

# Wolfram H P Pernice

## List of Publications by Year in descending order

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206  
papers

12,974  
citations

39113

52  
h-index

27587

110  
g-index

216  
all docs

216  
docs citations

216  
times ranked

10507  
citing authors

#	ARTICLE	IF	CITATIONS
1	All-optical spiking neurosynaptic networks with self-learning capabilities. <i>Nature</i> , 2019, 569, 208-214.	13.7	847
2	Integrated all-photon non-volatile multi-level memory. <i>Nature Photonics</i> , 2015, 9, 725-732.	15.6	833
3	Photonics for artificial intelligence and neuromorphic computing. <i>Nature Photonics</i> , 2021, 15, 102-114.	15.6	764
4	Parallel convolutional processing using an integrated photonic tensor core. <i>Nature</i> , 2021, 589, 52-58.	13.7	723
5	Harnessing optical forces in integrated photonic circuits. <i>Nature</i> , 2008, 456, 480-484.	13.7	492
6	Hybrid integrated quantum photonic circuits. <i>Nature Photonics</i> , 2020, 14, 285-298.	15.6	411
7	On-chip photonic synapse. <i>Science Advances</i> , 2017, 3, e1700160.	4.7	399
8	High-speed and high-efficiency travelling wave single-photon detectors embedded in nanophotonic circuits. <i>Nature Communications</i> , 2012, 3, 1325.	5.8	366
9	In-memory computing on a photonic platform. <i>Science Advances</i> , 2019, 5, eaau5759.	4.7	238
10	Tunable bipolar optical interactions between guided lightwaves. <i>Nature Photonics</i> , 2009, 3, 464-468.	15.6	232
11	The rise of intelligent matter. <i>Nature</i> , 2021, 594, 345-355.	13.7	228
12	2022 roadmap on neuromorphic computing and engineering. <i>Neuromorphic Computing and Engineering</i> , 2022, 2, 022501.	2.8	217
13	Dynamic manipulation of nanomechanical resonators in the high-amplitude regime and non-volatile mechanical memory operation. <i>Nature Nanotechnology</i> , 2011, 6, 726-732.	15.6	216
14	Low-Loss, Silicon Integrated, Aluminum Nitride Photonic Circuits and Their Use for Electro-Optic Signal Processing. <i>Nano Letters</i> , 2012, 12, 3562-3568.	4.5	212
15	Carbon nanotubes as emerging quantum-light sources. <i>Nature Materials</i> , 2018, 17, 663-670.	13.3	210
16	Active Silicon Integrated Nanophotonics: Ferroelectric BaTiO <sub>3</sub> Devices. <i>Nano Letters</i> , 2014, 14, 1419-1425.	4.5	208
17	Aluminum nitride as a new material for chip-scale optomechanics and nonlinear optics. <i>New Journal of Physics</i> , 2012, 14, 095014.	1.2	207
18	Calculating with light using a chip-scale all-optical abacus. <i>Nature Communications</i> , 2017, 8, 1256.	5.8	201

