

# Ravindra K Sinha

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Impact of thermal and refractive index tuning on the bandgap and band-edges of a silicon photonic crystal waveguide with sensing applications. <i>Optics Communications</i> , <b>2022</b> , 128348	2	0
90	Taxonomic revision of the South Asian River dolphins (Platanista): Indus and Ganges River dolphins are separate species. <i>Marine Mammal Science</i> , <b>2021</b> , 37, 1022	1.9	6
89	Flat photonics for broadband light-trapping. <i>Applied Physics Letters</i> , <b>2020</b> , 117, 241105	3.4	3
88	Study of Sonication Assisted Synthesis of Molybdenum Disulfide (MoS <sub>2</sub> ) Nanosheets. <i>Materials Today: Proceedings</i> , <b>2020</b> , 21, 1969-1975	1.4	6
87	High-performance dual cavity-interferometric volatile gas sensor utilizing Graphene/PMMA nanocomposite. <i>Sensors and Actuators B: Chemical</i> , <b>2020</b> , 312, 127921	8.5	11
86	Extremely high figure of merit in all-dielectric split asymmetric arc metasurface for refractive index sensing. <i>Optics Communications</i> , <b>2020</b> , 462, 125327	2	12
85	High-Q All-Dielectric Metasurface: Super and Suppressed Optical Absorption. <i>ACS Photonics</i> , <b>2020</b> , 7, 1436-1443	6.3	44
84	Metal-organic frameworks-derived titanium dioxide/carbon nanocomposite for supercapacitor applications. <i>International Journal of Energy Research</i> , <b>2020</b> , 44, 6269-6284	4.5	23
83	TiO nanofibres decorated with green-synthesized P@CQDs for the efficient photocatalytic degradation of organic dyes and pharmaceutical drugs.. <i>RSC Advances</i> , <b>2020</b> , 10, 8941-8948	3.7	23
82	GAPS-megacities: A new global platform for investigating persistent organic pollutants and chemicals of emerging concern in urban air. <i>Environmental Pollution</i> , <b>2020</b> , 267, 115416	9.3	20
81	Two-dimensional transition metal dichalcogenides assisted biofunctionalized optical fiber SPR biosensor for efficient and rapid detection of bovine serum albumin. <i>Scientific Reports</i> , <b>2019</b> , 9, 6987	4.9	44
80	Tumor blood perfusion-based requirement of nanoparticle dose-loadings for plasmonic photothermal therapy. <i>Nanomedicine</i> , <b>2019</b> , 14, 1841-1855	5.6	4
79	Organophosphate esters in indoor dust from 12 countries: Concentrations, composition profiles, and human exposure. <i>Environment International</i> , <b>2019</b> , 133, 105178	12.9	53
78	Green synthesized plasmonic nanostructure decorated TiO <sub>2</sub> nanofibers for photoelectrochemical hydrogen production. <i>Solar Energy</i> , <b>2019</b> , 193, 715-723	6.8	10
77	Fiber optic FabryPerot interferometer sensor: an efficient and fast approach for ammonia gas sensing. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2019</b> , 36, 684	1.7	13
76	Negative axicon tip-based fiber optic interferometer cavity sensor for volatile gas sensing. <i>Optics Express</i> , <b>2019</b> , 27, 7277-7290	3.3	19
75	Negative axicon tip micro-cavity with a polymer incorporated optical fiber temperature sensor. <i>OSA Continuum</i> , <b>2019</b> , 2, 2353	1.4	1

