Vinod M Menon

List of Publications by Year
in descending order

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70	4,069	159585	133252
papers	citations	30 h-index	59 g-index

73	73	73	5537
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Strong lightâ€“matter coupling in two-dimensional atomic crystals. Nature Photonics, 2015, 9, 30-34.	31.4	865
2	Topological Transitions in Metamaterials. Science, 2012, 336, 205-209.	12.6	734
3	Visualization of exciton transport in ordered and disordered molecular solids. Nature Communications, 2014, 5, 3646.	12.8	270
4	Optical control of room-temperature valley polaritons. Nature Photonics, 2017, 11, 491-496.	31.4	165
5	Theory for polariton-assisted remote energy transfer. Chemical Science, 2018, 9, 6659-6669.	7.4	158
6	Photoinduced Modification of Single-Photon Emitters in Hexagonal Boron Nitride. ACS Photonics, 2016, 3, 2490-2496.	6.6	109
7	A room-temperature polariton light-emitting diode based on monolayer WS2. Nature Nanotechnology, 2019, 14, 1024-1028.	31.5	106
8	Photoresponse of an Organic Semiconductor/Two-Dimensional Transition Metal Dichalcogenide Heterojunction. Nano Letters, 2017, 17, 3176-3181.	9.1	97
9	Interacting polariton fluids in a monolayer of tungsten disulfide. Nature Nanotechnology, 2018, 13, 906-909.	31.5	96
10	Slow light enhanced singlet exciton fission solar cells with a 126% yield of electrons per photon. Applied Physics Letters, 2013, 103, .	3.3	72
11	Control of Strong Lightâ€“Matter Interaction in Monolayer WS₂ through Electric Field Gating. Nano Letters, 2018, 18, 6455-6460.	9.1	72
12	Photonic hypercrystals for control of lightâ€“matter interactions. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 5125-5129.	7.1	69
13	Exciton-lattice polaritons in multiple-quantum-well-based photonic crystals. Nature Photonics, 2009, 3, 662-666.	31.4	64
14	Direct Observation of Gate-Tunable Dark Trions in Monolayer WSe₂. Nano Letters, 2019, 19, 6886-6893.	9.1	60
15	Guiding of visible photons at the Ã¥ngstrÃ¶m thickness limit. Nature Nanotechnology, 2019, 14, 844-850.	31.5	58
16	Ultralongâ€Range Energy Transport in a Disordered Organic Semiconductor at Room Temperature Via Coherent Excitonâ€Polariton Propagation. Advanced Materials, 2020, 32, e2002127.	21.0	58
17	Room Temperature Frenkel-Wannier-Mott Hybridization of Degenerate Excitons in a Strongly Coupled Microcavity. Physical Review Letters, 2014, 112, 076401.	7.8	56
18	Enhanced nonlinear interaction of polaritons via excitonic Rydberg states in monolayer WSe2. Nature Communications, 2021, 12, 2269.	12.8	55

#	Article	IF	Citations
19	Long-range dipole-dipole interaction and anomalous FÃ¶rster energy transfer across a hyperbolic metamaterial. Physical Review B, 2016, 93, .	3.2	50
20	Lasing from InGaP quantum dots in a spin-coated flexible microcavity. Optics Express, 2008, 16, 19535.	3.4	48
21	Polariton chemistry: Thinking inside the (photon) box. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 5214-5216.	7.1	48
22	Topological phonon-polariton funneling in midinfrared metasurfaces. Science, 2021, 374, 225-227.	12.6	48
23	Strong coupling and hybridization of Frenkel and Wannier-Mott excitons in an organic-inorganic optical microcavity. Physical Review B, 2006, 74, .	3.2	46
24	All-optical nonreciprocity due to valley polarization pumping in transition metal dichalcogenides. Nature Communications, 2021, 12, 3746.	12.8	44
25	Towards polaritonic logic circuits. Nature Photonics, 2010, 4, 345-346.	31.4	43
26	Experimental observation of topological Z2 exciton-polaritons in transition metal dichalcogenide monolayers. Nature Communications, 2021, 12, 4425.	12.8	42
27	Long-Range Resonant Energy Transfer Using Optical Topological Transitions in Metamaterials. ACS Photonics, 2018, 5, 2737-2741.	6.6	38
28	Microcavity-coupled emitters in hexagonal boron nitride. Nanophotonics, 2020, 9, 2937-2944.	6.0	37
29	Quasi-1D exciton channels in strain-engineered 2D materials. Science Advances, 2021, 7, eabj3066.	10.3	37
30	Investigating the distance limit of a metal nanoparticle based spectroscopic ruler. Biomedical Optics Express, 2011, 2, 1727.	2.9	35
31	The Role of Long-Lived Excitons in the Dynamics of Strongly Coupled Molecular Polaritons. ACS Photonics, 2020, 7, 2292-2301.	6.6	34
32	Valley selective optical control of excitons in 2D semiconductors using a chiral metasurface [Invited]. Optical Materials Express, 2019, 9, 536.	3.0	33
33	Dipole-Aligned Energy Transfer between Excitons in Two-Dimensional Transition Metal Dichalcogenide and Organic Semiconductor. ACS Photonics, 2018, 5, 100-104.	6.6	29
34	Organic photonic bandgap microcavities doped with semiconductor nanocrystals for room-temperature on-demand single-photon sources. Journal of Modern Optics, 2009, 56, 167-174.	1.3	28
35	Enhanced nonlinear optical response of metal nanocomposite based photonic crystals. Applied Physics Letters, 2012, 101, .	3.3	24
36	Damage-Free Atomic Layer Etch of WSe₂: A Platform for Fabricating Clean Two-Dimensional Devices. ACS Applied Materials & Interfaces, 2021, 13, 1930-1942.	8.0	24

