Vasantha Jayakantha Raja R

List of Publications by Year in descending order

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566801 525886 68 761 15 27 citations h-index g-index papers 68 68 68 446 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	All-Optical Photonic Crystal Fiber Couplers. , 2022, , .		O
2	Modeling nonlinear high-pressure sensors based on degenerate four-wave mixing in photonic crystal fibers. Applied Optics, 2022, 61, 2591.	0.9	1
3	Generation of High Power Ultrashort Pulses in Tapered Yb-Doped PCF Through Self-Similar Compression. IEEE Journal of Quantum Electronics, 2022, 58, 1-8.	1.0	O
4	Self-Similar Compression of Low Power Solitons at 800Ânm Using Chloroform Infiltrated Taper Photonic Crystal Fiber. Springer Proceedings in Physics, 2021, , 387-390.	0.1	0
5	Pulse compression and pedestal suppression by self-similar propagation in nonlinear optical loop mirror. Optics Communications, 2020, 474, 126083.	1.0	3
6	Pulse compression in Nonlinear optical loop mirror through self-similar propagation. , 2020, , .		0
7	Detecting hemoglobin content blood glucose using surface plasmon resonance in D-shaped photonic crystal fiber. Optical Fiber Technology, 2019, 50, 132-138.	1.4	52
8	Picosecond Fundamental Soliton Pulse Compression in Self-similarly designed Chalcogenide Taper Photonic Crystal Fiber. , $2019, , .$		0
9	Degenerate four-wave mixing for measurement of magnetic field using a nanoparticles-doped highly nonlinear photonic crystal fiber. Applied Optics, 2019, 58, 333.	0.9	18
10	Degenerate four-wave mixing based temperature sensor in As2S3 PCF., 2019,,.		0
11	Simultaneous Measurement of Salinity and Temperature in Gold-Coated D-Shaped Photonic Crystal Fiber Using Four-Wave Mixing Technique. , 2018, 2, 1-4.		10
12	Generation of low power and ultrashort laser pulses at 800 nm through soliton compression in chloroform-infiltrated cascaded photonic crystal fibers. Journal of Applied Physics, 2018, 124, .	1.1	8
13	Logic gates based all-optical binary half adder using triple core photonic crystal fiber. Journal of Optics (United Kingdom), 2018, 20, 065503.	1.0	6
14	Ultra Sensitive Nonlinear Fiber Optics-Based Refractive Index Sensor Using Degenerate Four Wave Mixing Technique in Photonic Crystal Fiber. IEEE Sensors Journal, 2018, 18, 6607-6614.	2.4	15
15	Highly efficient compact temperature sensor using liquid infiltrated asymmetric dual elliptical core photonic crystal fiber. Optical Materials, 2017, 64, 574-582.	1.7	72
16	Highly Sensitive Nonlinear Temperature Sensor Based on Modulational Instability Technique in Liquid Infiltrated Photonic Crystal Fiber. IEEE Sensors Journal, 2017, 17, 3720-3727.	2.4	37
17	Temperature Varied Photonic Crystal Fiber for Two-Stage Non-Integer Soliton Compression. , 2017, , .		O
18	Effect of temperature on modulational instability in normal region of CS $<$ inf $>$ 2 $<$ /inf $>$ core photonic crystal fiber with delayed nonlinear response. , 2017, , .		O

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19	Temperature tunable supercontinuum spectrum in visible region using water-core PCF., 2016,,.		O
20	Tunable Broadband Spectrum Under the Influence of Temperature in IR Region Using CS <inline-formula> <tex-math notation="LaTeX">\$_2\$</tex-math> </inline-formula> Core Photonic Crystal Fiber. Journal of Lightwave Technology, 2016, 34, 3503-3509.	2.7	11
21	Effect of Temperature on Supercontinuum Generation in Water-Core Photonic Crystal Fiber. IEEE Photonics Technology Letters, 2016, 28, 1209-1212.	1.3	7
22	Influence of geometrical asymmetry on logical output of a triple core PCF., 2016,,.		0
23	Sea water salinity sensor based on modulational instability technique using photonic crystal fiber. , $2016, \ldots$		O
24	Tunable Supercontinuum Spectrum Using CS _2 Core Photonic Crystal Fiber. , 2016, , .		0
25	An all-optical NOT logic operation based on a chloroform filled geometrically asymmetric triangular triple-core PCF. , 2015, , .		1
26	A novel design of PCF for supercontinuum source to detect oral cancer using OCT., 2015,,.		1
27	Effect of cladding parameters on supercontinuum generation in water core photonic crystal fiber. , 2015, , .		O
28	Tuning bandwidth of white light laser in novel dispersion decreasing fiber., 2015,,.		0
29	Effect of two zero dispersion wavelengths on supercontinuum generation in CS <inf>2</inf> cored photonic crystal fiber., 2015, , .		1
30	A projection operator approach for computing the dynamics of AS2S3chalcogenide birefringent photonic crystal fiber coupler. Journal of Optics (United Kingdom), 2015, 17, 025504.	1.0	1
31	Soliton fission and supercontinuum generation in photonic crystal fibre for optical coherence tomography application. Pramana - Journal of Physics, 2015, 85, 993-1007.	0.9	7
32	Impact of structural asymmetry on the efficiency of triple-core photonic crystal fiber for all-optical logic operation. Journal of the Optical Society of America B: Optical Physics, 2015, 32, 1920.	0.9	11
33	Power play in the supercontinuum spectra of saturable nonlinear media. Laser Physics, 2014, 24, 045405.	0.6	9
34	Implementation of All Optical NOR and OR Logic Gates using Asymmetric Triple Core PCF. , 2014, , .		0
35	Impact of higher-order dispersion in the modulational instability spectrum of a relaxing coupled saturable media. Pramana - Journal of Physics, 2014, 82, 339-345.	0.9	9
36	Design of Highly Nonlinear Photonic Crystal Fiber for Highly Scattering Tissue Optical Coherence Tomography Applications. , 2014, , .		0

