

Ravindra K Sinha

List of Publications by Year in descending order

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119
papers

3,356
citations

136740

32
h-index

161609

54
g-index

120
all docs

120
docs citations

120
times ranked

3546
citing authors

#	ARTICLE	IF	CITATIONS
1	A comparative assessment of human exposure to tetrabromobisphenol A and eight bisphenols including bisphenol A via indoor dust ingestion in twelve countries. <i>Environment International</i> , 2015, 83, 183-191.	4.8	218
2	Rapid detection of <i>Escherichia coli</i> using fiber optic surface plasmon resonance immunosensor based on biofunctionalized Molybdenum disulfide (MoS ₂) nanosheets. <i>Biosensors and Bioelectronics</i> , 2019, 126, 501-509.	5.3	145
3	White light emission and color tunability of dysprosium doped barium silicate glasses. <i>Journal of Luminescence</i> , 2016, 169, 121-127.	1.5	139
4	High-Q All-Dielectric Metasurface: Super and Suppressed Optical Absorption. <i>ACS Photonics</i> , 2020, 7, 1436-1443.	3.2	137
5	Assessing seasonal and spatial trends of persistent organic pollutants (POPs) in Indian agricultural regions using PUF disk passive air samplers. <i>Environmental Pollution</i> , 2011, 159, 646-653.	3.7	128
6	Design of all optical logic gates in photonic crystal waveguides. <i>Optik</i> , 2015, 126, 950-955.	1.4	112
7	Broadband Mid-Infrared Supercontinuum Spectra Spanning 2-15 μ m Using As ₂ Se ₃ Chalcogenide Glass Triangular-Core Graded-Index Photonic Crystal Fiber. <i>Journal of Lightwave Technology</i> , 2015, 33, 3914-3920.	2.7	97
8	Organophosphate esters in indoor dust from 12 countries: Concentrations, composition profiles, and human exposure. <i>Environment International</i> , 2019, 133, 105178.	4.8	92
9	Synthetic Phenolic Antioxidants and Their Metabolites in Indoor Dust from Homes and Microenvironments. <i>Environmental Science & Technology</i> , 2016, 50, 428-434.	4.6	91
10	Field Emission with Ultralow Turn On Voltage from Metal Decorated Carbon Nanotubes. <i>ACS Nano</i> , 2014, 8, 7763-7770.	7.3	90
11	Distribution and Relationships of Antimicrobial Resistance Determinants among Extended-Spectrum-Cephalosporin-Resistant or Carbapenem-Resistant <i>Escherichia coli</i> Isolates from Rivers and Sewage Treatment Plants in India. <i>Antimicrobial Agents and Chemotherapy</i> , 2016, 60, 2972-2980.	1.4	87
12	Bioaccumulation profiles of polychlorinated biphenyl congeners and organochlorine pesticides in Ganges river dolphins. <i>Environmental Toxicology and Chemistry</i> , 1999, 18, 1511-1520.	2.2	83
13	Two-dimensional transition metal dichalcogenides assisted biofunctionalized optical fiber SPR biosensor for efficient and rapid detection of bovine serum albumin. <i>Scientific Reports</i> , 2019, 9, 6987.	1.6	82
14	Occurrence and fate of parabens and their metabolites in five sewage treatment plants in India. <i>Science of the Total Environment</i> , 2017, 593-594, 592-598.	3.9	80
15	A survey of cyclic and linear siloxanes in indoor dust and their implications for human exposures in twelve countries. <i>Environment International</i> , 2015, 78, 39-44.	4.8	75
16	Dispersion characteristic of hexagonal and square lattice chalcogenide As ₂ Se ₃ glass photonic crystal fiber. <i>Optics Communications</i> , 2010, 283, 1331-1337.	1.0	71
17	Dispersion properties of photonic crystal fibers. <i>Microwave and Optical Technology Letters</i> , 2003, 37, 129-132.	0.9	68
18	Design, analysis and optimization of silicon-on-insulator photonic crystal dual band wavelength demultiplexer. <i>Optics Communications</i> , 2009, 282, 3889-3894.	1.0	63