74	Label-free detection of Escherichia coli bacteria by cascaded chirped long period gratings immunosensor. <i>Review of Scientific Instruments</i> , <b>2019</b> , 90, 025003	1.7	16
73	Rapid detection of Escherichia coli using fiber optic surface plasmon resonance immunosensor based on biofunctionalized Molybdenum disulfide (MoS) nanosheets. <i>Biosensors and Bioelectronics</i> , <b>2019</b> , 126, 501-509	11.8	85
72	Design and Analysis of Dispersion Engineered Rib Waveguides for On-Chip Mid-Infrared Supercontinuum. <i>Journal of Lightwave Technology</i> , <b>2018</b> , 36, 1993-1999	4	15
71	A label-free fiber optic biosensor for Salmonella Typhimurium detection. <i>Optical Fiber Technology</i> , <b>2018</b> , 46, 95-103	2.4	17
70	Thermal effects in single point diamond turning: Analysis, modeling and experimental study. <i>Measurement: Journal of the International Measurement Confederation</i> , <b>2017</b> , 102, 96-105	4.6	19
69	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> , <b>2017</b> , 231, 39-44	6	12
68	Deep Seated Negative Axicon in Selective Optical Fiber Tip and Collimated Bessel Beam. <i>IEEE Photonics Technology Letters</i> , <b>2017</b> , 29, 786-789	2.2	15
67	Realization of all optical logic gates using universal NAND gates on photonic crystal platform. <i>Superlattices and Microstructures</i> , <b>2017</b> , 109, 619-625	2.8	35
66	Occurrence and fate of parabens and their metabolites in five sewage treatment plants in India. <i>Science of the Total Environment</i> , <b>2017</b> , 593-594, 592-598	10.2	57
65	LiTaO3 based metamaterial perfect absorber for terahertz spectrum. <i>Superlattices and Microstructures</i> , <b>2017</b> , 111, 754-759	2.8	10
64	Design and modelling of dispersion-engineered rib waveguide for ultra broadband mid-infrared supercontinuum generation. <i>Journal of Modern Optics</i> , <b>2017</b> , 64, 143-149	1.1	24
63	Chalcogenide based rib waveguide for compact on-chip supercontinuum sources in mid-infrared domain <b>2017</b> ,		1
62	White light emission and color tunability of dysprosium doped barium silicate glasses. <i>Journal of Luminescence</i> , <b>2016</b> , 169, 121-127	3.8	102
61	Cladding doped defect-core large mode area W-type photonic crystal fiber <b>2016</b> ,		1
60	Synthetic Phenolic Antioxidants and Their Metabolites in Indoor Dust from Homes and Microenvironments. <i>Environmental Science &amp; Technology</i> , <b>2016</b> , 50, 428-34	10.3	62
59	Musculoskeletal-based finite element analysis of femur after total hip replacement. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , <b>2016</b> , 230, 553-60	1.7	5
58	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> , <b>2016</b> , 3, 150-155	11	12
57	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. <i>Antimicrobial Agents and Chemotherapy</i> , <b>2016</b> , 60, 2872-80	5.9	56

56	Controlling Parameters for Plasmonic Photothermal Ablation of a Tumor. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , <b>2016</b> , 22, 1-8	3.8	3
55	Potential application of mono/bi-layer molybdenum disulfide (MoS <sub>2</sub> ) sheet as an efficient transparent conducting electrode in silicon heterojunction solar cells. <i>Journal of Applied Physics</i> , <b>2016</b> , 120, 013104	2.5	12
54	Tunable unidirectional scattering of ellipsoidal single nanoparticle. <i>Journal of Applied Physics</i> , <b>2016</b> , 119, 243102	2.5	6
53	Design and analysis of polarization independent all-optical logic gates in silicon-on-insulator photonic crystal. <i>Optics Communications</i> , <b>2016</b> , 374, 148-155	2	41
52	Design of As <sub>2</sub> Se <sub>3</sub> based chalcogenide ridge waveguide for generation of slow light. <i>Optik</i> , <b>2016</b> , 127, 11816-11822	2.5	5
51	Design of small core tellurite photonic crystal fiber for slow-light-based application using stimulated Brillouin scattering. <i>Optical Engineering</i> , <b>2015</b> , 54, 075101	1.1	8
50	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> , <b>2015</b> , 83, 183-91	12.9	165
49	Design and analysis of equiangular spiral photonic crystal fiber for mid-infrared supercontinuum generation. <i>Journal of Modern Optics</i> , <b>2015</b> , 62, 1570-1576	1.1	20
48	Design of all optical logic gates in photonic crystal waveguides. <i>Optik</i> , <b>2015</b> , 126, 950-955	2.5	73
47	A survey of cyclic and linear siloxanes in indoor dust and their implications for human exposures in twelve countries. <i>Environment International</i> , <b>2015</b> , 78, 39-44	12.9	58
46	Broadband Mid-Infrared Supercontinuum Spectra Spanning 2.15 $\mu$ m Using As <sub>2</sub> Se <sub>3</sub> Chalcogenide Glass Triangular-Core Graded-Index Photonic Crystal Fiber. <i>Journal of Lightwave Technology</i> , <b>2015</b> , 33, 3914-3920	4	77
45	Slow light generation in single-mode tellurite fibers. <i>Journal of Modern Optics</i> , <b>2015</b> , 62, 508-513	1.1	12
44	Occurrence of perchlorate in indoor dust from the United States and eleven other countries: implications for human exposure. <i>Environment International</i> , <b>2015</b> , 75, 166-71	12.9	33
43	Broadband mid-IR supercontinuum generation in As <sub>2</sub> Se <sub>3</sub> based chalcogenide photonic crystal fiber: A new design and analysis. <i>Optics Communications</i> , <b>2015</b> , 347, 13-19	2	27
42	Design and analysis of photonic crystal biperiodic waveguide structure based optofluidic-gas sensor. <i>Optik</i> , <b>2015</b> , 126, 5172-5175	2.5	11
41	Electrochemically Assembled Gold Nanostructures Platform: Electrochemistry, Kinetic Analysis, and Biomedical Application. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 6261-6271	3.8	11
40	Demonstration of temperature resilient properties of 2D silicon carbide photonic crystal structures and cavity modes. <i>Optik</i> , <b>2014</b> , 125, 1663-1666	2.5	4
39	Enhanced field emission properties from CNT arrays synthesized on Inconel superalloy. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 1986-91	9.5	50

