Laser instabilities: a modern perspective. <i>Progress in Quantum Electronics</i> , 1998, 22, 43-122.	3.5	149
28	Optical similaritons in nonlinear waveguides. <i>Optics Letters</i> , 2007, 32, 1659.	1.7	141
29	Modulation instability induced by cross-phase modulation in optical fibers. <i>Physical Review A</i> , 1989, 39, 3406-3413.	1.0	139
30	Adapalene loaded solid lipid nanoparticles gel: An effective approach for acne treatment. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014, 121, 222-229.	2.5	139
31	Spatiotemporal solitons in inhomogeneous nonlinear media. <i>Optics Communications</i> , 2000, 180, 377-382.	1.0	136
32	Gelatin nanocarriers as potential vectors for effective management of tuberculosis. <i>International Journal of Pharmaceutics</i> , 2010, 385, 143-149.	2.6	136
33	Nonlinear pulse distortion in single-mode optical fibers at the zero-dispersion wavelength. <i>Physical Review A</i> , 1986, 33, 1765-1776.	1.0	133
34	Optical-feedback-induced chaos and its control in multimode semiconductor lasers. <i>IEEE Journal of Quantum Electronics</i> , 1994, 30, 668-679.	1.0	130
35	Modeling of distributed feedback semiconductor lasers with axially-varying parameters. <i>IEEE Journal of Quantum Electronics</i> , 1988, 24, 2407-2414.	1.0	128
36	Fast-Fourier-transform based beam-propagation model for stripe-geometry semiconductor lasers: Inclusion of axial effects. <i>Journal of Applied Physics</i> , 1984, 56, 3100-3109.	1.1	126

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37	Development and characterization of hyaluronic acid-anchored PLGA nanoparticulate carriers of doxorubicin. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2007, 3, 246-257.	1.7	126
38	Raman-induced spectral shifts in optical fibers: general theory based on the moment method. <i>Optics Communications</i> , 2003, 222, 413-420.	1.0	125
39	Reflection and transmission of electromagnetic waves at a temporal boundary. <i>Optics Letters</i> , 2014, 39, 574.	1.7	123
40	Temporal and spectral effects of cross-phase modulation on copropagating ultrashort pulses in optical fibers. <i>Physical Review A</i> , 1989, 40, 5063-5072.	1.0	118
41	Vector theory of stimulated Raman scattering and its application to fiber-based Raman amplifiers. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2003, 20, 1616.	0.9	118
42	Broadly tunable femtosecond parametric oscillator using a photonic crystal fiber. <i>Optics Letters</i> , 2005, 30, 1234.	1.7	116
43	Propagation-induced polarization changes in partially coherent optical beams. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2000, 17, 2019.	0.8	114
44	Dispersion tailoring and soliton propagation in silicon waveguides. <i>Optics Letters</i> , 2006, 31, 1295.	1.7	112
45	Induced focusing of optical beams in self-defocusing nonlinear media. <i>Physical Review Letters</i> , 1990, 64, 2487-2490.	2.9	111
46	Effect of gain nonlinearities on period doubling and chaos in directly modulated semiconductor lasers. <i>Applied Physics Letters</i> , 1986, 49, 1013-1015.	1.5	108
47	An insight on hyaluronic acid in drug targeting and drug delivery. <i>Journal of Drug Targeting</i> , 2008, 16, 91-107.	2.1	107
48	Spatiotemporal instabilities in dispersive nonlinear media. <i>Physical Review A</i> , 1992, 46, 4202-4208.	1.0	103
49	What is the Temporal Analog of Reflection and Refraction of Optical Beams?. <i>Physical Review Letters</i> , 2015, 115, 183901.	2.9	102
50	Four-wave mixing and phase conjugation in semiconductor laser media. <i>Optics Letters</i> , 1987, 12, 260.	1.7	98
51	Unified description of ultrafast stimulated Raman scattering in optical fibers. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1996, 13, 2170.	0.9	98
52	Kink solitons and optical shocks in dispersive nonlinear media. <i>Physical Review A</i> , 1992, 46, 1573-1577.	1.0	97
