Shivakiran Bhaktha Bn

List of Publications by Year
in descending order

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	Fabrication of Rare Earth-Doped Transparent Glass Ceramic Optical Fibers by Modified Chemical Vapor Deposition. Journal of the American Ceramic Society, 2011, 94, 2315-2318.	1.9	94
2	Nonlinear optical properties and surface-plasmon enhanced optical limiting in Agâ€“Cu nanoclusters co-doped in SiO2 Sol-Gel films. Journal of Applied Physics, 2004, 96, 6717-6723.	1.1	82
3	Optofluidic random laser. Applied Physics Letters, 2012, 101, 151101.	1.5	80
4	Enhanced fluorescence from Eu3+ in low-loss silica glass-ceramic waveguides with high SnO2 content. Applied Physics Letters, 2008, 93, .	1.5	69
5	Superior Resonant Nanocavities Engineering on the Photonic Crystal-Coupled Emission Platform for the Detection of Femtomolar Iodide and Zeptomolar Cortisol. ACS Applied Materials & Interfaces, 2020, 12, 34323-34336.	4.0	61
6	Investigations of the effects of the growth of SnO2 nanoparticles on the structural properties of glassâ€“ceramic planar waveguides using Raman and FTIR spectroscopies. Journal of Molecular Structure, 2010, 976, 314-319.	1.8	47
7	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
8	High quality factor Er3+-activated dielectric microcavity fabricated by rf sputtering. Applied Physics Letters, 2006, 89, 171910.	1.5	41
9	Bloch Surface Waves and Internal Optical Modes-Driven Photonic Crystal-Coupled Emission Platform for Femtomolar Detection of Aluminum Ions. Journal of Physical Chemistry C, 2020, 124, 7341-7352.	1.5	39
10	Rare-earth-activated glassâ€“ceramic waveguides. Optical Materials, 2010, 32, 1644-1647.	1.7	37
11	Photoplasmonic assembly of dielectric-metal, Nd₂O₃-Gold soret nanointerfaces for dequenching the luminophore emission. Nanophotonics, 2021, 10, 3417-3431.	2.9	33
12	Controlled Growth of SnO2 Nanocrystals in Eu3+-Doped SiO2â^'SnO2 Planar Waveguides: A Spectroscopic Investigation. Journal of Physical Chemistry C, 2009, 113, 21555-21559.	1.5	32
13	Self-quenching of spontaneous emission in Sm3+ doped lead-borate glass. Optical Materials, 2006, 28, 1266-1270.	1.7	28
14	Plasmonic-Silver Sorets and Dielectric-Nd2O3 nanorods for Ultrasensitive Photonic Crystal-Coupled Emission. Materials Research Bulletin, 2022, 145, 111558.	2.7	27
15	PARTIALLY PUMPED RANDOM LASERS. International Journal of Modern Physics B, 2014, 28, 1430001.	1.0	26
16	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
17	Femtosecond laser direct writing of gratings and waveguides in high quantum efficiency erbium-doped Baccarat glass. Journal Physics D: Applied Physics, 2009, 42, 205106.	1.3	24
18	Replica Symmetry Breaking in a Weakly Scattering Optofluidic Random Laser. Scientific Reports, 2020, 10, 2628.	1.6	21

