Konstantinos G Lagoudakis

List of Publications by Year
in descending order

63	4,273	136950 32	189892 50
papers	citations	h-index	g-index

64	64	64	4015
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Inverse design and demonstration of a compact and broadband on-chip wavelength demultiplexer. Nature Photonics, 2015, 9, 374-377.	31.4	756
2	Quantized vortices in an excitonâ€“polariton condensate. Nature Physics, 2008, 4, 706-710.	16.7	603
3	Superconducting nanowire photon-number-resolving detector at telecommunication wavelengths. Nature Photonics, 2008, 2, 302-306.	31.4	351
4	Observation of Half-Quantum Vortices in an Exciton-Polariton Condensate. Science, 2009, 326, 974-976.	12.6	294
5	Coherent Oscillations in an Exciton-Polariton Josephson Junction. Physical Review Letters, 2010, 105, 120403.	7.8	188
6	Scalable Quantum Photonics with Single Color Centers in Silicon Carbide. Nano Letters, 2017, 17, 1782-1786.	9.1	129
7	Inverse design and implementation of a wavelength demultiplexing grating coupler. Scientific Reports, 2014, 4, 7210.	3.3	118
8	Spatiotemporal light control with frequency-gradient metasurfaces. Science, 2019, 365, 374-377.	12.6	117
9	Strongly Cavity-Enhanced Spontaneous Emission from Silicon-Vacancy Centers in Diamond. Nano Letters, 2018, 18, 1360-1365.	9.1	112
10	Probing the Dynamics of Spontaneous Quantum Vortices in Polariton Superfluids. Physical Review Letters, 2011, 106, 115301.	7.8	110
11	Coherent Generation of Nonclassical Light on Chip via Detuned Photon Blockade. Physical Review Letters, 2015, 114, 233601.	7.8	109
12	Inverse-designed diamond photonics. Nature Communications, 2019, 10, 3309.	12.8	109
13	Spontaneous Pattern Formation in a Polariton Condensate. Physical Review Letters, 2011, 107, 106401.	7.8	88
14	Nonclassical higher-order photon correlations with a quantum dot strongly coupled to a photonic-crystal nanocavity. Physical Review A, 2014, 90, .	2.5	70
15	Coexisting nonequilibrium condensates with long-range spatial coherence in semiconductor microcavities. Physical Review B, 2009, 80, .	3.2	67
16	Synchronized and Desynchronized Phases of Exciton-Polariton Condensates in the Presence of Disorder. Physical Review Letters, 2008, 100, 170401.	7.8	66
17	Dynamics of Long-Range Ordering in an Exciton-Polariton Condensate. Physical Review Letters, 2009, 103, 256402.	7.8	56
18	Spontaneous Symmetry Breaking in a Polariton and Photon Laser. Physical Review Letters, 2012, 109, 016404.	7.8	53

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19	Photon blockade in two-emitter-cavity systems. Physical Review A, 2017, 96, .	2.5	53
20	Nanodiamond Integration with Photonic Devices. Laser and Photonics Reviews, 2019, 13, 1800316.	8.7	50
21	Polariton Condensation in a One-Dimensional Disordered Potential. Physical Review Letters, 2011, 106, 176401.	7.8	46
22	Dissociation dynamics of singly charged vortices into half-quantum vortex pairs. Nature Communications, 2012, 3, 1309.	12.8	46
23	Hybrid Group IV Nanophotonic Structures Incorporating Diamond Silicon-Vacancy Color Centers. Nano Letters, 2016, 16, 212-217.	9.1	46
24	Dynamical modeling of pulsed two-photon interference. New Journal of Physics, 2016, 18, 113053.	2.9	45
25	Spin-to-orbital angular momentum conversion in semiconductor microcavities. Physical Review B, 2011, 83, .	3.2	42
26	Visible Photoluminescence from Cubic (3C) Silicon Carbide Microdisks Coupled to High Quality Whispering Gallery Modes. ACS Photonics, 2015, 2, 14-19.	6.6	42
27	Ultrafast Polariton-Phonon Dynamics of Strongly Coupled Quantum Dot-Nanocavity Systems. Physical Review X, 2015, 5, .	8.9	41
28	Complete Coherent Control of a Quantum Dot Strongly Coupled to a Nanocavity. Scientific Reports, 2016, 6, 25172.	3.3	41
29	Cavity-Enhanced Raman Emission from a Single Color Center in a Solid. Physical Review Letters, 2018, 121, 083601.	7.8	41
30	Spontaneous self-ordered states of vortex-antivortex pairs in a polariton condensate. Physical Review B, 2013, 88, .	3.2	37
31	Second-Harmonic Generation in GaAs Photonic Crystal Cavities in (111)B and (001) Crystal Orientations. ACS Photonics, 2014, 1, 516-523.	6.6	36
32	Self-homodyne measurement of a dynamic Mollow triplet in the solid state. Nature Photonics, 2016, 10, 163-166.	31.4	33
33	Complete coherent control of silicon vacancies in diamond nanopillars containing single defect centers. Optica, 2017, 4, 1317.	9.3	33
34	Proposed Coupling of an Electron Spin in a Semiconductor Quantum Dot to a Nanosize Optical Cavity. Physical Review Letters, 2013, 111, 027402.	7.8	28
35	Selective photoexcitation of confined exciton-polariton vortices. Physical Review B, 2010, 82, .	3.2	26
36	Deterministically charged quantum dots in photonic crystal nanoresonators for efficient spinâ€“photon interfaces. New Journal of Physics, 2013, 15, 113056.	2.9	24