53	Analytic and numerical study of pulse broadening in nonlinear dispersive optical fibers. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1986, 3, 205.	0.9	96
54	Effect of gain and index nonlinearities on single-mode dynamics in semiconductor lasers. <i>IEEE Journal of Quantum Electronics</i> , 1990, 26, 1901-1909.	1.0	96

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55	Theory of intermodal four-wave mixing with random linear mode coupling in few-mode fibers. Optics Express, 2014, 22, 32039.	1.7	96
56	Induced frequency shift of copropagating ultrafast optical pulses. Applied Physics Letters, 1988, 52, 1939-1941.	1.5	95
57	Theory of low-threshold optical switching in nonlinear phase-shifted periodic structures. Journal of the Optical Society of America B: Optical Physics, 1995, 12, 671.	0.9	94
58	Optical solitons in a silicon waveguide. Optics Express, 2007, 15, 7682.	1.7	94
59	Mid-infrared supercontinuum generation using dispersion-engineered Ge <sub>11</sub> As <sub>24</sub> Se <sub>64</sub> chalcogenide channel waveguide. Optics Express, 2015, 23, 6903.	1.7	94
60	Spectral hole burning and gain saturation in semiconductor lasers: Strong signal theory. Journal of Applied Physics, 1988, 63, 1232-1235.	1.1	92
61	Impact of Dispersion Fluctuations on Dual-Pump Fiber-Optic Parametric Amplifiers. IEEE Photonics Technology Letters, 2004, 16, 1292-1294.	1.3	92
62	Record performance of parametric amplifier constructed with highly nonlinear fibre. Electronics Letters, 2003, 39, 838.	0.5	90
63	Amplification of ultrashort solitons in erbium-doped fiber amplifiers. IEEE Photonics Technology Letters, 1990, 2, 875-877.	1.3	88
64	Amplification and compression of weak picosecond optical pulses by using semiconductor-laser amplifiers. Optics Letters, 1989, 14, 500.	1.7	86
65	Stimulated Raman scattering cascade spanning the wavelength range of 523 to 1750 nm using a graded-index multimode optical fiber. Applied Physics Letters, 2013, 102, .	1.5	85
66	Interactions of chirped and chirp-free similaritons in optical fiber amplifiers. Optics Express, 2007, 15, 2963.	1.7	81
67	Changes in the spectrum, in the spectral degree of polarization, and in the spectral degree of coherence of a partially coherent beam propagating through a gradient-index fiber. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2006, 23, 940.	0.8	79
68	Effect of intrapulse stimulated Raman scattering on soliton-effect pulse compression in optical fibers. Optics Letters, 1990, 15, 224.	1.7	77
69	Silicon waveguides for creating quantum-correlated photon pairs. Optics Letters, 2006, 31, 3140.	1.7	76
70	Effects of optical feedback on static and dynamic characteristics of vertical-cavity surface-emitting lasers. IEEE Journal of Selected Topics in Quantum Electronics, 1997, 3, 353-358.	1.9	73
71	Effect of frequency chirping on the performance of optical communication systems. Optics Letters, 1986, 11, 318.	1.7	71
72	Fiber-Optic Communications. , 2008, , 301-348.		71

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73	Dispersive waves emitted by solitons perturbed by third-order dispersion inside optical fibers. <i>Physical Review A</i> , 2009, 79, .	1.0	71
74	Mode-partition noise in vertical-cavity surface-emitting lasers. <i>IEEE Photonics Technology Letters</i> , 1997, 9, 437-439.	1.3	70
75	Vector theory of four-wave mixing: polarization effects in fiber-optic parametric amplifiers. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2004, 21, 1216.	0.9	70
76	Nonlinear Silicon Photonics: Analytical Tools. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2010, 16, 200-215.	1.9	70
77	Effect of gain dispersion on ultrashort pulse amplification in semiconductor laser amplifiers. <i>IEEE Journal of Quantum Electronics</i> , 1991, 27, 1843-1849.	1.0	69
78	A novel calcium silicate based microspheres of repaglinide: In vivo investigations. <i>Journal of Controlled Release</i> , 2006, 113, 111-116.	4.8	69
