

# Parag B Deotare

## List of Publications by Year in descending order

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Version: 2024-02-01

57  
papers

2,844  
citations

257357

24  
h-index

265120

42  
g-index

58  
all docs

58  
docs citations

58  
times ranked

3695  
citing authors

#	ARTICLE	IF	CITATIONS
1	High quality factor photonic crystal nanobeam cavities. Applied Physics Letters, 2009, 94, .	1.5	416
2	Photonic crystal nanobeam cavity strongly coupled to the feeding waveguide. Applied Physics Letters, 2010, 96, .	1.5	304
3	Diamond nonlinear photonics. Nature Photonics, 2014, 8, 369-374.	15.6	291
4	Visualization of exciton transport in ordered and disordered molecular solids. Nature Communications, 2014, 5, 3646.	5.8	270
5	Nanoscale transport of charge-transfer states in organic donor-acceptor blends. Nature Materials, 2015, 14, 1130-1134.	13.3	159
6	Programmable photonic crystal nanobeam cavities. Optics Express, 2010, 18, 8705.	1.7	118
7	All optical reconfiguration of optomechanical filters. Nature Communications, 2012, 3, 846.	5.8	108
8	Submicrometer-wide amorphous and polycrystalline anatase TiO <sub>2</sub> waveguides for microphotonic devices. Optics Express, 2012, 20, 23821.	1.7	107
9	Photonic crystal nanobeam lasers. Applied Physics Letters, 2010, 97, .	1.5	105
10	Coupled photonic crystal nanobeam cavities. Applied Physics Letters, 2009, 95, .	1.5	92
11	Integrated TiO <sub>2</sub> resonators for visible photonics. Optics Letters, 2012, 37, 539.	1.7	81
12	Fabrication and characterization of high-quality-factor silicon nitride nanobeam cavities. Optics Letters, 2011, 36, 421.	1.7	78
13	Surface plasmon polariton laser based on a metallic trench Fabry-Perot resonator. Science Advances, 2017, 3, e1700909.	4.7	70
14	Integrated High-Quality Factor Optical Resonators in Diamond. Nano Letters, 2013, 13, 1898-1902.	4.5	68
15	Single particle detection in CMOS compatible photonic crystal nanobeam cavities. Optics Express, 2013, 21, 32225.	1.7	66
16	Interlayer Exciton Transport in MoSe <sub>2</sub> /WSe <sub>2</sub> Heterostructures. ACS Nano, 2021, 15, 1539-1547.	7.3	61
17	Exciton transport in strained monolayer WSe <sub>2</sub> . Applied Physics Letters, 2018, 113, .	1.5	58
18	Photonic Crystal Nanobeam Cavities for Tunable Filter and Router Applications. IEEE Journal of Selected Topics in Quantum Electronics, 2013, 19, 3600210-3600210.	1.9	48