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19	Fast and reliable storage using a 5-bit, nonvolatile photonic memory cell. <i>Optica</i> , 2019, 6, 1.	4.8	195
20	Fully integrated quantum photonic circuit with an electrically driven light source. <i>Nature Photonics</i> , 2016, 10, 727-732.	15.6	190
21	On-Chip Photonic Memory Elements Employing Phase-Change Materials. <i>Advanced Materials</i> , 2014, 26, 1372-1377.	11.1	189
22	Integrated GaN photonic circuits on silicon (100) for second harmonic generation. <i>Optics Express</i> , 2011, 19, 10462.	1.7	176
23	Nonvolatile All-Optical 1 – 2 Switch for Chipscale Photonic Networks. <i>Advanced Optical Materials</i> , 2017, 5, 1600346.	3.6	165
24	Reactive Cavity Optical Force on Microdisk-Coupled Nanomechanical Beam Waveguides. <i>Physical Review Letters</i> , 2009, 103, 223901.	2.9	164
25	Mixed-Mode Operation of Hybrid Phase-Change Nanophotonic Circuits. <i>Nano Letters</i> , 2017, 17, 150-155.	4.5	148
26	Photonic non-volatile memories using phase change materials. <i>Applied Physics Letters</i> , 2012, 101, .	1.5	139
27	Hybrid 2D – 3D optical devices for integrated optics by direct laser writing. <i>Light: Science and Applications</i> , 2014, 3, e175-e175.	7.7	134
28	Plasmonic nanogap enhanced phase-change devices with dual electrical-optical functionality. <i>Science Advances</i> , 2019, 5, eaaw2687.	4.7	131
29	Device-Level Photonic Memories and Logic Applications Using Phase-Change Materials. <i>Advanced Materials</i> , 2018, 30, e1802435.	11.1	129
30	Cavity-enhanced light emission from electrically driven carbon nanotubes. <i>Nature Photonics</i> , 2016, 10, 420-427.	15.6	119
31	Broadband all-photonic transduction of nanocantilevers. <i>Nature Nanotechnology</i> , 2009, 4, 377-382.	15.6	117
32	Second harmonic generation in phase matched aluminum nitride waveguides and micro-ring resonators. <i>Applied Physics Letters</i> , 2012, 100, .	1.5	116
33	Waveguide integrated low noise NbTiN nanowire single-photon detectors with milli-Hz dark count rate. <i>Scientific Reports</i> , 2013, 3, 1893.	1.6	116
34	Controlled switching of phase-change materials by evanescent-field coupling in integrated photonics [Invited]. <i>Optical Materials Express</i> , 2018, 8, 2455.	1.6	113
35	Finite-Difference Time-Domain Methods and Material Models for the Simulation of Metallic and Plasmonic Structures. <i>Journal of Computational and Theoretical Nanoscience</i> , 2010, 7, 1-14.	0.4	106
36	Waveguide-integrated superconducting nanowire single-photon detectors. <i>Nanophotonics</i> , 2018, 7, 1725-1758.	2.9	103

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37	Waveguide integrated superconducting single-photon detectors with high internal quantum efficiency at telecom wavelengths. <i>Scientific Reports</i> , 2015, 5, 10941.	1.6	84
38	Thermo-optical Effect in Phase-Change Nanophotonics. <i>ACS Photonics</i> , 2016, 3, 828-835.	3.2	81
39	Single organic molecules for photonic quantum technologies. <i>Nature Materials</i> , 2021, 20, 1615-1628.	13.3	79
40	Cavity-Enhanced and Ultrafast Superconducting Single-Photon Detectors. <i>Nano Letters</i> , 2016, 16, 7085-7092.	4.5	77
41	Diamond-integrated optomechanical circuits. <i>Nature Communications</i> , 2013, 4, 1690.	5.8	75
42	NbTiN superconducting nanowire detectors for visible and telecom wavelengths single photon counting on Si <sub>3</sub> N <sub>4</sub> photonic circuits. <i>Applied Physics Letters</i> , 2013, 102, .	1.5	74
43	On-Chip Waveguide Coupling of a Layered Semiconductor Single-Photon Source. <i>Nano Letters</i> , 2017, 17, 5446-5451.	4.5	72
44	High-Q aluminum nitride photonic crystal nanobeam cavities. <i>Applied Physics Letters</i> , 2012, 100, .	1.5	71
45	Theoretical investigation of the transverse optical force between a silicon nanowire waveguide and a substrate. <i>Optics Express</i> , 2009, 17, 1806.	1.7	66
46	High Q micro-ring resonators fabricated from polycrystalline aluminum nitride films for near infrared and visible photonics. <i>Optics Express</i> , 2012, 20, 12261.	1.7	60
47	Superconducting single-photon detectors integrated with diamond nanophotonic circuits. <i>Light: Science and Applications</i> , 2015, 4, e338-e338.	7.7	60
48	Superconducting nanowire single-photon detector implemented in a 2D photonic crystal cavity. <i>Optica</i> , 2018, 5, 658.	4.8	58
49	Low-loss fiber-to-chip couplers with ultrawide optical bandwidth. <i>APL Photonics</i> , 2019, 4, .	3.0	58
50	Experimental investigation of silicon and silicon nitride platforms for phase-change photonic in-memory computing. <i>Optica</i> , 2020, 7, 218.	4.8	58
51	Tunable Volatility of Ge <sub>2</sub> Sb <sub>2</sub> Te <sub>5</sub> in Integrated Photonics. <i>Advanced Functional Materials</i> , 2019, 29, 1807571.	7.8	57
52	Waveguide-Integrated Light-Emitting Carbon Nanotubes. <i>Advanced Materials</i> , 2014, 26, 3465-3472.	11.1	56
53	Single-photon detection and cryogenic reconfigurability in lithium niobate nanophotonic circuits. <i>Nature Communications</i> , 2021, 12, 6847.	5.8	55
54	Integrated 256 Cell Photonic Phase-Change Memory With 512-Bit Capacity. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2020, 26, 1-7.	1.9	54

