

# Mirko Lobino

## List of Publications by Year in descending order

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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	2022 Roadmap on integrated quantum photonics. JPhys Photonics, 2022, 4, 012501.	4.6	152
2	Dynamic compensation of stray electric fields in an ion trap using machine learning and adaptive algorithm. Scientific Reports, 2022, 12, 7067.	3.3	0
3	Picosecond pulsed squeezing in thin-film lithium niobate strip-loaded waveguides at telecommunication wavelengths. JPhys Photonics, 2022, 4, 035002.	4.6	2
4	Localized Surface Plasmon Enhanced Laser Reduction of Graphene Oxide for Wearable Strain Sensor. Advanced Materials Technologies, 2021, 6, 2001191.	5.8	16
5	Single Photon Frequency Conversion for Frequency Multiplexed Quantum Networks in the Telecom Band. Physical Review Letters, 2021, 127, 023602.	7.8	9
6	Ultrafast coherent excitation of an ytterbium ion with single laser pulses. Applied Physics Letters, 2021, 119, 214003.	3.3	2
7	Laser induced self-N-doped porous graphene as an electrochemical biosensor for femtomolar miRNA detection. Carbon, 2020, 163, 385-394.	10.3	118
8	Feasibility study of a coherent feedback squeezer. Physical Review A, 2020, 101, .	2.5	2
9	Integrated Optical Device for Frequency Conversion Across the Full Telecom C-Band Spectrum. Physical Review Applied, 2020, 13, .	3.8	4
10	Laser stabilization to neutral Yb in a discharge with polarization-enhanced frequency modulation spectroscopy. Review of Scientific Instruments, 2020, 91, 123002.	1.3	3
11	Multichannel optomechanical switch and locking system for wavemeters. Applied Optics, 2020, 59, 5136.	1.8	10
12	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
13	Fast electro-optic switching for coherent laser ranging and velocimetry. Applied Physics Letters, 2019, 115, 181103.	3.3	10
14	Self-Powered Broadband (UV-NIR) Photodetector Based on 3C-SiC/Si Heterojunction. IEEE Transactions on Electron Devices, 2019, 66, 1804-1809.	3.0	44
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	Squeezing in lithium niobate waveguides. , 2019, , .		0
17	Ultrafast ħ-pulses for strong coherent excitation of a $^{171}\text{Yb}^+$ ion. , 2019, , .		0
18	Discrete electro-optic beam steering for LIDAR. , 2019, , .		0

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19	Towards long-distance quantum communication using trapped ions and frequency qubits. , 2019, , .		0
20	Laser-Reduced Graphene: Synthesis, Properties, and Applications. Advanced Materials Technologies, 2018, 3, 1700315.	5.8	116
21	Direct characterization of a nonlinear photonic circuit's wave function with laser light. Light: Science and Applications, 2018, 7, 17143-17143.	16.6	27
22	A single-atom 3D sub-attonewton force sensor. Science Advances, 2018, 4, eaao4453.	10.3	22
23	Superconducting nanowire single-photon detector on lithium niobate. Journal of Physics: Conference Series, 2018, 1124, 051025.	0.4	6
24	Integrated photonic platform for quantum information with continuous variables. Science Advances, 2018, 4, eaat9331.	10.3	93
25	Active demultiplexing of single photons from a solid-state source. Laser and Photonics Reviews, 2017, 11, 1600297.	8.7	51
26	Active demultiplexing of single photons from a solid-state source (Laser Photonics Rev. 11(3)/2017). Laser and Photonics Reviews, 2017, 11, 1770034.	8.7	2
27	Scalable ion-photon quantum interface based on integrated diffractive mirrors. Npj Quantum Information, 2017, 3, .	6.7	27
28	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
29	Quantum tomography of a nonlinear photonic circuit by classical sum-frequency generation measurements. , 2017, , .		0
30	Scalable Ion-Photon Quantum Interface based on Integrated Diffractive Mirrors. , 2017, , .		2
31	Single Atom Sub Atto-Newton Force Sensor in Three-Dimensions. , 2017, , .		0
32	Frequency conversion between UV and telecom wavelengths in a lithium niobate waveguide for quantum communication with Yb <sup>+</sup> trapped ions. Journal of Optics (United Kingdom), 2016, 18, 104007.	2.2	23
33	Nine-channel mid-power bipolar pulse generator based on a field programmable gate array. Review of Scientific Instruments, 2016, 87, 054709.	1.3	5
34	3C-SiC on glass: an ideal platform for temperature sensors under visible light illumination. RSC Advances, 2016, 6, 87124-87127.	3.6	12
35	Ultrafast, high repetition rate, ultraviolet, fiber-laser-based source: application towards Yb <sup>+</sup> fast quantum-logic. Optics Express, 2016, 24, 16638.	3.4	13
36	Integrated optics architecture for trapped-ion quantum information processing. Quantum Information Processing, 2016, 15, 5315-5338.	2.2	12

