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	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
2	Nanodiamond Integration with Photonic Devices. Laser and Photonics Reviews, 2019, 13, 1800316.	8.7	50
3	Inverse-designed diamond photonics. Nature Communications, 2019, 10, 3309.	12.8	109
4	Spatiotemporal light control with frequency-gradient metasurfaces. Science, 2019, 365, 374-377.	12.6	117
5	Frequency Tunable Single-Photon Emission From a Single Atomic Defect in a Solid. , 2019, , .		0
6	Strongly Cavity-Enhanced Spontaneous Emission from Silicon-Vacancy Centers in Diamond. Nano Letters, 2018, 18, 1360-1365.	9.1	112
7	Strong Cavity Enhancement of Spontaneous Emission from Silicon-Vacancy Centers in Diamond. , 2018, , .		0
8	Cavity-Enhanced Raman Emission from a Single Color Center in a Solid. Physical Review Letters, 2018, 121, 083601.	7.8	41
9	Observation of Mollow Triplets with Tunable Interactions in Double Lambda Systems of Individual Hole Spins. Physical Review Letters, 2017, 118, 013602.	7.8	15
10	Scalable Quantum Photonics with Single Color Centers in Silicon Carbide. Nano Letters, 2017, 17, 1782-1786.	9.1	129
11	On-Chip Architecture for Self-Homodyned Nonclassical Light. Physical Review Applied, 2017, 7, .	3.8	22
12	Photon blockade in two-emitter-cavity systems. Physical Review A, 2017, 96, .	2.5	53
13	Tuning the photon statistics of a strongly coupled nanophotonic system. Physical Review A, 2017, 95, .	2.5	20
14	Hybrid metal-dielectric nanocavity for enhanced light-matter interactions. Optical Materials Express, 2017, 7, 231.	3.0	13
15	Complete coherent control of silicon vacancies in diamond nanopillars containing single defect centers. Optica, 2017, 4, 1317.	9.3	33
16	Tuning the Photon Statistics of a Strongly Coupled Nanophotonic System. , 2017, , .		1
17	Effects of Homodyne Interference on Jaynes-Cummings Emission for Single Photon Generation. , 2017, , .		0
18	Ultrafast coherent manipulation of trions in site-controlled nanowire quantum dots. Optica, 2016, 3, 1430.	9.3	9

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19	Dynamical modeling of pulsed two-photon interference. New Journal of Physics, 2016, 18, 113053.	2.9	45
20	Complete Coherent Control of a Quantum Dot Strongly Coupled to a Nanocavity. Scientific Reports, 2016, 6, 25172.	3.3	41
21	Initialization of a spin qubit in a site-controlled nanowire quantum dot. New Journal of Physics, 2016, 18, 053024.	2.9	13
22	Self-homodyne measurement of a dynamic Mollow triplet in the solid state. Nature Photonics, 2016, 10, 163-166.	31.4	33
23	Hybrid Group IV Nanophotonic Structures Incorporating Diamond Silicon-Vacancy Color Centers. Nano Letters, 2016, 16, 212-217.	9.1	46
24	Reply to 'On nanostructured silicon success'. Nature Photonics, 2016, 10, 143-144.	31.4	1
25	Self-homodyne-enabled generation of indistinguishable photons. Optica, 2016, 3, 931.	9.3	19
26	Nanocavity-enabled Ultrafast Generation of Highly-indistinguishable Photons. , 2016, , .		0
27	Inverse Design of a Wavelength Demultiplexer. , 2016, , .		2
28	Emitter-Cavity Coupling in Hybrid Silicon Carbide-Nanodiamond Microdisk Resonators. , 2016, , .		0
29	Low Strain Silicon-Vacancy Color Centers in Diamond Nanopillar Arrays. , 2016, , .		0
30	Complete Coherent Control of a Strongly Coupled Quantum Dot-Cavity Polariton System. , 2016, , .		0
31	Coherent Generation of Nonclassical Light on Chip via Detuned Photon Blockade. Physical Review Letters, 2015, 114, 233601.	7.8	109
32	Ultrafast Polariton-Phonon Dynamics of Strongly Coupled Quantum Dot-Nanocavity Systems. Physical Review X, 2015, 5, .	8.9	41
33	Visible Photoluminescence from Cubic (3C) Silicon Carbide Microdisks Coupled to High Quality Whispering Gallery Modes. ACS Photonics, 2015, 2, 14-19.	6.6	42
34	Inverse design and demonstration of a compact and broadband on-chip wavelength demultiplexer. Nature Photonics, 2015, 9, 374-377.	31.4	756
35	Inverse design and implementation of a wavelength demultiplexing grating coupler. , 2015, , .		1
36	Inverse design and implementation of nanophotonic devices. , 2015, , .		0

