

Govind P Agrawal

List of Publications by Year in descending order

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Version: 2024-02-01

719
papers

26,012
citations

11608

70
h-index

17055

122
g-index

774
all docs

774
docs citations

774
times ranked

11208
citing authors

#	ARTICLE	IF	CITATIONS
1	Temporal reflection of an optical pulse from a short soliton: impact of Raman scattering. Journal of the Optical Society of America B: Optical Physics, 2022, 39, 1950.	0.9	5
2	Pulse compression. , 2021, , 255-308.		0
3	Directional couplers. , 2021, , 57-107.		0
4	Optical signal processing. , 2021, , 369-417.		0
5	Fiber gratings. , 2021, , 1-55.		0
6	Fiber-optic communications. , 2021, , 309-368.		1
7	Power optimization for phase quantization with SOAs using the gain extinction ratio. Optics Express, 2021, 29, 1545.	1.7	1
8	Quantum applications. , 2021, , 481-532.		0
9	Robustness of Dual-Pump-Induced Ultrahigh Repetition Rate Pulse Trains Against Input Power Fluctuations. , 2021, , .		0
10	Fiber lasers. , 2021, , 193-254.		0
11	Temporal reflection and refraction of optical pulses inside a dispersive medium: an analytic approach. Journal of the Optical Society of America B: Optical Physics, 2021, 38, 997.	0.9	10
12	Coupled-mode theory of the polarization dynamics inside a microring resonator with a uniaxial core. Physical Review A, 2021, 103, .	1.0	6
13	Propagation of Gaussian Schell-model beams in modulated graded-index media. Optics Express, 2021, 29, 21240.	1.7	6
14	Time-domain Fabry-Pérot resonators formed inside a dispersive medium. Journal of the Optical Society of America B: Optical Physics, 2021, 38, 2376.	0.9	9
15	Role of frequency dependence of the nonlinearity on a soliton's evolution in photonic crystal fibers. Optics Letters, 2021, 46, 3921.	1.7	1
16	Impact of the boundary's sharpness on temporal reflection in dispersive media. Optics Letters, 2021, 46, 4053.	1.7	5
17	Role of the modal composition of pump in the multi-peak Brillouin gain spectrum in a few-mode fiber. Optics Communications, 2021, 494, 127052.	1.0	2
18	Highly nonlinear fibers. , 2021, , 419-479.		2

#	ARTICLE	IF	CITATIONS
19	Fiber amplifiers. , 2021, , 143-192.		1
20	Fiber interferometers. , 2021, , 109-141.		0
21	Vector modulation instability in birefringent graded-index multimode fibers. Journal of the Optical Society of America B: Optical Physics, 2021, 38, 201.	0.9	1
22	Propagation of partially coherent beams in longitudinally modulated graded-index fibers. , 2021, , .		0
23	Design of an X-cut thin-film lithium niobate waveguide as a passive polarization rotator. Optics Express, 2021, 29, 44174.	1.7	3
24	Effect of an input beam's shape and curvature on the nonlinear effects in graded-index fibers. Journal of the Optical Society of America B: Optical Physics, 2020, 37, 858.	0.9	3
25	A Fourier processor for partially coherent fields. OSA Continuum, 2020, 3, 2843.	1.8	3
26	Metamaterial-Enabled Distributed Feedback Lasing without a Diffraction Grating. , 2020, , .		0
27	Phase detection through four-wave mixing in an optical fiber. Optical Engineering, 2020, 59, .	0.5	0
28	Multimode fibers. , 2019, , 621-683.		3
29	Supercontinuum generation. , 2019, , 557-620.		0
30	Pulse propagation in fibers. , 2019, , 27-55.		5
31	Group-velocity dispersion. , 2019, , 57-84.		1
32	Self-phase modulation. , 2019, , 85-125.		2
33	Optical solitons. , 2019, , 127-187.		0
34	Polarization effects. , 2019, , 189-244.		3
35	Cross-phase modulation. , 2019, , 245-295.		1
36	Stimulated Raman scattering. , 2019, , 297-354.		0

