

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	CNOT and Bell-state analysis in the weak-coupling cavity QED regime. <i>Physical Review Letters</i> , 2010, 104, 160503.	2.9	252
2	High-fidelity spin and optical control of single silicon-vacancy centres in silicon carbide. <i>Nature Communications</i> , 2019, 10, 1954.	5.8	167
3	Optimized quantum sensing with a single electron spin using real-time adaptive measurements. <i>Nature Nanotechnology</i> , 2016, 11, 247-252.	15.6	112
4	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
5	Spin layer locking of interlayer excitons trapped in moiré potentials. <i>Nature Materials</i> , 2020, 19, 630-636.	13.3	96
6	Quantum Properties of Dichroic Silicon Vacancies in Silicon Carbide. <i>Physical Review Applied</i> , 2018, 9, .	1.5	90
7	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
8	Quantum photonics with layered 2D materials. <i>Nature Reviews Physics</i> , 2022, 4, 219-236.	11.9	82
9	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
10	Link budget and background noise for satellite quantum key distribution. <i>Advances in Space Research</i> , 2011, 47, 802-810.	1.2	54
11	Influence of satellite motion on polarization qubits in a Space-Earth quantum communication link. <i>Optics Express</i> , 2006, 14, 10050.	1.7	49
12	Design and low-temperature characterization of a tunable microcavity for diamond-based quantum networks. <i>Applied Physics Letters</i> , 2017, 110, .	1.5	41
13	Silicon Carbide Photonics Bridging Quantum Technology. <i>ACS Photonics</i> , 2022, 9, 1434-1457.	3.2	40
14	Odd- and Even-Order Dispersion Cancellation in Quantum Interferometry. <i>Physical Review Letters</i> , 2009, 102, 100504.	2.9	35
15	Even-Order Aberration Cancellation in Quantum Interferometry. <i>Physical Review Letters</i> , 2008, 101, 233603.	2.9	34
16	Resonance Fluorescence from Waveguide-Coupled, Strain-Localized, Two-Dimensional Quantum Emitters. <i>ACS Photonics</i> , 2021, 8, 1069-1076.	3.2	33
17	Bayesian estimation for quantum sensing in the absence of single-shot detection. <i>Physical Review B</i> , 2019, 99, .	1.1	31
18	H1 photonic crystal cavities for hybrid quantum information protocols. <i>Optics Express</i> , 2012, 20, 24714.	1.7	30

#	ARTICLE	IF	CITATIONS
19	Atomically-thin quantum dots integrated with lithium niobate photonic chips [Invited]. Optical Materials Express, 2019, 9, 441.	1.6	27
20	Tuning micropillar cavity birefringence by laser induced surface defects. Applied Physics Letters, 2009, 95, .	1.5	25
21	Adaptive tracking of a time-varying field with a quantum sensor. Physical Review A, 2017, 95, .	1.0	25
22	Strain tuning of quantum dot optical transitions via laser-induced surface defects. Physical Review B, 2011, 84, .	1.1	20
23	Permanent tuning of quantum dot transitions to degenerate microcavity resonances. Applied Physics Letters, 2011, 98, 121111.	1.5	17
24	Multiparameter entangled-state engineering using adaptive optics. Physical Review A, 2009, 79, .	1.0	12
25	Online adaptive quantum characterization of a nuclear spin. Npj Quantum Information, 2021, 7, .	2.8	10
26	Optical and dielectric properties of MoO ₃ nanosheets for van der Waals heterostructures. Applied Physics Letters, 2021, 119, .	1.5	10
27	Independent electrical tuning of separated quantum dots in coupled photonic crystal cavities. Applied Physics Letters, 2011, 99, 161102.	1.5	9
28	Optical modes in oxide-apertured micropillar cavities. Optics Letters, 2012, 37, 4678.	1.7	9
29	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
30	Far-field emission profiles from L3 photonic crystal cavity modes. Photonics and Nanostructures - Fundamentals and Applications, 2013, 11, 37-47.	1.0	6
31	Resource-efficient adaptive Bayesian tracking of magnetic fields with a quantum sensor. Journal of Physics Condensed Matter, 2021, 33, 195801.	0.7	4
32	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
33	Single and coupled photonic crystal cavities for solid-state cavity-QED. , 2012, , .		0
34	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
35	Solid-state cavity-QED in polarization-degenerate micropillar cavities. , 2011, , .		0