79	Lateral analysis of quasi-index-guided injection lasers: Transition from gain to index guiding. <i>Journal of Lightwave Technology</i> , 1984, 2, 537-543.	2.7	68
80	Delocalization and superalternation effects in the nonlinear susceptibilities of one-dimensional systems. <i>Chemical Physics Letters</i> , 1976, 44, 366-370.	1.2	67
81	Mode-partition noise and intensity correlation in a two-mode semiconductor laser. <i>Physical Review A</i> , 1988, 37, 2488-2494.	1.0	67
82	Far-field diffraction of pulsed optical beams in dispersive media. <i>Optics Communications</i> , 1999, 167, 15-22.	1.0	67
83	Two-Photon Double-Beam Optical Bistability. <i>Physical Review Letters</i> , 1980, 44, 1058-1061.	2.9	66
84	Modulation performance of a semiconductor laser coupled to an external high-Q resonator. <i>IEEE Journal of Quantum Electronics</i> , 1988, 24, 134-142.	1.0	66
85	Induced focusing and spatial wave breaking from cross-phase modulation in a self-defocusing medium. <i>Optics Letters</i> , 1992, 17, 19.	1.7	66
86	Free-space wave propagation beyond the paraxial approximation. <i>Physical Review A</i> , 1983, 27, 1693-1695.	1.0	65
87	Intensity dependence of the linewidth enhancement factor and its implications for semiconductor lasers. <i>IEEE Photonics Technology Letters</i> , 1989, 1, 212-214.	1.3	65
88	Fibre gratings. <i>Physics World</i> , 1993, 6, 41-48.	0.0	65
89	Spectral shift and distortion due to self-phase modulation of picosecond pulses in 1.5 $\mu$ m optical amplifiers. <i>Applied Physics Letters</i> , 1989, 55, 13-15.	1.5	64
90	Effects of higher-order dispersion on resonant dispersive waves emitted by solitons. <i>Optics Letters</i> , 2009, 34, 2072.	1.7	64

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91	Reduction of Nonlinear Penalties Due to Linear Coupling in Multicore Optical Fibers. IEEE Photonics Technology Letters, 2012, 24, 1574-1576.	1.3	64
92	Channeling of intense electromagnetic beams. Journal of Applied Physics, 1981, 52, 109-125.	1.1	63
93	Modulation instability in erbium-doped fiber amplifiers. IEEE Photonics Technology Letters, 1992, 4, 562-564.	1.3	63
94	Chaotic dynamics of semiconductor lasers with phase-conjugate feedback. Physical Review A, 1994, 49, 2096-2105.	1.0	63
95	Effects of spatial hole burning on gain switching in vertical-cavity surface-emitting lasers. IEEE Journal of Quantum Electronics, 1997, 33, 462-468.	1.0	63
96	Graded-index solitons in multimode fibers. Optics Letters, 2018, 43, 3345.	1.7	63
97	Optical switching in $\pi/4$ -shifted nonlinear periodic structures. Optics Letters, 1994, 19, 1789.	1.7	62
98	Dispersion penalty for 1.3 $\mu$ m lightwave systems with multimode semiconductor lasers. Journal of Lightwave Technology, 1988, 6, 620-625.	2.7	61
99	Modulation bandwidth of high-power single-mode semiconductor lasers: Effect of intraband gain saturation. Applied Physics Letters, 1990, 57, 1-3.	1.5	61
100	Modulational instabilities in dispersion-flattened fibers. Physical Review E, 1995, 52, 1072-1080.	0.8	61
101	Vectorial nonlinear propagation in silicon nanowire waveguides: polarization effects. Journal of the Optical Society of America B: Optical Physics, 2010, 27, 956.	0.9	61
102	Nonlinear switching of optical pulses in fiber bragg gratings. IEEE Journal of Quantum Electronics, 2003, 39, 508-515.	1.0	60
103	Analytical study of optical bistability in silicon ring resonators. Optics Letters, 2010, 35, 55.	1.7	60
104	Effect of gain dispersion and stimulated Raman scattering on soliton amplification in fiber amplifiers. Optics Letters, 1991, 16, 226.	1.7	59
105	Effects of third-order dispersion on dispersion-managed solitons. Journal of the Optical Society of America B: Optical Physics, 1999, 16, 1332.	0.9	59
106	Anisotropic nonlinear response of silicon in the near-infrared region. Applied Physics Letters, 2007, 91, 071113.	1.5	59
107	Theoretical analysis of hot electron dynamics in nanorods. Scientific Reports, 2015, 5, 12140.	1.6	59
