Mirko Lobino

List of Publications by Year
in descending order

85 papers	3,476 citations	236925 25 h-index	189892 50 g-index
86 all docs	86 docs citations	86 times ranked	3473 citing authors

#	Article	IF	Citations
1	Quantum Walks of Correlated Photons. Science, 2010, 329, 1500-1503.	12.6	749
2	Quantum Memory for Squeezed Light. Physical Review Letters, 2008, 100, 093602.	7.8	321
3	Observation of Dynamic Localization in Periodically Curved Waveguide Arrays. Physical Review Letters, 2006, 96, 243901.	7.8	298
4	Generating, manipulating and measuring entanglement and mixture with a reconfigurable photonic circuit. Nature Photonics, 2012, 6, 45-49.	31.4	239
5	2022 Roadmap on integrated quantum photonics. JPhys Photonics, 2022, 4, 012501.	4.6	152
6	Laser induced self-N-doped porous graphene as an electrochemical biosensor for femtomolar miRNA detection. Carbon, 2020, 163, 385-394.	10.3	118
7	Complete Characterization of Quantum-Optical Processes. Science, 2008, 322, 563-566.	12.6	116
8	Measuring protein concentration with entangled photons. Applied Physics Letters, 2012, 100, .	3.3	116
9	Quantum Walks of Correlated Photon Pairs in Two-Dimensional Waveguide Arrays. Physical Review Letters, 2014, 112, 143604.	7.8	116
10	Laserâ€Reduced Graphene: Synthesis, Properties, and Applications. Advanced Materials Technologies, 2018, 3, 1700315.	5.8	116
11	Femtosecond laser writing of waveguides in periodically poled lithium niobate preserving the nonlinear coefficient. Applied Physics Letters, 2007, 90, 241107.	3.3	94
12	Integrated photonic platform for quantum information with continuous variables. Science Advances, 2018, 4, eaat9331.	10.3	93
13	Fast Path and Polarization Manipulation of Telecom Wavelength Single Photons in Lithium Niobate Waveguide Devices. Physical Review Letters, 2012, 108, 053601.	7.8	87
14	Reference-Frame-Independent Quantum-Key-Distribution Server with a Telecom Tether for an On-Chip Client. Physical Review Letters, 2014, 112, 130501.	7.8	71
15	Tuning the sub-processes in laser reduction of graphene oxide by adjusting the power and scanning speed of laser. Carbon, 2019, 141, 83-91.	10.3	68
16	Generation of correlated photon pairs in a chalcogenide As2S3 waveguide. Applied Physics Letters, 2011, 98, .	3.3	62
17	Memory for Light as a Quantum Process. Physical Review Letters, 2009, 102, 203601.	7.8	53
18	Active demultiplexing of single photons from a solidâ€state source. Laser and Photonics Reviews, 2017, 11, 1600297.	8.7	51