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19	Enhanced Field Emission Properties from CNT Arrays Synthesized on Inconel Superalloy. ACS Applied Materials & Interfaces, 2014, 6, 1986-1991.	4.0	57
20	Design and analysis of polarization independent all-optical logic gates in silicon-on-insulator photonic crystal. Optics Communications, 2016, 374, 148-155.	1.0	52
21	Occurrence of perchlorate in indoor dust from the United States and eleven other countries: Implications for human exposure. Environment International, 2015, 75, 166-171.	4.8	51
22	Sources and Accumulation of Butyltin Compounds in Ganges River Dolphin, Platanista gangetica. Applied Organometallic Chemistry, 1997, 11, 223-230.	1.7	50
23	Slow light miniature devices with ultra-flattened dispersion in silicon-on-insulator photonic crystal. Optics Express, 2009, 17, 13315.	1.7	46
24	Ganges River Dolphin: An Overview of Biology, Ecology, and Conservation Status in India. Ambio, 2014, 43, 1029-1046.	2.8	46
25	Design of optical waveguide polarizer using photonic band gap. Optics Express, 2006, 14, 10790.	1.7	45
26	Metal-organic frameworks-derived titanium dioxide-carbon nanocomposite for supercapacitor applications. International Journal of Energy Research, 2020, 44, 6269-6284.	2.2	45
27	Realization of all optical logic gates using universal NAND gates on photonic crystal platform. Superlattices and Microstructures, 2017, 109, 619-625.	1.4	43
28	TiO ₂ nanofibres decorated with green-synthesized P _{Au/Ag} @CQDs for the efficient photocatalytic degradation of organic dyes and pharmaceutical drugs. RSC Advances, 2020, 10, 8941-8948.	1.7	42
29	GAPS-megacities: A new global platform for investigating persistent organic pollutants and chemicals of emerging concern in urban air. Environmental Pollution, 2020, 267, 115416.	3.7	39
30	Broadband mid-IR supercontinuum generation in As ₂ Se ₃ based chalcogenide photonic crystal fiber: A new design and analysis. Optics Communications, 2015, 347, 13-19.	1.0	37
31	Negative axicon tip-based fiber optic interferometer cavity sensor for volatile gas sensing. Optics Express, 2019, 27, 7277.	1.7	37
32	Phase control of nanostructured iron oxide for application to biosensor. Journal of Materials Chemistry B, 2013, 1, 464-474.	2.9	36
33	Coupling Characteristics of Multicore Photonic Crystal Fiber-Based 1, 2, 3, 4 Power Splitters. Journal of Lightwave Technology, 2009, 27, 2062-2068.	2.7	31
34	A label-free fiber optic biosensor for Salmonella Typhimurium detection. Optical Fiber Technology, 2018, 46, 95-103.	1.4	31
35	Extremely high figure of merit in all-dielectric split asymmetric arc metasurface for refractive index sensing. Optics Communications, 2020, 462, 125327.	1.0	31
36	STATUS OF GANGES RIVER DOLPHINS (PLATANISTA GANGETICA) IN THE KARNALI, MAHAKALI, NARAYANI and SAPTA KOSI RIVERS OF NEPAL AND INDIA IN 1993. Marine Mammal Science, 1994, 10, 368-375.	0.9	30