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37	Measurement of photon-pair generation in waveguide arrays with specialized poling. , 2016, , .		0
38	A nonlinear waveguide array with inhomogeneous poling pattern for the generation of photon pairs. , 2016, , .		0
39	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
40	Integrated Fresnel Mirrors for Scalable Trapped Ion Quantum Computing. , 2016, , .		1
41	Anisotropic model for the fabrication of annealed and reverse proton exchanged waveguides in congruent lithium niobate. Optics Express, 2015, 23, 1748.	3.4	35
42	Quantum key distribution with integrated optics. , 2014, , .		2
43	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
44	Quantum Walks of Correlated Photon Pairs in Two-Dimensional Waveguide Arrays. Physical Review Letters, 2014, 112, 143604.	7.8	116
45	Measuring protein concentration with entangled photons. Applied Physics Letters, 2012, 100, .	3.3	116
46	Integrated quantum photonics. , 2012, , .		1
47	Fast Path and Polarization Manipulation of Telecom Wavelength Single Photons in Lithium Niobate Waveguide Devices. Physical Review Letters, 2012, 108, 053601.	7.8	87
48	Generating, manipulating and measuring entanglement and mixture with a reconfigurable photonic circuit. Nature Photonics, 2012, 6, 45-49.	31.4	239
49	A Reconfigurable Photonic Chip for Generating, Manipulating and Measuring Entanglement and Mixture. , 2012, , .		0
50	A reconfigurable entangling circuit on a photonic chip. , 2011, , .		0
51	Integrated optics components for quantum information. , 2011, , .		0
52	Entangled photons on a chip. Nature, 2011, 469, 43-44.	27.8	15
53	Reconfigurable controlled two-qubit operation on a quantum photonic chip. New Journal of Physics, 2011, 13, 115009.	2.9	14
54	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

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55	Generation of correlated photon pairs in a chalcogenide As <sub>2</sub> S <sub>3</sub> waveguide. Applied Physics Letters, 2011, 98, .	3.3	62
56	Photonic components for Quantum Information science. , 2011, , .		0
57	Quantum-optical process tomography using coherent states. , 2011, , .		0
58	Integrated Quantum Photonics. , 2011, , .		0
59	New Photonic components for Quantum information science. , 2011, , .		0
60	Generation of Correlated Photons in an Integrated Chalcogenide As <sub>2</sub> S <sub>3</sub> Waveguide. , 2011, , .		0
61	Integrated Photonics for Quantum Information Science. , 2011, , .		0
62	New Photonic components for Quantum Information Science. , 2011, , .		0
63	Integrated quantum photonics. , 2010, , .		0
64	Quantum Walks of Correlated Photons. Science, 2010, 329, 1500-1503.	12.6	749
65	Spatial and temporal characterization of a Bessel beam produced using a conical mirror. Physical Review A, 2009, 79, .	2.5	45
66	Propagation of squeezed vacuum under electromagnetically induced transparency. New Journal of Physics, 2009, 11, 013044.	2.9	19
67	Observation of time correlation of photon pairs created in photonic crystal fiber. , 2009, , .		0
68	Spatial and temporal characterization of a Bessel beam produced using a conical mirror. , 2009, , .		1
69	Coherent-State Quantum Process Tomography. , 2009, , .		0
70	Memory for Light as a Quantum Process. Physical Review Letters, 2009, 102, 203601.	7.8	53
71	Complete Characterization of Quantum-Optical Processes. Science, 2008, 322, 563-566.	12.6	116
72	Optical parametric generation of nearly transform-limited mid-infrared pulses in dispersion-engineered nonlinear waveguides. Optics Letters, 2008, 33, 2107.	3.3	0

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73	Quantum Memory for Squeezed Light. Physical Review Letters, 2008, 100, 093602.	7.8	321
74	Efficient second harmonic generation in femtosecond laser written optical waveguides on periodically poled lithium niobate. , 2008, , .		0
75	Electromagnetically-Induced Transparency and Squeezed Light. , 2008, , .		0
76	Femtosecond laser writing of waveguides in periodically poled lithium niobate preserving the nonlinear coefficient. Applied Physics Letters, 2007, 90, 241107.	3.3	94
77	Observation of Dynamic Localization in Periodically Curved Waveguide Arrays. Physical Review Letters, 2006, 96, 243901.	7.8	298
78	Optical-damage-free guided second-harmonic generation in 1% MgO-doped stoichiometric lithium tantalate. Optics Letters, 2006, 31, 83.	3.3	15
79	Simultaneously phase-matched second- and third-harmonic generation from 155 $\mu$ m radiation in annealed proton-exchanged periodically poled lithium niobate waveguides. Optics Letters, 2006, 31, 2707.	3.3	13
80	High quality buried waveguides in stoichiometric LiTaO <sub>3</sub> for nonlinear frequency conversion. Optics Express, 2006, 14, 248.	3.4	14
81	Semiclassical motion of a multiband Bloch particle in a time-dependent field: Optical visualization. Physical Review B, 2006, 74, .	3.2	22
82	Experimental observation of dynamic localization of light in sinusoidally-curved waveguide arrays. , 2006, , .		0
83	Second harmonic generation in reverse-proton-exchanged waveguides fabricated in periodically-poled stoichiometric lithium tantalate. , 0, , .		0
84	Ion-Photonic Frequency Qubit Correlations for Quantum Networks. Journal of Physics B: Atomic, Molecular and Optical Physics, 0, , .	1.5	5
85	Multiplexed Quantum Random Number Generation. Quantum - the Open Journal for Quantum Science, 0, 3, 141.	0.0	22