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37	Four-wave mixing. , 2019, , 401-462.		5
38	Highly nonlinear fibers. , 2019, , 463-502.		43
39	Novel nonlinear phenomena. , 2019, , 503-556.		1
40	A time-to-frequency converter for measuring the shape of short optical pulses. Review of Scientific Instruments, 2019, 90, 083106.	0.6	1
41	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
42	Fate of a Soliton in a High Order Spatial Mode of a Multimode Fiber. Physical Review Letters, 2019, 122, 023901.	2.9	28
43	Averaged nonlinear equations for multimode fibers valid in all regimes of random linear coupling. Optical Fiber Technology, 2019, 48, 123-127.	1.4	17
44	Supercontinuum generation in seven-core fibers. Journal of the Optical Society of America B: Optical Physics, 2019, 36, 2927.	0.9	10
45	Spatio-temporal enhancement of Raman-induced frequency shifts in graded-index multimode fibers. Optics Letters, 2019, 44, 2637.	1.7	17
46	Fraunhofer diffraction and the state of polarization of partially coherent electromagnetic beams. Optics Letters, 2019, 44, 3330.	1.7	10
47	Soliton supermode transitions and total red shift suppression in multi-core fibers. Optics Letters, 2019, 44, 4159.	1.7	7
48	Distributed feedback lasing based on a negative-index metamaterial waveguide. Optics Letters, 2019, 44, 4586.	1.7	4
49	Soliton Dynamics in Multi-Core Fibers: Supermode Transitions and Raman-Shift Suppression. , 2019, , .		0
50	Celebrating the tenth anniversary of Advances in Optics and Photonics: editorial. Advances in Optics and Photonics, 2019, 11, ED1.	12.1	2
51	A message from the outgoing Editor-in-Chief: editorial. Advances in Optics and Photonics, 2019, 11, ED24.	12.1	0
52	Recent Developments in Modal Analysis of Elliptical Waveguides. , 2018, , .		0
53	Vector solitons and dispersive waves in birefringent optical fibers. Journal of the Optical Society of America B: Optical Physics, 2018, 35, 2302.	0.9	16
54	Cross-phase-modulation-induced temporal reflection and waveguiding of optical pulses. Journal of the Optical Society of America B: Optical Physics, 2018, 35, 436.	0.9	19

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55	Complete characterization of the spasing (L-L) curve of a three-level quantum coherence enhanced spaser for design optimization. <i>Applied Physics Letters</i> , 2018, 112, .	1.5	24
56	Graded-index solitons in multimode fibers. <i>Optics Letters</i> , 2018, 43, 3345.	1.7	63
57	Nonlinear propagation equations for arbitrary levels of random linear coupling between modes. , 2018, , .		0
58	Degree of polarization in the focal region of a lens. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2018, 35, 1518.	0.8	6
59	Controlling the degree of polarization of partially coherent electromagnetic beams with lenses. <i>Optics Letters</i> , 2018, 43, 2344.	1.7	18
60	Intermodal Raman Scattering of Ultrashort Pulses in Multimode Fibers. , 2018, , .		1
61	Soliton dynamics in photonic-crystal fibers with frequency-dependent Kerr nonlinearity. <i>Physical Review A</i> , 2018, 98, .	1.0	28
62	Femtosecond pulse trains through dual pumping of optical fibers: role of third-order dispersion. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2018, 35, 1733.	0.9	7
63	Nonlinear interaction of vector solitons inside birefringent optical fibers. <i>Physical Review A</i> , 2018, 98, .	1.0	14
64	Nonlinearity of Optical Fibers: A tutorial. , 2018, , .		2
65	Light Sources based on Multiple Solitons in Segmented Fiber Amplifiers. , 2018, , .		0
66	Dynamics and detection of the Newton-Wigner time delays at interfaces using a swivelling method. <i>Scientific Reports</i> , 2017, 7, 9083.	1.6	5
67	Perturbed dissipative solitons: A variational approach. <i>Physical Review A</i> , 2017, 96, .	1.0	15
68	Effect of Raman scattering on soliton interactions in optical fibers. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2017, 34, 1247.	0.9	17
69	Estimation of the blackbody-radiation shift due to the Stark effect for the microwave Cd+113 ion clock. <i>Physical Review A</i> , 2017, 96, .	1.0	8
70	Cavity QED analysis of an exciton-plasmon hybrid molecule via the generalized nonlocal optical response method. <i>Physical Review B</i> , 2017, 95, .	1.1	33
71	Temporal reflection as a spectral-broadening mechanism in dual-pumped dispersion-decreasing fibers and its connection to dispersive waves. <i>Physical Review A</i> , 2017, 95, .	1.0	6
72	Soliton Mitosis Across a Zero-Nonlinearity Wavelength in Photonic Crystal Fibers. , 2017, , .		0

