

Vinod M Menon

List of Publications by Year in descending order

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Version: 2024-02-01

70
papers

4,069
citations

159585

30
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133252

59
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73
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73
docs citations

73
times ranked

5537
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Orienting an Organic Semiconductor into DNA 3D Arrays by Covalent Bonds. <i>Angewandte Chemie</i> , 2022, 134, . | 2.0 | 2 |
| 2 | Orienting an Organic Semiconductor into DNA 3D Arrays by Covalent Bonds. <i>Angewandte Chemie - International Edition</i> , 2022, 61, . | 13.8 | 8 |
| 3 | Relaxing Symmetry Rules for Nonlinear Optical Interactions in Van der Waals Materials via Strong Light-Matter Coupling. <i>ACS Photonics</i> , 2022, 9, 503-510. | 6.6 | 5 |
| 4 | Thermalization of Fluorescent Protein Exciton-Polaritons at Room Temperature. <i>Advanced Materials</i> , 2022, 34, e2109107. | 21.0 | 7 |
| 5 | Spontaneous emission dynamics of Eu ³⁺ ions coupled to hyperbolic metamaterials. <i>Applied Physics Letters</i> , 2021, 118, 011106. | 3.3 | 6 |
| 6 | Ultrafast thermal modification of strong coupling in an organic microcavity. <i>APL Photonics</i> , 2021, 6, 016103. | 5.7 | 9 |
| 7 | Enhanced nonlinear interaction of polaritons via excitonic Rydberg states in monolayer WSe ₂ . <i>Nature Communications</i> , 2021, 12, 2269. | 12.8 | 55 |
| 8 | All-optical nonreciprocity due to valley polarization pumping in transition metal dichalcogenides. <i>Nature Communications</i> , 2021, 12, 3746. | 12.8 | 44 |
| 9 | Optical isolator based on chiral light-matter interactions in a ring resonator integrating a dichroic magneto-optical material. <i>Applied Physics Letters</i> , 2021, 118, . | 3.3 | 13 |
| 10 | Experimental observation of topological Z ₂ exciton-polaritons in transition metal dichalcogenide monolayers. <i>Nature Communications</i> , 2021, 12, 4425. | 12.8 | 42 |
| 11 | Purcell Effect of Plasmonic Surface Lattice Resonances and Its Influence on Energy Transfer. <i>ACS Photonics</i> , 2021, 8, 2211-2219. | 6.6 | 16 |
| 12 | Investigation of photon emitters in Ce-implanted hexagonal boron nitride. <i>Optical Materials Express</i> , 2021, 11, 3478. | 3.0 | 3 |
| 13 | Optical analog of valley Hall effect of 2D excitons in hyperbolic metamaterial. <i>Optica</i> , 2021, 8, 50. | 9.3 | 12 |
| 14 | Damage-Free Atomic Layer Etch of WSe ₂ : A Platform for Fabricating Clean Two-Dimensional Devices. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 1930-1942. | 8.0 | 24 |
| 15 | Topological phonon-polariton funneling in midinfrared metasurfaces. <i>Science</i> , 2021, 374, 225-227. | 12.6 | 48 |
| 16 | Quasi-1D exciton channels in strain-engineered 2D materials. <i>Science Advances</i> , 2021, 7, eabj3066. | 10.3 | 37 |
| 17 | Selective isomer emission via funneling of exciton polaritons. <i>Science Advances</i> , 2021, 7, eabj0997. | 10.3 | 17 |
| 18 | Modifying the Spectral Weights of Vibronic Transitions via Strong Coupling to Surface Plasmons. <i>ACS Photonics</i> , 2020, 7, 43-48. | 6.6 | 9 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 19 | The Role of Long-Lived Excitons in the Dynamics of Strongly Coupled Molecular Polaritons. ACS Photonics, 2020, 7, 2292-2301. | 6.6 | 34 |
| 20 | Using Fourier-Plane Imaging Microscopy for Determining Transition-Dipole-Moment Orientations in Organic Light-Emitting Devices. Physical Review Applied, 2020, 14, . | 3.8 | 9 |
| 21 | Fluorescence Triggered by Radioactive \hat{I}^2 Decay in Optimized Hyperbolic Cavities. Physical Review Applied, 2020, 14, . | 3.8 | 1 |
| 22 | Ultralong-Range Energy Transport in a Disordered Organic Semiconductor at Room Temperature Via Coherent Exciton-Polariton Propagation. Advanced Materials, 2020, 32, e2002127. | 21.0 | 58 |
| 23 | Microcavity-coupled emitters in hexagonal boron nitride. Nanophotonics, 2020, 9, 2937-2944. | 6.0 | 37 |
| 24 | Guiding of visible photons at the Ångström thickness limit. Nature Nanotechnology, 2019, 14, 844-850. | 31.5 | 58 |
| 25 | Propagating Hybrid Tamm Exciton Polaritons in Organic Microcavity. Journal of Physical Chemistry C, 2019, 123, 26509-26515. | 3.1 | 21 |
| 26 | Coupling of deterministically activated quantum emitters in hexagonal boron nitride to plasmonic surface lattice resonances. Nanophotonics, 2019, 8, 2057-2064. | 6.0 | 18 |
| 27 | Direct Observation of Gate-Tunable Dark Trions in Monolayer WSe_2 . Nano Letters, 2019, 19, 6886-6893. | 9.1 | 60 |
| 28 | A room-temperature polariton light-emitting diode based on monolayer WS_2 . Nature Nanotechnology, 2019, 14, 1024-1028. | 31.5 | 106 |
| 29 | Valley selective optical control of excitons in 2D semiconductors using a chiral metasurface [Invited]. Optical Materials Express, 2019, 9, 536. | 3.0 | 33 |
| 30 | 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 |
| 31 | Control of Light-Matter Interaction in 2D Materials. , 2019, , . | | 0 |
| 32 | Control of Light-Matter Interaction in two-Dimensional Materials. , 2019, , . | | 0 |
| 33 | Chiral emission of electric dipoles coupled to optical hyperbolic materials. Physical Review B, 2019, 100, . | 3.2 | 7 |
| 34 | Polariton electroluminescence in monolayer WS_2 . , 2019, , . | | 0 |
| 35 | Dipole-Aligned Energy Transfer between Excitons in Two-Dimensional Transition Metal Dichalcogenide and Organic Semiconductor. ACS Photonics, 2018, 5, 100-104. | 6.6 | 29 |
| 36 | Valley Selective Optical Emission of 2D Excitons using Chiral Metasurface. , 2018, , . | | 0 |

