

# Shivakiran Bhaktha Bn

## List of Publications by Year in descending order

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75  
papers

1,159  
citations

394286

19  
h-index

414303

32  
g-index

75  
all docs

75  
docs citations

75  
times ranked

1374  
citing authors

#	ARTICLE	IF	CITATIONS
1	Plasmonic-Silver Sorets and Dielectric-Nd <sub>2</sub> O <sub>3</sub> nanorods for Ultrasensitive Photonic Crystal-Coupled Emission. <i>Materials Research Bulletin</i> , 2022, 145, 111558.	2.7	27
2	Femtosecond laser micromachined one-dimensional photonic crystal channel waveguides. <i>Optical Materials</i> , 2022, 126, 112114.	1.7	4
3	Plasmonic Silver Nanoparticle-Mediated Enhanced Broadband Photoresponse of Few-Layer Phosphorene/Si Vertical Heterojunctions. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 1699-1709.	4.0	8
4	Passive polarization splitter using zero-gap directional coupler in LiNbO <sub>3</sub> . <i>Results in Optics</i> , 2022, 8, 100262.	0.9	1
5	Elastic orange emissive single crystals of 1,3-diamino-2,4,5,6-tetrabromobenzene as flexible optical waveguides. <i>Journal of Materials Chemistry C</i> , 2021, 9, 9465-9472.	2.7	15
6	Temporal dynamics of photonic stop-band in volatile solvent infiltrated opals. <i>Optical Materials</i> , 2021, 117, 111146.	1.7	2
7	Photoplasmonic assembly of dielectric-metal, Nd <sub>2</sub> O <sub>3</sub> -Gold soret nanointerfaces for dequenching the luminophore emission. <i>Nanophotonics</i> , 2021, 10, 3417-3431.	2.9	33
8	Replica symmetry breaking in coherent and incoherent random lasing modes. <i>Optics Letters</i> , 2021, 46, 5169.	1.7	6
9	Design and synthesis of perfluoroalkyl decorated BODIPY dye for random laser action in a microfluidic device. <i>New Journal of Chemistry</i> , 2020, 44, 14650-14661.	1.4	6
10	Resonant and non-resonant coupling of one-dimensional microcavity mode and optical Tamm state. <i>Journal of Optics (United Kingdom)</i> , 2020, 22, 065002.	1.0	6
11	Origin of light scattering in dye doped polymeric waveguides and the dependence of excitation geometry on coherent random lasing. <i>Journal Physics D: Applied Physics</i> , 2020, 53, 245104.	1.3	6
12	Ultrafast Investigation of Individual Bright Exciton-Plasmon Polaritons in Size-Tunable Metal-WS <sub>2</sub> Hybrid Nanostructures. <i>Advanced Optical Materials</i> , 2020, 8, 1901645.	3.6	7
13	Superior Resonant Nanocavities Engineering on the Photonic Crystal-Coupled Emission Platform for the Detection of Femtomolar Iodide and Zeptomolar Cortisol. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 34323-34336.	4.0	61
14	Ultrafast real-time observation of double Fano resonances in discrete excitons and single plasmon-continuum. <i>Physical Review B</i> , 2020, 101, .	1.1	4
15	Replica Symmetry Breaking in a Weakly Scattering Optofluidic Random Laser. <i>Scientific Reports</i> , 2020, 10, 2628.	1.6	21
16	Bloch Surface Waves and Internal Optical Modes-Driven Photonic Crystal-Coupled Emission Platform for Femtomolar Detection of Aluminum Ions. <i>Journal of Physical Chemistry C</i> , 2020, 124, 7341-7352.	1.5	39
17	Negative Thermal Quenching and Size-Dependent Optical Characteristics of Highly Luminescent Phosphorene Nanocrystals. <i>Advanced Optical Materials</i> , 2020, 8, 2000180.	3.6	19
18	Random laser spectroscopy and replica symmetry breaking phase transitions in a solvent-rich polymer thin film waveguide. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2020, 37, 2505.	0.9	9

