Marko Loncar

List of Publications by Year
in descending order

77	9,725	40	66
papers	citations	h-index	g-index
		76326	102487

81	81	81	6859
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Integrated lithium niobate electro-optic modulators operating at CMOS-compatible voltages. Nature, 2018, 562, 101-104.	27.8	1,402
2	Monolithic ultra-high-Q lithium niobate microring resonator. Optica, 2017, 4, 1536.	9.3	571
3	An integrated diamond nanophotonics platform for quantum-optical networks. Science, 2016, 354, 847-850.	12.6	570
4	Broadband electro-optic frequency comb generation in a lithium niobate microring resonator. Nature, 2019, 568, 373-377.	27.8	527
5	Integrated photonics on thin-film lithium niobate. Advances in Optics and Photonics, 2021, 13, 242.	25.5	503
6	Nanophotonic lithium niobate electro-optic modulators. Optics Express, 2018, 26, 1547.	3.4	439
7	Large-scale quantum-emitter arrays in atomically thin semiconductors. Nature Communications, 2017, 8, 15093.	12.8	406
8	Ultrahigh-efficiency wavelength conversion in nanophotonic periodically poled lithium niobate waveguides. Optica, 2018, 5, 1438.	9.3	392
9	On-chip zero-index metamaterials. Nature Photonics, 2015, 9, 738-742.	31.4	327
10	Experimental demonstration of memory-enhanced quantum communication. Nature, 2020, 580, 60-64.	27.8	325
11	Monolithic lithium niobate photonic circuits for Kerr frequency comb generation and modulation. Nature Communications, 2019, 10, 978.	12.8	243
12	Chaos-assisted broadband momentum transformation in optical microresonators. Science, 2017, 358, 344-347.	12.6	239
13	Quantum Nonlinear Optics with a Germanium-Vacancy Color Center in a Nanoscale Diamond Waveguide. Physical Review Letters, 2017, 118, 223603.	7.8	218
14	High quality-factor optical nanocavities in bulk single-crystal diamond. Nature Communications, 2014, 5, 5718.	12.8	196
15	Photon-mediated interactions between quantum emitters in a diamond nanocavity. Science, 2018, 362, 662-665.	12.6	189
16	Ultra-low-loss integrated visible photonics using thin-film lithium niobate. Optica, 2019, 6, 380.	9.3	181
17	Ultrabroadband nonlinear optics in nanophotonic periodically poled lithium niobate waveguides. Optica, 2020, 7, 40.	9.3	172
18	Strain engineering of the silicon-vacancy center in diamond. Physical Review B, 2018, 97, .	3.2	171

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19	Electronically programmable photonic molecule. Nature Photonics, 2019, 13, 36-40.	31.4	155
20	2022 Roadmap on integrated quantum photonics. JPhys Photonics, 2022, 4, 012501.	4.6	152
21	Microwave-to-optical conversion using lithium niobate thin-film acoustic resonators. Optica, 2019, 6, 1498.	9.3	152
22	Quantum Network Nodes Based on Diamond Qubits with an Efficient Nanophotonic Interface. Physical Review Letters, 2019, 123, 183602.	7.8	133
23	Diamond optomechanical crystals. Optica, 2016, 3, 1404.	9.3	125
24	Controlling the coherence of a diamond spin qubit through its strain environment. Nature Communications, 2018, 9, 2012.	12.8	120
25	Fiber-Coupled Diamond Quantum Nanophotonic Interface. Physical Review Applied, 2017, 8, .	3.8	115
26	Strongly Cavity-Enhanced Spontaneous Emission from Silicon-Vacancy Centers in Diamond. Nano Letters, 2018, 18, 1360-1365.	9.1	112
27	An integrated nanophotonic quantum register based on silicon-vacancy spins in diamond. Physical Review B, 2019, 100, .	3.2	111
28	Coherent two-octave-spanning supercontinuum generation in lithium-niobate waveguides. Optics Letters, 2019, 44, 1222.	3.3	106
29	Wafer-scale low-loss lithium niobate photonic integrated circuits. Optics Express, 2020, 28, 24452.	3.4	98
30	Coherent acoustic control of a single silicon vacancy spin in diamond. Nature Communications, 2020, 11, 193.	12.8	92
31	On-chip electro-optic frequency shifters and beam splitters. Nature, 2021, 599, 587-593.	27.8	78
32	An Integrated Low-Voltage Broadband Lithium Niobate Phase Modulator. IEEE Photonics Technology Letters, 2019, 31, 889-892.	2.5	76
33	Phononic Band Structure Engineering for High- <i>Q</i> Gigahertz Surface Acoustic Wave Resonators on Lithium Niobate. Physical Review Applied, 2019, 12, .	3.8	70
34	Cavity electro-optics in thin-film lithium niobate for efficient microwave-to-optical transduction. Optica, 2020, 7, 1714.	9.3	66
35	Chip-based self-referencing using integrated lithium niobate waveguides. Optica, 2020, 7, 702.	9.3	63
36	Competition between Raman and Kerr effects in microresonator comb generation. Optics Letters, 2017, 42, 2786.	3.3	56