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55	Ultrahigh-frequency nano-optomechanical resonators in slot waveguide ring cavities. Applied Physics Letters, 2010, 97, 183110.	1.5	52
56	Photostable Molecules on Chip: Integrated Sources of Nonclassical Light. ACS Photonics, 2018, 5, 126-132.	3.2	51
57	Broadband out-of-plane coupling at visible wavelengths. Optics Letters, 2019, 44, 5089.	1.7	51
58	Time-domain measurement of optical transport in silicon micro-ring resonators. Optics Express, 2010, 18, 18438.	1.7	50
59	Frequency and phase noise of ultrahigh $Q$ silicon nitride nanomechanical resonators. Physical Review B, 2012, 85, .	1.1	50
60	Diamond as a Platform for Integrated Quantum Photonics. Advanced Quantum Technologies, 2018, 1, 1800061.	1.8	49
61	Atomic vapor spectroscopy in integrated photonic structures. Applied Physics Letters, 2015, 107, .	1.5	48
62	High Q optomechanical resonators in silicon nitride nanophotonic circuits. Applied Physics Letters, 2010, 97, .	1.5	47
63	Diamond as a material for monolithically integrated optical and optomechanical devices. Physica Status Solidi (A) Applications and Materials Science, 2015, 212, 2385-2399.	0.8	47
64	Waveguide-Integrated Broadband Spectrometer Based on Tailored Disorder. Advanced Optical Materials, 2020, 8, 1901602.	3.6	46
65	Tunable optical coupler controlled by optical gradient forces. Optics Express, 2011, 19, 15098.	1.7	45
66	High-quality Si <sub>3</sub> N <sub>4</sub> circuits as a platform for graphene-based nanophotonic devices. Optics Express, 2013, 21, 31678.	1.7	45
67	Scalable Fabrication of Integrated Nanophotonic Circuits on Arrays of Thin Single Crystal Diamond Membrane Windows. Nano Letters, 2016, 16, 3341-3347.	4.5	43
68	GHz optomechanical resonators with high mechanical Q factor in air. Optics Express, 2011, 19, 22316.	1.7	41
69	Beaming light from a quantum emitter with a planar optical antenna. Light: Science and Applications, 2017, 6, e16245-e16245.	7.7	41
70	Aluminum nitride nanophotonic circuits operating at ultraviolet wavelengths. Applied Physics Letters, 2014, 104, 091108.	1.5	39
71	Spectrally multiplexed single-photon detection with hybrid superconducting nanophotonic circuits. Optica, 2017, 4, 557.	4.8	39
72	Waveguide-integrated single- and multi-photon detection at telecom wavelengths using superconducting nanowires. Applied Physics Letters, 2015, 106, .	1.5	37

