S P Ojha

List of Publications by Year
in descending order

70 papers	538 citations	758635 12 h-index	794141 19 g-index
72 all docs	72 docs citations	72 times ranked	88 citing authors

#	Article	IF	Citations
1	Analysis of the guidance of electromagnetic waves by a deformed planar waveguide with parabolic cylindrical boundaries. Journal of Applied Physics, 1992, 71, 5685-5688.	1.1	40
2	A Mathematically Rigorous Cutoff Analysis of Parabolic Cylindrical Waveguides. Journal of the Physical Society of Japan, 1992, 61, 3874-3877.	0.7	28
3	Modal propagation analysis of a waveguide with a regular pentagonal cross section with conducting and nonconducting boundaries. Microwave and Optical Technology Letters, 1995, 8, 280-282.	0.9	28
4	Modal cutoff condition for an optical waveguide with a hypocycloidal cross section. Microwave and Optical Technology Letters, 1997, 14, 177-180.	0.9	26
5	Modal Analysis and Waveguide Dispersion of an Optical Waveguide Having a cross-section of the Shape of a Cardioid. Journal of Electromagnetic Waves and Applications, 2006, 20, 1021-1035.	1.0	24
6	Electromagnetic wave propagation through a dielectric guide having Piet Hein cross-sectional geometry. Microwave and Optical Technology Letters, 1996, 12, 250-254.	0.9	22
7	Metal-clad optical waveguides with cardioid-shaped cross sections and their modal characteristics. Microwave and Optical Technology Letters, 1997, 16, 271-275.	0.9	19
8	Weak Guidance in Bent and Unbent Four-Layer Planar Waveguides-A Comparative Study of Dispersion Curves. Japanese Journal of Applied Physics, 1992, 31, L39-L42.	0.8	18
9	THEORETICAL ANALYSIS AND DISPERSION CURVES OF AN ANNULAR LIGHT GUIDE WITH A CROSS-SECTION BOUNDED BY TWO PIET-HEIN CURVES. Journal of Electromagnetic Waves and Applications, 2003, 17, 1025-1036.	1.0	18
10	Two Channel Thermally Tunable Band-Stop Filter for Wavelength Selective Switching Applications by Using 1D Ternary Superconductor Photonic Crystal. Journal of Superconductivity and Novel Magnetism, 2015, 28, 1937-1942.	0.8	16
11	Operating characteristics of an optical filter in metallic photonic bandgap materials. Microwave and Optical Technology Letters, 2002, 35, 68-71.	0.9	14
12	An analytical investigation of the dispersion characteristic of a lightguide with an annular core cross section bounded by two cardioids. Microwave and Optical Technology Letters, 1999, 23, 221-224.	0.9	13
13	Temperature-dependent tuning of photonic band gaps for wavelength-selective switching applications. Indian Journal of Physics, 2016, 90, 353-358.	0.9	13
14	Modal characteristics of a doubly clad step-index optical fibre: a general analytical approach. Canadian Journal of Physics, 1988, 66, 796-802.	0.4	12
15	Design of an ultraviolet filter based on photonic band-gap materials. Microwave and Optical Technology Letters, 2002, 33, 308-314.	0.9	12
16	Reflection and anomalous behavior of refractive index in defect photonic band gap structure. Microwave and Optical Technology Letters, 2003, 38, 293-297.	0.9	12
17	Group velocity, negative and ultra-high index of refraction in photonic band gap materials. Microwave and Optical Technology Letters, 2004, 42, 82-87.	0.9	12
18	Design of a nano-layered tunable optical filter. Journal of Modern Optics, 2006, 53, 1739-1752.	0.6	12