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|----|---|------|-----------|
| 37 | Electrical Tuning of Exciton-Polaritons in Monolayer WS ₂ , 2018, , . | | 0 |
| 38 | Molecular Emission near Metal Interfaces: The Polaritonic Regime. Journal of Physical Chemistry Letters, 2018, 9, 6511-6516. | 4.6 | 17 |
| 39 | Control of Strong Light-Matter Interaction in Monolayer WS ₂ through Electric Field Gating. Nano Letters, 2018, 18, 6455-6460. | 9.1 | 72 |
| 40 | Long-Range Resonant Energy Transfer Using Optical Topological Transitions in Metamaterials. ACS Photonics, 2018, 5, 2737-2741. | 6.6 | 38 |
| 41 | Interacting polariton fluids in a monolayer of tungsten disulfide. Nature Nanotechnology, 2018, 13, 906-909. | 31.5 | 96 |
| 42 | Theory for polariton-assisted remote energy transfer. Chemical Science, 2018, 9, 6659-6669. | 7.4 | 158 |
| 43 | Photonic hypercrystals for control of light-matter interactions. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 5125-5129. | 7.1 | 69 |
| 44 | Photoresponse of an Organic Semiconductor/Two-Dimensional Transition Metal Dichalcogenide Heterojunction. Nano Letters, 2017, 17, 3176-3181. | 9.1 | 97 |
| 45 | Optical control of room-temperature valley polaritons. Nature Photonics, 2017, 11, 491-496. | 31.4 | 165 |
| 46 | Photoinduced Modification of Single-Photon Emitters in Hexagonal Boron Nitride. ACS Photonics, 2016, 3, 2490-2496. | 6.6 | 109 |
| 47 | Long-range dipole-dipole interaction and anomalous Förster energy transfer across a hyperbolic metamaterial. Physical Review B, 2016, 93, . | 3.2 | 50 |
| 48 | Excitonic Lasing in Solution-Processed Subwavelength Nanosphere Assemblies. Nano Letters, 2016, 16, 2004-2010. | 9.1 | 11 |
| 49 | Lasing from 2D atomic crystals. Nature Materials, 2015, 14, 370-371. | 27.5 | 7 |
| 50 | Control of Light-Matter Interaction in 2D Atomic Crystals Using Microcavities. IEEE Journal of Quantum Electronics, 2015, 51, 1-8. | 1.9 | 5 |
| 51 | Strong light-matter coupling in two-dimensional atomic crystals. Nature Photonics, 2015, 9, 30-34. | 31.4 | 865 |
| 52 | Visualization of exciton transport in ordered and disordered molecular solids. Nature Communications, 2014, 5, 3646. | 12.8 | 270 |
| 53 | Room Temperature Frenkel-Wannier-Mott Hybridization of Degenerate Excitons in a Strongly Coupled Microcavity. Physical Review Letters, 2014, 112, 076401. | 7.8 | 56 |
| 54 | Light Emission from Atomic Monolayers in a One-Dimensional Microcavity. , 2014, , . | | 0 |

