

Marc Sorel

List of Publications by Year in descending order

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274
papers

5,578
citations

147566

31
h-index

85405

71
g-index

275
all docs

275
docs citations

275
times ranked

4892
citing authors

#	ARTICLE	IF	CITATIONS
1	Broadband and High-Capacity Silicon Photonics Single-Sideband Modulator. Journal of Lightwave Technology, 2022, 40, 538-546.	2.7	6
2	Silicon nitride waveguide polarization rotator and polarization beam splitter for chip-scale atomic systems. APL Photonics, 2022, 7, .	3.0	18
3	Separating arbitrary free-space beams with an integrated photonic processor. Light: Science and Applications, 2022, 11, .	7.7	26
4	Flexible Millimeter-Wave Carrier Generation up to the Sub-THz With Silicon Photonics Filters. Journal of Lightwave Technology, 2021, 39, 7689-7697.	2.7	6
5	Highly efficient photon pair generation in AlGaAs-on-insulator waveguides. , 2021, , .		0
6	AlGaAs-on-insulator waveguide for highly efficient photon-pair generation via spontaneous four-wave mixing. Optics Letters, 2021, 46, 1061.	1.7	8
7	AlGaAs-on-insulator Waveguides for Highly Efficient Photon Pair Generation. , 2021, , .		0
8	Establishing free-space optical communication channels through a reconfigurable silicon mesh. , 2021, , .		0
9	High precision integrated photonic thermometry enabled by a transfer printed diamond resonator on GaN waveguide chip. Optics Express, 2021, 29, 29095.	1.7	6
10	Spatially dense integration of micron-scale devices from multiple materials on a single chip via transfer-printing. Optical Materials Express, 2021, 11, 3567.	1.6	17
11	Supercontinuum generation in dispersion engineered AlGaAs-on-insulator waveguides. Scientific Reports, 2021, 11, 2052.	1.6	20
12	Transfer-printing enables multi-material assembly of integrated photonic systems. , 2021, , .		0
13	Multimode Free Space Optical Link Enabled by SiP Integrated Meshes. , 2021, , .		0
14	Reconfigurable RF Carrier Generation in the mm-Wave Band with Silicon Photonics Circuit. , 2021, , .		0
15	Silicon Photonics Single-Sideband Modulator for Millimeter-Wave Band Wireless Systems. , 2021, , .		0
16	Self-Configuring Silicon-Photonic Receiver for Multimode Free Space Channels. , 2021, , .		1
17	Silicon Photonics High-Order Distributed Feedback Resonators Filters. IEEE Journal of Quantum Electronics, 2020, 56, 1-9.	1.0	26
18	Automated Nanoscale Absolute Accuracy Alignment System for Transfer Printing. ACS Applied Nano Materials, 2020, 3, 10326-10332.	2.4	27

#	ARTICLE	IF	CITATIONS
19	CORNERSTONEâ€™s Silicon Photonics Rapid Prototyping Platforms: Current Status and Future Outlook. Applied Sciences (Switzerland), 2020, 10, 8201.	1.3	23
20	Integrated Silicon-on-Insulator Optical Comb Demultiplexer for Elastic Optical Networks. IEEE Photonics Technology Letters, 2020, 32, 867-870.	1.3	4
21	Distributed Feedback Lasers for Quantum Cooling Applications. , 2020, , .		1
22	Ultra-broadband mid-infrared Ge-on-Si waveguide polarization rotator. APL Photonics, 2020, 5, 026102.	3.0	21
23	Picosecond ultrasonics with miniaturized semiconductor lasers. Ultrasonics, 2020, 106, 106150.	2.1	6
24	1.4 million Q factor Si₃N₄ micro-ring resonator at 780â€‰nm wavelength for chip-scale atomic systems. Optics Express, 2020, 28, 4010.	1.7	18
25	Trimming of silicon-on-insulator ring-resonators via localized laser annealing. Optics Express, 2020, 28, 11156.	1.7	12
26	Transfer printing of AlGaAs-on-SOI microdisk resonators for selective mode coupling and low-power nonlinear processes. Optics Letters, 2020, 45, 881.	1.7	11
27	All-optical tuning of a diamond micro-disk resonator on silicon. Photonics Research, 2020, 8, 318.	3.4	10
28	Passive Amplification of Data Signals using On-chip Dispersive Phase Filters in Silicon. , 2020, , .		0
29	1.4 Million Q-Factor 780 nm Wavelength Si3N4 Micro-rings for Chip-Scale Atomic Systems. , 2020, , .		1
30	Ge-on-Si Waveguide Polarization Rotator Operating in the 8-14 Åµm Atmospheric Transmission Window. , 2020, , .		0
31	Monitoring and Trimming of Integrated Silicon Photonic Circuits via Laser Irradiation. , 2020, , .		0
32	Ge-on-Si Mid-Infrared Waveguide Platform for Molecular Fingerprint Sensing. , 2020, , .		0
33	Thermo-optic coefficient of PECVD silicon-rich silicon nitride. Optics Letters, 2020, 45, 6242.	1.7	7
34	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.	2.7	3
35	Mid-infrared Sensing with Ge on Si Waveguides. , 2019, , .		0
36	Active On-Chip Dispersion Control Using a Tunable Silicon Bragg Grating. Micromachines, 2019, 10, 569.	1.4	16