#	Article	IF	Citations
37	Nanophotonics in novel Ï‡(2)-materials: (111)-GaAs and 3C-SiC. , 2015, , .		0
38	Photo-oxidative tuning of individual and coupled GaAs photonic crystal cavities. Optics Express, 2014, 22, 15017.	3.4	11
39	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
40	Nonclassical higher-order photon correlations with a quantum dot strongly coupled to a photonic-crystal nanocavity. Physical Review A, 2014, 90, .	2.5	70
41	Second-Harmonic Generation in GaAs Photonic Crystal Cavities in (111)B and (001) Crystal Orientations. ACS Photonics, 2014, 1, 516-523.	6.6	36
42	Inverse design and implementation of a wavelength demultiplexing grating coupler. Scientific Reports, 2014, 4, 7210.	3.3	118
43	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
44	Spontaneous self-ordered states of vortex-antivortex pairs in a polariton condensate. Physical Review B, 2013, 88, .	3.2	37
45	Deterministically charged quantum dots in photonic crystal nanoresonators for efficient spinâ€“photon interfaces. New Journal of Physics, 2013, 15, 113056.	2.9	24
46	Dissociation dynamics of singly charged vortices into half-quantum vortex pairs. Nature Communications, 2012, 3, 1309.	12.8	46
47	Penrose-Onsager Criterion Validation in a One-Dimensional Polariton Condensate. Physical Review Letters, 2012, 109, 150409.	7.8	9
48	Coexisting Polariton Condensates and Their Temporal Coherence in Semiconductor Microcavities. Springer Series in Solid-state Sciences, 2012, , 147-171.	0.3	0
49	Spontaneous Symmetry Breaking in a Polariton and Photon Laser. Physical Review Letters, 2012, 109, 016404.	7.8	53
50	Vortices in Spontaneous Boseâ€“Einstein Condensates of Excitonâ€“Polaritons. Springer Series in Solid-state Sciences, 2012, , 67-84.	0.3	0
51	Probing the Dynamics of Spontaneous Quantum Vortices in Polariton Superfluids. Physical Review Letters, 2011, 106, 115301.	7.8	110
52	Spontaneous Pattern Formation in a Polariton Condensate. Physical Review Letters, 2011, 107, 106401.	7.8	88
53	Polariton Condensation in a One-Dimensional Disordered Potential. Physical Review Letters, 2011, 106, 176401.	7.8	46
54	Spin-to-orbital angular momentum conversion in semiconductor microcavities. Physical Review B, 2011, 83, .	3.2	42

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55	Exciton-polariton Bose-Einstein condensation: advances and issues. International Journal of Nanotechnology, 2010, 7, 668.	0.2	17
56	Selective photoexcitation of confined exciton-polariton vortices. Physical Review B, 2010, 82, .	3.2	26
57	Coherent Oscillations in an Exciton-Polariton Josephson Junction. Physical Review Letters, 2010, 105, 120403.	7.8	188
58	Coexisting nonequilibrium condensates with long-range spatial coherence in semiconductor microcavities. Physical Review B, 2009, 80, .	3.2	67
59	Observation of Half-Quantum Vortices in an Exciton-Polariton Condensate. Science, 2009, 326, 974-976.	12.6	294
60	Dynamics of Long-Range Ordering in an Exciton-Polariton Condensate. Physical Review Letters, 2009, 103, 256402.	7.8	56
61	Superconducting nanowire photon-number-resolving detector at telecommunication wavelengths. Nature Photonics, 2008, 2, 302-306.	31.4	351
62	Quantized vortices in an excitonâ€“polariton condensate. Nature Physics, 2008, 4, 706-710.	16.7	603
63	Synchronized and Desynchronized Phases of Exciton-Polariton Condensates in the Presence of Disorder. Physical Review Letters, 2008, 100, 170401.	7.8	66