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73	Chalcogenide phase-change devices for neuromorphic photonic computing. Journal of Applied Physics, 2021, 129, .	1.1	35
74	Plasmonically-enhanced all-optical integrated phase-change memory. Optics Express, 2019, 27, 24724.	1.7	35
75	Backaction limits on self-sustained optomechanical oscillations. Physical Review A, 2012, 86, .	1.0	34
76	Waferscale nanophotonic circuits made from diamond-on-insulator substrates. Optics Express, 2013, 21, 11031.	1.7	33
77	Coupling Thermal Atomic Vapor to Slot Waveguides. Physical Review X, 2018, 8, .	2.8	32
78	Reconfigurable Nanophotonic Cavities with Nonvolatile Response. ACS Photonics, 2018, 5, 4644-4649.	3.2	32
79	Optical time domain reflectometry with low noise waveguide-coupled superconducting nanowire single-photon detectors. Applied Physics Letters, 2013, 102, .	1.5	31
80	Cascaded Mach-Zehnder interferometer tunable filters. Journal of Optics (United Kingdom), 2016, 18, 064011.	1.0	30
81	Broadband Spectrometer with Single-Photon Sensitivity Exploiting Tailored Disorder. Nano Letters, 2020, 20, 2625-2631.	4.5	30
82	Coupling thermal atomic vapor to an integrated ring resonator. New Journal of Physics, 2016, 18, 103031.	1.2	29
83	Integrated phase-change photonic devices and systems. MRS Bulletin, 2019, 44, 721-727.	1.7	29
84	Efficient Coupling of an Ensemble of Nitrogen Vacancy Center to the Mode of a High-Q, Si <sub>3</sub> N <sub>4</sub> Photonic Crystal Cavity. ACS Nano, 2019, 13, 6891-6898.	7.3	29
85	Detector-integrated on-chip QKD receiver for GHz clock rates. Npj Quantum Information, 2021, 7, .	2.8	29
86	Electronically Reconfigurable Photonic Switches Incorporating Plasmonic Structures and Phase Change Materials. Advanced Science, 2022, 9, e2200383.	5.6	29
87	Interlaboratory study on Sb <sub>2</sub> S <sub>3</sub> interplay between structure, dielectric function, and amorphous-to-crystalline phase change for photonics. IScience, 2022, 25, 104377.	1.9	29
88	An FDTD method for the simulation of dispersive metallic structures. Optical and Quantum Electronics, 2007, 38, 843-856.	1.5	28
89	Optomechanical coupling in photonic crystal supported nanomechanical waveguides. Optics Express, 2009, 17, 12424.	1.7	28
90	Broadband photonic tensor core with integrated ultra-low crosstalk wavelength multiplexers. Nanophotonics, 2022, 11, 4063-4072.	2.9	28

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91	Absorption engineering of NbN nanowires deposited on silicon nitride nanophotonic circuits. Optics Express, 2013, 21, 22683.	1.7	27
92	Optoelectromechanical phase shifter with low insertion loss and a 13% tuning range. Optics Express, 2021, 29, 5525.	1.7	27
93	Modeling of the optical force between propagating lightwaves in parallel 3D waveguides. Optics Express, 2009, 17, 16032.	1.7	26
94	A mechanical Kerr effect in deformable photonic media. Applied Physics Letters, 2009, 95, .	1.5	25
95	Design of a Silicon Integrated Electro-Optic Modulator Using Ferroelectric BaTiO <sub>3</sub> Films. IEEE Photonics Technology Letters, 2014, 26, 1344-1347.	1.3	25
96	Analysis of short range forces in opto-mechanical devices with a nanogap. Optics Express, 2010, 18, 12615.	1.7	21
97	Carrier and thermal dynamics of silicon photonic resonators at cryogenic temperatures. Optics Express, 2011, 19, 3290.	1.7	21
98	Grating-assisted coupling to nanophotonic circuits in microcrystalline diamond thin films. Beilstein Journal of Nanotechnology, 2013, 4, 300-305.	1.5	21
99	Efficient self-imaging grating couplers on a lithium-niobate-on-insulator platform at near-visible and telecom wavelengths. Optics Express, 2021, 29, 20205.	1.7	21
100	Purcell-enhanced emission from individual SiV <sup>0</sup> center in nanodiamonds coupled to a Si <sub>3</sub> N <sub>4</sub> -based, photonic crystal cavity. Nanophotonics, 2020, 9, 3655-3662.	2.9	21
101	High performance nanophotonic circuits based on partially buried horizontal slot waveguides. Optics Express, 2010, 18, 20690.	1.7	20
102	Diamond Nanophotonic Circuits Functionalized by Diphenyl Nanolithography. Advanced Optical Materials, 2015, 3, 328-335.	3.6	20
103	A plasmonically enhanced route to faster and more energy-efficient phase-change integrated photonic memory and computing devices. Journal of Applied Physics, 2021, 129, .	1.1	20
104	Broadband waveguide-integrated superconducting single-photon detectors with high system detection efficiency. Applied Physics Letters, 2021, 118, .	1.5	20
105	Diamond electro-optomechanical resonators integrated in nanophotonic circuits. Applied Physics Letters, 2014, 105, .	1.5	19
106	Antimony as a Programmable Element in Integrated Nanophotonics. Nano Letters, 2022, 22, 3532-3538.	4.5	19
107	A General Framework for the Finite-Difference Time-Domain Simulation of Real Metals. IEEE Transactions on Antennas and Propagation, 2007, 55, 916-923.	3.1	18
108	Broadband directional coupling in aluminum nitride nanophotonic circuits. Optics Express, 2013, 21, 7304.	1.7	18