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19	Design of an optical filter as a monochromatic selector from atomic emissions. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1992, 9, 1007.	0.8	11
20	A theoretical analysis of the propagation characteristics of an annular circular waveguide with a helical winding as the inner cladding. Microwave and Optical Technology Letters, 2003, 37, 69-74.	0.9	11
21	Analysis of the modal characteristics of a Bragg fiber with a small number of claddings using a very simple analytical approach. Microwave and Optical Technology Letters, 2005, 46, 271-275.	0.9	11
22	OMNIDIRECTIONAL HIGH REFLECTOR FOR INFRARED WAVELENGTH. Journal of Infrared, Millimeter and Terahertz Waves, 2007, 27, 1257-1268.	0.6	11
23	On electromagnetic wave propagation in an optical fiber having a core radius with a periodic axial variation. Microwave and Optical Technology Letters, 1996, 11, 335-339.	0.9	10
24	Modal cutoff conditions of a hypocycloidal waveguide with various types of metal loading on the core boundaries. Microwave and Optical Technology Letters, 1998, 19, 152-158.	0.9	10
25	MODAL DISPERSION CHARACTERISTICS AND WAVEGUIDE DISPERSION OF AN OPTICAL WAVEGUIDE HAVING A NEW UNCONVENTIONAL CORE CROSS-SECTION. Journal of Electromagnetic Waves and Applications, 2004, 18, 455-468.	1.0	9
26	Effect of pitch angle on modal propagation characteristics of an annular circular dielectric waveguide having helical windings on the inner and outer boundaries as claddings. Microwave and Optical Technology Letters, 2002, 33, 338-344.	0.9	8
27	A comparative study of modal dispersion characteristics of different types of concave-lens-shaped dielectric waveguides. Microwave and Optical Technology Letters, 2002, 35, 337-342.	0.9	8
28	An Optical Waveguide with a Hypocycloidal Core Cross-Section having a Conducting Sheath Helical Winding on the Core-Cladding Boundary â€" A Comparative Modal Dispersion study vis-a-vis a Standard Fiber with a Sheath Winding. Journal of Electromagnetic Waves and Applications, 2005, 19, 1307-1326.	1.0	8
29	Modal behavior, cutoff condition, and dispersion characteristics of an optical waveguide with a core cross section bounded by two spirals. Microwave and Optical Technology Letters, 1999, 21, 121-124.	0.9	7
30	Effect of axial sinusoidal size variation on the modal characteristics of an annular optical fiber. Microwave and Optical Technology Letters, 2001, 31, 211-214.	0.9	7
31	Modal cutoff conditions for a chirowaveguide with a chiral core of large annular cross section bounded by dielectric media. Microwave and Optical Technology Letters, 1995, 8, 18-21.	0.9	6
32	Weak guidance modal dispersion characteristics of an optical waveguide having a core with a sinusoidally varying gear-shaped cross section. Microwave and Optical Technology Letters, 1999, 22, 129-133.	0.9	6
33	Tunneling properties of electromagnetic wave in slab superconducting material. Optoelectronics Letters, 2011, 7, 277-281.	0.4	6
34	Modal cutoff of an optical waveguide having a lemniscate of Bernoulli-type core cross section. Microwave and Optical Technology Letters, 1997, 14, 170-172.	0.9	5
35	Modal cutoff conditions for a waveguide having an annular guiding region with a parabolically graded refractive-index profile. Microwave and Optical Technology Letters, 1999, 22, 167-171.	0.9	5
36	Cutoff conditions of an annular dielectric waveguide with an exponentially decaying refractive-index profile in the guiding region. Microwave and Optical Technology Letters, 1999, 22, 226-229.	0.9	5

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37	Study of a circularly bent slab waveguide as a limiting case of a waveguide of large annular cross section. Microwave and Optical Technology Letters, 1995, 10, 102-104.	0.9	4
38	Comparative Aspects of a Metal Loaded Triangular Waveguide with Uniform and Non-Uniform Distribution of Goell's Matching Points. IETE Journal of Research, 1995, 41, 217-220.	1.8	4
39	Weak guidance modal dispersion curves of an optical waveguide having a double-convex-lens cross section. Microwave and Optical Technology Letters, 1999, 22, 314-317.	0.9	4
40	An analytical study of the cutoff conditions and the dispersion curves of a waveguide with a cross-sectional shape resembling an ellipse compressed along the minor axis. Microwave and Optical Technology Letters, 1999, 22, 426-429.	0.9	4
41	Operating characteristics of an optical filter with a linearly periodic refractive index pattern in the range of ultraviolet light. Microwave and Optical Technology Letters, 1999, 23, 36-38.	0.9	4
42	Weak guidance modal analysis of an infrared lightguide with a four-lobed core cross section. Microwave and Optical Technology Letters, 1999, 23, 163-166.	0.9	4
43	An analytical study of the cutoff conditions and dispersion curves of an optical fiber with a core slightly flattened on one side. Microwave and Optical Technology Letters, 2001, 29, 136-139.	0.9	4
44	Towards dispersion characteristics for a new unconventional metalâ€clad optical waveguide. Microwave and Optical Technology Letters, 2007, 49, 2709-2713.	0.9	4
45	A comparative study of the modal dispersion curves of fibers with different degrees of metal loading on the core-cladding interfaces. Microwave and Optical Technology Letters, 2000, 26, 54-57.	0.9	3
46	Modal analysis and dispersion curves of an annular waveguide having a guiding-region cross section bounded by two lemniscates of Bernoulli. Microwave and Optical Technology Letters, 2001, 28, 75-78.	0.9	3
47	Theoretically obtained dispersion characteristics of an annular waveguide with a guiding region cross section bounded by two hypocycloidal loops. Microwave and Optical Technology Letters, 2003, 37, 142-145.	0.9	3
48	Optical dispersion curves of two metal-clad lightguides having double convex lens core cross sections. Microwave and Optical Technology Letters, 2000, 24, 229-232.	0.9	2
49	Effect of Metal Cladding on the Modal Dispersion Characteristic of an Annular Waveguide with the Guiding Region Section Bounded by a Square and a Circle. Journal of Electromagnetic Waves and Applications, 2004, 18, 1157-1169.	1.0	2
50	Design of a digitally tunable optical filter system for wavelength-selective-switching - based optical networks. Journal of Optical Networking, 2005, 4, 691.	2.5	2
51	A near infrared optical reflector using one-dimensional photonic crystal structure containing chalcogenide glasses. Optoelectronics Letters, 2010, 6, 406-411.	0.4	2
52	On the characteristics of polarization-maintaining fibers with the beat-length measurement technique. Microwave and Optical Technology Letters, 1996, 13, 288-290.	0.9	1
53	Effect of axial linear and sinusoidal variation of the core refractive index on the propagation of some low-order modes in an optical fiber. Microwave and Optical Technology Letters, 2001, 28, 265-267.	0.9	1
54	Compensating and equivalence properties of optical waveguides with a linear and sinusoidal variation of the core refractive index and core size along the propagation direction. Microwave and Optical Technology Letters, 2001, 28, 326-328.	0.9	1