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73	Fourier processing with partially coherent fields. <i>Optics Letters</i> , 2017, 42, 4600.	1.7	21
74	Determination of modes of elliptical waveguides with ellipse transformation perturbation theory. <i>Optica</i> , 2017, 4, 1510.	4.8	10
75	Intermodal Suppression of Spectral Broadening in Normal Dispersion Few-Mode Fibers. , 2017, , .		0
76	Frequency downshifting of perturbed dissipative solitons: A variational approach. , 2017, , .		0
77	Single-pulse interference caused by temporal reflection at moving refractive-index boundaries. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2017, 34, 2274.	0.9	7
78	Raman-Shift Suppression and Soliton Splitting in Photonic Crystal Fibers with Nonlinear Dispersion. , 2017, , .		0
79	Temporal Waveguiding of Optical Pulses. , 2017, , .		0
80	Accurate Calculation of Modal Refractive Indices in Slightly Elliptical Optical Fibers. , 2017, , .		0
81	Design of all-optical, hot-electron current-direction-switching device based on geometrical asymmetry. <i>Scientific Reports</i> , 2016, 6, 21470.	1.6	10
82	Temporal waveguides for optical pulses. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2016, 33, 1112.	0.9	35
83	Spectral Splitting of Optical Pulses Inside a Dispersive Medium at a Temporal Boundary. <i>IEEE Journal of Quantum Electronics</i> , 2016, 52, 1-8.	1.0	15
84	Implications of a zero-nonlinearity wavelength in photonic crystal fibers doped with silver nanoparticles. <i>Physical Review A</i> , 2016, 94, .	1.0	24
85	Theoretical analysis of hot electron injection from metallic nanotubes into a semiconductor interface. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 18227-18236.	1.3	14
86	Stomach specific polymeric low density microballoons as a vector for extended delivery of rabeprazole and amoxicillin for treatment of peptic ulcer. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016, 141, 268-277.	2.5	23
87	Design of a Polymer-Based Hollow-Core Bandgap Fiber for Low-Loss Terahertz Transmission. <i>IEEE Photonics Technology Letters</i> , 2016, 28, 1703-1706.	1.3	9
88	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
89	Ultrashort Pulse Propagation in Nonlinear Dispersive Fibers. , 2016, , 101-133.		3
90	Optical Communication: Its History and Recent Progress. , 2016, , 177-199.		25

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91	Intermodal soliton interaction in nearly degenerate modes of a multimode fiber. Journal of the Optical Society of America B: Optical Physics, 2016, 33, 2217.	0.9	17
92	Dynamics of soliton cascades in fiber amplifiers. Optics Letters, 2016, 41, 5198.	1.7	15
93	Supercontinuum Generation in Photonic Crystal Fibers with Longitudinally Varying Dispersion Using Dual-Wavelength Pumping. , 2016, , .		0
94	Multiphoton interactions in nonlinear optical waveguides. , 2016, , .		0
95	Removing pulse jitter with temporal waveguides. , 2016, , .		0
96	Formation of Cascading Solitons in Fiber Amplifiers. , 2016, , .		0
97	Soliton Interaction in Nearly Degenerate Modes of a Multimode Fiber. , 2016, , .		0
98	Experimental Demonstration of Reflection and Refraction of Optical Pulses from Temporal Boundaries. , 2016, , .		0
99	Controlling Dispersive Waves through Zero-Nonlinearity Wavelength in Silver Doped Photonic Crystal Fiber. , 2016, , .		0
100	What is the Temporal Analog of Reflection and Refraction of Optical Beams?. Physical Review Letters, 2015, 115, 183901.	2.9	102
101	Low-loss dielectric-loaded graphene surface plasmon polariton waveguide based biochemical sensor. Journal of Applied Physics, 2015, 117, .	1.1	30
102	Soliton Stability in Multimode Fibers. , 2015, , .		0
103	Ultrabroadband mid-infrared supercontinuum generation through dispersion engineering of chalcogenide microstructured fibers. Journal of the Optical Society of America B: Optical Physics, 2015, 32, 2343.	0.9	26
104	Characterizing the Optical Response of Symmetric Hemispherical Nano-dimers. Plasmonics, 2015, 10, 1453-1466.	1.8	10
105	A broadband mid-infrared supercontinuum generation using Ge _{11.5} As ₂₄ Se _{64.5} channel waveguide. , 2015, , .		0
106	Plastic fiber design for THz generation through wavelength translation. Optics Letters, 2015, 40, 2107.	1.7	10
107	Mid-infrared supercontinuum generation using dispersion-engineered Ge _{11.5} As ₂₄ Se _{64.5} chalcogenide channel waveguide. Optics Express, 2015, 23, 6903.	1.7	94
108	Polarization phenomena in nonlinear optical fibers griffon tutorial. , 2015, , .		0