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109	Graphene Field-Effect Transistors Employing Different Thin Oxide Films: A Comparative Study. ACS Omega, 2019, 4, 2256-2260.	1.6	18
110	Hybrid Quantum Photonics Based on Artificial Atoms Placed Inside One Hole of a Photonic Crystal Cavity. ACS Photonics, 2021, 8, 2635-2641.	3.2	18
111	Coherent characterisation of a single molecule in a photonic black box. Nature Communications, 2021, 12, 706.	5.8	18
112	Single-Photon Emission from Individual Nanophotonic-Integrated Colloidal Quantum Dots. ACS Photonics, 2022, 9, 551-558.	3.2	18
113	Behavioral modeling of integrated phase-change photonic devices for neuromorphic computing applications. APL Materials, 2019, 7, .	2.2	17
114	Femtogram dispersive L3-nanobeam optomechanical cavities: design and experimental comparison. Optics Express, 2012, 20, 26486.	1.7	16
115	High Efficiency On-Chip Single-Photon Detection for Diamond Nanophotonic Circuits. Journal of Lightwave Technology, 2016, 34, 249-255.	2.7	16
116	Performance characteristics of phase-change integrated silicon nitride photonic devices in the O and C telecommunications bands. Optical Materials Express, 2020, 10, 1778.	1.6	16
117	A Finite-Difference Time-Domain Method for the Simulation of Gain Materials With Carrier Diffusion in Photonic Crystals. Journal of Lightwave Technology, 2007, 25, 2306-2314.	2.7	15
118	Matrix of Integrated Superconducting Single-Photon Detectors With High Timing Resolution. IEEE Transactions on Applied Superconductivity, 2013, 23, 2201007-2201007.	1.1	15
119	Hot-spot relaxation time current dependence in niobium nitride waveguide-integrated superconducting nanowire single-photon detectors. Optics Express, 2017, 25, 8739.	1.7	15
120	On-chip coherent detection with quantum limited sensitivity. Scientific Reports, 2017, 7, 4812.	1.6	14
121	Design study of random spectrometers for applications at optical frequencies. Optics Letters, 2018, 43, 3180.	1.7	13
122	Monadic Pavlovian associative learning in a backpropagation-free photonic network. Optica, 2022, 9, 792.	4.8	13
123	Silicon nitride membrane photonics. Journal of Optics, 2009, 11, 114017.	1.5	11
124	Sub-Poisson-binomial light. Physical Review A, 2016, 94, .	1.0	11
125	Python based open source design framework for integrated nanophotonic and superconducting circuitry with 2D-3D-hybrid integration. OSA Continuum, 2019, 2, 3091.	1.8	11
126	Plasmonics: Enabling functionalities with novel materials. Journal of Applied Physics, 2021, 129, .	1.1	11



