

Govind P Agrawal

List of Publications by Year in descending order

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Version: 2024-02-01

719
papers

26,012
citations

11651

70
h-index

17105

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. | 2.1 | 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. | 3.4 | 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. | 2.1 | 10 |
| 12 | Coupled-mode theory of the polarization dynamics inside a microring resonator with a uniaxial core. Physical Review A, 2021, 103, . | 2.5 | 6 |
| 13 | Propagation of Gaussian Schell-model beams in modulated graded-index media. Optics Express, 2021, 29, 21240. | 3.4 | 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. | 2.1 | 9 |
| 15 | Role of frequency dependence of the nonlinearity on a soliton's evolution in photonic crystal fibers. Optics Letters, 2021, 46, 3921. | 3.3 | 1 |
| 16 | Impact of the boundary's sharpness on temporal reflection in dispersive media. Optics Letters, 2021, 46, 4053. | 3.3 | 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. | 2.1 | 2 |
| 18 | Highly nonlinear fibers. , 2021, , 419-479. | | 2 |

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| 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. | 2.1 | 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. | 3.4 | 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. | 2.1 | 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, . | 1.0 | 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. | 1.3 | 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. | 2.7 | 36 |
| 42 | Fate of a Soliton in a High Order Spatial Mode of a Multimode Fiber. Physical Review Letters, 2019, 122, 023901. | 7.8 | 28 |
| 43 | Averaged nonlinear equations for multimode fibers valid in all regimes of random linear coupling. Optical Fiber Technology, 2019, 48, 123-127. | 2.7 | 17 |
| 44 | Supercontinuum generation in seven-core fibers. Journal of the Optical Society of America B: Optical Physics, 2019, 36, 2927. | 2.1 | 10 |
| 45 | Spatio-temporal enhancement of Raman-induced frequency shifts in graded-index multimode fibers. Optics Letters, 2019, 44, 2637. | 3.3 | 17 |
| 46 | Fraunhofer diffraction and the state of polarization of partially coherent electromagnetic beams. Optics Letters, 2019, 44, 3330. | 3.3 | 10 |
| 47 | Soliton supermode transitions and total red shift suppression in multi-core fibers. Optics Letters, 2019, 44, 4159. | 3.3 | 7 |
| 48 | Distributed feedback lasing based on a negative-index metamaterial waveguide. Optics Letters, 2019, 44, 4586. | 3.3 | 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. | 25.5 | 2 |
| 51 | A message from the outgoing Editor-in-Chief: editorial. Advances in Optics and Photonics, 2019, 11, ED24. | 25.5 | 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. | 2.1 | 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. | 2.1 | 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, . | 3.3 | 24 |
| 56 | Graded-index solitons in multimode fibers. <i>Optics Letters</i> , 2018, 43, 3345. | 3.3 | 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. | 1.5 | 6 |
| 59 | Controlling the degree of polarization of partially coherent electromagnetic beams with lenses. <i>Optics Letters</i> , 2018, 43, 2344. | 3.3 | 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, . | 2.5 | 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. | 2.1 | 7 |
| 63 | Nonlinear interaction of vector solitons inside birefringent optical fibers. <i>Physical Review A</i> , 2018, 98, . | 2.5 | 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. | 3.3 | 5 |
| 67 | Perturbed dissipative solitons: A variational approach. <i>Physical Review A</i> , 2017, 96, . | 2.5 | 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. | 2.1 | 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, . | 2.5 | 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, . | 3.2 | 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, . | 2.5 | 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. | 3.3 | 21 |
| 74 | Determination of modes of elliptical waveguides with ellipse transformation perturbation theory. <i>Optica</i> , 2017, 4, 1510. | 9.3 | 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. | 2.1 | 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. | 3.3 | 10 |
| 82 | Temporal waveguides for optical pulses. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2016, 33, 1112. | 2.1 | 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. | 1.9 | 15 |
| 84 | Implications of a zero-nonlinearity wavelength in photonic crystal fibers doped with silver nanoparticles. <i>Physical Review A</i> , 2016, 94, . | 2.5 | 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. | 2.8 | 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. | 5.0 | 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. | 2.5 | 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. | 2.9 | 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. | 2.1 | 17 |
| 92 | Dynamics of soliton cascades in fiber amplifiers. Optics Letters, 2016, 41, 5198. | 3.3 | 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. | 7.8 | 102 |
| 101 | Low-loss dielectric-loaded graphene surface plasmon polariton waveguide based biochemical sensor. Journal of Applied Physics, 2015, 117, . | 2.5 | 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. | 2.1 | 26 |
| 104 | Characterizing the Optical Response of Symmetric Hemispherical Nano-dimers. Plasmonics, 2015, 10, 1453-1466. | 3.4 | 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. | 3.3 | 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. | 3.4 | 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. | 3.3 | 47 |
| 110 | Yb: fiber laser-based, spectrally coherent and efficient generation of femtosecond 13- μ m pulses from a fiber with two zero-dispersion wavelengths. Optics Letters, 2015, 40, 3631. | 3.3 | 10 |
| 111 | Theoretical analysis of hot electron dynamics in nanorods. Scientific Reports, 2015, 5, 12140. | 3.3 | 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. | 2.1 | 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. | 2.1 | 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. | 3.3 | 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. | 25.5 | 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. | 25.5 | 0 |
| 122 | Electrically pumped hybrid plasmonic waveguide. Optics Express, 2014, 22, 2681. | 3.4 | 28 |
| 123 | Dispersion engineered Ge ₁₁ As ₂₄ Se ₆₄ nanowire for supercontinuum generation: A parametric study. Optics Express, 2014, 22, 31029. | 3.4 | 44 |
| 124 | Theory of intermodal four-wave mixing with random linear mode coupling in few-mode fibers. Optics Express, 2014, 22, 32039. | 3.4 | 96 |
| 125 | Parametric stimulated two-photon emission through a biphotonic cascade. Physical Review A, 2014, 90, . | 2.5 | 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. | 2.2 | 18 |
| 129 | Dielectric function of spherical dome shells with quantum size effects. Optics Express, 2014, 22, 11966. | 3.4 | 19 |
| 130 | Dual Targeted Polymeric Nanoparticles Based on Tumor Endothelium and Tumor Cells for Enhanced Antitumor Drug Delivery. Molecular Pharmaceutics, 2014, 11, 697-715. | 4.6 | 30 |
| 131 | Adapalene loaded solid lipid nanoparticles gel: An effective approach for acne treatment. Colloids and Surfaces B: Biointerfaces, 2014, 121, 222-229. | 5.0 | 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. | 4.6 | 305 |
| 136 | Galactose decorated PLGA nanoparticles for hepatic delivery of acyclovir. Drug Development and Industrial Pharmacy, 2013, 39, 1866-1873. | 2.0 | 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, . | 3.3 | 85 |
| 138 | All-Optical Semiconductor Optical Amplifier-Based Wavelength Converters With Sub-mW Pumping. IEEE Photonics Technology Letters, 2013, 25, 78-80. | 2.5 | 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, . | 2.5 | 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. | 1.8 | 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. | 3.3 | 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. | 2.2 | 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. | 3.4 | 20 |
| 152 | Design of phase-switched two-input Kerr flip-flops. Journal of the Optical Society of America B: Optical Physics, 2012, 29, 2288. | 2.1 | 4 |
| 153 | Parametric gain control of a pulse in birefringent photonic crystal fibers. Physical Review A, 2012, 86, . | 2.5 | 2 |
| 154 | Reduction of Nonlinear Penalties Due to Linear Coupling in Multicore Optical Fibers. IEEE Photonics Technology Letters, 2012, 24, 1574-1576. | 2.5 | 64 |
| 155 | Nonlinear pulse propagation: A timeâ€“transformation approach. Optics Letters, 2012, 37, 1271. | 3.3 | 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. | 2.1 | 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. | 2.6 | 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. | 2.2 | 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. | 3.3 | 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. | 2.5 | 13 |
| 164 | Effective mode area and its optimization in silicon-nanocrystal waveguides. Optics Letters, 2012, 37, 2295. | 3.3 | 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. | 6.4 | 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. | 1.9 | 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. | 2.9 | 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. | 2.5 | 1 |
| 173 | Observation of spectral and temporal polarization oscillations of optical pulses in a silicon nanowaveguide. Applied Physics Letters, 2011, 99, . | 3.3 | 1 |
| 174 | Optical pulse propagation in dynamic Fabry-Pérot resonators. Journal of the Optical Society of America B: Optical Physics, 2011, 28, 1685. | 2.1 | 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. | 2.1 | 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. | 2.1 | 2 |
| 177 | Nonlinear fiber optics: its history and recent progress [Invited]. Journal of the Optical Society of America B: Optical Physics, 2011, 28, A1. | 2.1 | 185 |
| 178 | Exact dispersion relation for nonlinear plasmonic waveguides. Physical Review B, 2011, 84, . | 3.2 | 41 |
| 179 | Nonlinear propagation in silicon-based plasmonic waveguides from the standpoint of applications. Optics Express, 2011, 19, 206. | 3.4 | 40 |
| 180 | Dynamics of Raman soliton during supercontinuum generation near the zero-dispersion wavelength of optical fibers. Optics Express, 2011, 19, 10443. | 3.4 | 27 |