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109	Soliton stability and trapping in multimode fibers. Optics Letters, 2015, 40, 225.	1.7	47
110	Yb: fiber laser-based, spectrally coherent and efficient generation of femtosecond 13- $\frac{1}{4}$ m pulses from a fiber with two zero-dispersion wavelengths. Optics Letters, 2015, 40, 3631.	1.7	10
111	Theoretical analysis of hot electron dynamics in nanorods. Scientific Reports, 2015, 5, 12140.	1.6	59
112	Dual-pump frequency comb generation in normally dispersive optical fibers. Journal of the Optical Society of America B: Optical Physics, 2015, 32, 1705.	0.9	25
113	Spectral changes induced by a phase modulator acting as a time lens. Journal of the Optical Society of America B: Optical Physics, 2015, 32, 1550.	0.9	9
114	Temporal Analog of Reflection and Refraction at a Temporal Boundary. , 2015, , .		1
115	Compensation of self-phase modulation through linear coupling in nonlinear directional fiber couplers. , 2015, , .		0
116	Effect of random linear mode coupling on intermodal four-wave mixing in few-mode fibers. , 2014, , .		4
117	Reflection and transmission of electromagnetic waves at a temporal boundary. Optics Letters, 2014, 39, 574.	1.7	123
118	Soliton stability in multimode fibers. , 2014, , .		0
119	Advances in Optics and Photonics First Impact Factor 9688: Editorial. Advances in Optics and Photonics, 2014, 6, ED3.	12.1	0
120	Efficient Terahertz Generation in a Novel Microstructured-Core Double Clad Plastic Fiber. , 2014, , .		0
121	Message from the Incoming Editor: Editorial. Advances in Optics and Photonics, 2014, 6, ED1.	12.1	0
122	Electrically pumped hybrid plasmonic waveguide. Optics Express, 2014, 22, 2681.	1.7	28
123	Dispersion engineered Ge ₁₁₅ As ₂₄ Se ₆₄₅ nanowire for supercontinuum generation: A parametric study. Optics Express, 2014, 22, 31029.	1.7	44
124	Theory of intermodal four-wave mixing with random linear mode coupling in few-mode fibers. Optics Express, 2014, 22, 32039.	1.7	96
125	Parametric stimulated two-photon emission through a biphotonic cascade. Physical Review A, 2014, 90, .	1.0	1
126	Nonlinear Limits of SDM Transmission. , 2014, , .		4

