

# Marc Sorel

## List of Publications by Year in descending order

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274  
papers

5,578  
citations

147801

31  
h-index

85541

71  
g-index

275  
all docs

275  
docs citations

275  
times ranked

4892  
citing authors

#	ARTICLE	IF	CITATIONS
1	Anderson Localization and Nonlinearity in One-Dimensional Disordered Photonic Lattices. Physical Review Letters, 2008, 100, 013906.	7.8	774
2	Integrated Compact Optical Vortex Beam Emitters. Science, 2012, 338, 363-366.	12.6	773
3	Realization of Quantum Walks with Negligible Decoherence in Waveguide Lattices. Physical Review Letters, 2008, 100, 170506.	7.8	423
4	Micrometer-scale integrated silicon source of time-energy entangled photons. Optica, 2015, 2, 88.	9.3	212
5	Ultra high quality factor one dimensional photonic crystal/photonic wire micro-cavities in silicon-on-insulator (SOI). Optics Express, 2008, 16, 12084.	3.4	200
6	Ultra-low power generation of twin photons in a compact silicon ring resonator. Optics Express, 2012, 20, 23100.	3.4	184
7	Fast electrical switching of orbital angular momentum modes using ultra-compact integrated vortex emitters. Nature Communications, 2014, 5, 4856.	12.8	149
8	Direct fiber vector eigenmode multiplexing transmission seeded by integrated optical vortex emitters. Light: Science and Applications, 2018, 7, 17148-17148.	16.6	124
9	Non-Invasive On-Chip Light Observation by Contactless Waveguide Conductivity Monitoring. IEEE Journal of Selected Topics in Quantum Electronics, 2014, 20, 292-301.	2.9	122
10	Tunable silicon photonics directional coupler driven by a transverse temperature gradient. Optics Letters, 2013, 38, 863.	3.3	103
11	Non-invasive monitoring and control in silicon photonics using CMOS integrated electronics. Optica, 2014, 1, 129.	9.3	100
12	Travelling-wave resonant four-wave mixing breaks the limits of cavity-enhanced all-optical wavelength conversion. Nature Communications, 2011, 2, 296.	12.8	96
13	From classical four-wave mixing to parametric fluorescence in silicon microring resonators. Optics Letters, 2012, 37, 3807.	3.3	77
14	Subpicosecond Pulse Generation at Quasi-40-GHz Using a Passively Mode-Locked AlGaInAs/InP 1.55- $\mu\text{m}$ Strained Quantum-Well Laser. IEEE Photonics Technology Letters, 2009, 21, 1731-1733.	2.5	66
15	Enhanced third-order nonlinear effects in optical AlGaAs nanowires. Optics Express, 2006, 14, 9377.	3.4	63
16	Observation of discrete gap solitons in binary waveguide arrays. Optics Letters, 2004, 29, 2890.	3.3	59
17	Photo-induced trimming of chalcogenide-assisted silicon waveguides. Optics Express, 2012, 20, 15807.	3.4	56
18	All-optical switching in silicon-on-insulator photonic wire nano-cavities. Optics Express, 2010, 18, 1450.	3.4	52

