Ravindra K Sinha

List of Publications by Citations

91 papers	2,347 citations	27 h-index	44 g-index
120 ext. papers	2,868 ext. citations	4.2 avg, IF	5.31 L-index

#	Paper	IF	Citations
91	A comparative assessment of human exposure to tetrabromobisphenol A and eight bisphenols including bisphenol A via indoor dust ingestion in twelve countries. *Environment International*, **2015**, 83, 183-91	12.9	165
90	Assessing seasonal and spatial trends of persistent organic pollutants (POPs) in Indian agricultural regions using PUF disk passive air samplers. *Environmental Pollution*, **2011**, 159, 646-53	9.3	104
89	White light emission and color tunability of dysprosium doped barium silicate glasses. *Journal of Luminescence*, **2016**, 169, 121-127	3.8	102
88	Rapid detection of Escherichia coli using fiber optic surface plasmon resonance immunosensor based on biofunctionalized Molybdenum disulfide (MoS) nanosheets. *Biosensors and Bioelectronics*, **2019**, 126, 501-509	11.8	85
87	Field emission with ultralow turn on voltage from metal decorated carbon nanotubes. *ACS Nano*, **2014**, 8, 7763-70	16.7	80
86	Broadband Mid-Infrared Supercontinuum Spectra Spanning 2□15 □m Using As2Se3 Chalcogenide Glass Triangular-Core Graded-Index Photonic Crystal Fiber. *Journal of Lightwave Technology*, **2015**, 33, 3914-3920	4	77
85	Design of all optical logic gates in photonic crystal waveguides. *Optik*, **2015**, 126, 950-955	2.5	73
84	Bioaccumulation profiles of polychlorinated biphenyl congeners and organochlorine pesticides in Ganges river dolphins. *Environmental Toxicology and Chemistry*, **1999**, 18, 1511-1520	3.8	68
83	Synthetic Phenolic Antioxidants and Their Metabolites in Indoor Dust from Homes and Microenvironments. *Environmental Science & Technology*, **2016**, 50, 428-34	10.3	62
82	A survey of cyclic and linear siloxanes in indoor dust and their implications for human exposures in twelve countries. *Environment International*, **2015**, 78, 39-44	12.9	58
81	Occurrence and fate of parabens and their metabolites in five sewage treatment plants in India. *Science of the Total Environment*, **2017**, 593-594, 592-598	10.2	57
80	Distribution and Relationships of Antimicrobial Resistance Determinants among Extended-Spectrum-Cephalosporin-Resistant or Carbapenem-Resistant Escherichia coli Isolates from Rivers and Sewage Treatment Plants in India. *Antimicrobial Agents and Chemotherapy*, **2016**, 60, 2972-80	5.9	56
79	Organophosphate esters in indoor dust from 12 countries: Concentrations, composition profiles, and human exposure. *Environment International*, **2019**, 133, 105178	12.9	53
78	Dispersion characteristic of hexagonal and square lattice chalcogenide As2Se3 glass photonic crystal fiber. *Optics Communications*, **2010**, 283, 1331-1337	2	52
77	Enhanced field emission properties from CNT arrays synthesized on Inconel superalloy. *ACS Applied Materials & Interfaces*, **2014**, 6, 1986-91	9.5	50
76	Design, analysis and optimization of silicon-on-insulator photonic crystal dual band wavelength demultiplexer. *Optics Communications*, **2009**, 282, 3889-3894	2	50
75	Sources and Accumulation of Butyltin Compounds in Ganges River Dolphin, Platanista gangetica. *Applied Organometallic Chemistry*, **1997**, 11, 223-230	3.1	49

74	Dispersion properties of photonic crystal fibers. *Microwave and Optical Technology Letters*, **2003**, 37, 129-132	1.2	46
73	Two-dimensional transition metal dichalcogenides assisted biofunctionalized optical fiber SPR biosensor for efficient and rapid detection of bovine serum albumin. *Scientific Reports*, **2019**, 9, 6987	4.9	44
72	High-Q All-Dielectric Metasurface: Super and Suppressed Optical Absorption. *ACS Photonics*, **2020**, 7, 1436-1443	6.3	44
71	Design and analysis of polarization independent all-optical logic gates in silicon-on-insulator photonic crystal. *Optics Communications*, **2016**, 374, 148-155	2	41
70	Design of optical waveguide polarizer using photonic band gap. *Optics Express*, **2006**, 14, 10790-4	3.3	36
69	Realization of all optical logic gates using universal NAND gates on photonic crystal platform. *Superlattices and Microstructures*, **2017**, 109, 619-625	2.8	35
68	Occurrence of perchlorate in indoor dust from the United States and eleven other countries: implications for human exposure. *Environment International*, **2015**, 75, 166-71	12.9	33
67	Phase control of nanostructured iron oxide for application to biosensor. *Journal of Materials Chemistry B*, **2013**, 1, 464-474	7.3	31
66	Slow light miniature devices with ultra-flattened dispersion in silicon-on-insulator photonic crystal. *Optics Express*, **2009**, 17, 13315-25	3.3	31
65	Ganges River dolphin: an overview of biology, ecology, and conservation status in India. *Ambio*, **2014**, 43, 1029-46	6.5	30
64	Broadband mid-IR supercontinuum generation in As2Se3 based chalcogenide photonic crystal fiber: A new design and analysis. *Optics Communications*, **2015**, 347, 13-19	2	27
63	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	1.9	25
62	Design and modelling of dispersion-engineered rib waveguide for ultra broadband mid-infrared supercontinuum generation. *Journal of Modern Optics*, **2017**, 64, 143-149	1.1	24
61	Coupling Characteristics of Multicore Photonic Crystal Fiber-Based 1$,times,$ 4 Power Splitters. *Journal of Lightwave Technology*, **2009**, 27, 2062-2068	4	24
60	Metal-organic frameworks-derived titanium dioxide□arbon nanocomposite for supercapacitor applications. *International Journal of Energy Research*, **2020**, 44, 6269-6284	4.5	23
59	TiO nanofibres decorated with green-synthesized P@CQDs for the efficient photocatalytic degradation of organic dyes and pharmaceutical drugs.. *RSC Advances*, **2020**, 10, 8941-8948	3.7	23
58	Power penalty analysis for realistic weight functions using differential time delay with higher-order dispersion. *Optical Fiber Technology*, **2002**, 8, 240-255	2.4	22
57	Design and analysis of equiangular spiral photonic crystal fiber for mid-infrared supercontinuum generation. *Journal of Modern Optics*, **2015**, 62, 1570-1576	1.1	20