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19	Effect of Laser Irradiation on Graphene Oxide Integrated TE-Pass Waveguide Polarizer. Journal of Lightwave Technology, 2019, 37, 2380-2385.	2.7	13
20	Estimation of Fiber-Waveguide Coupling Loss and Waveguide Propagation Loss by Spectral Analysis. IEEE Photonics Technology Letters, 2019, 31, 517-520.	1.3	7
21	Optical Tamm state aided room-temperature amplified spontaneous emission from carbon quantum dots embedded one-dimensional photonic crystals. Journal Physics D: Applied Physics, 2019, 52, 035102.	1.3	11
22	Ultrafast time-resolved investigations of excitons and biexcitons at room temperature in layered WS <sub>2</sub> . 2D Materials, 2019, 6, 015011.	2.0	19
23	Effect of structural evolution of ZnO/HfO <sub>2</sub> nanocrystals on Eu <sup>2+</sup> /Eu <sup>3+</sup> emission in glass-ceramic waveguides for photonic applications. Nanotechnology, 2018, 29, 225202.	1.3	8
24	Carbon-dots Embedded Glass Based Inverse Micropillar Structures by Two-photon Polymerization Process. , 2018, , .		0
25	Fabrication of Active Microdisc Resonators using Solvent Immersion Imprint Lithography. , 2018, , .		1
26	Studies on carbon dots embedded Tamm plasmon polariton structures. , 2018, , .		0
27	Whispering gallery mode assisted random lasing in dye-doped PVA coated silica microsphere. , 2018, , .		0
28	Effect of ZnO-HfO <sub>2</sub> hybrid nanocrystals on amplified spontaneous emission in Eu-doped ternary glass-ceramic waveguides. , 2018, , .		0
29	Optical properties of Tamm states in metal grating-one dimensional photonic crystal structures. , 2018, , .		0
30	Synthesis, photophysical and concentration-dependent tunable lasing behavior of 2,6-diacetylenyl-functionalized BODIPY dyes. New Journal of Chemistry, 2017, 41, 2296-2308.	1.4	26
31	Heat-treatment controlled structural and optical properties of sol-gel fabricated Eu:ZnO thin films. Optical Materials, 2017, 64, 288-294.	1.7	17
32	Effect of photonic stop-band on the modes of a weakly scattering DCM-PVA waveguide random laser. Applied Physics Letters, 2017, 110, .	1.5	15
33	Time-resolved photoluminescence studies in Eu-doped SiO <sub>2</sub> –HfO <sub>2</sub> –ZnO glass-ceramic waveguides. Ceramics International, 2017, 43, 1145-1149.	2.3	10
34	Sol–Gel-Derived Glass-Ceramic Photorefractive Films for Photonic Structures. Crystals, 2017, 7, 61.	1.0	18
35	Graphene oxide integrated on-chip tunable waveguide polarizer. , 2017, , .		0
36	Eu-doped ZnO–HfO <sub>2</sub> hybrid nanocrystal-embedded low-loss glass-ceramic waveguides. Nanotechnology, 2016, 27, 105202.	1.3	16

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37	Plasmonic enhanced optical characteristics of Ag nanostructured ZnO thin films. Materials Research Express, 2016, 3, 046403.	0.8	10
38	Infrared reduction, an efficient method to control the non-linear optical property of graphene oxide in femtosecond regime. , 2016, , .		0
39	Optofluidic two-dimensional grating volume refractive index sensor. Applied Optics, 2016, 55, 7247.	2.1	5
40	Effect of Opal Based Resonating Cavity on Random Laser Emission from a Dye Doped Polymer Waveguide. , 2016, , .		0
41	Broadband Transient Optical Response of IR Reduced Graphene Oxide by Femtosecond Pump-Probe. , 2016, , .		0
42	Boundary-concentrated Modes of a 2-D Optofluidic Random Laser Mapped Using a Pump-probe Technique. , 2016, , .		0
43	Optical Tamm States Aided Random Laser Emission in Dye-Doped Polymer Films Deposited on One-dimensional Photonic Crystals. , 2016, , .		0
44	Amplified Spontaneous Emission from Graphene Oxide Embedded Nanocrystalline One Dimensional Microcavity. , 2016, , .		0
45	Signatures of periodicity and randomness in the angular emission profile of a 2-D on-average periodic optofluidic random laser. Optics Letters, 2015, 40, 4951.	1.7	10
46	Optical field enhanced nonlinear absorption and optical limiting properties of 1-D dielectric photonic crystal with ZnO defect. Optical Materials, 2015, 50, 229-233.	1.7	45
47	Increased photon density of states at defect-mode frequencies led enhancement of tunability of spontaneous emission from Eu <sup>2+</sup> , 3+doped SiO <sub>2</sub> /SnO <sub>2</sub> one-dimensional photonic crystals. Materials Research Express, 2015, 2, 036201.	0.8	8
48	Angular Distribution of the Emission of a 2-D Optofluidic Random Laser. , 2015, , .		0
49	Plasmonic Ag-ZnO nanostructure thin films for optoelectronic devices. , 2014, , .		0
50	Sol-gel fabrication of active SiO <sub>2</sub> -ZnO glass-ceramic planar waveguides on silica-on-silicon substrates. , 2014, , .		0
51	Innovative Micro- and Nanostructured Materials and Devices for Energy Applications. Advances in Materials Science and Engineering, 2014, 2014, 1-2.	1.0	0
52	Spectral Management of Eu <sup>2+</sup> ,3+ Emission in Sol-Gel Fabricated One-dimensional Photonic Crystals. , 2014, , .		0
53	PARTIALLY PUMPED RANDOM LASERS. International Journal of Modern Physics B, 2014, 28, 1430001.	1.0	26
54	Experimental Investigations of the Emission from a 2D Optofluidic Random Laser. , 2014, , .		0