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19	Photonic Integrated Filter With Widely Tunable Bandwidth. Journal of Lightwave Technology, 2014, 32, 897-907.	4.6	50
20	Excitability in optical systems close to $\pi$ -symmetry. Physics Letters, Section A: General, Atomic and Solid State Physics, 2010, 374, 739-743.	2.1	49
21	Defect-Enhanced Silicon-on-Insulator Waveguide Resonant Photodetector With High Sensitivity at 1.55 $\mu\text{m}$ . IEEE Photonics Technology Letters, 2010, 22, 1530-1532.	2.5	47
22	Dual-Wavelength InAlGaAs/InP Laterally Coupled Distributed Feedback Laser. IEEE Photonics Technology Letters, 2006, 18, 2563-2565.	2.5	46
23	Automated Routing and Control of Silicon Photonic Switch Fabrics. IEEE Journal of Selected Topics in Quantum Electronics, 2016, 22, 169-176.	2.9	45
24	Reconfigurable silicon filter with continuous bandwidth tunability. Optics Letters, 2012, 37, 3669.	3.3	40
25	Design and Fabrication of Integrated Chirped Bragg Gratings for On-Chip Dispersion Control. IEEE Journal of Quantum Electronics, 2010, 46, 774-782.	1.9	39
26	Generation of photonic orbital angular momentum superposition states using vortex beam emitters with superimposed gratings. Optics Express, 2016, 24, 3168.	3.4	39
27	Tapered Photonic Crystal Microcavities Embedded in Photonic Wire Waveguides With Large Resonance Quality-Factor and High Transmission. IEEE Photonics Technology Letters, 2008, 20, 6-8.	2.5	37
28	Integrated microspectrometer for fluorescence based analysis in a microfluidic format. Lab on A Chip, 2012, 12, 2850.	6.0	36
29	Multi-wavelength filters in silicon using superposition sidewall Bragg grating devices. Optics Letters, 2014, 39, 413.	3.3	35
30	Bandpass integrated Bragg gratings in silicon-on-insulator with well-controlled amplitude and phase responses. Optics Letters, 2015, 40, 736.	3.3	33
31	High accuracy transfer printing of single-mode membrane silicon photonic devices. Optics Express, 2018, 26, 16679.	3.4	33
32	Tunable Q-factor silicon microring resonators for ultra-low power parametric processes. Optics Letters, 2015, 40, 1274.	3.3	31
33	Correlated photon pair generation in AlGaAs nanowaveguides via spontaneous four-wave mixing. Optics Express, 2016, 24, 3365.	3.4	31
34	Second-harmonic generation in AlGaAs-on-insulator waveguides. Optics Letters, 2019, 44, 1339.	3.3	31
35	Nano-optical single-photon response mapping of waveguide integrated molybdenum silicide (MoSi) superconducting nanowires. Optics Express, 2016, 24, 13931.	3.4	29
36	Performance evaluation of analog signal transmission in an integrated optical vortex emitter to 36-km few-mode fiber system. Optics Letters, 2016, 41, 1969.	3.3	29

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37	Polymer dual ring resonators for label-free optical biosensing using microfluidics. <i>Chemical Communications</i> , 2013, 49, 3095.	4.1	28
38	Integrated Small-Sized Semiconductor Ring Laser With Novel Retro-Reflector Cavity. <i>IEEE Photonics Technology Letters</i> , 2008, 20, 99-101.	2.5	27
39	Automated Nanoscale Absolute Accuracy Alignment System for Transfer Printing. <i>ACS Applied Nano Materials</i> , 2020, 3, 10326-10332.	5.0	27
40	Orbital angular momentum vector modes (de)multiplexer based on multimode micro-ring. <i>Optics Express</i> , 2018, 26, 29895.	3.4	27
41	Broadband self-phase modulation, cross-phase modulation, and four-wave mixing in 9-mm-long AlGaAs waveguides. <i>Optics Letters</i> , 2010, 35, 4093.	3.3	26
42	Silicon Photonics High-Order Distributed Feedback Resonators Filters. <i>IEEE Journal of Quantum Electronics</i> , 2020, 56, 1-9.	1.9	26
43	Separating arbitrary free-space beams with an integrated photonic processor. <i>Light: Science and Applications</i> , 2022, 11, .	16.6	26
44	Generation and Modulation of Tunable mm-Wave Optical Signals Using Semiconductor Ring Laser. <i>IEEE Photonics Technology Letters</i> , 2009, 21, 733-735.	2.5	23
45	CORNERSTONE™s Silicon Photonics Rapid Prototyping Platforms: Current Status and Future Outlook. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 8201.	2.5	23
46	Polarization-dependent nonlinear refraction and two-photon absorption in GaAs/AlAs superlattice waveguides below the half-bandgap. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2007, 24, 1557.	2.1	22
47	High Quality-Factor 1-D-Suspended Photonic Crystal/Photonic Wire Silicon Waveguide Micro-Cavities. <i>IEEE Photonics Technology Letters</i> , 2009, 21, 1789-1791.	2.5	22
48	Monitoring and Tuning Micro-Ring Properties Using Defect-Enhanced Silicon Photodiodes at 1550 nm. <i>IEEE Photonics Technology Letters</i> , 2012, 24, 261-263.	2.5	22
49	Ultra-broadband mid-infrared Ge-on-Si waveguide polarization rotator. <i>APL Photonics</i> , 2020, 5, 026102.	5.7	21
50	All-Optical Label Swapping Using Bistable Semiconductor Ring Laser in an Optical Switching Node. <i>Journal of Lightwave Technology</i> , 2009, 27, 631-638.	4.6	20
51	Supercontinuum generation in dispersion engineered AlGaAs-on-insulator waveguides. <i>Scientific Reports</i> , 2021, 11, 2052.	3.3	20
52	Passively Mode-Locked Lasers With Integrated Chirped Bragg Grating Reflectors. <i>IEEE Journal of Quantum Electronics</i> , 2011, 47, 492-499.	1.9	19
53	Post-Growth Fabrication of Multiple Wavelength DFB Laser Arrays With Precise Wavelength Spacing. <i>IEEE Photonics Technology Letters</i> , 2012, 24, 1063-1065.	2.5	19
54	BER Evaluation of a Passive SOI WDM Router. <i>IEEE Photonics Technology Letters</i> , 2013, 25, 2285-2288.	2.5	19