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127	Artificial Biphasic Synapses Based on Nonvolatile Phase-Change Photonic Memory Cells. <i>Physica Status Solidi - Rapid Research Letters</i> , 2022, 16, .	1.2	11
128	Polycrystalline diamond photonic waveguides realized by femtosecond laser lithography. <i>Optical Materials Express</i> , 2019, 9, 3109.	1.6	10
129	Narrow Line Width Quantum Emitters in an Electron-Beam-Shaped Polymer. <i>ACS Photonics</i> , 2019, 6, 3120-3125.	3.2	9
130	On-chip Phase Change Optical Matrix Multiplication Core. , 2020, , .		9
131	Numerical investigation of field enhancement by metal nano-particles using a hybrid FDTD-PSTD algorithm. <i>Optics Express</i> , 2007, 15, 11433.	1.7	8
132	Self-Holding Optical Actuator Based on a Mixed Ionic-Electronic Conductor Material. <i>ACS Photonics</i> , 2019, 6, 1182-1190.	3.2	8
133	Reconfigurable Nanophotonic Circuitry Enabled by Direct-Laser-Writing. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2020, 26, 1-5.	1.9	8
134	Giant nonlinear self-phase modulation of large-amplitude spin waves in microscopic YIG waveguides. <i>Scientific Reports</i> , 2022, 12, 7246.	1.6	8
135	An integrated photonics engine for unsupervised correlation detection. <i>Science Advances</i> , 2022, 8, .	4.7	8
136	Pseudo-spectral time-domain simulation of the transmission and the group delay of photonic devices. <i>Optical and Quantum Electronics</i> , 2008, 40, 1-12.	1.5	7
137	Photothermal actuation in nanomechanical waveguide devices. <i>Journal of Applied Physics</i> , 2009, 105, 014508.	1.1	7
138	Adiabatic embedment of nanomechanical resonators in photonic microring cavities. <i>Applied Physics Letters</i> , 2010, 96, 263101.	1.5	7
139	Mode control and mode conversion in nonlinear aluminum nitride waveguides. <i>Optics Express</i> , 2013, 21, 26742.	1.7	7
140	Diamond on aluminum nitride as a platform for integrated photonic circuits. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2016, 213, 2075-2080.	0.8	7
141	Analysis of the detection response of waveguide-integrated superconducting nanowire single-photon detectors at high count rate. <i>Applied Physics Letters</i> , 2019, 115, .	1.5	7
142	System-Level Simulation for Integrated Phase-Change Photonics. <i>Journal of Lightwave Technology</i> , 2021, 39, 6392-6402.	2.7	6
143	Integrated Photonic Circuits in Gallium Nitride and Aluminum Nitride. <i>International Journal of High Speed Electronics and Systems</i> , 2014, 23, 1450001.	0.3	5
144	Integrating two-photon nonlinear spectroscopy of rubidium atoms with silicon photonics. <i>Optics Express</i> , 2020, 28, 19593.	1.7	5

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145	Gigahertz photothermal effect in silicon waveguides. Applied Physics Letters, 2008, 93, 213106.	1.5	4
146	Protocol of Measuring Hot-Spot Correlation Length for SNSPDs With Near-Unity Detection Efficiency. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-5.	1.1	4
147	Finite-difference time-domain simulation of dispersive features smaller than the grid spacing. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2007, 20, 311-326.	1.2	3
148	Photonic crystal dumbbell resonators in silicon and aluminum nitride integrated optical circuits. Journal of Nanophotonics, 2013, 7, 073095.	0.4	3
149	Circuit optomechanics: concepts and materials. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2014, 61, 1889-1898.	1.7	3
150	Travelling-wave single-photon detectors integrated with diamond photonic circuits: operation at visible and telecom wavelengths with a timing jitter down to 23 ps. , 2016, , .		3
151	Superconducting Nanowire Single Photon Detector for Coherent Detection of Weak Signals. IEEE Transactions on Applied Superconductivity, 2017, 27, 1-5.	1.1	3
152	All-optical signal processing using phase-change nanophotonics. , 2017, , .		3
153	Waveguide-Integrated Superconducting Nanowire SinglePhoton Detector Array for Ultra-Fast Quantum Key Distribution. , 2020, , .		2
154	Broadband fiber-to-chip coupling in different wavelength regimes realized by 3D-structures. , 2020, , .		2
155	Performance characteristics of phase-change integrated silicon nitride photonic devices in the O and C telecommunications bands. Optical Materials Express, 2020, 10, 1778.	1.6	2
156	High-Index Organic Polymeric Carbon Nitride-Based Photonic Devices for Telecommunication Wavelengths. ACS Photonics, 2022, 9, 1717-1723.	3.2	2
157	Diamond components with integrated abrasion sensor for tribological applications. Diamond and Related Materials, 2007, 16, 991-995.	1.8	1
158	Numerical investigation of Littrow lasing in open resonator photonic crystal waveguides. Europhysics Letters, 2008, 82, 54001.	0.7	1
159	Superconducting single-photon detector for integrated waveguide spectrometer. EPJ Web of Conferences, 2018, 190, 04009.	0.1	1
160	Investigation on Metalâ€“Oxide Graphene Field-Effect Transistors With Clamped Geometries. IEEE Journal of the Electron Devices Society, 2019, 7, 964-968.	1.2	1
161	Integrated quantum photonic circuits made from diamond. Semiconductors and Semimetals, 2021, 104, 149-171.	0.4	1
162	Second harmonic generation in aluminum nitride waveguides on silicon substrates. , 2012, , .		1