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19	Erbium-activated modified silica glasses with high 4I13/2 luminescence quantum yield. Optical Materials, 2006, 28, 1325-1328.	1.7	19
20	Ultrafast time-resolved investigations of excitons and biexcitons at room temperature in layered WS ₂. 2D Materials, 2019, 6, 015011.	2.0	19
21	Negative Thermal Quenching and Sizeâ€Đependent Optical Characteristics of Highly Luminescent Phosphorene Nanocrystals. Advanced Optical Materials, 2020, 8, 2000180.	3.6	19
22	Er3+/Yb3+-activated silica-hafnia planar waveguides for photonics fabricated by rf-sputtering. Journal of Non-Crystalline Solids, 2009, 355, 1176-1179.	1.5	18
23	Solâ€“Gel-Derived Glass-Ceramic Photorefractive Films for Photonic Structures. Crystals, 2017, 7, 61.	1.0	18
24	Photoluminescence in Er3+/Yb3+-doped silica-titania inverse opal structures. Journal of Sol-Gel Science and Technology, 2010, 55, 52-58.	1.1	17
25	Heat-treatment controlled structural and optical properties of sol-gel fabricated Eu:ZnO thin films. Optical Materials, 2017, 64, 288-294.	1.7	17
26	Eu-doped ZnOâ€“HfO₂hybrid nanocrystal-embedded low-loss glass-ceramic waveguides. Nanotechnology, 2016, 27, 105202.	1.3	16
27	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
28	Elastic orange emissive single crystals of 1,3-diamino-2,4,5,6-tetrabromobenzene as flexible optical waveguides. Journal of Materials Chemistry C, 2021, 9, 9465-9472.	2.7	15
29	Effect of Laser Irradiation on Graphene Oxide Integrated TE-Pass Waveguide Polarizer. Journal of Lightwave Technology, 2019, 37, 2380-2385.	2.7	13
30	Sol-gel fabrication and characterization of ZnO and Zn_2SiO_4 nanoparticles embedded silica glass-ceramic waveguides. Optical Materials Express, 2013, 3, 2078.	1.6	11
31	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
32	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
33	Plasmonic enhanced optical characteristics of Ag nanostructured ZnO thin films. Materials Research Express, 2016, 3, 046403.	0.8	10
34	Time-resolved photoluminescence studies in Eu-doped SiO 2 â€“ HfO 2 â€“ ZnO glass-ceramic waveguides. Ceramics International, 2017, 43, 1145-1149.	2.3	10
35	Random laser spectroscopy and replica symmetry breaking phase transitions in a solvent-rich polymer thin film waveguide. Journal of the Optical Society of America B: Optical Physics, 2020, 37, 2505.	0.9	9
36	Increased photon density of states at defect-mode frequencies led enhancement of tunability of spontaneous emission from Eu2+, 3+doped SiO2/SnO2one-dimensional photonic crystals. Materials Research Express, 2015, 2, 036201.	0.8	8

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37	Effect of structural evolution of ZnO/HfO₂nanocrystals on Eu²⁺/Eu³⁺emission in glass-ceramic waveguides for photonic applications. Nanotechnology, 2018, 29, 225202.	1.3	8
38	Plasmonic Silver Nanoparticle-Mediated Enhanced Broadband Photoresponse of Few-Layer Phosphorene/Si Vertical Heterojunctions. ACS Applied Materials & Interfaces, 2022, 14, 1699-1709.	4.0	8
39	Fabrication and characterization of microcavity lasers in rhodamine B doped SU8 using high energy proton beam. Applied Physics Letters, 2007, 90, 101115.	1.5	7
40	Rare-earth-doped silica-based glasses for photonic applications. Journal of Non-Crystalline Solids, 2007, 353, 753-756.	1.5	7
41	Estimation of Fiber-Waveguide Coupling Loss and Waveguide Propagation Loss by Spectral Analysis. IEEE Photonics Technology Letters, 2019, 31, 517-520.	1.3	7
42	Ultrafast Investigation of Individual Bright Excitonâ€“Plasmon Polaritons in Sizeâ€Tunable Metalâ€“WS 2 Hybrid Nanostructures. Advanced Optical Materials, 2020, 8, 1901645.	3.6	7
43	Design and synthesis of perfluoroalkyl decorated BODIPY dye for random laser action in a microfluidic device. New Journal of Chemistry, 2020, 44, 14650-14661.	1.4	6
44	Resonant and non-resonant coupling of one-dimensional microcavity mode and optical Tamm state. Journal of Optics (United Kingdom), 2020, 22, 065002.	1.0	6
45	Origin of light scattering in dye doped polymeric waveguides and the dependence of excitation geometry on coherent random lasing. Journal Physics D: Applied Physics, 2020, 53, 245104.	1.3	6
46	Replica symmetry breaking in coherent and incoherent random lasing modes. Optics Letters, 2021, 46, 5169.	1.7	6
47	Spatially localized UV-induced crystallization of SnO 2 in photorefractive SiO 2 -SnO 2 thin film. Proceedings of SPIE, 2010, , .	0.8	5
48	Optofluidic two-dimensional grating volume refractive index sensor. Applied Optics, 2016, 55, 7247.	2.1	5
49	Ultrafast real-time observation of double Fano resonances in discrete excitons and single plasmon-continuum. Physical Review B, 2020, 101, .	1.1	4
50	Femtosecond laser micromachined one-dimensional photonic crystal channel waveguides. Optical Materials, 2022, 126, 112114.	1.7	4
51	Temporal dynamics of photonic stop-band in volatile solvent infiltrated opals. Optical Materials, 2021, 117, 111146.	1.7	2
52	High-quality-factor dye-doped polymeric microdiscs fabricated by soft imprint lithography. European Physical Journal: Special Topics, 0, , 1.	1.2	2
53	Fabrication of Active Microdisc Resonators using Solvent Immersion Imprint Lithography. , 2018, , .		1
54	Passive polarization splitter using zero-gap directional coupler in LiNbO3. Results in Optics, 2022, 8, 100262.	0.9	1