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55	Enhanced emission from mid-infrared AlInSb light-emitting diodes with p-type contact grid geometry. Journal of Applied Physics, 2015, 117, .	2.5	19
56	Intermodal Bragg-Scattering Four Wave Mixing in Silicon Waveguides. Journal of Lightwave Technology, 2019, 37, 1680-1685.	4.6	19
57	Picosecond linear optical pulse shapers based on integrated waveguide Bragg gratings. Optics Letters, 2008, 33, 2425.	3.3	18
58	All-optical Digital Logic Gates using Bistable Semiconductor Ring Lasers. Journal of Optical Communications, 2009, 30, .	4.7	18
59	1.4 million Q factor Si <sub>3</sub> N <sub>4</sub> micro-ring resonator at 780nm wavelength for chip-scale atomic systems. Optics Express, 2020, 28, 4010.	3.4	18
60	Silicon nitride waveguide polarization rotator and polarization beam splitter for chip-scale atomic systems. APL Photonics, 2022, 7, .	5.7	18
61	Square-wave oscillations in a semiconductor ring laser subject to counter-directional delayed mutual feedback. Optics Letters, 2016, 41, 812.	3.3	17
62	Spatially dense integration of micron-scale devices from multiple materials on a single chip via transfer-printing. Optical Materials Express, 2021, 11, 3567.	3.0	17
63	Characterization of All-Optical Regeneration Potentials of a Bistable Semiconductor Ring Laser. Journal of Lightwave Technology, 2009, 27, 4233-4240.	4.6	16
64	Frequency-Domain Model of Longitudinal Mode Interaction in Semiconductor Ring Lasers. IEEE Journal of Quantum Electronics, 2012, 48, 406-418.	1.9	16
65	Monolithically Integrated DFB Lasers for Tunable and Narrow Linewidth Millimeter-Wave Generation. IEEE Journal of Selected Topics in Quantum Electronics, 2013, 19, 1500406-1500406.	2.9	16
66	All-Optical Toggle Flip-Flop Based on Monolithic Semiconductor Ring Laser. IEEE Photonics Technology Letters, 2014, 26, 96-99.	2.5	16
67	InSb Photodiodes for Monolithic Active Focal Plane Arrays on GaAs Substrates. IEEE Transactions on Electron Devices, 2016, 63, 3135-3142.	3.0	16
68	High-extinction-ratio TE/TM selective Bragg grating filters on silicon-on-insulator. Optics Letters, 2017, 42, 3040.	3.3	16
69	Active On-Chip Dispersion Control Using a Tunable Silicon Bragg Grating. Micromachines, 2019, 10, 569.	2.9	16
70	Supermode dispersion and waveguide-to-slot mode transition in arrays of silicon-on-insulator waveguides. Optics Letters, 2010, 35, 3925.	3.3	15
71	Low-power continuous-wave four-wave mixing wavelength conversion in AlGaAs-nanowaveguide microresonators. Optics Letters, 2015, 40, 3029.	3.3	15
72	Polarization-entangled photon pair sources based on spontaneous four wave mixing assisted by polarization mode dispersion. Scientific Reports, 2017, 7, 5785.	3.3	15