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37	Label-free detection of Escherichia coli bacteria by cascaded chirped long period gratings immunosensor. Review of Scientific Instruments, 2019, 90, 025003.	0.6	30
38	Dispersion Properties of Photonic Crystal Fiber: Comparison by Scalar and Fully Vectorial Effective Index Methods. Optical and Quantum Electronics, 2005, 37, 711-722.	1.5	27
39	Design and modelling of dispersion-engineered rib waveguide for ultra broadband mid-infrared supercontinuum generation. Journal of Modern Optics, 2017, 64, 143-149.	0.6	26
40	Design and analysis of equiangular spiral photonic crystal fiber for mid-infrared supercontinuum generation. Journal of Modern Optics, 2015, 62, 1570-1576.	0.6	25
41	Power penalty analysis for realistic weight functions using differential time delay with higher-order dispersion. Optical Fiber Technology, 2002, 8, 240-255.	1.4	24
42	Deep Seated Negative Axicon in Selective Optical Fiber Tip and Collimated Bessel Beam. IEEE Photonics Technology Letters, 2017, 29, 786-789.	1.3	24
43	Higher-Order Dispersion Compensation by Differential Time Delay. Optical Fiber Technology, 1998, 4, 135-143.	1.4	22
44	Titanium buffer layer for improved field emission of CNT based cold cathode. Applied Surface Science, 2010, 256, 3563-3566.	3.1	22
45	Potential application of mono/bi-layer molybdenum disulfide (MoS ₂) sheet as an efficient transparent conducting electrode in silicon heterojunction solar cells. Journal of Applied Physics, 2016, 120, .	1.1	22
46	Thermal effects in single point diamond turning: Analysis, modeling and experimental study. Measurement: Journal of the International Measurement Confederation, 2017, 102, 96-105.	2.5	22
47	Design and Analysis of Dispersion Engineered Rib Waveguides for On-Chip Mid-Infrared Supercontinuum. Journal of Lightwave Technology, 2018, 36, 1993-1999.	2.7	22
48	Fiber optic Fabry-Perot interferometer sensor: an efficient and fast approach for ammonia gas sensing. Journal of the Optical Society of America B: Optical Physics, 2019, 36, 684.	0.9	22
49	Modeling and design of 2D photonic crystal based Y type dual band wavelength demultiplexer. Optical and Quantum Electronics, 2008, 40, 603-613.	1.5	21
50	Design of highly birefringent chalcogenide glass PCF: A simplest design. Optics Communications, 2011, 284, 1186-1191.	1.0	21
51	High-performance dual cavity-interferometric volatile gas sensor utilizing Graphene/PMMA nanocomposite. Sensors and Actuators B: Chemical, 2020, 312, 127921.	4.0	21
52	Modeling of photonic band gap waveguide couplers. Microwave and Optical Technology Letters, 2004, 43, 47-50.	0.9	20
53	Design of Ultra Compact Polarization Splitter Based on the Complete Photonic Band Gap. Optical and Quantum Electronics, 2005, 37, 889-895.	1.5	19
54	Strategies for realizing photonic crystal fiber bandpass filters. Optics Express, 2008, 16, 9459.	1.7	18