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127	Propagation of Optical Pulses in Dynamic Media: A Time Transformation Method. , 2014, , .		0
128	Quasi-static analysis of controllable optical cross-sections of a layered nanoparticle with a sandwiched gain layer. Journal of Optics (United Kingdom), 2014, 16, 075003.	1.0	18
129	Dielectric function of spherical dome shells with quantum size effects. Optics Express, 2014, 22, 11966.	1.7	19
130	Dual Targeted Polymeric Nanoparticles Based on Tumor Endothelium and Tumor Cells for Enhanced Antitumor Drug Delivery. Molecular Pharmaceutics, 2014, 11, 697-715.	2.3	30
131	Adapalene loaded solid lipid nanoparticles gel: An effective approach for acne treatment. Colloids and Surfaces B: Biointerfaces, 2014, 121, 222-229.	2.5	139
132	Optical Fibers. , 2014, , 1-25.		0
133	Low-Loss Hollow Core Plastic Photonic Band-Gap Fiber for Efficient THz Transmission. , 2014, , .		3
134	Nonlinear phase shifts in a two-core fiber. , 2014, , .		0
135	Nonlinear Propagation in Multimode and Multicore Fibers: Generalization of the Manakov Equations. Journal of Lightwave Technology, 2013, 31, 398-406.	2.7	305
136	Galactose decorated PLGA nanoparticles for hepatic delivery of acyclovir. Drug Development and Industrial Pharmacy, 2013, 39, 1866-1873.	0.9	28
137	Stimulated Raman scattering cascade spanning the wavelength range of 523 to 1750nm using a graded-index multimode optical fiber. Applied Physics Letters, 2013, 102, .	1.5	85
138	All-Optical Semiconductor Optical Amplifier-Based Wavelength Converters With Sub-mW Pumping. IEEE Photonics Technology Letters, 2013, 25, 78-80.	1.3	8
139	Optical Solitons. , 2013, , 129-191.		14
140	Time-transformation approach to pulse propagation in nonlinear dispersive media: Inclusion of delayed Raman nonlinearity. Physical Review A, 2013, 87, .	1.0	16
141	Polarization Effects. , 2013, , 193-244.		4
142	Characteristics of photonic crystal fibers designed with an annular core using a single material. Applied Optics, 2013, 52, 3088.	0.9	2
143	Nonlinear Performance of SDM Systems Designed with Multimode or Multicore Fibers. , 2013, , .		9
144	Propagation of few-cycle pulses in nonlinear Kerr media: harmonic generation. Optics Letters, 2013, 38, 724.	1.7	11

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145	Design of an efficient mid-IR light source using chalcogenide holey fibers: a numerical study. Journal of Optics (United Kingdom), 2013, 15, 035205.	1.0	31
146	SRS-mediated generation of new wavelengths from 523 nm to 1750 nm in a graded-index multimode optical fiber. , 2013, , .		0
147	Basic emergence of dispersive and nonlinear effects in fibers for supercontinuum generation by ultrashort pulses. , 2013, , .		0
148	Time transformation approach to nonlinear pulse propagation: Kerr and delayed Raman response. , 2013, , .		0
149	Propagation of few-cycle pulses in nonlinear Kerr media: Harmonic generation. , 2013, , .		1
150	Nanowires geometry dependence of coupling properties of a hybrid directional coupler. , 2012, , .		0
151	Effective third-order susceptibility of silicon-nanocrystal-doped silica. Optics Express, 2012, 20, 26275.	1.7	20
152	Design of phase-switched two-input Kerr flip-flops. Journal of the Optical Society of America B: Optical Physics, 2012, 29, 2288.	0.9	4
153	Parametric gain control of a pulse in birefringent photonic crystal fibers. Physical Review A, 2012, 86, .	1.0	2
154	Reduction of Nonlinear Penalties Due to Linear Coupling in Multicore Optical Fibers. IEEE Photonics Technology Letters, 2012, 24, 1574-1576.	1.3	64
155	Nonlinear pulse propagation: A timeâ€“transformation approach. Optics Letters, 2012, 37, 1271.	1.7	19
156	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
157	Impact of photon lifetime on thermal rollover in 850-nm high-speed VCSELs. Proceedings of SPIE, 2012, , .	0.8	2
158	Proposal of two-input, phase-switched, all-optical flip flops. , 2012, , .		0
159	Guided plasmonic modes of anisotropic slot waveguides. Nanotechnology, 2012, 23, 444006.	1.3	26
160	Transverse localization of light and its dependence on the phase front curvature of the input beam in a disordered optical waveguide lattice. Journal of Optics (United Kingdom), 2012, 14, 075701.	1.0	12
161	Birefringence effects in space-division multiplexed fiber transmission systems: Generalization of Manakov equation. , 2012, , .		4
162	Double-Liposomeâ€“Based Dual-Drug Delivery System as Vectors for Effective Management of Peptic Ulcer. Journal of Liposome Research, 2012, 22, 205-214.	1.5	15