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73	Photonic crystal and photonic wire nano-photonics based on silicon-on-insulator. <i>New Journal of Physics</i> , 2006, 8, 256-256.	2.9	14
74	Modulation Bandwidth Enhancement in Optical Injection-Locked Semiconductor Ring Laser. <i>IEEE Photonics Technology Letters</i> , 2009, 21, 1792-1794.	2.5	14
75	Experimental investigation of anti-colliding pulse mode-locked semiconductor lasers. <i>Optics Letters</i> , 2015, 40, 617.	3.3	14
76	Integrated optical vortex beam receivers. <i>Optics Express</i> , 2016, 24, 28529.	3.4	14
77	Optimization and uncertainty quantification of gradient index metasurfaces [Invited]. <i>Optical Materials Express</i> , 2019, 9, 892.	3.0	14
78	Design and Fabrication of High Quality-Factor 1-D Photonic Crystal/Photonic Wire Extended Microcavities. <i>IEEE Photonics Technology Letters</i> , 2010, 22, 610-612.	2.5	13
79	Ultrashort Q-switched pulses from a passively mode-locked distributed Bragg reflector semiconductor laser. <i>Optics Letters</i> , 2012, 37, 4732.	3.3	13
80	Monolithic Integration of an Active InSb-Based Mid-Infrared Photopixel With a GaAs MESFET. <i>IEEE Transactions on Electron Devices</i> , 2015, 62, 4069-4075.	3.0	13
81	High-Sensitivity In-Band OSNR Monitoring System Integrated on a Silicon Photonics Chip. <i>IEEE Photonics Technology Letters</i> , 2013, 25, 1939-1942.	2.5	12
82	A Silicon Microring Optical $2 \times 2$ Switch Exploiting Orbital Angular Momentum for Interconnection Networks up to 20 Gbaud. <i>Journal of Lightwave Technology</i> , 2017, 35, 3142-3148.	4.6	12
83	Trimming of silicon-on-insulator ring-resonators via localized laser annealing. <i>Optics Express</i> , 2020, 28, 11156.	3.4	12
84	4-Channel All-Optical MIMO Demultiplexing on a Silicon Chip. , 2016, , .		12
85	Temperature Behaviour of Pulse Repetition Frequency in Passively Mode-Locked InGaAsP/InP Laser Diode—Experimental Results and Simple Model. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2007, 13, 1209-1214.	2.9	11
86	All-Optical Directional Switching in Bistable Semiconductor-Ring Lasers. <i>IEEE Journal of Quantum Electronics</i> , 2013, 49, 877-885.	1.9	11
87	Transfer printing of AlGaAs-on-SOI microdisk resonators for selective mode coupling and low-power nonlinear processes. <i>Optics Letters</i> , 2020, 45, 881.	3.3	11
88	Optical static random access memory cell using an integrated semiconductor ring laser. , 2009, , .		10
89	10 Gb/s operation of Monolithic All-Optical Set-Reset Flip-Flop based on Semiconductor Ring Laser. , 2010, , .		10
90	Wavelength Locking of Silicon Photonics Multiplexer for DML-Based WDM Transmitter. <i>Journal of Lightwave Technology</i> , 2017, 35, 607-614.	4.6	10