108	Self-amplitude-modulation of optical pulses in nonlinear dispersive fibers. Physical Review A, 1987, 36, 3862-3867.	1.0	58

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109	Effect of phase-conjugate feedback on semiconductor laser dynamics. <i>Optics Letters</i> , 1991, 16, 1325.	1.7	58
110	Spatiotemporal instabilities in nonlinear bulk media with Bragg gratings. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2001, 18, 45.	0.9	58
111	Assessment of VCSEL thermal rollover mechanisms from measurements and empirical modeling. <i>Optics Express</i> , 2011, 19, 15490.	1.7	58
112	Spectral and temporal changes of optical pulses propagating through time-varying linear media. <i>Optics Letters</i> , 2011, 36, 505.	1.7	58
113	Beam propagation analysis of stripe geometry semiconductor lasers: Threshold behavior. <i>Applied Physics Letters</i> , 1983, 43, 11-13.	1.5	57
114	Lateral mode analysis of gain-guided and index-guided semiconductor laser arrays. <i>Journal of Applied Physics</i> , 1985, 58, 2922-2931.	1.1	57
115	Semiconductor laser dynamics beyond the rate-equation approximation. <i>Optics Communications</i> , 1995, 119, 246-255.	1.0	57
116	Distributed feedback lasers with multiple phase-shift regions. <i>Applied Physics Letters</i> , 1988, 53, 178-179.	1.5	56
117	Semiconductor laser dynamics for feedback from a finite-penetration-depth phase-conjugate mirror. <i>IEEE Journal of Quantum Electronics</i> , 1997, 33, 838-844.	1.0	56
118	Transfer-matrix analysis of optical bistability in DFB semiconductor laser amplifiers with nonuniform gratings. <i>IEEE Journal of Quantum Electronics</i> , 1997, 33, 2029-2037.	1.0	56
119	Optical wave breaking and pulse compression due to cross-phase modulation in optical fibers. <i>Optics Letters</i> , 1989, 14, 137.	1.7	55
120	Specialty Fibers for Terahertz Generation and Transmission: A Review. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2016, 22, 365-379.	1.9	55
121	Transverse modulation instability of copropagating optical beams in nonlinear Kerr media. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1990, 7, 1072.	0.9	54
122	Spatio-temporal characteristics of filamentation in broad-area semiconductor lasers. <i>IEEE Journal of Quantum Electronics</i> , 1997, 33, 1174-1179.	1.0	53
123	Effective mode area and its optimization in silicon-nanocrystal waveguides. <i>Optics Letters</i> , 2012, 37, 2295.	1.7	53
124	Effect of phase-conjugate feedback on the noise characteristics of semiconductor lasers. <i>Physical Review A</i> , 1992, 46, 5890-5898.	1.0	52
125	Effects of transverse-mode competition on the injection dynamics of vertical-cavity surface-emitting lasers. <i>Quantum and Semiclassical Optics: Journal of the European Optical Society Part B</i> , 1997, 9, 737-747.	1.0	52
126	Purely phase-sampled fiber Bragg gratings for broad-band dispersion and dispersion slope compensation. <i>IEEE Photonics Technology Letters</i> , 2003, 15, 1091-1093.	1.3	52



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127	Suppression of stimulated Brillouin scattering in optical fibers using fiber Bragg gratings. Optics Express, 2003, 11, 3467.	1.7	52
128	Vector Soliton Fission. Physical Review Letters, 2004, 93, 183901.	2.9	52
129	Effects of polarization-mode dispersion on fiber-based parametric amplification and wavelength conversion. Optics Letters, 2004, 29, 1114.	1.7	52
130	Instability due to cross-phase modulation in the normal-dispersion regime. Physical Review E, 1993, 48, 2178-2186.	0.8	51
131	Noise amplification in dispersive nonlinear media. Physical Review A, 1995, 51, 4086-4092.	1.0	51
132	40-gb/s optical switching and wavelength multicasting in a two-pump parametric device. IEEE Photonics Technology Letters, 2005, 17, 2376-2378.	1.3	51
133	Optical switching using nonlinear polarization rotation inside silicon waveguides. Optics Letters, 2009, 34, 476.	1.7	51