56	Dispersion Properties of Photonic Crystal Fiber: Comparison by Scalar and Fully Vectorial Effective Index Methods. *Optical and Quantum Electronics*, **2005**, 37, 711-722	2.4	20
55	GAPS-megacities: A new global platform for investigating persistent organic pollutants and chemicals of emerging concern in urban air. *Environmental Pollution*, **2020**, 267, 115416	9.3	20
54	Thermal effects in single point diamond turning: Analysis, modeling and experimental study. *Measurement: Journal of the International Measurement Confederation*, **2017**, 102, 96-105	4.6	19
53	Titanium buffer layer for improved field emission of CNT based cold cathode. *Applied Surface Science*, **2010**, 256, 3563-3566	6.7	19
52	Negative axicon tip-based fiber optic interferometer cavity sensor for volatile gas sensing. *Optics Express*, **2019**, 27, 7277-7290	3.3	19
51	. *Journal of Lightwave Technology*, **2009**, 27, 1725-1733	4	18
50	Design of highly birefringent chalcogenide glass PCF: A simplest design. *Optics Communications*, **2011**, 284, 1186-1191	2	17
49	Higher-Order Dispersion Compensation by Differential Time Delay. *Optical Fiber Technology*, **1998**, 4, 135-143	2.4	17
48	Modeling and design of 2D photonic crystal based Y type dual band wavelength demultiplexer. *Optical and Quantum Electronics*, **2008**, 40, 603-613	2.4	17
47	Modeling of photonic band gap waveguide couplers. *Microwave and Optical Technology Letters*, **2004**, 43, 47-50	1.2	17
46	A label-free fiber optic biosensor for Salmonella Typhimurium detection. *Optical Fiber Technology*, **2018**, 46, 95-103	2.4	17
45	Label-free detection of Escherichia coli bacteria by cascaded chirped long period gratings immunosensor. *Review of Scientific Instruments*, **2019**, 90, 025003	1.7	16
44	Deep Seated Negative Axicon in Selective Optical Fiber Tip and Collimated Bessel Beam. *IEEE Photonics Technology Letters*, **2017**, 29, 786-789	2.2	15
43	Design and Analysis of Dispersion Engineered Rib Waveguides for On-Chip Mid-Infrared Supercontinuum. *Journal of Lightwave Technology*, **2018**, 36, 1993-1999	4	15
42	Strategies for realizing photonic crystal fiber bandpass filters. *Optics Express*, **2008**, 16, 9459-67	3.3	14
41	Design of Ultra Compact Polarization Splitter Based on the Complete Photonic Band Gap. *Optical and Quantum Electronics*, **2005**, 37, 889-895	2.4	14
40	Improved analysis of dispersion compensation using differential time delay for high-speed long-span optical link. *Fiber and Integrated Optics*, **1997**, 16, 415-426	0.8	13
39	Fiber optic FabryPerot interferometer sensor: an efficient and fast approach for ammonia gas sensing. *Journal of the Optical Society of America B: Optical Physics*, **2019**, 36, 684	1.7	13