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37	Intermodal Bragg-Scattering Four Wave Mixing in Silicon Waveguides. Journal of Lightwave Technology, 2019, 37, 1680-1685.	2.7	19
38	High-Capacity Single-Sideband Suppressed-Carrier Modulation with Integrated Optical Filter in Silicon-on-Insulator Technology. , 2019, , .		5
39	Wideband Single-Sideband Suppressed-Carrier Modulation with Silicon Photonics Optical Filters. , 2019, , .		5
40	Low loss germanium-on-silicon waveguides for integrated mid-infrared photonics. , 2019, , .		3
41	Large area metasurface lenses in the NIR region. , 2019, , .		2
42	Second-harmonic generation in AlGaAs-on-insulator waveguides. Optics Letters, 2019, 44, 1339.	1.7	31
43	Optimization and uncertainty quantification of gradient index metasurfaces [Invited]. Optical Materials Express, 2019, 9, 892.	1.6	14
44	Thermally tuneable integrated diamond micro-disk resonators fabricated by micro-assembly. , 2019, , .		0
45	Design of chirped-coupling sidewall Bragg gratings for narrow linewidth distributed feedback lasers. Optics Letters, 2019, 44, 1642.	1.7	9
46	Direct fiber vector eigenmode multiplexing transmission seeded by integrated optical vortex emitters. Light: Science and Applications, 2018, 7, 17148-17148.	7.7	124
47	Interconnection network architectures based on integrated orbital angular momentum emitters. Optics Communications, 2018, 408, 63-67.	1.0	8
48	Widely Tunable Silicon Photonics Narrow-Linewidth Passband Filter Based on Phase-Shifted Waveguide Bragg Grating. , 2018, , .		7
49	Towards 3D optical integration by micro-transfer printing of ultra-thin membrane devices. , 2018, , .		0
50	The Orbital Angular Momentum of Light for Ultra-High Capacity Data Centers. , 2018, , .		0
51	High accuracy transfer printing of single-mode membrane silicon photonic devices. Optics Express, 2018, 26, 16679.	1.7	33
52	Experimental investigation on feedback insensitivity in semiconductor ring lasers. Optics Letters, 2018, 43, 1974.	1.7	7
53	Orbital angular momentum vector modes (de)multiplexer based on multimode micro-ring. Optics Express, 2018, 26, 29895.	1.7	27
54	High precision transfer printing for hybrid integration of multi-material waveguide devices. , 2018, , .		0

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55	Transfer printing of photonic nanostructures to silicon integrated circuits. , 2018, , .		1
56	Wavelength Locking of Silicon Photonics Multiplexer for DML-Based WDM Transmitter. Journal of Lightwave Technology, 2017, 35, 607-614.	2.7	10
57	A Silicon Microring Optical 2 \$imes\$ 2 Switch Exploiting Orbital Angular Momentum for Interconnection Networks up to 20 Gbaud. Journal of Lightwave Technology, 2017, 35, 3142-3148.	2.7	12
58	Noninvasive monitoring and control in silicon photonics. , 2017, , .		1
59	Polarization-entangled photon pair sources based on spontaneous four wave mixing assisted by polarization mode dispersion. Scientific Reports, 2017, 7, 5785.	1.6	15
60	Trimming of silicon-on-insulator micro-ring resonators by laser irradiation. , 2017, , .		1
61	Experimental observation of optical bistability in an integrated vortex beam emitter. , 2017, , .		0
62	Integration of Molybdenum Silicide Superconducting Nanowires with Quantum Photonic Circuits for On-Chip Single Photon Detection. , 2017, , .		0
63	High-extinction-ratio TE/TM selective Bragg grating filters on silicon-on-insulator. Optics Letters, 2017, 42, 3040.	1.7	16
64	Silicon photonic filters with high rejection of both TE and TM modes for on-chip four wave mixing applications. Optics Express, 2017, 25, 19711.	1.7	8
65	Title to be Announced. , 2017, , .		0
66	Single-chip, mid-infrared array for room temperature video rate imaging. Optica, 2017, 4, 1498.	4.8	7
67	High-directional vortex beam emitter based on Archimedean spiral adiabatic waveguides. Optics Letters, 2017, 42, 975.	1.7	7
68	GaAs-based distributed feedback laser at 780 nm for 87Rb cold atom quantum technology. , 2017, , .		4
69	High extinction ratio polarization selective TE/TM Bragg gratings filters on silicon-on-insulator. , 2017, , .		0
70	3-3 optical switch by exploiting vortex beam emitters based on silicon microrings with superimposed gratings. Optics Letters, 2017, 42, 3749.	1.7	3
71	A 3-3 Switch Exploiting an Optical Vortex Beam Emitter based on a Silicon Three-Grating Microring. , 2017, , .		0
72	Nano-optical single-photon response mapping of waveguide integrated molybdenum silicide (MoSi) superconducting nanowires. Optics Express, 2016, 24, 13931.	1.7	29