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91	All-optical tuning of a diamond micro-disk resonator on silicon. <i>Photonics Research</i> , 2020, 8, 318.	7.0	10
92	Optically Triggered Monostable and Bistable Flip-Flop Operation of a Monolithic Semiconductor Ring Laser. , 2007, , .		9
93	Bistable Micro-Ring Lasers With Compact Footprint and High Output Efficiency. <i>IEEE Journal of Quantum Electronics</i> , 2012, 48, 1023-1030.	1.9	9
94	Pattern manipulation via on-chip phase modulation between orbital angular momentum beams. <i>Applied Physics Letters</i> , 2015, 107, 051102.	3.3	9
95	Design of chirped-coupling sidewall Bragg gratings for narrow linewidth distributed feedback lasers. <i>Optics Letters</i> , 2019, 44, 1642.	3.3	9
96	Lasing Mode Hysteresis Characteristics in Semiconductor Ring Lasers. <i>IEEE Journal of Quantum Electronics</i> , 2008, 44, 1171-1179.	1.9	8
97	Dynamic operation of all-optical Flip-Flop based on a monolithic semiconductor ring laser. , 2008, , .		8
98	Compact Polarization Mode Converter Monolithically Integrated Within a Semiconductor Laser. <i>Journal of Lightwave Technology</i> , 2009, 27, 2732-2736.	4.6	8
99	High-Power and Low-Noise Mode-Locking Operation of Al-Quaternary Laser Diodes. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2015, 21, 10-16.	2.9	8
100	Silicon photonic filters with high rejection of both TE and TM modes for on-chip four wave mixing applications. <i>Optics Express</i> , 2017, 25, 19711.	3.4	8
101	Interconnection network architectures based on integrated orbital angular momentum emitters. <i>Optics Communications</i> , 2018, 408, 63-67.	2.1	8
102	AlGaAs-on-insulator waveguide for highly efficient photon-pair generation via spontaneous four-wave mixing. <i>Optics Letters</i> , 2021, 46, 1061.	3.3	8
103	All-optical label swapping using bistable semiconductor ring laser. , 2008, , .		8
104	Penalty-free transmission in a silicon coupled resonator optical waveguide over the full C-band. <i>Optics Letters</i> , 2011, 36, 3948.	3.3	7
105	Application of Brillouin-Based Continuously Tunable Optical Delay Line to Contention Resolution Between Asynchronous Optical Packets. <i>Journal of Lightwave Technology</i> , 2013, 31, 2888-2896.	4.6	7
106	Design, Simulations, and Optimizations of Mid-infrared Multiple Quantum Well LEDs. <i>Procedia Engineering</i> , 2016, 140, 36-42.	1.2	7
107	Single-chip, mid-infrared array for room temperature video rate imaging. <i>Optica</i> , 2017, 4, 1498.	9.3	7
108	High-directional vortex beam emitter based on Archimedean spiral adiabatic waveguides. <i>Optics Letters</i> , 2017, 42, 975.	3.3	7

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109	Widely Tunable Silicon Photonics Narrow-Linewidth Passband Filter Based on Phase-Shifted Waveguide Bragg Grating. , 2018, , .		7
110	Experimental investigation on feedback insensitivity in semiconductor ring lasers. Optics Letters, 2018, 43, 1974.	3.3	7
111	Thermo-optic coefficient of PECVD silicon-rich silicon nitride. Optics Letters, 2020, 45, 6242.	3.3	7
112	Passive mode-locking in semiconductor lasers with saturable absorbers bandgap shifted through quantum well intermixing. Photonics Research, 2014, 2, 186.	7.0	6
113	Flexible Millimeter-Wave Carrier Generation up to the Sub-THz With Silicon Photonics Filters. Journal of Lightwave Technology, 2021, 39, 7689-7697.	4.6	6
114	High precision integrated photonic thermometry enabled by a transfer printed diamond resonator on GaN waveguide chip. Optics Express, 2021, 29, 29095.	3.4	6
115	Picosecond ultrasonics with miniaturized semiconductor lasers. Ultrasonics, 2020, 106, 106150.	3.9	6
116	Broadband and High-Capacity Silicon Photonics Single-Sideband Modulator. Journal of Lightwave Technology, 2022, 40, 538-546.	4.6	6
117	Characterizing Bandgap Gratings in GaAs/AlAs Superlattice Structures Using Interface Phonons. IEEE Photonics Technology Letters, 2007, 19, 677-679.	2.5	5
118	All-optical digital logic XOR gate using bistable semiconductor ring lasers. , 2009, , .		5
119	Manipulating optical vortices using integrated photonics. Frontiers of Optoelectronics, 2016, 9, 194-205.	3.7	5
120	High-Capacity Single-Sideband Suppressed-Carrier Modulation with Integrated Optical Filter in Silicon-on-Insulator Technology. , 2019, , .		5
121	Wideband Single-Sideband Suppressed-Carrier Modulation with Silicon Photonics Optical Filters. , 2019, , .		5
122	Fabrication, optimization, and characterization of monolithic semiconductor mode-locked lasers and colliding, pulse mode-locked lasers at millimeter-wave frequencies. , 2004, , .		4
123	Output Coupling and Spectral Control in 1550-nm Micro-Disc Lasers Using Defects on the Rim. IEEE Photonics Technology Letters, 2011, 23, 1636-1638.	2.5	4
124	Optical gain in 1.3- $\mu$ m electrically driven dilute nitride VCSOAs. Nanoscale Research Letters, 2014, 9, 22.	5.7	4
125	GaAs-based distributed feedback laser at 780 nm for 87Rb cold atom quantum technology. , 2017, , .		4
126	Integrated Silicon-on-Insulator Optical Comb Demultiplexer for Elastic Optical Networks. IEEE Photonics Technology Letters, 2020, 32, 867-870.	2.5	4