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| 181 | Assessment of VCSEL thermal rollover mechanisms from measurements and empirical modeling. Optics Express, 2011, 19, 15490. | 3.4 | 58 |
| 182 | Spectral and temporal changes of optical pulses propagating through time-varying linear media. Optics Letters, 2011, 36, 505. | 3.3 | 58 |
| 183 | Efficient adiabatic wavelength conversion in Gires-Tournois resonators. Optics Letters, 2011, 36, 4155. | 3.3 | 10 |
| 184 | Maximization of Gain in Slow-Light Silicon Raman Amplifiers. International Journal of Optics, 2011, 2011, 1-7. | 1.4 | 7 |
| 185 | Localization of light in evanescently coupled disordered waveguide lattices: Dependence on the input beam profile. Optics Communications, 2011, 284, 201-206. | 2.1 | 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. | 2.1 | 10 |
| 195 | Self-Phase Modulation in Semiconductor Optical Amplifiers: Impact of Amplified Spontaneous Emission. IEEE Journal of Quantum Electronics, 2010, 46, 1396-1403. | 1.9 | 51 |
| 196 | Impact of Self-Phase Modulation on Instabilities in Fiber Lasers. IEEE Journal of Quantum Electronics, 2010, 46, 1732-1738. | 1.9 | 16 |
| 197 | Nonlinear Silicon Photonics: Analytical Tools. IEEE Journal of Selected Topics in Quantum Electronics, 2010, 16, 200-215. | 2.9 | 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. | 2.9 | 13 |

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| 199 | 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. | 9.9 | 185 |
| 200 | Gelatin nanocarriers as potential vectors for effective management of tuberculosis. <i>International Journal of Pharmaceutics</i> , 2010, 385, 143-149. | 5.2 | 136 |
| 201 | Role of dispersion profile in controlling emission of dispersive waves by solitons in supercontinuum generation. <i>Optics Communications</i> , 2010, 283, 3081-3088. | 2.1 | 35 |
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