134	Self-Phase Modulation in Semiconductor Optical Amplifiers: Impact of Amplified Spontaneous Emission. IEEE Journal of Quantum Electronics, 2010, 46, 1396-1403.	1.0	51
135	Self-focusing of chirped optical pulses in nonlinear dispersive media. Physical Review A, 1994, 49, 4085-4092.	1.0	50
136	Spectrum-induced changes in diffraction of pulsed optical beams. Optics Communications, 1998, 157, 52-56.	1.0	49
137	Dynamics of parametric processes with a trilinear hamiltonian. Journal of Physics A: Mathematical Nuclear and General, 1974, 7, 607-616.	1.0	47
138	Cross-phase modulation and induced focusing due to optical nonlinearities in optical fibers and bulk materials. Journal of the Optical Society of America B: Optical Physics, 1989, 6, 824.	0.9	47
139	Soliton stability and trapping in multimode fibers. Optics Letters, 2015, 40, 225.	1.7	47
140	Evaluation of porous carrier-based floating orlistat microspheres for gastric delivery. AAPS PharmSciTech, 2006, 7, E54-E62.	1.5	45
141	Ultrafast optical switching based on nonlinear polarization rotation in silicon waveguides. Optics Express, 2010, 18, 11514.	1.7	45
142	Tuberculosis: from molecular pathogenesis to effective drug carrier design. Drug Discovery Today, 2012, 17, 760-773.	3.2	45
143	Representation of vector electromagnetic beams. Physical Review A, 1980, 22, 1159-1164.	1.0	44
144	Photon-pair generation by four-wave mixing in optical fibers. Optics Letters, 2006, 31, 1286.	1.7	44

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145	Dispersion engineered Ge <sub>115</sub> As <sub>24</sub> Se <sub>645</sub> nanowire for supercontinuum generation: A parametric study. Optics Express, 2014, 22, 31029.	1.7	44
146	Highly nonlinear fibers. , 2019, , 463-502.		43
147	Timing jitter of ultrashort solitons in high-speed communication systems I General formulation and application to dispersion-decreasing fibers. Journal of the Optical Society of America B: Optical Physics, 1997, 14, 314.	0.9	42
148	Optical Square-Wave Clock Generation Based on an All-Optical Flip-Flop. IEEE Photonics Technology Letters, 2010, 22, 489-491.	1.3	42
149	FDTD modeling of anisotropic nonlinear optical phenomena in silicon waveguides. Optics Express, 2010, 18, 21427.	1.7	42
150	Effect of injection-current fluctuations on the spectral linewidth of semiconductor lasers. Physical Review A, 1988, 37, 2495-2501.	1.0	41
151	Timing jitter of ultrashort solitons in high-speed communication systemsII Control of jitter by periodic optical phase conjugation. Journal of the Optical Society of America B: Optical Physics, 1997, 14, 323.	0.9	41
152	Exact dispersion relation for nonlinear plasmonic waveguides. Physical Review B, 2011, 84, .	1.1	41
153	End correction in the quasi-fast Hankel transform for optical-propagation problems. Optics Letters, 1981, 6, 171.	1.7	40
154	Robust optical control of an optical-amplifier-based flip-flop. Optics Express, 2000, 6, 75.	1.7	40
155	Effects of precompensation and postcompensation on timing jitter in dispersion-managed systems. Optics Letters, 2001, 26, 1131.	1.7	40
156	Nonlinear propagation in silicon-based plasmonic waveguides from the standpoint of applications. Optics Express, 2011, 19, 206.	1.7	40
157	Bistability and hysteresis in phase-conjugated reflectivity. IEEE Journal of Quantum Electronics, 1981, 17, 374-380.	1.0	39
158	All-optical hysteresis control by means of cross-phase modulation in semiconductor optical amplifiers. Journal of the Optical Society of America B: Optical Physics, 2001, 18, 1003.	0.9	39
159	Energy spectrum of a nonstationary ensemble of pulses. Optics Letters, 2004, 29, 394.	1.7	39
160	Raman-Induced timing jitter in dispersion-managed optical communication systems. IEEE Journal of Selected Topics in Quantum Electronics, 2002, 8, 632-639.	1.9	38
161	New approach to pulse propagation in nonlinear dispersive optical media. Journal of the Optical Society of America B: Optical Physics, 2012, 29, 2958.	0.9	38
