

# A Nick Vamivakas

## List of Publications by Year in descending order

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85  
papers

3,936  
citations

126907

33  
h-index

123424

61  
g-index

86  
all docs

86  
docs citations

86  
times ranked

4978  
citing authors

#	ARTICLE	IF	CITATIONS
1	Voltage-controlled quantum light from an atomically thin semiconductor. Nature Nanotechnology, 2015, 10, 507-511.	31.5	500
2	Material platforms for spin-based photonic quantum technologies. Nature Reviews Materials, 2018, 3, 38-51.	48.7	453
3	Spin-resolved quantum-dot resonance fluorescence. Nature Physics, 2009, 5, 198-202.	16.7	251
4	Confluence of resonant laser excitation and bidirectional quantum-dot nuclear-spin polarization. Nature Physics, 2009, 5, 758-763.	16.7	160
5	Optomechanics with levitated particles. Reports on Progress in Physics, 2020, 83, 026401.	20.1	155
6	Observation of spin-dependent quantum jumps via quantum dot resonance fluorescence. Nature, 2010, 467, 297-300.	27.8	133
7	Multi-dimensional single-spin nano-optomechanics with a levitated nanodiamond. Nature Photonics, 2015, 9, 653-657.	31.4	119
8	Enabling room temperature ferromagnetism in monolayer MoS <sub>2</sub> via in situ iron-doping. Nature Communications, 2020, 11, 2034.	12.8	112
9	Strong Extinction of a Far-Field Laser Beam by a Single Quantum Dot. Nano Letters, 2007, 7, 2892-2896.	9.1	98
10	Nanoscale Fluorescence Lifetime Imaging of an Optical Antenna with a Single Diamond NV Center. Nano Letters, 2013, 13, 3807-3811.	9.1	85
11	Observation of nitrogen vacancy photoluminescence from an optically levitated nanodiamond. Optics Letters, 2013, 38, 2976.	3.3	81
12	Quantum-Confined Stark Effect of Individual Defects in a van der Waals Heterostructure. Nano Letters, 2017, 17, 2253-2258.	9.1	81
13	Direct and Scalable Deposition of Atomically Thin Low-Noise MoS <sub>2</sub> Membranes on Apertures. ACS Nano, 2015, 9, 7352-7359.	14.6	79
14	Advances in quantum light emission from 2D materials. Nanophotonics, 2019, 8, 2017-2032.	6.0	74
15	An optical tweezer phonon laser. Nature Photonics, 2019, 13, 402-405.	31.4	70
16	Integrated nanophotonics based on nanowire plasmons and atomically thin material. Optica, 2014, 1, 149.	9.3	68
17	Entanglement limits duality and vice versa. Optica, 2018, 5, 942.	9.3	67
18	Quantum-limited estimation of the axial separation of two incoherent point sources. Optica, 2019, 6, 534.	9.3	64



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37	Experimental demonstration of superresolution of partially coherent light sources using parity sorting. <i>Optics Express</i> , 2021, 29, 22034.	3.4	27
38	Measuring Geometric Phase without Interferometry. <i>Physical Review Letters</i> , 2018, 120, 233602.	7.8	26
39	Observation of site-controlled localized charged excitons in CrI <sub>3</sub> /WSe <sub>2</sub> heterostructures. <i>Nature Communications</i> , 2020, 11, 5502.	12.8	23
40	Coherence effects on estimating two-point separation. <i>Optica</i> , 2021, 8, 243.	9.3	23
41	Mechanically tunable focusing metamirror in the visible. <i>Optics Express</i> , 2019, 27, 15194.	3.4	23
42	Spectral tunability of a plasmonic antenna with a dielectric nanocrystal. <i>Optics Express</i> , 2011, 19, 18175.	3.4	22
43	Electrically tunable valley polarization and valley coherence in monolayer WSe <sub>2</sub> embedded in a van der Waals heterostructure. <i>Optical Materials Express</i> , 2019, 9, 1479.	3.0	22
44	Excited-state spin-resonance spectroscopy of $V_{\text{B}}$ defect centers in hexagonal boron nitride. <i>Nature Communications</i> , 2022, 13, .	12.8	21
45	Modal Majorana Sphere and Hidden Symmetries of Structured-Gaussian Beams. <i>Physical Review Letters</i> , 2020, 125, 123903.	7.8	19
46	Molecular Polaritons Generated from Strong Coupling between CdSe Nanoplatelets and a Dielectric Optical Cavity. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 5030-5038.	4.6	18
47	The effects of substitutional Fe-doping on magnetism in MoS <sub>2</sub> and WS <sub>2</sub> monolayers. <i>Nanotechnology</i> , 2021, 32, 095708.	2.6	18
48	Visible metasurfaces and ruled diffraction gratings: a comparison. <i>Optical Materials Express</i> , 2015, 5, 2895.	3.0	15
49	Terahertz Time-Domain Spectroscopy of Graphene Nanoflakes Embedded in Polymer Matrix. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 391.	2.5	15
50	Exciton-Trion Polaritons in Doped Two-Dimensional Semiconductors. <i>Physical Review Letters</i> , 2021, 126, 127402.	7.8	15
51	Basis-neutral Hilbert-space analyzers. <i>Scientific Reports</i> , 2017, 7, 44995.	3.3	13
52	Confocal super-resolution microscopy based on a spatial mode sorter. <i>Optics Express</i> , 2021, 29, 11784.	3.4	13
53	Polarization-switchable holograms based on efficient, broadband multifunctional metasurfaces in the visible regime. <i>Optics Express</i> , 2018, 26, 30678.	3.4	13
54	Strain tuning of the emission axis of quantum emitters in an atomically thin semiconductor. <i>Optica</i> , 2020, 7, 580.	9.3	13