#	ARTICLE	IF	CITATIONS
19	High-Q transverse-electric/transverse-magnetic photonic crystal nanobeam cavities. Applied Physics Letters, 2011, 98, .	1.5	38
20	Fabrication of silica nanocomposite-cups using electrospraying. Nanotechnology, 2006, 17, 1380-1383.	1.3	33
21	Optomechanical and photothermal interactions in suspended photonic crystal membranes. Optics Express, 2013, 21, 7258.	1.7	32
22	Hot exciton transport in $WS_2$ monolayers. Physical Review B, 2019, 100, .	1.1	31
23	Integrated Fabrication and Magnetic Positioning of Metallic and Polymeric Nanowires Embedded in Thin Epoxy Slabs. ACS Nano, 2009, 3, 3315-3325.	7.3	30
24	Efficient Energy Transfer across Organic-2D Inorganic Heterointerfaces. ACS Applied Materials & Interfaces, 2018, 10, 39336-39342.	4.0	27
25	Ultracompact Low-Threshold Organic Laser. ACS Nano, 2014, 8, 11080-11085.	7.3	24
26	Spatiotemporally controlled room-temperature exciton transport under dynamic strain. Nature Photonics, 2022, 16, 242-247.	15.6	24
27	Piezoelectric Modulation of Excitonic Properties in Monolayer $WSe_2$ under Strong Dielectric Screening. ACS Nano, 2021, 15, 12334-12341.	7.3	14
28	Two-dimensional charge order stabilized in clean polytype heterostructures. Nature Communications, 2022, 13, 413.	5.8	14
29	Dielectric Engineering for Manipulating Exciton Transport in Semiconductor Monolayers. Nano Letters, 2021, 21, 8409-8417.	4.5	12
30	Non-linear mixing in coupled photonic crystal nanobeam cavities due to cross-coupling opto-mechanical mechanisms. Applied Physics Letters, 2014, 105, 181121.	1.5	10
31	Energy Transport of Hybrid Charge-Transfer Excitons. ACS Nano, 2020, 14, 10462-10470.	7.3	10
32	Neutralizing Defect States in $MoS_2$ Monolayers. ACS Applied Materials & Interfaces, 2021, 13, 44686-44692.	4.0	8
33	Nanoelectromechanical tunneling switches based on self-assembled molecular layers. , 2014, , .		7
34	Optical Determination of Young's Modulus of Nanoscale Organic Semiconductor Thin Films for Flexible Devices. ACS Applied Nano Materials, 2020, 3, 992-1001.	2.4	4
35	Waveguiding properties of perylene microcrystals synthesized by retarding the growth along the $\pi$ -stack direction. Chemical Communications, 2021, 57, 3111-3114.	2.2	4
36	Strain-induced formation of self-assembled InGaN/GaN superlattices in nominal InGaN films grown by plasma-assisted molecular beam epitaxy. Physical Review Materials, 2021, 5, .	0.9	4

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37	Improved photoluminescence characteristics of order-disorder AlGaInP quantum wells at room and elevated temperatures. Applied Physics Letters, 2015, 106, .	1.5	3
38	Self-Erasable and Rewritable Optoexcitonic Platform for Antitamper Hardware. Advanced Optical Materials, 2020, 8, 2001287.	3.6	3
39	Vapor phase release of silicon nanostructures for optomechanics application. , 2009, , .		2
40	Piezoelectric Effect at Nanoscale. , 2012, , 2085-2099.		2
41	Controlled fabrication of nanoscale gaps using stiction. , 2015, , .		2
42	Sorting of Silica Nanocups by Diameter during Fabrication Process. Journal of Nanomaterials, 2007, 2007, 1-4.	1.5	1
43	Waveguide integrated plasmonic platform for sensing and spectroscopy. Proceedings of SPIE, 2011, , .	0.8	1
44	Polymer Coatings. , 2012, , 2167-2174.		1
45	Two-dimensional charge order stabilized in clean polytype heterostructures. Microscopy and Microanalysis, 2021, 27, 896-898.	0.2	1
46	Strain sensitivity of dielectric polarization to doping in a host: guest medium. Optical Materials Express, 2020, 10, 3021.	1.6	1
47	Design, Fabrication and Characterization of Si <sub>3</sub> N <sub>4</sub> Photonic Crystal Nanocavities for Diamond-based Quantum Information Processing Applications. Materials Research Society Symposia Proceedings, 2008, 1145, 1.	0.1	0
48	All-optical control of opto-mechanical properties of photonic crystal nano-beam filter. , 2011, , .		0
49	Plasmon Resonance Energy Transfer from Metallic Nanoparticles to Biomolecules. , 2012, , 2126-2126.		0
50	Propylene Glycol Methyl Ether Acetate (PGMEA). , 2012, , 2180-2180.		0
51	Hybrid Organic-2D Material Interfaces for Optoelectronic Devices. , 2017, , .		0
52	Highly sensitive photodetectors based on organic-inorganic heterostructure. , 2017, , .		0
53	Deterministic Design of Ultrahigh Q and Small Mode Volume Photonic Crystal Nanobeam Cavity. , 2010, , .		0
54	Photonic crystal nanobeam lasers. , 2010, , .		0

#	ARTICLE	IF	CITATIONS
55	Photonic Crystal Nanobeam Cavities. , 2016, , 3166-3176.		0
56	Highly Efficient Energy Transfer Between TMDCs and Organic Materials. , 2018, , .		0
57	Effect of Strain on Excitons in Van Der Waals Solids. , 2022, , .		0