Rajesh V Nair

List of Publications by Year in Descending Order

35 papers	468 citations	10 h-index	21 g-index
42 ext. papers	588 ext. citations	2.9 avg, IF	4.19 L-index

#	Paper	IF	Citations
35	Stacked metasurfaces for enhancing the emission and extraction rate of single nitrogen-vacancy centers in nanodiamond. *Journal of Optics (United Kingdom)*, **2022**, 24, 024008	1.7	1
34	Structure-induced broadband tunable resonances in soft material based dielectric metasurfaces. *Journal of Applied Physics*, **2021**, 130, 143103	2.5	1
33	Recent advances in nanoporous AAO based substrates for surface-enhanced raman scattering. *Materials Today: Proceedings*, **2021**, 41, 843-850	1.4	2
32	Smart strategy of butterfly wing scales to control the light diffusion and absorption. *Journal of the Optical Society of America B: Optical Physics*, **2021**, 38, 2297	1.7	2
31	Enhancing spontaneous emission using structural resonances of self-assembled monolayers. *Journal of Optics (United Kingdom)*, **2021**, 23, 085004	1.7	1
30	Transmitting Photons for Humanity. *Resonance*, **2021**, 26, 1489-1498		
29	Exceptionally Plastic/Elastic Organic Crystals of a Naphthalidenimine-Boron Complex Show Flexible Optical Waveguide Properties. *Chemistry - A European Journal*, **2020**, 26, 11979-11984	4.8	12
28	Observation of finite-size-induced emission decay rates in self-assembled photonic crystals. *Physical Review A*, **2020**, 102,	2.6	2
27	Bactericidal Characteristics of Bioinspired Nontoxic and Chemically Stable Disordered Silicon Nanopyramids. *ACS Biomaterials Science and Engineering*, **2020**, 6, 2778-2786	5.5	7
26	Charge-state conversion in nitrogen-vacancy centers mediated by an engineered photonic environment. *Physical Review A*, **2020**, 101,	2.6	3
25	Spectrally selective modification in the emission lifetimes of nitrogen-vacancy centers in nanodiamonds. *Journal of Optics (United Kingdom)*, **2020**, 22, 095004	1.7	
24	Selective-frequency-gap-induced negative anisotropic scattering in designer photonic structures with short-range order. *Physical Review A*, **2020**, 102,	2.6	2
23	Light transport in three-dimensional photonic crystals **2020**, 197-226		
22	Probing the optimal refractive index profile of disordered silicon nanowires for photon management applications. *Optical Materials*, **2020**, 109, 110241	3.3	1
21	Quantitative analysis of gradient effective refractive index in silicon nanowires for broadband light trapping and anti-reflective properties. *Journal of Applied Physics*, **2019**, 125, 103102	2.5	9
20	The interaction between optical Tamm state and microcavity mode in a planar hybrid plasmonic-photonic structure. *Photonics and Nanostructures - Fundamentals and Applications*, **2019**, 36, 100702	2.6	5
19	A versatile micro-reflectivity setup for probing the optical properties of photonic nanostructures. *Review of Scientific Instruments*, **2019**, 90, 023103	1.7	6

18	Scaling the spatial fluctuation of spontaneous emission suppression in photonic crystals. *Optics Letters*, **2019**, 44, 2811	3	3
17	Polarization-dependent multiple Bragg diffraction in the high-energy region of three-dimensional photonic crystals. *Journal of the Optical Society of America B: Optical Physics*, **2019**, 36, 2338	1.7	1
16	Nanophotonic control of the color center emission from nanodiamonds. *Optics Letters*, **2018**, 43, 3989-3992	3	7
15	Inhibited spontaneous emission using gaplike resonance in disordered photonic structures. *Physical Review A*, **2018**, 98,	2.6	4
14	Observation of wavelength-dependent shift in Brewster angle in 3D photonic crystals. *Journal of Optics (United Kingdom)*, **2017**, 19, 065001	1.7	1
13	Polarization-selective branching of stop gaps in three-dimensional photonic crystals. *Physical Review A*, **2016**, 93,	2.6	14
12	Interaction between dual cavity modes in a planar photonic microcavity. *Journal of Modern Optics*, **2016**, 63, 1981-1991	1.1	5
11	Multiple Bragg diffraction at W point in the face centered cubic photonic crystals. *Journal of Nanophotonics*, **2015**, 9, 093076	1.1	4
10	Engineering disorder in three-dimensional photonic crystals. *Photonics and Nanostructures - Fundamentals and Applications*, **2012**, 10, 581-588	2.6	4
9	Observation of sub-Bragg diffraction of waves in crystals. *Physical Review Letters*, **2012**, 108, 083901	7.4	10
8	Photonic-band-edge-induced lasing in self-assembled dye-activated photonic crystals. *Physical Review A*, **2012**, 85,	2.6	30
7	Bragg wave coupling in self-assembled opal photonic crystals. *Physical Review A*, **2012**, 85,	2.6	11
6	Signature of a three-dimensional photonic band gap observed on silicon inverse woodpile photonic crystals. *Physical Review B*, **2011**, 83,	3.3	33
5	Photonic crystal sensors: An overview. *Progress in Quantum Electronics*, **2010**, 34, 89-134	9.1	207
4	Tunable photonic stop band in the wavelength region of fiber-optic communication. *Optical Materials*, **2009**, 32, 387-391	3.3	3
3	Multiple Bragg diffraction in polymeric photonic crystals. *Applied Optics*, **2009**, 48, G59-63	0.2	2
2	Emission studies on photonic crystals fabricated using dyed polystyrene colloids. *Journal of Applied Physics*, **2007**, 102, 123106	2.5	21
1	Observation of higher-order diffraction features in self-assembled photonic crystals. *Physical Review A*, **2007**, 76,	2.6	29