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55	Sol-gel fabrication and characterization of ZnO and Zn <sub>2</sub> SiO <sub>4</sub> nanoparticles embedded silica glass-ceramic waveguides. <i>Optical Materials Express</i> , 2013, 3, 2078.	1.6	11
56	Experimental Investigations of Random Laser Emission in a Microfluidic Channel. , 2012, , .		0
57	Optofluidic random laser. <i>Applied Physics Letters</i> , 2012, 101, 151101.	1.5	80
58	Random Laser Emission in Innovative Structured Optofluidic Channel. , 2012, , .		0
59	Fabrication of Rare Earth-Doped Transparent Glass Ceramic Optical Fibers by Modified Chemical Vapor Deposition. <i>Journal of the American Ceramic Society</i> , 2011, 94, 2315-2318.	1.9	94
60	Spatially localized UV-induced crystallization of SnO <sub>2</sub> in photorefractive SiO <sub>2</sub> -SnO <sub>2</sub> thin film. <i>Proceedings of SPIE</i> , 2010, , .	0.8	5
61	Photoluminescence in Er <sup>3+</sup> /Yb <sup>3+</sup> -doped silica-titania inverse opal structures. <i>Journal of Sol-Gel Science and Technology</i> , 2010, 55, 52-58.	1.1	17
62	Investigations of the effects of the growth of SnO <sub>2</sub> nanoparticles on the structural properties of glass-ceramic planar waveguides using Raman and FTIR spectroscopies. <i>Journal of Molecular Structure</i> , 2010, 976, 314-319.	1.8	47
63	Rare-earth-activated glass-ceramic waveguides. <i>Optical Materials</i> , 2010, 32, 1644-1647.	1.7	37
64	Controlled Growth of SnO <sub>2</sub> Nanocrystals in Eu <sup>3+</sup> -Doped SiO <sub>2</sub> -SnO <sub>2</sub> Planar Waveguides: A Spectroscopic Investigation. <i>Journal of Physical Chemistry C</i> , 2009, 113, 21555-21559.	1.5	32
65	Er <sup>3+</sup> /Yb <sup>3+</sup> -activated silica-hafnia planar waveguides for photonics fabricated by rf-sputtering. <i>Journal of Non-Crystalline Solids</i> , 2009, 355, 1176-1179.	1.5	18
66	Femtosecond laser direct writing of gratings and waveguides in high quantum efficiency erbium-doped Baccarat glass. <i>Journal Physics D: Applied Physics</i> , 2009, 42, 205106.	1.3	24
67	Enhanced fluorescence from Eu <sup>3+</sup> in low-loss silica glass-ceramic waveguides with high SnO <sub>2</sub> content. <i>Applied Physics Letters</i> , 2008, 93, .	1.5	69
68	Fabrication and characterization of microcavity lasers in rhodamine B doped SU8 using high energy proton beam. <i>Applied Physics Letters</i> , 2007, 90, 101115.	1.5	7
69	Rare-earth-doped silica-based glasses for photonic applications. <i>Journal of Non-Crystalline Solids</i> , 2007, 353, 753-756.	1.5	7
70	Erbium-activated modified silica glasses with high 4I <sub>13/2</sub> luminescence quantum yield. <i>Optical Materials</i> , 2006, 28, 1325-1328.	1.7	19
71	Self-quenching of spontaneous emission in Sm <sup>3+</sup> doped lead-borate glass. <i>Optical Materials</i> , 2006, 28, 1266-1270.	1.7	28
72	High quality factor Er <sup>3+</sup> -activated dielectric microcavity fabricated by rf sputtering. <i>Applied Physics Letters</i> , 2006, 89, 171910.	1.5	41

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73	Spectroscopic properties of Er <sup>3+</sup> -activated Ag-exchanged silicate and phosphate glasses. , 2005, , .		0
74	Nonlinear optical properties and surface-plasmon enhanced optical limiting in Ag@Cu nanoclusters co-doped in SiO <sub>2</sub> Sol-Gel films. Journal of Applied Physics, 2004, 96, 6717-6723.	1.1	82
75	High-quality-factor dye-doped polymeric microdiscs fabricated by soft imprint lithography. European Physical Journal: Special Topics, 0, , 1.	1.2	2