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55	Design of S-Band Erbium-Doped Concentric Dual-Core Photonic Crystal Fiber Amplifiers With ASE Suppression. <i>Journal of Lightwave Technology</i> , 2009, 27, 1725-1733.	2.7	18
56	Improved analysis of dispersion compensation using differential time delay for high-speed long-span optical link. <i>Fiber and Integrated Optics</i> , 1997, 16, 415-426.	1.7	17
57	Experimental verification of improved effective index method for endlessly single mode photonic crystal fiber. <i>Optics and Lasers in Engineering</i> , 2012, 50, 182-186.	2.0	15
58	Investigation of charge-separation/change in dipole moment of 7-azaindole: Quantitative measurement using solvatochromic shifts and computational approaches. <i>Journal of Molecular Liquids</i> , 2017, 231, 39-44.	2.3	15
59	LiTaO ₃ based metamaterial perfect absorber for terahertz spectrum. <i>Superlattices and Microstructures</i> , 2017, 111, 754-759.	1.4	15
60	Design of small core tellurite photonic crystal fiber for slow-light-based application using stimulated Brillouin scattering. <i>Optical Engineering</i> , 2015, 54, 075101.	0.5	14
61	Slow light generation in single-mode tellurite fibers. <i>Journal of Modern Optics</i> , 2015, 62, 508-513.	0.6	14
62	Green synthesized plasmonic nanostructure decorated TiO ₂ nanofibers for photoelectrochemical hydrogen production. <i>Solar Energy</i> , 2019, 193, 715-723.	2.9	14
63	Taxonomic revision of the South Asian River dolphins (<i>Platanista</i>): Indus and Ganges River dolphins are separate species. <i>Marine Mammal Science</i> , 2021, 37, 1022-1059.	0.9	14
64	Slow Light Propagation in Liquid-Crystal Infiltrated Silicon-On-Insulator Photonic Crystal Channel Waveguides. <i>Journal of Lightwave Technology</i> , 2010, 28, 2560-2571.	2.7	13
65	Assessing Dicofol Concentrations in Air: Retrospective Analysis of Global Atmospheric Passive Sampling Network Samples from Agricultural Sites in India. <i>Environmental Science and Technology Letters</i> , 2016, 3, 150-155.	3.9	13
66	Electrochemically Assembled Gold Nanostructures Platform: Electrochemistry, Kinetic Analysis, and Biomedical Application. <i>Journal of Physical Chemistry C</i> , 2014, 118, 6261-6271.	1.5	12
67	Raman amplification characteristics of As ₂ Se ₃ photonic crystal fibers. <i>Optics Letters</i> , 2008, 33, 2431.	1.7	11
68	Design and analysis of photonic crystal biperiodic waveguide structure based optofluidic-gas sensor. <i>Optik</i> , 2015, 126, 5172-5175.	1.4	11
69	Study of Sonication Assisted Synthesis of Molybdenum Disulfide (MoS ₂) Nanosheets. <i>Materials Today: Proceedings</i> , 2020, 21, 1969-1975.	0.9	11
70	Ultrasensitive dual-band terahertz metasurface sensor based on all InSb resonator. <i>Optics Communications</i> , 2022, 522, 128667.	1.0	11
71	Design of a photonic band gap polarizer. <i>Optical Engineering</i> , 2006, 45, 110503.	0.5	10
72	Tunable unidirectional scattering of ellipsoidal single nanoparticle. <i>Journal of Applied Physics</i> , 2016, 119, 243102.	1.1	9

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73	Bioaccumulation profiles of polychlorinated biphenyl congeners and organochlorine pesticides in Ganges river dolphins. , 1999, 18, 1511.		9
74	Enhanced Fano resonance in silver ellipsoidal plasmonic crystal cavity. Journal of Applied Physics, 2013, 114, 234305.	1.1	8
75	Demonstration of temperature resilient properties of 2D silicon carbide photonic crystal structures and cavity modes. Optik, 2014, 125, 1663-1666.	1.4	8
76	All-angle negative refraction for visible light from left-handed metallo-dielectric photonic crystal: theoretical and numerical demonstration with nanophotonic device application. Applied Physics B: Lasers and Optics, 2010, 98, 99-106.	1.1	7
77	Selectively filled large-mode-area photonic crystal fiber for high power applications. Proceedings of SPIE, 2013, , .	0.8	7
78	Electroactive Prussian Blue Encapsulated Iron Oxide Nanostructures for Mediator-Free Cholesterol Estimation. Electroanalysis, 2014, 26, 1551-1559.	1.5	7
79	Musculoskeletal-based finite element analysis of femur after total hip replacement. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2016, 230, 553-560.	1.0	7
80	<title>Estimation of splice loss in photonic crystal fibers</title>. , 2002, 4655, 296.		6
81	Design of As ₂ Se ₃ based chalcogenide ridge waveguide for generation of slow light. Optik, 2016, 127, 11816-11822.	1.4	6
82	Tumor blood perfusion-based requirement of nanoparticle dose-loadings for plasmonic photothermal therapy. Nanomedicine, 2019, 14, 1841-1855.	1.7	6
83	Characterization of specially designed polarization maintaining photonic crystal fiber from far field radiation patterns. Optics Communications, 2010, 283, 5007-5011.	1.0	5
84	Flat photonics for broadband light-trapping. Applied Physics Letters, 2020, 117, .	1.5	5
85	Negative axicon tip micro-cavity with a polymer incorporated optical fiber temperature sensor. OSA Continuum, 2019, 2, 2353.	1.8	5
86	Controlling Parameters for Plasmonic Photothermal Ablation of a Tumor. IEEE Journal of Selected Topics in Quantum Electronics, 2016, 22, 1-8.	1.9	4
87	Impact of thermal and refractive index tuning on the bandgap and band-edges of a silicon photonic crystal waveguide with sensing applications. Optics Communications, 2022, 518, 128348.	1.0	4
88	Long Period Grating Modified with Fe-Metal Organic Frameworks for Detection of Isopropanol. , 2016, , .		2
89	Modal analysis of highly birefringent elliptical core photonic crystal fibers from scalar and vectorial effective index method. , 2005, 6005, 140.		1
90	Slow light based optical buffer with high delay bandwidth product in silicon-on-insulator photonic crystal waveguides. , 2009, , .		1

