Marcin Swillo

List of Publications by Year
in descending order

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64	766	623734	526287
papers	citations	14 h-index	27 g-index

64	64	64	838
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Experimental Decoy-State Quantum Key Distribution with a Sub-Poissionian Heralded Single-Photon Source. Physical Review Letters, 2008, 100, 090501.	7.8	114
2	Surface Second-Harmonic Generation from Vertical GaP Nanopillars. Nano Letters, 2012, 12, 820-826.	9.1	83
3	Photonic crystal optical filter based on contra-directional waveguide coupling. Applied Physics Letters, 2003, 83, 5121-5123.	3.3	81
4	Modal Engineering of Second-Harmonic Generation in Single GaP Nanopillars. Nano Letters, 2014, 14, 5376-5381.	9.1	57
5	Models and measurements for the transmission of submicron-width waveguide bends defined in two-dimensional photonic crystals. IEEE Journal of Quantum Electronics, 2002, 38, 770-785.	1.9	52
6	Time-domain 2D modeling of slab-waveguide based photonic-crystal devices in the presence of radiation losses. Microwave and Optical Technology Letters, 2002, 34, 387-393.	1.4	37
7	Wave propagation through a photonic crystal in a negative phase refractive-index region. IEEE Journal of Selected Topics in Quantum Electronics, 2003, 9, 106-110.	2.9	37
8	Narrowband polarization-entangled photon pairs distributed over a WDM link for qubit networks. Optics Express, 2007, 15, 6926.	3.4	35
9	Optical filter based on two-dimensional photonic crystal surface-mode cavity in amorphous silicon-on-silica structure. Applied Physics Letters, 2007, 90, 041108.	3.3	28
10	Experimental quantification of surface optical nonlinearity in GaP nanopillar waveguides. Optics Express, 2015, 23, 756.	3.4	23
11	In-plane resonant cavities with photonic crystal boundaries etched in InP-based heterostructure. Applied Physics Letters, 2003, 83, 1095-1097.	3.3	21
12	Directional coupler wavelength selective filter based on dispersive Bragg reflection waveguide. Optics Communications, 2006, 260, 514-521.	2.1	20
13	Quantum-polarization state tomography. Physical Review A, 2016, 94, .	2.5	19
14	Two-photon interference from two blinking quantum emitters. Physical Review B, 2017, 96, .	3.2	14
15	Contra-directional coupling between two-dimensional photonic crystal waveguides. Photonics and Nanostructures - Fundamentals and Applications, 2003, 1, 23-30.	2.0	13
16	A single-crystal source of path-polarization entangled photons at non-degenerate wavelengths. Optics Express, 2008, 16, 9701.	3.4	13
17	Junction-type photonic crystal waveguides for notch- and pass-band filtering. Optics Express, 2011, 19, 21074.	3.4	13
18	Ultrasharp ministop-band edge for subnanometer tuning resolution. Applied Physics Letters, 2011, 98, 081112.	3.3	12

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19	Fabryâ€“PÃ©rot cavities based on two-dimensional photonic crystals fabricated in InP membranes. Journal of Applied Physics, 2004, 95, 5928-5930.	2.5	9
20	Novel postetch process to realize high quality photonic crystals in InP. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2011, 29, .	1.2	9
21	Surface second harmonic generation from silicon pillar arrays with strong geometrical dependence. Optics Letters, 2015, 40, 2072.	3.3	9
22	Synthesis of arbitrary, two-mode, high-visibilityN-photon interference patterns. Physical Review A, 2013, 87, .	2.5	7
23	Focused ion beam milling of gallium phosphide nanostructures for photonic applications. Optical Materials Express, 2016, 6, 587.	3.0	7
24	Modal phase matching in nanostructured zinc-blende semiconductors for second-order nonlinear optical interactions. Physical Review B, 2017, 96, .	3.2	7
25	Observation of energy-distribution-dependent homogeneous upconversion in erbium-doped silica glass fibres. Electronics Letters, 1999, 35, 1189.	1.0	7
26	Bloch mode excitation in two-dimensional photonic crystals imaged by Fourier optics. Physical Review B, 2009, 79, .	3.2	5
27	Separation of Optical Modes in a Coupler on the Basis of the Bragg One-Dimensional Grating. Journal of Applied Spectroscopy, 2003, 70, 298-302.	0.7	4
28	Optical add/drop filters using two-dimensional photonic crystals. , 2004, 5279, 286.		4
29	Low-loss photonic crystal and monolithic InP integration: bands, bends, lasers, and filters. , 2004, 5360, 119.		4
30	Negative refraction in two-dimensional photonic crystals. Applied Physics A: Materials Science and Processing, 2005, 80, 1231-1236.	2.3	4
31	Photonic crystal waveguides in InP-based heterostructures. , 2002, , .		3
32	Gallium indium phosphide microstructures with suppressed photoluminescence for applications in nonlinear optics. Optics Letters, 2019, 44, 5117.	3.3	3
33	Low-Temperature Bonding of Nanolayered InGaP/SiO2 Waveguides for Spontaneous-Parametric Down Conversion. ACS Applied Nano Materials, 0, , .	5.0	3
34	Photosensitivity of boron-codoped PECVD films in application to grating-assisted WDM devices. , 2004, , .		2
35	Narrowband polarization-entangled photon pairs distributed over a WDM link for qubit networks. , 2007, , .		2
36	High-aspect-ratio etching and characterization of 2D photonic crystals in InP/InGaAsP/InP heterostructures. , 2004, , .		1

