Parag B Deotare

List of Publications by Year
in descending order

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	Effect of Strain on Excitons in Van Der Waals Solids. , 2022, , .		0
2	Two-dimensional charge order stabilized in clean polytype heterostructures. Nature Communications, 2022, 13, 413.	5.8	14
3	Spatiotemporally controlled room-temperature exciton transport under dynamic strain. Nature Photonics, 2022, 16, 242-247.	15.6	24
4	Interlayer Exciton Transport in MoSe₂/WSe₂ Heterostructures. ACS Nano, 2021, 15, 1539-1547.	7.3	61
5	Piezoelectric Modulation of Excitonic Properties in Monolayer WSe₂ under Strong Dielectric Screening. ACS Nano, 2021, 15, 12334-12341.	7.3	14
6	Two-dimensional charge order stabilized in clean polytype heterostructures. Microscopy and Microanalysis, 2021, 27, 896-898.	0.2	1
7	Neutralizing Defect States in MoS₂ Monolayers. ACS Applied Materials & Interfaces, 2021, 13, 44686-44692.	4.0	8
8	Dielectric Engineering for Manipulating Exciton Transport in Semiconductor Monolayers. Nano Letters, 2021, 21, 8409-8417.	4.5	12
9	Waveguiding properties of perylene microcrystals synthesized by retarding the growth along the Ï€-stack direction. Chemical Communications, 2021, 57, 3111-3114.	2.2	4
10	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
11	Optical Determination of Youngâ€™s Modulus of Nanoscale Organic Semiconductor Thin Films for Flexible Devices. ACS Applied Nano Materials, 2020, 3, 992-1001.	2.4	4
12	Selfâ€Erasable and Rewritable Optoexcitonic Platform for Antitamper Hardware. Advanced Optical Materials, 2020, 8, 2001287.	3.6	3
13	Energy Transport of Hybrid Charge-Transfer Excitons. ACS Nano, 2020, 14, 10462-10470.	7.3	10
14	Strain sensitivity of dielectric polarization to doping in a host: guest medium. Optical Materials Express, 2020, 10, 3021.	1.6	1
15	Hot exciton transport in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>WS</mml:mi><mml:msub><mml:mi mathvariant="normal">e</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math> monolayers. Physical Review B, 2019, 100, .	1.1	31
16	Exciton transport in strained monolayer WSe2. Applied Physics Letters, 2018, 113, .	1.5	58
17	Efficient Energy Transfer across Organicâ€“2D Inorganic Heterointerfaces. ACS Applied Materials & Interfaces, 2018, 10, 39336-39342.	4.0	27
18	Highly Efficient Energy Transfer Between TMDCs and Organic Materials. , 2018, , .		0

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19	Surface plasmon polariton laser based on a metallic trench Fabry-Perot resonator. Science Advances, 2017, 3, e1700909.	4.7	70
20	Hybrid Organic-2D Material Interfaces for Optoelectronic Devices. , 2017, , .		0
21	Highly sensitive photodetectors based on organic-inorganic heterostructure. , 2017, , .		0
22	Photonic Crystal Nanobeam Cavities. , 2016, , 3166-3176.		0
23	Controlled fabrication of nanoscale gaps using stiction. , 2015, , .		2
24	Improved photoluminescence characteristics of order-disorder AlGaInP quantum wells at room and elevated temperatures. Applied Physics Letters, 2015, 106, .	1.5	3
25	Nanoscale transport of charge-transfer states in organic donorâ€“acceptor blends. Nature Materials, 2015, 14, 1130-1134.	13.3	159
26	Nanoelectromechanical tunneling switches based on self-assembled molecular layers. , 2014, , .		7
27	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
28	Visualization of exciton transport in ordered and disordered molecular solids. Nature Communications, 2014, 5, 3646.	5.8	270
29	Diamond nonlinear photonics. Nature Photonics, 2014, 8, 369-374.	15.6	291
30	Ultracompact Low-Threshold Organic Laser. ACS Nano, 2014, 8, 11080-11085.	7.3	24
31	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
32	Optomechanical and photothermal interactions in suspended photonic crystal membranes. Optics Express, 2013, 21, 7258.	1.7	32
33	Integrated High-Quality Factor Optical Resonators in Diamond. Nano Letters, 2013, 13, 1898-1902.	4.5	68
34	Single particle detection in CMOS compatible photonic crystal nanobeam cavities. Optics Express, 2013, 21, 32225.	1.7	66
35	All optical reconfiguration of optomechanical filters. Nature Communications, 2012, 3, 846.	5.8	108
36	Integrated TiO_2 resonators for visible photonics. Optics Letters, 2012, 37, 539.	1.7	81

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37	Submicrometer-wide amorphous and polycrystalline anatase TiO_2 waveguides for microphotonic devices. Optics Express, 2012, 20, 23821.	1.7	107
38	Plasmon Resonance Energy Transfer from Metallic Nanoparticles to Biomolecules. , 2012, , 2126-2126.		0
39	Piezoelectric Effect at Nanoscale. , 2012, , 2085-2099.		2
40	Propylene Glycol Methyl Ether Acetate (PGMEA). , 2012, , 2180-2180.		0
41	Polymer Coatings. , 2012, , 2167-2174.		1
42	Fabrication and characterization of high-quality-factor silicon nitride nanobeam cavities. Optics Letters, 2011, 36, 421.	1.7	78
43	All-optical control of opto-mechanical properties of photonic crystal nano-beam filter. , 2011, , .		0
44	High-Q transverse-electric/transverse-magnetic photonic crystal nanobeam cavities. Applied Physics Letters, 2011, 98, .	1.5	38
45	Waveguide integrated plasmonic platform for sensing and spectroscopy. Proceedings of SPIE, 2011, , .	0.8	1
46	Photonic crystal nanobeam lasers. Applied Physics Letters, 2010, 97, .	1.5	105
47	Photonic crystal nanobeam cavity strongly coupled to the feeding waveguide. Applied Physics Letters, 2010, 96, .	1.5	304
48	Programmable photonic crystal nanobeam cavities. Optics Express, 2010, 18, 8705.	1.7	118
49	Deterministic Design of Ultrahigh Q and Small Mode Volume Photonic Crystal Nanobeam Cavity. , 2010, , .		0
50	Photonic crystal nanobeam lasers. , 2010, , .		0
51	High quality factor photonic crystal nanobeam cavities. Applied Physics Letters, 2009, 94, .	1.5	416
52	Coupled photonic crystal nanobeam cavities. Applied Physics Letters, 2009, 95, .	1.5	92
53	Integrated Fabrication and Magnetic Positioning of Metallic and Polymeric Nanowires Embedded in Thin Epoxy Slabs. ACS Nano, 2009, 3, 3315-3325.	7.3	30
54	Vapor phase release of silicon nanostructures for optomechanics application. , 2009, , .		2

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55	Design, Fabrication and Characterization of Si3N4 Photonic Crystal Nanocavities for Diamond-based Quantum Information Processing Applications. Materials Research Society Symposia Proceedings, 2008, 1145, 1.	0.1	0
56	Sorting of Silica Nanocups by Diameter during Fabrication Process. Journal of Nanomaterials, 2007, 2007, 1-4.	1.5	1
57	Fabrication of silica nanocomposite-cups using electrospraying. Nanotechnology, 2006, 17, 1380-1383.	1.3	33