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37	Propagating Hybrid Tamm Exciton Polaritons in Organic Microcavity. Journal of Physical Chemistry C, 2019, 123, 26509-26515.	3.1	21
38	Coupling of deterministically activated quantum emitters in hexagonal boron nitride to plasmonic surface lattice resonances. Nanophotonics, 2019, 8, 2057-2064.	6.0	18
39	Molecular Emission near Metal Interfaces: The Polaritonic Regime. Journal of Physical Chemistry Letters, 2018, 9, 6511-6516.	4.6	17
40	Selective isomer emission via funneling of exciton polaritons. Science Advances, 2021, 7, eabj0997.	10.3	17
41	Purcell Effect of Plasmonic Surface Lattice Resonances and Its Influence on Energy Transfer. ACS Photonics, 2021, 8, 2211-2219.	6.6	16
42	Optical isolator based on chiral light-matter interactions in a ring resonator integrating a dichroic magneto-optical material. Applied Physics Letters, 2021, 118, .	3.3	13
43	Optical analog of valley Hall effect of 2D excitons in hyperbolic metamaterial. Optica, 2021, 8, 50.	9.3	12
44	Excitonic Lasing in Solution-Processed Subwavelength Nanosphere Assemblies. Nano Letters, 2016, 16, 2004-2010.	9.1	11
45	Modifying the Spectral Weights of Vibronic Transitions via Strong Coupling to Surface Plasmons. ACS Photonics, 2020, 7, 43-48.	6.6	9
46	Using Fourier-Plane Imaging Microscopy for Determining Transition-Dipole-Moment Orientations in Organic Light-Emitting Devices. Physical Review Applied, 2020, 14, .	3.8	9
47	Ultrafast thermal modification of strong coupling in an organic microcavity. APL Photonics, 2021, 6, 016103.	5.7	9
48	Orienting an Organic Semiconductor into DNA 3D Arrays by Covalent Bonds. Angewandte Chemie - International Edition, 2022, 61, .	13.8	8
49	Lasing from 2D atomic crystals. Nature Materials, 2015, 14, 370-371.	27.5	7
50	Chiral emission of electric dipoles coupled to optical hyperbolic materials. Physical Review B, 2019, 100, .	3.2	7
51	Thermalization of Fluorescent Protein Excitonâ€“Polaritons at Room Temperature. Advanced Materials, 2022, 34, e2109107.	21.0	7
52	Spontaneous emission dynamics of Eu3+ ions coupled to hyperbolic metamaterials. Applied Physics Letters, 2021, 118, 011106.	3.3	6
53	Control of Light-Matter Interaction in 2D Atomic Crystals Using Microcavities. IEEE Journal of Quantum Electronics, 2015, 51, 1-8.	1.9	5
54	Relaxing Symmetry Rules for Nonlinear Optical Interactions in Van der Waals Materials via Strong Lightâ€“Matter Coupling. ACS Photonics, 2022, 9, 503-510.	6.6	5

#	ARTICLE	IF	CITATIONS
55	Investigation of photon emitters in Ce-implanted hexagonal boron nitride. Optical Materials Express, 2021, 11, 3478.	3.0	3
56	Resonant enhancement of magneto-optical polarization conversion in microdisk resonators. Applied Physics Letters, 2011, 99, 241107.	3.3	2
57	Orienting an Organic Semiconductor into DNA 3D Arrays by Covalent Bonds. Angewandte Chemie, 2022, 134, .	2.0	2
58	Photoluminescence modification in self-assembled fluorescent 3D photonic crystals. , 2010, , .		1
59	Colloidal quantum dot based photonic devices. , 2011, , .		1
60	Fluorescence Triggered by Radioactive Î² Decay in Optimized Hyperbolic Cavities. Physical Review Applied, 2020, 14, .	3.8	1
61	Hybridization of Frenkel and Wannier-Mott excitons in an optical microcavity. , 2006, , .		0
62	Spontaneous emission enhancement using hyperbolic metamaterials. , 2011, , .		0
63	Enhanced gain in colloidal quantum dots in all-dielectric microcavities. , 2012, , .		0
64	Optical topological transition in metamaterials: QED and related effects. , 2013, , .		0
65	Light Emission from Atomic Monolayers in a One-Dimensional Microcavity. , 2014, , .		0
66	Valley Selective Optical Emission of 2D Excitons using Chiral Metasurface. , 2018, , .		0
67	Electrical Tuning of Exciton-Polaritons in Monolayer WS<inf>2</inf>. , 2018, , .		0
68	Control of Light-Matter Interaction in 2D Materials. , 2019, , .		0
69	Control of Light-Matter Interaction in two-Dimensional Materials. , 2019, , .		0
70	Polariton electroluminescence in monolayer WS2. , 2019, , .		0