38	Investigation of charge-separation/change in dipole moment of 7-azaindole: Quantitative measurement using solvatochromic shifts and computational approaches. *Journal of Molecular Liquids*, **2017**, 231, 39-44	6	12
37	Slow light generation in single-mode tellurite fibers. *Journal of Modern Optics*, **2015**, 62, 508-513	1.1	12
36	Extremely high figure of merit in all-dielectric split asymmetric arc metasurface for refractive index sensing. *Optics Communications*, **2020**, 462, 125327	2	12
35	Assessing Dicofol Concentrations in Air: Retrospective Analysis of Global Atmospheric Passive Sampling Network Samples from Agricultural Sites in India. *Environmental Science and Technology Letters*, **2016**, 3, 150-155	11	12
34	Potential application of mono/bi-layer molybdenum disulfide (MoS2) sheet as an efficient transparent conducting electrode in silicon heterojunction solar cells. *Journal of Applied Physics*, **2016**, 120, 013104	2.5	12
33	High-performance dual cavity-interferometric volatile gas sensor utilizing Graphene/PMMA nanocomposite. *Sensors and Actuators B: Chemical*, **2020**, 312, 127921	8.5	11
32	Electrochemically Assembled Gold Nanostructures Platform: Electrochemistry, Kinetic Analysis, and Biomedical Application. *Journal of Physical Chemistry C*, **2014**, 118, 6261-6271	3.8	11
31	Experimental verification of improved effective index method for endlessly single mode photonic crystal fiber. *Optics and Lasers in Engineering*, **2012**, 50, 182-186	4.6	11
30	Design and analysis of photonic crystal biperiodic waveguide structure based optofluidic-gas sensor. *Optik*, **2015**, 126, 5172-5175	2.5	11
29	Green synthesized plasmonic nanostructure decorated TiO2 nanofibers for photoelectrochemical hydrogen production. *Solar Energy*, **2019**, 193, 715-723	6.8	10
28	LiTaO3 based metamaterial perfect absorber for terahertz spectrum. *Superlattices and Microstructures*, **2017**, 111, 754-759	2.8	10
27	Slow Light Propagation in Liquid-Crystal Infiltrated Silicon-On-Insulator Photonic Crystal Channel Waveguides. *Journal of Lightwave Technology*, **2010**, 28, 2560-2571	4	10
26	Design of a photonic band gap polarizer. *Optical Engineering*, **2006**, 45, 110503	1.1	9
25	Design of small core tellurite photonic crystal fiber for slow-light-based application using stimulated Brillouin scattering. *Optical Engineering*, **2015**, 54, 075101	1.1	8
24	Raman amplification characteristics of As2Se3 photonic crystal fibers. *Optics Letters*, **2008**, 33, 2431-3	3	8
23	Bioaccumulation profiles of polychlorinated biphenyl congeners and organochlorine pesticides in Ganges river dolphins **1999**, 18, 1511		7
22	Study of Sonication Assisted Synthesis of Molybdenum Disulfide (MoS2) Nanosheets. *Materials Today: Proceedings*, **2020**, 21, 1969-1975	1.4	6
21	Selectively filled large-mode-area photonic crystal fiber for high power applications **2013**,		6

20	Electroactive Prussian Blue Encapsulated Iron Oxide Nanostructures for Mediator-Free Cholesterol Estimation. *Electroanalysis*, **2014**, 26, 1551-1559	3	6
19	Enhanced Fano resonance in silver ellipsoidal plasmonic crystal cavity. *Journal of Applied Physics*, **2013**, 114, 234305	2.5	6
18	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	1.9	6
17	Taxonomic revision of the South Asian River dolphins (Platanista): Indus and Ganges River dolphins are separate species. *Marine Mammal Science*, **2021**, 37, 1022	1.9	6
16	Tunable unidirectional scattering of ellipsoidal single nanoparticle. *Journal of Applied Physics*, **2016**, 119, 243102	2.5	6
15	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, 553-60	1.7	5
14	Estimation of splice loss in photonic crystal fibers **2002**, 4655, 296		5
13	Design of As2Se3 based chalcogenide ridge waveguide for generation of slow light. *Optik*, **2016**, 127, 11816-11822	2.5	5
12	Tumor blood perfusion-based requirement of nanoparticle dose-loadings for plasmonic photothermal therapy. *Nanomedicine*, **2019**, 14, 1841-1855	5.6	4
11	Demonstration of temperature resilient properties of 2D silicon carbide photonic crystal structures and cavity modes. *Optik*, **2014**, 125, 1663-1666	2.5	4
10	Flat photonics for broadband light-trapping. *Applied Physics Letters*, **2020**, 117, 241105	3.4	3
9	Controlling Parameters for Plasmonic Photothermal Ablation of a Tumor. *IEEE Journal of Selected Topics in Quantum Electronics*, **2016**, 22, 1-8	3.8	3
8	Characterization of specially designed polarization maintaining photonic crystal fiber from far field radiation patterns. *Optics Communications*, **2010**, 283, 5007-5011	2	3
7	Cladding doped defect-core large mode area W-type photonic crystal fiber **2016**,		1
6	Design and analysis of subwavelength plasmonic waveguide array **2011**,		1
5	Slow light based optical buffer with high delay bandwidth product in silicon-on-insulator photonic crystal waveguides **2009**,		1
4	Chalcogenide based rib waveguide for compact on-chip supercontinuum sources in mid-infrared domain **2017**,		1
3	Negative axicon tip micro-cavity with a polymer incorporated optical fiber temperature sensor. *OSA Continuum*, **2019**, 2, 2353	1.4	1

2	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**, 128348	2	0
1	Modal analysis of highly birefringent elliptical core photonic crystal fibers from scalar and vectorial effective index method **2005**, 6005, 140		