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127	Linewidth of monolithic semiconductor ring lasers. , 2006, , .		3
128	Understanding the rich physics of light propagation in slow photonic crystal waveguides. , 2010, , .		3
129	Generation of Picosecond Pulses Over a 40-nm Wavelength Range Using an Array of Distributed Bragg Grating Mode-Locked Lasers. IEEE Photonics Technology Letters, 2013, 25, 368-370.	2.5	3
130	Photonic integrated devices for exploiting the orbital angular momentum of light in optical communications. Frontiers of Optoelectronics, 2016, 9, 518-525.	3.7	3
131	Demonstration of a Multiplane OAM-Wavelength Packet Switch Controlled by a Two-Step Scheduler Implemented in FPGAs. Journal of Lightwave Technology, 2019, 37, 3948-3955.	4.6	3
132	Low loss germanium-on-silicon waveguides for integrated mid-infrared photonics. , 2019, , .		3
133	All-Optical Self-Synchronizing Scheme for Contention Resolution in Asynchronous Optical Packet Switched Networks Using Continuously Tunable Optical Delay Line. , 2011, , .		3
134	3 <sup>rd</sup> optical switch by exploiting vortex beam emitters based on silicon microrings with superimposed gratings. Optics Letters, 2017, 42, 3749.	3.3	3
135	Photonic qubit entanglement and processing in silicon waveguides. , 2015, , .		3
136	Wavelength Locking Platform for DML-based Multichannel Transmitter on a Silicon Chip. , 2016, , .		3
137	Nonlinear Photonics in AlGaAs Photonics Nanowires: Self Phase and Cross Phase Modulation. , 2007, , .		2
138	Directional bi-stability in micro-ring and micro-disk lasers. , 2008, , .		2
139	Time-domain response to ps optical pulse trigger of an all-optical flip-flop based on semiconductor ring laser. Proceedings of SPIE, 2008, , .	0.8	2
140	Nonlinearities in silicon photonics: something to exploit or to counteract?. , 2012, , .		2
141	Compact Tunable Directional Couplers in SOI. , 2013, , .		2
142	Multiwavelength super-structured Bragg grating laser for tunable repetition rate mode-locked operation. Optics Express, 2014, 22, 17050.	3.4	2
143	Large area metasurface lenses in the NIR region. , 2019, , .		2
144	EIT and STIRAP in waveguides: Linear and nonlinear effects in a three-core coupled system. , 2007, , .		2

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145	ContactLess Integrated Photonic Probe: Concept, Technology and Applications. , 2016, , .		2
146	Semiconductor colliding-pulse mode-locked lasers at 60 GHz subjected to optical feedback. , 2004, 5452, 146.		1
147	Photonic crystal and photonic wire device structures. , 2005, , .		1
148	All-optical two-mode switching in semiconductor ring lasers. , 2006, , .		1
149	Native oxidation of aluminum-containing III-V compound layers for increased current and optical confinement in semiconductor lasers. , 2006, , .		1
150	Integrated high order filters in AlGaAs waveguides with up to eight side-coupled racetrack microresonators. , 2006, , .		1
151	Switching time and response to ps optical trigger pulse of all-optical Flip-Flop based on a monolithic semiconductor ring laser. , 2008, , .		1
152	Wavelength tunability of an integrated semiconductor ring laser with sub-ns switching time. , 2008, , .		1
153	A Novel Semiconductor Ring Laser device Aimed for All-optical Signal processing. , 2008, , .		1
154	High-speed integrated semiconductor micro-ring lasers with efficient off-axis parabolic reflectors. , 2008, , .		1
155	All-optical response of semiconductor ring laser bistable to duo optical injections. , 2008, , .		1
156	Precise fabrication of coupled ring-resonator structures. , 2009, , .		1
157	Semiconductor micro-ring and micro-disk lasers for all-optical switching. , 2009, , .		1
158	Micro-/nano-photonic device structures applied to communications, sensing and consumer optoelectronics. , 2010, , .		1
159	Notch Nonlinear Frequency Shift in AlGaAs Bragg Grating Waveguides. , 2011, , .		1
160	On-chip micro-spectrometer for fluorescence bio-sensing. , 2011, , .		1
161	Highly-Sensitive Sonogram for Assessment of Chirp in Semiconductor Mode-Locked Lasers. IEEE Journal of Quantum Electronics, 2012, 48, 995-1003.	1.9	1
162	Spontaneous parametric fluorescence in SOI integrated microresonators. Proceedings of SPIE, 2013, , .	0.8	1