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37	Imprinting of low dispersion Bragg gratings in planar devices for 40 Gbps DWDM systems. , 2005, 5956, 78.		1
38	Experimental demonstration of 2D photonic crystal surface cavity in amorphous silicon on silica structure. , 2007, , .		1
39	Top-Down Fabrication of High Quality Gallium Indium Phosphide Nanopillar/disk Array Structures. , 2019, , .		1
40	GaInP nanowire arrays for color conversion applications. Scientific Reports, 2020, 10, 22368.	3.3	1
41	Optical nonlinearity in chiral nematics for light modulation. , 1998, , .		0
42	Nonlinear liquid crystalline directional coupler. , 1998, 3318, 406.		0
43	Structural optical nonlinearity in chiral nematics. , 1998, 3318, 394.		0
44	<title>Vortex flowmeter with polarimetric sensing</title>. , 1998, , .		0
45	<title>Liquid crystalline fiber optic colorimeter for hydrostatic pressure measurement</title>. , 2001, 4535, 213.		0
46	Group delay-compensated Bragg grating filters for high-speed DWDM systems. , 2006, 6183, 413.		0
47	Quantum Communication in Optical Networks: an Overview and Selected Recent Results. , 2007, , .		0
48	InP-based monolithically integrated 1310/1550nm diplexer/triplexer. Proceedings of SPIE, 2008, , .	0.8	0
49	A single-crystal source of path/polarization entanglement at non-degenerate wavelengths. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2010, 108, 165-169.	0.6	0
50	InP-based photonic crystal waveguide filters. , 2010, , .		0
51	Laser ablation in selected minerals for extracting fluid in inclusions. , 2011, , .		0
52	InP-Based photonic crystal waveguide technology for filtering and sensing applications. , 2011, , .		0
53	Second harmonic generation in GaP nanopillars. , 2011, , .		0
54	Engineering mode-gaps in photonic crystal waveguides for filtering applications. , 2011, , .		0

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55	Surface Optical Nonlinearity in GaP Nanopillar Waveguides. , 2012, , .		0
56	Arbitrary interference curves by coincidence detection: theory and experiment. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2013, 30, 1921.	1.5	0
57	Synthesis of arbitrary interference patterns with high visibility. , 2013, , .		0
58	Investigation of second order optical nonlinearity at the surface of GaP nanowaveguides. , 2013, , .		0
59	Twin-beam parametric processes in nonlinear photonic crystals. , 2014, , .		0
60	Zero-Loss Optical Switch Based on Ionic Liquid Microdroplet Ewod Actuatio. , 2019, , .		0
61	Enhanced Second-Harmonic Generation in GaP Nanopillars Arrays by Modal Engineering. , 2014, , .		0
62	Focused Ion Beam Milling of Gallium Phosphide Nanowaveguides for Non-linear Optical Applications. , 2016, , .		0
63	Modal Phase Matching in Nanostructured Zincblende Semiconductors for Second-Harmonic Generation. , 2017, , .		0
64	Gallium Indium Phosphide Nanostructures with Suppressed Photoluminescence for Applications in Nonlinear Optics. , 2018, , .		0