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55	Weak guidance analysis of the modal characteristics and waveguide dispersion of a new lightguide with a lemniscate of Bernoulli-type core cross section. Microwave and Optical Technology Letters, 2002, 32, 211-216.	0.9	1
56	A comparative study of different types of dielectric trapezoid optical waveguides under weak guidance approximation. Microwave and Optical Technology Letters, 2002, 32, 461-464.	0.9	1
57	EFFECT OF INNER CLADDING THICKNESS ON THE MODAL DISPERSION CHARACTERISTICS OF ANNULAR-CIRCULAR HELICAL WAVEGUIDES. Journal of Electromagnetic Waves and Applications, 2004, 18, 517-528.	1.0	1
58	Chiral and magnetic effects on the dispersion curves of an annular waveguide. Microwave and Optical Technology Letters, 1997, 15, 74-78.	0.9	0
59	Correction to ?Modal cutoff of an optical waveguide having a lemniscate of Bernoulli-type core cross section?. Microwave and Optical Technology Letters, 1997, 16, 325-325.	0.9	0
60	Correction to ?Modal behavior, cutoff condition, and dispersion characteristics of an optical waveguide with a core cross section bounded by two spirals?. Microwave and Optical Technology Letters, 2000, 24, 210-211.	0.9	0
61	Erratum to ?design of an ultraviolet filter based on photonic band-gap materials?. Microwave and Optical Technology Letters, 2003, 36, 147-147.	0.9	0
62	Correction to ?An analytical investigation of the dispersion characteristic of a lightguide with an annular core cross section bounded by two cardioids?. Microwave and Optical Technology Letters, 2003, 36, 231-231.	0.9	0
63	Modal dispersion curves of metal-clad concave lens shaped waveguides and their comparative study. Microwave and Optical Technology Letters, 2003, 36, 388-392.	0.9	0
64	Correction to ?optical dispersion curves of two metal-clad lightguides having double convex lens core cross-sections?. Microwave and Optical Technology Letters, 2003, 38, 514-515.	0.9	0
65	Erratum to ?Effect of axial linear and sinusoidal variation of the core refractive index on the propagation of some low order modes in an optical fiber?. Microwave and Optical Technology Letters, 2003, 39, 348-348.	0.9	0
66	Erratum to ?Compensating and equivalence properties of optical waveguides with a linear and sinusoidal variation of the core refractive index and core size along the propagation direction?. Microwave and Optical Technology Letters, 2003, 39, 348-348.	0.9	0
67	Erratum to ?a comparative study of modal dispersion characteristics of different types of concave-lens-shaped dielectric waveguides?. Microwave and Optical Technology Letters, 2003, 39, 522-522.	0.9	0
68	Reply to â€œRemark on Group Velocity, Negative and Ultra-High Index of Refraction in Photonic Band Gap Materialsâ€• Microwave and Optical Technology Letters, 2005, 46, 94-95.	0.9	0
69	Ultrafast switching property in one dimensional defect photonic crystals. , 2009, , .		0
70	Effect of Distortions on an Annular Optical Fiber Waveguide. Journal of Russian Laser Research, 2014, 35, 224-229.	0.3	0