162	Highly nondegenerate four-wave mixing in semiconductor lasers due to spectral hole burning. Applied Physics Letters, 1987, 51, 302-304.	1.5	37

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163	Noise characteristics and statistics of picosecond Stokes pulses generated in optical fibers through stimulated Raman scattering. IEEE Journal of Quantum Electronics, 1995, 31, 2058-2067.	1.0	37
164	Amplifier-induced crosstalk in multichannel coherent lightwave systems. Electronics Letters, 1987, 23, 1175.	0.5	36
165	Control of optical-feedback-induced laser intensity noise in optical data recording. Optical Engineering, 1993, 32, 739.	0.5	36
166	Feedback-induced chaos and intensity-noise enhancement in vertical-cavity surface-emitting lasers. Journal of the Optical Society of America B: Optical Physics, 1998, 15, 562.	0.9	36
167	Invite paper: Self-imaging in multimode graded-index fibers and its impact on the nonlinear phenomena. Optical Fiber Technology, 2019, 50, 309-316.	1.4	36
168	Analytic evaluation of interference effects on laser output in a Fabry-Pérot resonator. Journal of the Optical Society of America, 1981, 71, 515.	1.2	35
169	Power spectrum of directly modulated single-mode semiconductor lasers: Chirp-induced fine structure. IEEE Journal of Quantum Electronics, 1985, 21, 680-686.	1.0	35
170	Electromagnetic-field distribution in loaded unstable resonators. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1985, 2, 731.	0.8	35
171	Spectrum of partially coherent light: transition from near to far zone. Optics Communications, 1990, 78, 1-6.	1.0	35
172	Role of dispersion profile in controlling emission of dispersive waves by solitons in supercontinuum generation. Optics Communications, 2010, 283, 3081-3088.	1.0	35
173	Temporal waveguides for optical pulses. Journal of the Optical Society of America B: Optical Physics, 2016, 33, 1112.	0.9	35
174	Optical bistability in coupled-cavity semiconductor lasers. Journal of Applied Physics, 1984, 56, 664-669.	1.1	34
175	Noise propagation from pump to secondary lasers. Optics Letters, 1987, 12, 806.	1.7	34
176	Concept of linewidth enhancement factor in semiconductor lasers: its usefulness and limitations. IEEE Photonics Technology Letters, 1993, 5, 640-642.	1.3	34
177	Maxwell-Bloch formulation for semiconductors: Effects of coherent Coulomb exchange. Physical Review A, 1995, 51, 4132-4139.	1.0	34
178	Dispersion of cascaded fiber gratings in WDM lightwave systems. Journal of Lightwave Technology, 1998, 16, 1523-1529.	2.7	34
179	Effects of Polarization-Mode Dispersion on Cross-Phase Modulation in Dispersion-Managed Wavelength-Division-Multiplexed Systems. Journal of Lightwave Technology, 2004, 22, 977-987.	2.7	34
180	WAVE PROPAGATION IN OPTICAL FIBERS. , 1989, , 26-50.		34

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181	16 Gbit/s, 70 km pulse transmission by simultaneous dispersion and loss compensation with 1.5 $\mu$ m optical amplifiers. Electronics Letters, 1989, 25, 603.	0.5	33
182	Wolf effect in homogeneous and inhomogeneous media. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1990, 7, 2184.	0.8	33
183	Surface-Modified Mesoporous Ceramics as Delivery Vehicle for Haemoglobin. Drug Delivery, 2004, 11, 193-199.	2.5	33
184	Cavity QED analysis of an exciton-plasmon hybrid molecule via the generalized nonlocal optical response method. Physical Review B, 2017, 95, .	1.1	33
185	Gordon's Haus timing jitter in dispersion-managed systems with lumped amplification: analytical approach. Journal of the Optical Society of America B: Optical Physics, 2002, 19, 640.	0.9	32
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187	Effects of Polarization-Mode Dispersion in Dual-Pump Fiber-Optic Parametric Amplifiers. IEEE Photonics Technology Letters, 2004, 16, 431-433.	1.3	32
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