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163	Phase-Switched All-Optical Flip-Flops Using Two-Input Bistable Resonators. IEEE Photonics Technology Letters, 2012, 24, 479-481.	1.3	13
164	Effective mode area and its optimization in silicon-nanocrystal waveguides. Optics Letters, 2012, 37, 2295.	1.7	53
165	Reduction of nonlinear impairments in coupled-core multicore optical fibers. , 2012, , .		6
166	Geometrical dependence of the coupling properties of hybrid Nanowire directional couplers.. , 2012, , .		0
167	Plasmonic Modes of Metamaterial-Based Slot Waveguides. Advances in OptoElectronics, 2012, 2012, 1-5.	0.6	2
168	Tuberculosis: from molecular pathogenesis to effective drug carrier design. Drug Discovery Today, 2012, 17, 760-773.	3.2	45
169	Impact of Device Parameters on Thermal Performance of High-Speed Oxide-Confined 850-nm VCSELs. IEEE Journal of Quantum Electronics, 2012, 48, 17-26.	1.0	20
170	Interband Four-Wave Mixing in Semiconductor Optical Amplifiers With ASE-Enhanced Gain Recovery. IEEE Journal of Selected Topics in Quantum Electronics, 2012, 18, 899-908.	1.9	26
171	A new approach to pulse propagation in nonlinear optical media. , 2012, , .		0
172	All-Optical Phase Control of a Square-Wave Photonic Clock. IEEE Photonics Technology Letters, 2011, 23, 405-407.	1.3	1
173	Observation of spectral and temporal polarization oscillations of optical pulses in a silicon nanowaveguide. Applied Physics Letters, 2011, 99, .	1.5	1
174	Optical pulse propagation in dynamic Fabry-Pérot resonators. Journal of the Optical Society of America B: Optical Physics, 2011, 28, 1685.	0.9	11
175	Dynamic mode theory of optical resonators undergoing refractive index changes. Journal of the Optical Society of America B: Optical Physics, 2011, 28, 2207.	0.9	24
176	Polarization-dependent spectral broadening of femtosecond pulses in silicon waveguides. Journal of the Optical Society of America B: Optical Physics, 2011, 28, 2383.	0.9	2
177	Nonlinear fiber optics: its history and recent progress [Invited]. Journal of the Optical Society of America B: Optical Physics, 2011, 28, A1.	0.9	185
178	Exact dispersion relation for nonlinear plasmonic waveguides. Physical Review B, 2011, 84, .	1.1	41
179	Nonlinear propagation in silicon-based plasmonic waveguides from the standpoint of applications. Optics Express, 2011, 19, 206.	1.7	40
180	Dynamics of Raman soliton during supercontinuum generation near the zero-dispersion wavelength of optical fibers. Optics Express, 2011, 19, 10443.	1.7	27