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91	Design and analysis of subwavelength plasmonic waveguide array. Proceedings of SPIE, 2011, , .	0.8	1
92	Large-core single-mode trench assisted leaky channel waveguide for high-power applications. , 2013, , .		1
93	Cladding doped defect-core large mode area W-type photonic crystal fiber. , 2016, , .		1
94	Chalcogenide based rib waveguide for compact on-chip supercontinuum sources in mid-infrared domain. , 2017, , .		1
95	Microstructured-Core Photonic Crystal Fiber with All Normal Dispersion for Supercontinuum Generation. , 2014, , .		1
96	Stimulated Brillouin Scattering Based Tunable Slow Light in Tellurite Photonic Crystal Fiber. , 2014, , .		1
97	BER performance comparison of optical CDMA systems with/without turbo codes. , 2002, , .		0
98	<title>Propagation characteristics of photonic crystal fibers from effective index model</title>. , 2002, , .		0
99	Band structure computation of one-dimensional photonic crystal. , 2003, , .		0
100	Analysis of loss mechanisms in photonic crystal fibers. , 2003, , .		0
101	Design parameters of a tunable multiple-quantum-well interference filter. , 2003, 4986, 654.		0
102	Higher-order pulse dispersion and transmission limit to optical communication system. , 2004, 5281, 56.		0
103	A novel design of dispersion compensating Raman/two stage EDFA hybrid for amplification in L-band and U-band. , 2005, 6012, 267.		0
104	Liquid Crystal Assisted slow light propagation in Photonic Crystal and Device Application. , 2009, , .		0
105	Fano resonance in silver nanoparticles in SOI structure: design of plasmonic nano switch. Proceedings of SPIE, 2013, , .	0.8	0
106	Tuning Fano resonance in plasmonic nanocavity for enhanced transmission. , 2013, , .		0
107	Ag-GaAs-Ag quantum nano-lenses system for plexcitonic interaction. , 2014, , .		0
108	Plasmonic Mach-Zehnder Interferometer Sensor for Classification of Cancer Cells. , 2014, , .		0

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109	Design of single mode single polarization large mode area photonic crystal fiber. , 2015, , .		0
110	Input impedance of small antenna provides Purcell factor. , 2015, , .		0
111	Design and analysis of near perfect metamaterial reflector in visible range. , 2015, , .		0
112	Optical logic operation using universal NOR gate. , 2016, , .		0
113	Forward scattering by the cylindrical dielectric nanoparticle. , 2016, , .		0
114	Design and analysis of tip slotted square patch nano-antenna. , 2017, , .		0
115	LiTaO ₃ microcubes based metamaterial perfect absorber. , 2017, , .		0
116	All-dielectric cylindrical nanoantennas in the visible range. , 2017, , .		0
117	Plasmonic waveguides based optical AND gate. , 2017, , .		0
118	Dielectric zero-index metamaterial filled photonic crystal defect waveguide: design and analysis. , 2018, , .		0
119	Dielectric ring based metamaterial perfect reflector. , 2019, , .		0