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163	An investigation of MWIR, AlInSb LEDs based on double heterostructures and multiple quantum wells. , 2014, , .		1
164	Optimized Coupler Design for Slot Waveguide Ring Resonators. IEEE Photonics Technology Letters, 2014, 26, 224-226.	2.5	1
165	Demonstration of few mode fiber transmission link seeded by a silicon photonic integrated optical vortex emitter. , 2015, , .		1
166	Polarisation selective Bragg filters on silicon-on-insulator. , 2015, , .		1
167	Photonic integrated devices for exploiting the orbital angular momentum (OAM) of light in optical communications. , 2015, , .		1
168	Revolutionizing optical fiber transmission and networking using the Orbital Angular Momentum of light. , 2016, , .		1
169	Phased locked laser diode by using passive array of multi-mode interference couplers. , 2016, , .		1
170	A coaxially integrated photonic orbital angular momentum beam multiplexer. , 2016, , .		1
171	Noninvasive monitoring and control in silicon photonics. , 2017, , .		1
172	Trimming of silicon-on-insulator micro-ring resonators by laser irradiation. , 2017, , .		1
173	Distributed Feedback Lasers for Quantum Cooling Applications. , 2020, , .		1
174	On-chip Electrical Modulation of Phase Shift between Optical Vortices with Opposite Topological Charge. , 2014, , .		1
175	Enhancing Performance of Optical Communication Systems with Advanced Optical Signal Processing. Journal of Networks, 2010, 5, .	0.4	1
176	Silicon quantum photonic circuits for on-chip qubit generation, manipulation and logic operations. , 2013, , .		1
177	Four-wave mixing and generation of correlated photon pairs in silicon ring resonators and photonic molecules. , 2013, , .		1
178	Orbital Angular Momentum Mode Multiplexer Based on Multimode Micro-Ring Resonator with Angular Gratings. , 2016, , .		1
179	Experimental Performance Evaluation of Analog Signal Transmission System with Photonic Integrated Optical Vortex Emitter and 3.6 km Few-Mode Fiber Link. , 2016, , .		1
180	Transfer printing of photonic nanostructures to silicon integrated circuits. , 2018, , .		1

#	ARTICLE	IF	CITATIONS
181	1.4 Million Q-Factor 780 nm Wavelength Si3N4 Micro-rings for Chip-Scale Atomic Systems. , 2020, , .		1
182	Self-Configuring Silicon-Photonic Receiver for Multimode Free Space Channels. , 2021, , .		1
183	Planar nanophotonic devices and integration technologies. Proceedings of SPIE, 1899, , .	0.8	0
184	Cryptographic schemes based on optical injection. , 2000, 3944, 620.		0
185	Self- and cross-correlation measurements in two-mode semiconductor ring lasers. , 2004, 5452, 666.		0
186	Elements of Nanophotonics: Photonic Crystals, Photonic Wires, Metamaterials and More. , 2006, , .		0
187	Laser pumped light emitting diodes as broad area sources of coherent radiation. Journal of Modern Optics, 2006, 53, 1101-1108.	1.3	0
188	Two-mode dynamics in different semiconductor laser structures. , 2006, 6184, 38.		0
189	Monolithic Semiconductor Ring Lasers: Design, Experiments and Applications. , 2006, , .		0
190	Laterally coupled dual wavelength distributed feedback lasers. , 2006, , .		0
191	Anderson localization and nonlinearity in one dimensional disordered waveguide arrays. , 2007, , JMB6.		0
192	Integrated Chirped Bragg Gratings on Deeply Etched Tapered III-V Waveguides. , 2007, , .		0
193	Optically monostable operation of a monolithic semiconductor ring laser using external optical injections. , 2007, , .		0
194	Photonic crystal cavities embedded in photonic wire waveguides. Proceedings of SPIE, 2007, , .	0.8	0
195	Dynamic characterization of Semiconductor Ring Lasers: Frequency response and linewidth enhancement factor. , 2008, , .		0
196	High temperature and wide range 40-GHz passive mode-ocking operation of an AlGaInAs 1.55- $\mu\text{m}$ strained quantum well laser. , 2008, , .		0
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