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37	Efficient quantum microwave-to-optical conversion using electro-optic nanophotonic coupled resonators. Physical Review A, 2017, 96, .	2.5	55
38	Quantum Interference of Electromechanically Stabilized Emitters in Nanophotonic Devices. Physical Review X, 2019, 9, .	8.9	55
39	Realization of high-dimensional frequency crystals in electro-optic microcombs. Optica, 2020, 7, 1189.	9.3	54
40	High-Q chaotic lithium niobate microdisk cavity. Optics Letters, 2018, 43, 2917.	3.3	46
41	Integrated silicon carbide electro-optic modulator. Nature Communications, 2022, 13, 1851.	12.8	46
42	Freestanding nanostructures via reactive ion beam angled etching. APL Photonics, 2017, 2, 051301.	5.7	40
43	Thin-film lithium-niobate electro-optic platform for spectrally tailored dual-comb spectroscopy. Communications Physics, 2022, 5, .	5.3	37
44	Silicon photodetector for integrated lithium niobate photonics. Applied Physics Letters, 2019, 115, .	3.3	34
45	Probing dark exciton navigation through a local strain landscape in a WSe2 monolayer. Nature Communications, 2022, 13, 232.	12.8	32
46	Monolithic CMOS-compatible zero-index metamaterials. Optics Express, 2017, 25, 12381.	3.4	30
47	Spectral Alignment of Single-Photon Emitters in Diamond using Strain Gradient. Physical Review Applied, 2018, 10, .	3.8	30
48	High-performance modified uni-traveling carrier photodiode integrated on a thin-film lithium niobate platform. Photonics Research, 2022, 10, 1338.	7.0	30
49	Faraday cage angled-etching of nanostructures in bulk dielectrics. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2016, 34, .	1.2	28
50	Nanofluidics of Single-Crystal Diamond Nanomechanical Resonators. Nano Letters, 2015, 15, 8070-8076.	9.1	27
51	Design of Efficient Resonator-Enhanced Electro-Optic Frequency Comb Generators. Journal of Lightwave Technology, 2020, 38, 1400-1413.	4.6	25
52	Electrical control of surface acoustic waves. Nature Electronics, 2022, 5, 348-355.	26.0	22
53	High-Q suspended optical resonators in 3C silicon carbide obtained by thermal annealing. Optics Express, 2020, 28, 4938.	3.4	19
54	Chip-Based Lithium-Niobate Frequency Combs. IEEE Photonics Technology Letters, 2019, 31, 1894-1897.	2.5	18

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55	Supercontinuum generation in angle-etched diamond waveguides. Optics Letters, 2019, 44, 4056.	3.3	18
56	Mechanical Control of a Single Nuclear Spin. Physical Review X, 2022, 12, .	8.9	15
57	Optical bistability with a repulsive optical force in coupled silicon photonic crystal membranes. Applied Physics Letters, 2013, 103, .	3.3	14
58	Spectrally separable photon-pair generation in dispersion engineered thin-film lithium niobate. Optics Letters, 2022, 47, 2830.	3.3	14
59	Extended many-body superradiance in diamond epsilon near-zero metamaterials. Applied Physics Letters, 2022, 120, .	3.3	12
60	Development of hard masks for reactive ion beam angled etching of diamond. Optics Express, 2022, 30, 14189.	3.4	11
61	Mechanical and optical nanodevices in single-crystal quartz. Applied Physics Letters, 2017, 111, 263103.	3.3	10
62	Diamond mirrors for high-power continuous-wave lasers. Nature Communications, 2022, 13, 2610.	12.8	9
63	Optical Entanglement of Distinguishable Quantum Emitters. Physical Review Letters, 2022, 128, .	7.8	9
64	A metasurface-based diamond frequency converter using plasmonic nanogap resonators. Nanophotonics, 2020, 10, 589-595.	6.0	8
65	Toward Efficient Microwave-Optical Transduction using Cavity Electro-Optics in Thin-Film Lithium Niobate. , 2020, , .		6
66	Microring Electro-optic Frequency Comb Sources for Dual-Comb Spectroscopy. , 2019, , .		5
67	Telecommunication-wavelength two-dimensional photonic crystal cavities in a thin single-crystal diamond membrane. Applied Physics Letters, 2021, 119, .	3.3	4
68	High-efficiency and broadband electro-optic frequency combs using coupled lithium-niobate microresonators. , 2021, , .		3
69	Microresonator frequency comb generation with simultaneous Kerr and electro-optic nonlinearities. , 2019, , .		3
70	High-<i>Q</i> Lithium Niobate Microcavities and Their Applications. , 2020, , 1-35.		2
71	Diamond quantum nanophotonics and optomechanics. Semiconductors and Semimetals, 2021, 104, 219-251.	0.7	2
72	Integrated Lithium Niobate Photonics and Applications. , 2019, , .		1

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73	Integrated Lithium Niobate Photonic and Applications. , 2019, , .		0
74	An integrated quantum network node in diamond. , 2019, , .		0
75	Electron-phonon coupling between silicon vacancy centers and optomechanical crystals in diamond. , 2019, , .		0
76	A nanophotonic interface to long-lived quantum memories in diamond. , 2019, , .		0
77	Electro-optic frequency shifting using coupled lithium-niobate microring resonators. , 2020, , .		0