38	Field emission with ultralow turn on voltage from metal decorated carbon nanotubes. <i>ACS Nano</i> , <b>2014</b> , 8, 7763-70	16.7	80
37	Ganges River dolphin: an overview of biology, ecology, and conservation status in India. <i>Ambio</i> , <b>2014</b> , 43, 1029-46	6.5	30
36	Electroactive Prussian Blue Encapsulated Iron Oxide Nanostructures for Mediator-Free Cholesterol Estimation. <i>Electroanalysis</i> , <b>2014</b> , 26, 1551-1559	3	6
35	Phase control of nanostructured iron oxide for application to biosensor. <i>Journal of Materials Chemistry B</i> , <b>2013</b> , 1, 464-474	7.3	31
34	Selectively filled large-mode-area photonic crystal fiber for high power applications <b>2013</b> ,		6
33	Enhanced Fano resonance in silver ellipsoidal plasmonic crystal cavity. <i>Journal of Applied Physics</i> , <b>2013</b> , 114, 234305	2.5	6
32	Experimental verification of improved effective index method for endlessly single mode photonic crystal fiber. <i>Optics and Lasers in Engineering</i> , <b>2012</b> , 50, 182-186	4.6	11
31	Assessing seasonal and spatial trends of persistent organic pollutants (POPs) in Indian agricultural regions using PUF disk passive air samplers. <i>Environmental Pollution</i> , <b>2011</b> , 159, 646-53	9.3	104
30	Design of highly birefringent chalcogenide glass PCF: A simplest design. <i>Optics Communications</i> , <b>2011</b> , 284, 1186-1191	2	17
29	Design and analysis of subwavelength plasmonic waveguide array <b>2011</b> ,		1
28	Slow Light Propagation in Liquid-Crystal Infiltrated Silicon-On-Insulator Photonic Crystal Channel Waveguides. <i>Journal of Lightwave Technology</i> , <b>2010</b> , 28, 2560-2571	4	10
27	All-angle negative refraction for visible light from left-handed metallo-dielectric photonic crystal: theoretical and numerical demonstration with nanophotonic device application. <i>Applied Physics B: Lasers and Optics</i> , <b>2010</b> , 98, 99-106	1.9	6
26	Dispersion characteristic of hexagonal and square lattice chalcogenide As <sub>2</sub> Se <sub>3</sub> glass photonic crystal fiber. <i>Optics Communications</i> , <b>2010</b> , 283, 1331-1337	2	52
25	Characterization of specially designed polarization maintaining photonic crystal fiber from far field radiation patterns. <i>Optics Communications</i> , <b>2010</b> , 283, 5007-5011	2	3
24	Titanium buffer layer for improved field emission of CNT based cold cathode. <i>Applied Surface Science</i> , <b>2010</b> , 256, 3563-3566	6.7	19
23	Design, analysis and optimization of silicon-on-insulator photonic crystal dual band wavelength demultiplexer. <i>Optics Communications</i> , <b>2009</b> , 282, 3889-3894	2	50
22	Slow light based optical buffer with high delay bandwidth product in silicon-on-insulator photonic crystal waveguides <b>2009</b> ,		1
21	Slow light miniature devices with ultra-flattened dispersion in silicon-on-insulator photonic crystal. <i>Optics Express</i> , <b>2009</b> , 17, 13315-25	3.3	31