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55	Tunable Resonant Raman Scattering From Singly Resonant Single Wall Carbon Nanotubes. IEEE Journal of Selected Topics in Quantum Electronics, 2006, 12, 1083-1090.	2.9	11
56	Highly polarized self-assembled chains of single layer InP/(In,Ga)P quantum dots. Applied Physics Letters, 2010, 97, 253113.	3.3	11
57	Electric field tuning of strain-induced quantum emitters in WSe <sub>2</sub> . AIP Advances, 2020, 10, .	1.3	11
58	Laser refrigeration of optically levitated sodium yttrium fluoride nanocrystals. Optics Letters, 2021, 46, 3797.	3.3	10
59	Quantification and observation of genuine three-party coherence: A solution based on classical optics. Physical Review A, 2020, 102, .	2.5	10
60	Photons and (artificial) atoms: an overview of optical spectroscopy techniques on quantum dots. Contemporary Physics, 2010, 51, 17-36.	1.8	9
61	Antiferromagnetic proximity coupling between semiconductor quantum emitters in WSe <sub>2</sub> and van der Waals ferromagnets. Nanoscale, 2021, 13, 832-841.	5.6	9
62	Phase-sensitive detection of dipole radiation in a fiber-based high numerical aperture optical system. Optics Letters, 2007, 32, 970.	3.3	8
63	Spectral and spatial isolation of single tungsten diselenide quantum emitters using hexagonal boron nitride wrinkles. APL Photonics, 2020, 5, 096105.	5.7	7
64	Phase retrieval in generalized optical interferometry systems. Optics Express, 2018, 26, 2191.	3.4	6
65	Interferometric spatial mode analyzer with a bucket detector. Optics Express, 2018, 26, 8719.	3.4	6
66	Propagation of Gaussian Schell-model beams in modulated graded-index media. Optics Express, 2021, 29, 21240.	3.4	6
67	Structure and dispersion of exciton-trion-polaritons in two-dimensional materials: Experiments and theory. Physical Review Research, 2021, 3, .	3.6	6
68	See-through reflective metasurface diffraction grating. Optical Materials Express, 2019, 9, 4070.	3.0	6
69	Levitated Optomechanics. Optics and Photonics News, 2016, 27, 42.	0.5	5
70	Long-term efficiency preservation for gradient phase metasurface diffraction gratings in the visible. Optical Materials Express, 2018, 8, 2125.	3.0	5
71	Polarization coherence theorem: reply. Optica, 2019, 6, 831.	9.3	5
72	Temperature and time stability of process-induced strain engineering on 2D materials. Journal of Applied Physics, 2022, 131, .	2.5	5

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73	Graphene mediated Stark shifting of quantum dot energy levels. Applied Physics Letters, 2016, 108, 211905.	3.3	4
74	Large barrier InAs quantum dots with efficient room temperature photon emission at telecom wavelengths. Applied Physics Letters, 2020, 116, .	3.3	4
75	Chemically Tunable Aspect Ratio Control and Laser Refrigeration of Hexagonal Sodium Yttrium Fluoride Upconverting Materials. Crystal Growth and Design, 2022, 22, 3605-3612.	3.0	4
76	Challenges in the Path Toward a Scalable Silicon Photonics Implementation of Deep Neural Networks. IEEE Journal of Quantum Electronics, 2019, 55, 1-10.	1.9	3
77	A Fourier processor for partially coherent fields. OSA Continuum, 2020, 3, 2843.	1.8	3
78	Higher order correlations in a levitated nanoparticle phonon laser. Optics Express, 2020, 28, 4234.	3.4	3
79	Do remote boundary conditions affect photodetection?. Journal of Modern Optics, 2019, 66, 1116-1123.	1.3	2
80	Wide-Field Magnetic and Thermal Imaging of Electric Currents Using NV <sup>0</sup> Centers in Nanodiamond Ensembles. , 2021, , .		1
81	Anomalous spatial coherence changes in radiation and scattering. Optics Express, 2021, 29, 21300.	3.4	1
82	Site-Controlled and Optically Accessible Single Spins in van der Waals Heterostructures. , 2021, , .		0
83	Higher order correlations in a levitated nanoparticle phonon laser. , 2019, , .		0
84	Mie particle Phonon Laser. , 2019, , .		0
85	Majorana Representation and Hidden Symmetries of Structured-Gaussian Beams. , 2020, , .		0