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37	On-Chip Architecture for Self-Homodyned Nonclassical Light. Physical Review Applied, 2017, 7, .	3.8	22
38	Tuning the photon statistics of a strongly coupled nanophotonic system. Physical Review A, 2017, 95, .	2.5	20
39	Self-homodyne-enabled generation of indistinguishable photons. Optica, 2016, 3, 931.	9.3	19
40	Exciton-polariton Bose-Einstein condensation: advances and issues. International Journal of Nanotechnology, 2010, 7, 668.	0.2	17
41	Observation of Mollow Triplets with Tunable Interactions in Double Lambda Systems of Individual Hole Spins. Physical Review Letters, 2017, 118, 013602.	7.8	15
42	Initialization of a spin qubit in a site-controlled nanowire quantum dot. New Journal of Physics, 2016, 18, 053024.	2.9	13
43	Hybrid metal-dielectric nanocavity for enhanced light-matter interactions. Optical Materials Express, 2017, 7, 231.	3.0	13
44	Photo-oxidative tuning of individual and coupled GaAs photonic crystal cavities. Optics Express, 2014, 22, 15017.	3.4	11
45	Penrose-Onsager Criterion Validation in a One-Dimensional Polariton Condensate. Physical Review Letters, 2012, 109, 150409.	7.8	9
46	Ultrafast coherent manipulation of trions in site-controlled nanowire quantum dots. Optica, 2016, 3, 1430.	9.3	9
47	Hole-spin pumping and repumping in a<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>p</mml:mi></mml:math>-type Î´-doped InAs quantum dot. Physical Review B, 2014, 90, .	3.2	7
48	Inverse Design of a Wavelength Demultiplexer. , 2016, , .		2
49	Inverse design and implementation of a wavelength demultiplexing grating coupler. , 2015, , .		1
50	Reply to 'On nanostructured silicon success'. Nature Photonics, 2016, 10, 143-144.	31.4	1
51	Tuning the Photon Statistics of a Strongly Coupled Nanophotonic System. , 2017, , .		1
52	Operation of a continuous flow liquid helium magnetic microscopy cryostat as a closed cycle system. Review of Scientific Instruments, 2021, 92, 123701.	1.3	1
53	Coexisting Polariton Condensates and Their Temporal Coherence in Semiconductor Microcavities. Springer Series in Solid-state Sciences, 2012, , 147-171.	0.3	0
54	Inverse design and implementation of nanophotonic devices. , 2015, , .		0

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55	Strong Cavity Enhancement of Spontaneous Emission from Silicon-Vacancy Centers in Diamond. , 2018, , .		0
56	Vortices in Spontaneous Boseâ€“Einstein Condensates of Excitonâ€“Polaritons. Springer Series in Solid-state Sciences, 2012, , 67-84.	0.3	0
57	Nanophotonics in novel Ï‡(2)-materials: (111)-GaAs and 3C-SiC. , 2015, , .		0
58	Nanocavity-enabled Ultrafast Generation of Highly-indistinguishable Photons. , 2016, , .		0
59	Emitter-Cavity Coupling in Hybrid Silicon Carbide-Nanodiamond Microdisk Resonators. , 2016, , .		0
60	Low Strain Silicon-Vacancy Color Centers in Diamond Nanopillar Arrays. , 2016, , .		0
61	Complete Coherent Control of a Strongly Coupled Quantum Dot-Cavity Polariton System. , 2016, , .		0
62	Effects of Homodyne Interference on Jaynes-Cummings Emission for Single Photon Generation. , 2017, , .		0
63	Frequency Tunable Single-Photon Emission From a Single Atomic Defect in a Solid. , 2019, , .		0