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|----|---|------|-----------|
| 55 | Optical topological transition in metamaterials: QED and related effects. , 2013, , . | | 0 |
| 56 | Slow light enhanced singlet exciton fission solar cells with a 126% yield of electrons per photon. Applied Physics Letters, 2013, 103, . | 3.3 | 72 |
| 57 | Enhanced nonlinear optical response of metal nanocomposite based photonic crystals. Applied Physics Letters, 2012, 101, . | 3.3 | 24 |
| 58 | Enhanced gain in colloidal quantum dots in all-dielectric microcavities. , 2012, , . | | 0 |
| 59 | Topological Transitions in Metamaterials. Science, 2012, 336, 205-209. | 12.6 | 734 |
| 60 | Spontaneous emission enhancement using hyperbolic metamaterials. , 2011, , . | | 0 |
| 61 | Investigating the distance limit of a metal nanoparticle based spectroscopic ruler. Biomedical Optics Express, 2011, 2, 1727. | 2.9 | 35 |
| 62 | Resonant enhancement of magneto-optical polarization conversion in microdisk resonators. Applied Physics Letters, 2011, 99, 241107. | 3.3 | 2 |
| 63 | Colloidal quantum dot based photonic devices. , 2011, , . | | 1 |
| 64 | Towards polaritonic logic circuits. Nature Photonics, 2010, 4, 345-346. | 31.4 | 43 |
| 65 | Photoluminescence modification in self-assembled fluorescent 3D photonic crystals. , 2010, , . | | 1 |
| 66 | 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 |
| 67 | Exciton-lattice polaritons in multiple-quantum-well-based photonic crystals. Nature Photonics, 2009, 3, 662-666. | 31.4 | 64 |
| 68 | Lasing from InGaP quantum dots in a spin-coated flexible microcavity. Optics Express, 2008, 16, 19535. | 3.4 | 48 |
| 69 | Strong coupling and hybridization of Frenkel and Wannier-Mott excitons in an organic-inorganic optical microcavity. Physical Review B, 2006, 74, . | 3.2 | 46 |
| 70 | Hybridization of Frenkel and Wannier-Mott excitons in an optical microcavity. , 2006, , . | | 0 |