#	Article	IF	Citations
19	Single-Crystalline 3C-SiC anodically Bonded onto Glass: An Excellent Platform for High-Temperature Electronics and Bioapplications. ACS Applied Materials & Interfaces, 2017, 9, 27365-27371.	8.0	49
20	Spatial and temporal characterization of a Bessel beam produced using a conical mirror. Physical Review A, 2009, 79, .	2.5	45
21	Self-Powered Broadband (UV-NIR) Photodetector Based on 3C-SiC/Si Heterojunction. IEEE Transactions on Electron Devices, 2019, 66, 1804-1809.	3.0	44
22	Anisotropic model for the fabrication of annealed and reverse proton exchanged waveguides in congruent lithium niobate. Optics Express, 2015, 23, 1748.	3.4	35
23	Correlated photon-pair generation in a periodically poled MgO doped stoichiometric lithium tantalate reverse proton exchanged waveguide. Applied Physics Letters, 2011, 99, .	3.3	27
24	Scalable ionâ€“photon quantum interface based on integrated diffractive mirrors. Npj Quantum Information, 2017, 3, .	6.7	27
25	Direct characterization of a nonlinear photonic circuitâ€™s wave function with laser light. Light: Science and Applications, 2018, 7, 17143-17143.	16.6	27
26	Frequency conversion between UV and telecom wavelengths in a lithium niobate waveguide for quantum communication with Yb⁺trapped ions. Journal of Optics (United Kingdom), 2016, 18, 104007.	2.2	23
27	Semiclassical motion of a multiband Bloch particle in a time-dependent field: Optical visualization. Physical Review B, 2006, 74, .	3.2	22
28	A single-atom 3D sub-attonewton force sensor. Science Advances, 2018, 4, eaao4453.	10.3	22
29	Multiplexed Quantum Random Number Generation. Quantum - the Open Journal for Quantum Science, 0, 3, 141.	0.0	22
30	Propagation of squeezed vacuum under electromagnetically induced transparency. New Journal of Physics, 2009, 11, 013044.	2.9	19
31	Localized Surface Plasmon Enhanced Laser Reduction of Graphene Oxide for Wearable Strain Sensor. Advanced Materials Technologies, 2021, 6, 2001191.	5.8	16
32	Optical-damage-free guided second-harmonic generation in 1% MgO-doped stoichiometric lithium tantalate. Optics Letters, 2006, 31, 83.	3.3	15
33	Entangled photons on a chip. Nature, 2011, 469, 43-44.	27.8	15
34	High quality buried waveguides in stoichiometric LiTaO3 for nonlinear frequency conversion. Optics Express, 2006, 14, 248.	3.4	14
35	Reconfigurable controlled two-qubit operation on a quantum photonic chip. New Journal of Physics, 2011, 13, 115009.	2.9	14
36	Simultaneously phase-matched second- and third-harmonic generation from 155 Î¼m radiation in annealed proton-exchanged periodically poled lithium niobate waveguides. Optics Letters, 2006, 31, 2707.	3.3	13

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37	Ultrafast, high repetition rate, ultraviolet, fiber-laser-based source: application towards Yb^+ fast quantum-logic. Optics Express, 2016, 24, 16638.	3.4	13
38	3Câ€“SiC on glass: an ideal platform for temperature sensors under visible light illumination. RSC Advances, 2016, 6, 87124-87127.	3.6	12
39	Integrated optics architecture for trapped-ion quantum information processing. Quantum Information Processing, 2016, 15, 5315-5338.	2.2	12
40	Fast electro-optic switching for coherent laser ranging and velocimetry. Applied Physics Letters, 2019, 115, 181103.	3.3	10
41	Multichannel optomechanical switch and locking system for wavemeters. Applied Optics, 2020, 59, 5136.	1.8	10
42	Single Photon Frequency Conversion for Frequency Multiplexed Quantum Networks in the Telecom Band. Physical Review Letters, 2021, 127, 023602.	7.8	9
43	Superconducting nanowire single-photon detector on lithium niobate. Journal of Physics: Conference Series, 2018, 1124, 051025.	0.4	6
44	Nine-channel mid-power bipolar pulse generator based on a field programmable gate array. Review of Scientific Instruments, 2016, 87, 054709.	1.3	5
45	Ion-Photonic Frequency Qubit Correlations for Quantum Networks. Journal of Physics B: Atomic, Molecular and Optical Physics, 0, , .	1.5	5
46	Integrated Optical Device for Frequency Conversion Across the Full Telecom C -Band Spectrum. Physical Review Applied, 2020, 13, .	3.8	4
47	Laser stabilization to neutral Yb in a discharge with polarization-enhanced frequency modulation spectroscopy. Review of Scientific Instruments, 2020, 91, 123002.	1.3	3
48	Studies of thorium and ytterbium ion trap loading from laser ablation for gravity monitoring with nuclear clocks. OSA Continuum, 2020, 3, 2210.	1.8	3
49	Quantum key distribution with integrated optics. , 2014, , .		2
50	Active demultiplexing of single photons from a solidâ€state source (Laser Photonics Rev. 11(3)/2017). Laser and Photonics Reviews, 2017, 11, 1770034.	8.7	2
51	Feasibility study of a coherent feedback squeezer. Physical Review A, 2020, 101, .	2.5	2
52	Scalable Ion-Photon Quantum Interface based on Integrated Diffractive Mirrors. , 2017, , .		2
53	Ultrafast coherent excitation of an ytterbium ion with single laser pulses. Applied Physics Letters, 2021, 119, 214003.	3.3	2
54	Picosecond pulsed squeezing in thin-film lithium niobate strip-loaded waveguides at telecommunication wavelengths. JPhys Photonics, 2022, 4, 035002.	4.6	2