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55	Spectroscopic properties of Er3+-activated Ag-exchanged silicate and phosphate glasses. , 2005, , .		0
56	Experimental Investigations of Random Laser Emission in a Microfluidic Channel. , 2012, , .		0
57	Random Laser Emission in Innovative Structured Optofluidic Channel. , 2012, , .		0
58	Plasmonic Ag-ZnO nanostructure thin films for optoelectronic devices. , 2014, , .		0
59	Sol-gel fabrication of active SiO2-ZnO glass-ceramic planar waveguides on silica-on-silicon substrates. , 2014, , .		0
60	Innovative Micro- and Nanostructured Materials and Devices for Energy Applications. Advances in Materials Science and Engineering, 2014, 2014, 1-2.	1.0	0
61	Spectral Management of Eu2+,3+ Emission in Sol-Gel Fabricated One-dimensional Photonic Crystals. , 2014, , .		0
62	Infrared reduction, an efficient method to control the non-linear optical property of graphene oxide in femtosecond regime. , 2016, , .		0
63	Experimental Investigations of the Emission from a 2D Optofluidic Random Laser. , 2014, , .		0
64	Angular Distribution of the Emission of a 2-D Optofluidic Random Laser. , 2015, , .		0
65	Effect of Opal Based Resonating Cavity on Random Laser Emission from a Dye Doped Polymer Waveguide. , 2016, , .		0
66	Broadband Transient Optical Response of IR Reduced Graphene Oxide by Femtosecond Pump-Probe. , 2016, , .		0
67	Boundary-concentrated Modes of a 2-D Optofluidic Random Laser Mapped Using a Pump-probe Technique. , 2016, , .		0
68	Optical Tamm States Aided Random Laser Emission in Dye-Doped Polymer Films Deposited on One-dimensional Photonic Crystals. , 2016, , .		0
69	Amplified Spontaneous Emission from Graphene Oxide Embedded Nanocrystalline One Dimensional Microcavity. , 2016, , .		0
70	Graphene oxide integrated on-chip tunable waveguide polarizer. , 2017, , .		0
71	Carbon-dots Embedded Glass Based Inverse Micropillar Structures by Two-photon Polymerization Process. , 2018, , .		0
72	Studies on carbon dots embedded Tamm plasmon polariton structures. , 2018, , .		0

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73	Whispering gallery mode assisted random lasing in dye-doped PVA coated silica microsphere. , 2018, , .		0
74	Effect of ZnO-HfO2 hybrid nanocrystals on amplified spontaneous emission in Eu-doped ternary glass-ceramic waveguides. , 2018, , .		0
75	Optical properties of Tamm states in metal grating-one dimensional photonic crystal structures. , 2018, , .		0