

Cristian Bonato

List of Publications by Year in descending order

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35
papers

1,584
citations

331538

21
h-index

414303

32
g-index

35
all docs

35
docs citations

35
times ranked

1738
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantum photonics with layered 2D materials. <i>Nature Reviews Physics</i> , 2022, 4, 219-236.	11.9	82
2	Silicon Carbide Photonics Bridging Quantum Technology. <i>ACS Photonics</i> , 2022, 9, 1434-1457.	3.2	40
3	Resource-efficient adaptive Bayesian tracking of magnetic fields with a quantum sensor. <i>Journal of Physics Condensed Matter</i> , 2021, 33, 195801.	0.7	4
4	Resonance Fluorescence from Waveguide-Coupled, Strain-Localized, Two-Dimensional Quantum Emitters. <i>ACS Photonics</i> , 2021, 8, 1069-1076.	3.2	33
5	Online adaptive quantum characterization of a nuclear spin. <i>Npj Quantum Information</i> , 2021, 7, .	2.8	10
6	Optical and dielectric properties of MoO ₃ nanosheets for van der Waals heterostructures. <i>Applied Physics Letters</i> , 2021, 119, .	1.5	10
7	Spin-layer locking of interlayer excitons trapped in moiré potentials. <i>Nature Materials</i> , 2020, 19, 630-636.	13.3	96
8	Electrical Charge State Manipulation of Single Silicon Vacancies in a Silicon Carbide Quantum Optoelectronic Device. <i>Nano Letters</i> , 2019, 19, 7173-7180.	4.5	61
9	High-fidelity spin and optical control of single silicon-vacancy centres in silicon carbide. <i>Nature Communications</i> , 2019, 10, 1954.	5.8	167
10	Bayesian estimation for quantum sensing in the absence of single-shot detection. <i>Physical Review B</i> , 2019, 99, .	1.1	31
11	Atomically-thin quantum dots integrated with lithium niobate photonic chips [Invited]. <i>Optical Materials Express</i> , 2019, 9, 441.	1.6	27
12	Quantum Properties of Dichroic Silicon Vacancies in Silicon Carbide. <i>Physical Review Applied</i> , 2018, 9, .	1.5	90
13	Quantum Frequency Conversion of Single Photons from a Nitrogen-Vacancy Center in Diamond to Telecommunication Wavelengths. <i>Physical Review Applied</i> , 2018, 9, .	1.5	90
14	Adaptive tracking of a time-varying field with a quantum sensor. <i>Physical Review A</i> , 2017, 95, .	1.0	25
15	Design and low-temperature characterization of a tunable microcavity for diamond-based quantum networks. <i>Applied Physics Letters</i> , 2017, 110, .	1.5	41
16	Optimized quantum sensing with a single electron spin using real-time adaptive measurements. <i>Nature Nanotechnology</i> , 2016, 11, 247-252.	15.6	112
17	Manipulating a qubit through the backaction of sequential partial measurements and real-time feedback. <i>Nature Physics</i> , 2014, 10, 189-193.	6.5	104
18	Far-field emission profiles from L3 photonic crystal cavity modes. <i>Photonics and Nanostructures - Fundamentals and Applications</i> , 2013, 11, 37-47.	1.0	6

#	ARTICLE	IF	CITATIONS
19	Single and coupled photonic crystal cavities for solid-state cavity-QED. , 2012, , .		0
20	Optical modes in oxide-apertured micropillar cavities. Optics Letters, 2012, 37, 4678.	1.7	9
21	H1 photonic crystal cavities for hybrid quantum information protocols. Optics Express, 2012, 20, 24714.	1.7	30
22	Strain tuning of quantum dot optical transitions via laser-induced surface defects. Physical Review B, 2011, 84, .	1.1	20
23	Independent electrical tuning of separated quantum dots in coupled photonic crystal cavities. Applied Physics Letters, 2011, 99, 161102.	1.5	9
24	Link budget and background noise for satellite quantum key distribution. Advances in Space Research, 2011, 47, 802-810.	1.2	54
25	Permanent tuning of quantum dot transitions to degenerate microcavity resonances. Applied Physics Letters, 2011, 98, 121111.	1.5	17
26	Solid-state cavity-QED in polarization-degenerate micropillar cavities. , 2011, , .		0
27	Phase control of a path-entangled photon state by a deformable membrane mirror. Journal of the Optical Society of America B: Optical Physics, 2010, 27, A175.	0.9	8
28	CNOT and Bell-state analysis in the weak-coupling cavity QED regime. Physical Review Letters, 2010, 104, 160503.	2.9	252
29	On the Polarization Analysis of Optical Beams for Use in Quantum Communications between Earth and Space. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering. 2010, , 291-296.	0.2	0
30	Tuning micropillar cavity birefringence by laser induced surface defects. Applied Physics Letters, 2009, 95, .	1.5	25
31	Multiparameter entangled-state engineering using adaptive optics. Physical Review A, 2009, 79, .	1.0	12
32	Odd- and Even-Order Dispersion Cancellation in Quantum Interferometry. Physical Review Letters, 2009, 102, 100504.	2.9	35
33	Two-photon spectral coherence matrix and characterization of multi-parameter entangled states. Physics Letters, Section A: General, Atomic and Solid State Physics, 2008, 372, 3109-3117.	0.9	1
34	Even-Order Aberration Cancellation in Quantum Interferometry. Physical Review Letters, 2008, 101, 233603.	2.9	34
35	Influence of satellite motion on polarization qubits in a Space-Earth quantum communication link. Optics Express, 2006, 14, 10050.	1.7	49