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37	Effect of Chirp on Supercontinuum Generation in Chloroform filled Photonic Crystal Fiber with two Zero Dispersion Wavelengths. , 2014 , , .		2
38	A theoretical investigation of soliton induced supercontinuum generation in liquid core photonic crystal fiber and dual core optical fiber. European Physical Journal: Special Topics, 2013, 222, 625-640.	1.2	1
39	Realization of all-optical logic gates through three core photonic crystal fiber. Optics Communications, 2013, 296, 124-131.	1.0	30
40	Realizing a robust optical pulse compressor operating at 850 nm using a photonic crystal fiber. Journal of Modern Optics, 2013, 60, 368-377.	0.6	5
41	Impact of material absorption on supercontinuum generation in liquid core photonic crystal fiber. , 2013, , .		O
42	All optical AND and NAND logic gates based on a triple core photonic crystal fiber. , 2013, , .		O
43	A colloquium on the influence of versatile class of saturable nonlinear responses in the instability induced supercontinuum generation. Optical Fiber Technology, 2013, 19, 348-358.	1.4	25
44	Designing a class of asymmetric twin core photonic crystal fibers for switching and multi-frequency generation. Optical Fiber Technology, 2013, 19, 556-564.	1.4	12
45	Investigation of all optical pulse steering through a highly nonlinear chalcogenide twin core photonic crystal fiber. , 2013, , .		2
46	Modulational instability in a twin-core fiber with the effect of saturable nonlinear response and coupling coefficient dispersion. Physical Review A, 2013, 87, .	1.0	48
47	Supercontinuum generation in the novel semiconductor doped dispersion decreasing fiber., 2013,,.		O
48	Theoretical investigation of modulational instability in semiconductor doped dispersion decreasing fiber and its cutting edge over the existing fiber systems. Journal of the Optical Society of America B: Optical Physics, 2013, 30, 178.	0.9	27
49	Observation of two state behavior in the Instability induced Supercontinuum Generation of exponential saturable nonlinearity., 2013,,.		O
50	Influence of Material Absorption on Supercontinuum Generation in Photonic Crystal Fibers., 2012,,.		O
51	Modulational instability at the proximity of zero dispersion wavelength in the relaxing saturable nonlinear system. Journal of the Optical Society of America B: Optical Physics, 2012, 29, 2803.	0.9	26
52	Interplay between saturation and relaxation of nonlinear response in the modulational instability of various nonlinear media. , 2012 , , .		1
53	Investigation of optical pulse coupling through the nitrobenzene filled photonic crystal fiber coupler — A projection operator approach. , 2012, , .		O
54	Modulational instability with higher-order dispersion and walk-off in Kerr media with cross-phase modulation. Physical Review A, 2012, 86, .	1.0	41

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55	All-Optical Steering of Light Through Nonlinear Twin-Core Photonic Crystal Fiber Coupler at 850 nm. Journal of Lightwave Technology, 2012, 30, 2110-2116.	2.7	13
56	A Unique Behavior of Pump power in the Modulational Instability Spectra of Saturable Nonlinear Media. , 2012, , .		0
57	Soliton-induced supercontinuum generation in liquid-filled photonic crystal fibre. Pramana - Journal of Physics, 2011, 77, 959-974.	0.9	5
58	Efficient Pulse Compression Using Tapered Photonic Crystal Fiber at 850 nm. IEEE Journal of Quantum Electronics, 2010, 46, 1795-1803.	1.0	33
59	Modeling photonic crystal fiber for efficient soliton pulse propagation at 850 nm. Optics Communications, 2010, 283, 5000-5006.	1.0	23
60	Stability of trapless Bose–Einstein condensates with two- and three-body interactions. Journal of Physics B: Atomic, Molecular and Optical Physics, 2010, 43, 125302.	0.6	32
61	The contribution of reorientational nonlinearity of CS 2 liquid in supercontinuum generation. , 2010, , \cdot		O
62	Modulational-instability-induced supercontinuum generation with saturable nonlinear response. Physical Review A, 2010, 82, .	1.0	59
63	Efficient pulse compression in photonic crystal fibre at 850 nm. , 2010, , .		O
64	Supercontinuum generation in liquid-filled photonic crystal fiber with slow nonlinear response. Journal of the Optical Society of America B: Optical Physics, 2010, 27, 1763.	0.9	58
65	Design and Simulation for Ultra High Soliton Pulse Compression through Photonic Crystal Fiber. AIP Conference Proceedings, 2008, , .	0.3	1
66	Numerical Investigation on Soliton Pulse Propagation in Photonic Crystal Fiber. , 2008, , .		0
67	A fully vectorial effective index method to analyse the propagation properties of microstructured fiber. Photonics and Nanostructures - Fundamentals and Applications, 2007, 5, 171-177.	1.0	35
68	Low pedestal sub-17 fs pulse generation through cascaded self-similar compression in photonic crystal ï¬bers. Journal of Optics (United Kingdom), 0, , .	1.0	2