

# Marcin Swillo

## List of Publications by Year in descending order

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64  
papers

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g-index

64  
all docs

64  
docs citations

64  
times ranked

838  
citing authors

#	ARTICLE	IF	CITATIONS
1	GaNP nanowire arrays for color conversion applications. Scientific Reports, 2020, 10, 22368.	3.3	1
2	Zero-Loss Optical Switch Based on Ionic Liquid Microdroplet Ewod Actuat. , 2019, , .		0
3	Gallium indium phosphide microstructures with suppressed photoluminescence for applications in nonlinear optics. Optics Letters, 2019, 44, 5117.	3.3	3
4	Top-Down Fabrication of High Quality Gallium Indium Phosphide Nanopillar/disk Array Structures. , 2019, , .		1
5	Gallium Indium Phosphide Nanostructures with Suppressed Photoluminescence for Applications in Nonlinear Optics. , 2018, , .		0
6	Two-photon interference from two blinking quantum emitters. Physical Review B, 2017, 96, .	3.2	14
7	Modal phase matching in nanostructured zinc-blende semiconductors for second-order nonlinear optical interactions. Physical Review B, 2017, 96, .	3.2	7
8	Modal Phase Matching in Nanostructured Zincblende Semiconductors for Second-Harmonic Generation. , 2017, , .		0
9	Focused ion beam milling of gallium phosphide nanostructures for photonic applications. Optical Materials Express, 2016, 6, 587.	3.0	7
10	Quantum-polarization state tomography. Physical Review A, 2016, 94, .	2.5	19
11	Focused Ion Beam Milling of Gallium Phosphide Nanowaveguides for Non-linear Optical Applications. , 2016, , .		0
12	Experimental quantification of surface optical nonlinearity in GaP nanopillar waveguides. Optics Express, 2015, 23, 756.	3.4	23
13	Surface second harmonic generation from silicon pillar arrays with strong geometrical dependence. Optics Letters, 2015, 40, 2072.	3.3	9
14	Twin-beam parametric processes in nonlinear photonic crystals. , 2014, , .		0
15	Modal Engineering of Second-Harmonic Generation in Single GaP Nanopillars. Nano Letters, 2014, 14, 5376-5381.	9.1	57
16	Enhanced Second-Harmonic Generation in GaP Nanopillars Arrays by Modal Engineering. , 2014, , .		0
17	Synthesis of arbitrary, two-mode, high-visibilityN-photon interference patterns. Physical Review A, 2013, 87, .	2.5	7
18	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

#	ARTICLE	IF	CITATIONS
19	Synthesis of arbitrary interference patterns with high visibility. , 2013, , .		0
20	Investigation of second order optical nonlinearity at the surface of GaP nanowaveguides. , 2013, , .		0
21	Surface Second-Harmonic Generation from Vertical GaP Nanopillars. Nano Letters, 2012, 12, 820-826.	9.1	83
22	Surface Optical Nonlinearity in GaP Nanopillar Waveguides. , 2012, , .		0
23	Laser ablation in selected minerals for extracting fluid in inclusions. , 2011, , .		0
24	InP-Based photonic crystal waveguide technology for filtering and sensing applications. , 2011, , .		0
25	Junction-type photonic crystal waveguides for notch- and pass-band filtering. Optics Express, 2011, 19, 21074.	3.4	13
26	Second harmonic generation in GaP nanopillars. , 2011, , .		0
27	Ultrasharp ministop-band edge for subnanometer tuning resolution. Applied Physics Letters, 2011, 98, 081112.	3.3	12
28	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
29	Engineering mode-gaps in photonic crystal waveguides for filtering applications. , 2011, , .		0
30	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
31	InP-based photonic crystal waveguide filters. , 2010, , .		0
32	Bloch mode excitation in two-dimensional photonic crystals imaged by Fourier optics. Physical Review B, 2009, 79, .	3.2	5
33	A single-crystal source of path-polarization entangled photons at non-degenerate wavelengths. Optics Express, 2008, 16, 9701.	3.4	13
34	Experimental Decoy-State Quantum Key Distribution with a Sub-Poissonian Heralded Single-Photon Source. Physical Review Letters, 2008, 100, 090501.	7.8	114
35	InP-based monolithically integrated 1310/1550nm diplexer/triplexer. Proceedings of SPIE, 2008, , .	0.8	0
36	Quantum Communication in Optical Networks: an Overview and Selected Recent Results. , 2007, , .		0

#	ARTICLE	IF	CITATIONS
37	Narrowband polarization-entangled photon pairs distributed over a WDM link for qubit networks. , 2007, , .		2
38	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
39	Experimental demonstration of 2D photonic crystal surface cavity in amorphous silicon on silica structure. , 2007, , .		1
40	Narrowband polarization-entangled photon pairs distributed over a WDM link for qubit networks. Optics Express, 2007, 15, 6926.	3.4	35
41	Group delay-compensated Bragg grating filters for high-speed DWDM systems. , 2006, 6183, 413.		0
42	Directional coupler wavelength selective filter based on dispersive Bragg reflection waveguide. Optics Communications, 2006, 260, 514-521.	2.1	20
43	Imprinting of low dispersion Bragg gratings in planar devices for 40 Gbps DWDM systems. , 2005, 5956, 78.		1
44	Negative refraction in two-dimensional photonic crystals. Applied Physics A: Materials Science and Processing, 2005, 80, 1231-1236.	2.3	4
45	Fabry-Pérot cavities based on two-dimensional photonic crystals fabricated in InP membranes. Journal of Applied Physics, 2004, 95, 5928-5930.	2.5	9
46	Optical add/drop filters using two-dimensional photonic crystals. , 2004, 5279, 286.		4
47	Low-loss photonic crystal and monolithic InP integration: bands, bends, lasers, and filters. , 2004, 5360, 119.		4
48	Photosensitivity of boron-codoped PECVD films in application to grating-assisted WDM devices. , 2004, , .		2
49	High-aspect-ratio etching and characterization of 2D photonic crystals in InP/InGaAsP/InP heterostructures. , 2004, , .		1
50	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
51	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
52	Contra-directional coupling between two-dimensional photonic crystal waveguides. Photonics and Nanostructures - Fundamentals and Applications, 2003, 1, 23-30.	2.0	13
53	Photonic crystal optical filter based on contra-directional waveguide coupling. Applied Physics Letters, 2003, 83, 5121-5123.	3.3	81
54	In-plane resonant cavities with photonic crystal boundaries etched in InP-based heterostructure. Applied Physics Letters, 2003, 83, 1095-1097.	3.3	21

#	ARTICLE	IF	CITATIONS
55	Photonic crystal waveguides in InP-based heterostructures. , 2002, , .		3
56	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
57	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
58	<title>Liquid crystalline fiber optic colorimeter for hydrostatic pressure measurement</title>. , 2001, 4535, 213.		0
59	Observation of energy-distribution-dependent homogeneous upconversion in erbium-doped silica glass fibres. Electronics Letters, 1999, 35, 1189.	1.0	7
60	Optical nonlinearity in chiral nematics for light modulation. , 1998, , .		0
61	Nonlinear liquid crystalline directional coupler. , 1998, 3318, 406.		0
62	Structural optical nonlinearity in chiral nematics. , 1998, 3318, 394.		0
63	<title>Vortex flowmeter with polarimetric sensing</title>. , 1998, , .		0
64	Low-Temperature Bonding of Nanolayered InGaP/SiO <sub>2</sub> Waveguides for Spontaneous-Parametric Down Conversion. ACS Applied Nano Materials, 0, , .	5.0	3