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55	Spatial and temporal characterization of a Bessel beam produced using a conical mirror. , 2009, , .		1
56	Integrated quantum photonics. , 2012, , .		1
57	Integrated Fresnel Mirrors for Scalable Trapped Ion Quantum Computing. , 2016, , .		1
58	Second harmonic generation in reverse-proton-exchanged waveguides fabricated in periodically-poled stoichiometric lithium tantalate. , 0, , .		0
59	Experimental observation of dynamic localization of light in sinusoidally-curved waveguide arrays. , 2006, , .		0
60	Optical parametric generation of nearly transform-limited mid-infrared pulses in dispersion-engineered nonlinear waveguides. Optics Letters, 2008, 33, 2107.	3.3	0
61	Efficient second harmonic generation in femtosecond laser written optical waveguides on periodically poled lithium niobate. , 2008, , .		0
62	Observation of time correlation of photon pairs created in photonic crystal fiber. , 2009, , .		0
63	Coherent-State Quantum Process Tomography. , 2009, , .		0
64	Integrated quantum photonics. , 2010, , .		0
65	A reconfigurable entangling circuit on a photonic chip. , 2011, , .		0
66	Integrated optics components for quantum information. , 2011, , .		0
67	Photonic components for Quantum Information science. , 2011, , .		0
68	Quantum-optical process tomography using coherent states. , 2011, , .		0
69	Quantum tomography of a nonlinear photonic circuit by classical sum-frequency generation measurements. , 2017, , .		0
70	Electromagnetically-Induced Transparency and Squeezed Light. , 2008, , .		0
71	Integrated Quantum Photonics. , 2011, , .		0
72	New Photonic components for Quantum information science. , 2011, , .		0

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73	Generation of Correlated Photons in an Integrated Chalcogenide As_2S_3 Waveguide. , 2011, , .		0
74	Integrated Photonics for Quantum Information Science. , 2011, , .		0
75	New Photonic components for Quantum Information Science. , 2011, , .		0
76	A Reconfigurable Photonic Chip for Generating, Manipulating and Measuring Entanglement and Mixture. , 2012, , .		0
77	Measurement of photon-pair generation in waveguide arrays with specialized poling. , 2016, , .		0
78	A nonlinear waveguide array with inhomogeneous poling pattern for the generation of photon pairs. , 2016, , .		0
79	A nonlinear waveguide array with inhomogeneous poling pattern for the generation of photon pairs and its characterization in the quantum and classical regimes. , 2016, , .		0
80	Single Atom Sub Atto-Newton Force Sensor in Three-Dimensions. , 2017, , .		0
81	Squeezing in lithium niobate waveguides. , 2019, , .		0
82	Ultrafast Ï€-pulses for strong coherent excitation of a 171Yb+ ion. , 2019, , .		0
83	Discrete electro-optic beam steering for LIDAR. , 2019, , .		0
84	Towards long-distance quantum communication using trapped ions and frequency qubits. , 2019, , .		0
85	Dynamic compensation of stray electric fields in an ion trap using machine learning and adaptive algorithm. Scientific Reports, 2022, 12, 7067.	3.3	0