20	. <i>Journal of Lightwave Technology</i> , <b>2009</b> , 27, 1725-1733	4	18
19	Coupling Characteristics of Multicore Photonic Crystal Fiber-Based 1\$,times,\$ 4 Power Splitters. <i>Journal of Lightwave Technology</i> , <b>2009</b> , 27, 2062-2068	4	24
18	Raman amplification characteristics of As <sub>2</sub> Se <sub>3</sub> photonic crystal fibers. <i>Optics Letters</i> , <b>2008</b> , 33, 2431-3	3	8
17	Strategies for realizing photonic crystal fiber bandpass filters. <i>Optics Express</i> , <b>2008</b> , 16, 9459-67	3.3	14
16	Modeling and design of 2D photonic crystal based Y type dual band wavelength demultiplexer. <i>Optical and Quantum Electronics</i> , <b>2008</b> , 40, 603-613	2.4	17
15	Design of optical waveguide polarizer using photonic band gap. <i>Optics Express</i> , <b>2006</b> , 14, 10790-4	3.3	36
14	Design of a photonic band gap polarizer. <i>Optical Engineering</i> , <b>2006</b> , 45, 110503	1.1	9
13	Modal analysis of highly birefringent elliptical core photonic crystal fibers from scalar and vectorial effective index method <b>2005</b> , 6005, 140		
12	Design of Ultra Compact Polarization Splitter Based on the Complete Photonic Band Gap. <i>Optical and Quantum Electronics</i> , <b>2005</b> , 37, 889-895	2.4	14
11	Dispersion Properties of Photonic Crystal Fiber: Comparison by Scalar and Fully Vectorial Effective Index Methods. <i>Optical and Quantum Electronics</i> , <b>2005</b> , 37, 711-722	2.4	20
10	Modeling of photonic band gap waveguide couplers. <i>Microwave and Optical Technology Letters</i> , <b>2004</b> , 43, 47-50	1.2	17
9	Dispersion properties of photonic crystal fibers. <i>Microwave and Optical Technology Letters</i> , <b>2003</b> , 37, 129-132	1.2	46
8	Power penalty analysis for realistic weight functions using differential time delay with higher-order dispersion. <i>Optical Fiber Technology</i> , <b>2002</b> , 8, 240-255	2.4	22
7	Estimation of splice loss in photonic crystal fibers <b>2002</b> , 4655, 296		5
6	Bioaccumulation profiles of polychlorinated biphenyl congeners and organochlorine pesticides in Ganges river dolphins. <i>Environmental Toxicology and Chemistry</i> , <b>1999</b> , 18, 1511-1520	3.8	68
5	Bioaccumulation profiles of polychlorinated biphenyl congeners and organochlorine pesticides in Ganges river dolphins <b>1999</b> , 18, 1511		7
4	Higher-Order Dispersion Compensation by Differential Time Delay. <i>Optical Fiber Technology</i> , <b>1998</b> , 4, 135-143	2.4	17
3	Improved analysis of dispersion compensation using differential time delay for high-speed long-span optical link. <i>Fiber and Integrated Optics</i> , <b>1997</b> , 16, 415-426	0.8	13

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|---|--|-----|----|
| 2 | Sources and Accumulation of Butyltin Compounds in Ganges River Dolphin, <i>Platanista gangetica</i> . <i>Applied Organometallic Chemistry</i> , <b>1997</b> , 11, 223-230                            | 3.1 | 49 |
| 1 | STATUS OF GANGES RIVER DOLPHINS (PLATANISTA GANGETICA) IN THE KARNALI, MAHAKALI, NARAYANI and SAPTA KOSI RIVERS OF NEPAL AND INDIA IN 1993. <i>Marine Mammal Science</i> , <b>1994</b> , 10, 368-375 | 1.9 | 25 |