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181	Assessment of VCSEL thermal rollover mechanisms from measurements and empirical modeling. Optics Express, 2011, 19, 15490.	1.7	58
182	Spectral and temporal changes of optical pulses propagating through time-varying linear media. Optics Letters, 2011, 36, 505.	1.7	58
183	Efficient adiabatic wavelength conversion in Gires-Tournois resonators. Optics Letters, 2011, 36, 4155.	1.7	10
184	Maximization of Gain in Slow-Light Silicon Raman Amplifiers. International Journal of Optics, 2011, 2011, 1-7.	0.6	7
185	Localization of light in evanescently coupled disordered waveguide lattices: Dependence on the input beam profile. Optics Communications, 2011, 284, 201-206.	1.0	21
186	Nonlinear pulse propagation inside coupled silicon nanowires. , 2011, , .		0
187	Nonlinear interactions of optical pulses in slow-mode nanowires. , 2011, , .		1
188	Adiabatic wavelength conversion in travelling-wave and resonant photonic structures. , 2011, , .		0
189	Impact of chirp on spectral recoil of solitons in a defect-core photonic crystal fiber with two zero-dispersion wavelengths. , 2011, , .		0
190	Observation of soliton attraction and repulsion phenomena for monotonous dispersion slope under normal group velocity dispersion pumping. Proceedings of SPIE, 2010, , .	0.8	0
191	Software Package. , 2010, , ii.		0
192	Role of dispersion profile in controlling emission of dispersive waves by solitons inside optical fibers. Proceedings of SPIE, 2010, , .	0.8	0
193	Raman Amplification and Tunable Pulse Delays in Silicon Waveguides. , 2010, , .		0
194	Parabolic pulse generation in a dispersion-decreasing solid-core photonic bandgap Bragg fiber. Optics Communications, 2010, 283, 2525-2528.	1.0	10
195	Self-Phase Modulation in Semiconductor Optical Amplifiers: Impact of Amplified Spontaneous Emission. IEEE Journal of Quantum Electronics, 2010, 46, 1396-1403.	1.0	51
196	Impact of Self-Phase Modulation on Instabilities in Fiber Lasers. IEEE Journal of Quantum Electronics, 2010, 46, 1732-1738.	1.0	16
197	Nonlinear Silicon Photonics: Analytical Tools. IEEE Journal of Selected Topics in Quantum Electronics, 2010, 16, 200-215.	1.9	70
198	Optimization of Raman Amplification in Silicon Waveguides With Finite Facet Reflectivities. IEEE Journal of Selected Topics in Quantum Electronics, 2010, 16, 226-233.	1.9	13

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199	Mannosylated solid lipid nanoparticles as vectors for site-specific delivery of an anti-cancer drug. Journal of Controlled Release, 2010, 148, 359-367.	4.8	185
200	Gelatin nanocarriers as potential vectors for effective management of tuberculosis. International Journal of Pharmaceutics, 2010, 385, 143-149.	2.6	136
201	Role of dispersion profile in controlling emission of dispersive waves by solitons in supercontinuum generation. Optics Communications, 2010, 283, 3081-3088.	1.0	35
202	Self-Induced Temporal and Spectral Polarization Changes in Silicon Nanowire Waveguides. , 2010, , .		0
203	Numerical modeling of optical pulse propagation in silicon waveguides: The finite-difference time-domain approach. , 2010, , .		0
204	Pulse amplification in semiconductor optical amplifiers with ultrafast gain-recovery times. Proceedings of SPIE, 2010, , .	0.8	11
205	Optical Square-Wave Clock Generation Based on an All-Optical Flip-Flop. IEEE Photonics Technology Letters, 2010, 22, 489-491.	1.3	42
206	Improved transmission model for metal-dielectric-metal plasmonic waveguides with stub structure. Optics Express, 2010, 18, 6191.	1.7	203
207	Ultrafast optical switching based on nonlinear polarization rotation in silicon waveguides. Optics Express, 2010, 18, 11514.	1.7	45
208	Analytical study of pulse amplification in silicon Raman amplifiers. Optics Express, 2010, 18, 18324.	1.7	9
209	FDTD modeling of anisotropic nonlinear optical phenomena in silicon waveguides. Optics Express, 2010, 18, 21427.	1.7	42
210	Theory of negative refraction in periodic stratified metamaterials. Optics Express, 2010, 18, 27916.	1.7	8
211	Analytical study of optical bistability in silicon ring resonators. Optics Letters, 2010, 35, 55.	1.7	60
212	Dependence of dispersive and birefringence properties of silicon nanowires on waveguide dimensions. Optics Letters, 2010, 35, 190.	1.7	11
213	Spectral broadening in ultrafast semiconductor optical amplifiers induced by gain dynamics and self-phase modulation. Optics Letters, 2010, 35, 294.	1.7	4
214	Effect of free carriers on pump-to-signal noise transfer in silicon Raman amplifiers. Optics Letters, 2010, 35, 2343.	1.7	8
215	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
216	Polarization Rotation in Silicon Waveguides: Analytical Modeling and Applications. IEEE Photonics Journal, 2010, 2, 423-435.	1.0	6

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217	Role of Nonlinearity and Transverse Localization of Light in a Disordered Coupled Optical Waveguide Lattice. , 2010, , .		0
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