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163	Integrated Phase-change Photonics: A Strategy for Merging Communication and Computing. , 2019, , .		1
164	A three-dimensional mesh refinement algorithm with low boundary reflections for the finite-difference time-domain simulation of metallic structures. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2010, 23, 183-199.	1.2	0
165	Photonic Integration of nano-electro-mechanical systems. , 2010, , .		0
166	Optical forces between a high-Q micro-disk resonator and an integrated waveguide. , 2010, , .		0
167	Adiabatic embedment of nanomechanical resonators in photonic microring cavities. , 2010, , .		0
168	A silicon nano-wire factorable photon pair source. , 2011, , .		0
169	Phase noise of high Q silicon nitride nanomechanical resonators. , 2012, , .		0
170	Observation of $k \ll B \ll T/f$ frequency noise in ultrahigh Q silicon nitride nanomechanical resonators. , 2012, , .		0
171	GHz Optomechanical Wheel and Disk Resonators with High Mechanical Q Factors in Air. , 2012, , .		0
172	A silicon nanowire factorable photon pair source. Optical and Quantum Electronics, 2013, 45, 357-364.	1.5	0
173	Low-noise NbTiN superconducting nanowire single-photon detectors integrated with Si <sub>3</sub> N <sub>4</sub> waveguides. , 2013, , .		0
174	Integrated Photonic Circuits on Wafer-Scale Diamond-on-Insulator Substrates. , 2013, , .		0
175	Integrated Optomechanical Circuits and Nonlinear Dynamics. , 2014, , 169-194.		0
176	Carbon integrated optomechanical systems. , 2014, , .		0
177	Nanometric surface probing through ultra-cold atoms. Proceedings of SPIE, 2014, , .	0.8	0
178	All-photonic nonvolatile memory cells using phase-change materials. , 2015, , .		0
179	Direct laser writing aligned with nano-diamonds containing NV-centers as single-photon emitters. , 2015, , .		0
180	Waveguide integrated superconducting single-photon detectors. , 2016, , .		0

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181	Nichtflüchtiger optischer Speicher in photonischen Schaltkreisen. Physik in Unserer Zeit, 2016, 47, 9-10.	0.0	0
182	Waveguide Integrated Superconducting Nanowire Single Photon Detectors on Silicon. Quantum Science and Technology, 2016, , 85-105.	1.5	0
183	Circuit Optomechanics with Diamond Integrated Optical Devices. NATO Science for Peace and Security Series B: Physics and Biophysics, 2017, , 213-221.	0.2	0
184	Integrated Quantum Photonic Circuits with Electrically Driven Light Sources. , 2017, , .		0
185	Superconducting Single-Photon Detectors for Integrated Nanophotonics Circuits. , 2017, , .		0
186	Photostable molecules on chip: Integrated single photon sources for quantum technologies. , 2017, , .		0
187	Cavity-Enhanced Superconducting Single Photon Detectors. , 2018, , .		0
188	Chapter 13 Waveguide Integrated Superconducting Single Photon Detectors. NATO Science for Peace and Security Series B: Physics and Biophysics, 2018, , 255-265.	0.2	0
189	Telecom Wavelength Carbon Nanotube Emitter Integrated in Hybrid Photonic Crystal Cavity. , 2021, , .		0
190	Coupling a Single Molecule to an Interrupted Nanophotonic Waveguide. , 2021, , .		0
191	Integration of colloidal quantum dots with nanophotonic circuits. , 2021, , .		0
192	Reconfigurable nanophotonic circuitry enabled by direct-laser-writing. , 2021, , .		0
193	Multi-channel quantum communication receiver made from waveguide-integrated superconducting nanowire single-photon detectors. , 2021, , .		0
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