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73	Integrated optical vortex beam receivers. <i>Optics Express</i> , 2016, 24, 28529.	1.7	14
74	4Å–10 Gbit/s L-band WDM transmitter with automatic control of silicon photonic channel multiplexer and carver. , 2016, , .		0
75	Revolutionizing optical fiber transmission and networking using the Orbital Angular Momentum of light. , 2016, , .		1
76	Phased locked laser diode by using passive array of multi-mode interference couplers. , 2016, , .		1
77	Manipulating optical vortices using integrated photonics. <i>Frontiers of Optoelectronics</i> , 2016, 9, 194-205.	1.9	5
78	Design, Simulations, and Optimizations of Mid-infrared Multiple Quantum Well LEDs. <i>Procedia Engineering</i> , 2016, 140, 36-42.	1.2	7
79	Performance evaluation of analog signal transmission in an integrated optical vortex emitter to 36-km few-mode fiber system. <i>Optics Letters</i> , 2016, 41, 1969.	1.7	29
80	Integrated microrings for on-chip filtering and efficient FWM generation. , 2016, , .		0
81	InSb Photodiodes for Monolithic Active Focal Plane Arrays on GaAs Substrates. <i>IEEE Transactions on Electron Devices</i> , 2016, 63, 3135-3142.	1.6	16
82	Generation of photonic orbital angular momentum superposition states using vortex beam emitters with superimposed gratings. <i>Optics Express</i> , 2016, 24, 3168.	1.7	39
83	Photonic integrated devices for exploiting the orbital angular momentum of light in optical communications. <i>Frontiers of Optoelectronics</i> , 2016, 9, 518-525.	1.9	3
84	Highly directional vortex beam emitters based on Archimedean spiral adiabatic waveguides. , 2016, , .		0
85	A coaxially integrated photonic orbital angular momentum beam multiplexer. , 2016, , .		1
86	Integrated TE/TM grating filters with high extinction ratio. , 2016, , .		0
87	Automated Routing and Control of Silicon Photonic Switch Fabrics. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2016, 22, 169-176.	1.9	45
88	Correlated photon pair generation in AlGaAs nanowaveguides via spontaneous four-wave mixing. <i>Optics Express</i> , 2016, 24, 3365.	1.7	31
89	Square-wave oscillations in a semiconductor ring laser subject to counter-directional delayed mutual feedback. <i>Optics Letters</i> , 2016, 41, 812.	1.7	17
90	ContactLess Integrated Photonic Probe: Concept, Technology and Applications. , 2016, , .		2

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91	4-Channel All-Optical MIMO Demultiplexing on a Silicon Chip. , 2016, , .		12
92	Generation of photonic orbital angular momentum superposition states using vortex beam emitters with superimposed gratings. , 2016, , .		0
93	4-Channel Silicon Photonic Mode Demultiplexing. , 2016, , .		0
94	Orbital Angular Momentum Mode Multiplexer Based on Multimode Micro-Ring Resonator with Angular Gratings. , 2016, , .		1
95	Experimental Performance Evaluation of Analog Signal Transmission System with Photonic Integrated Optical Vortex Emitter and 3.6 km Few-Mode Fiber Link. , 2016, , .		1
96	On-chip Tunable Cylindrical Vector Beams Emitter. , 2016, , .		0
97	Direct polarization-entangled Bell state generation via spontaneous four-wave mixing in AlGaAs waveguides. , 2016, , .		0
98	Wavelength Locking Platform for DML-based Multichannel Transmitter on a Silicon Chip. , 2016, , .		3
99	Pattern manipulation via on-chip phase modulation between orbital angular momentum beams. Applied Physics Letters, 2015, 107, 051102.	1.5	9
100	Demonstration of few mode fiber transmission link seeded by a silicon photonic integrated optical vortex emitter. , 2015, , .		1
101	Semiconductor Integrated Devices for Mode-Locking and Wavelength Conversion. , 2015, , .		0
102	Enhanced emission from mid-infrared AlInSb light-emitting diodes with p-type contact grid geometry. Journal of Applied Physics, 2015, 117, .	1.1	19
103	Ultrafast pulse generation in semiconductor lasers. , 2015, , .		0
104	Polarisation selective Bragg filters on silicon-on-insulator. , 2015, , .		1
105	Photonic integrated devices for exploiting the orbital angular momentum (OAM) of light in optical communications. , 2015, , .		1
106	Enhanced continuous-wave FWM wavelength conversion in AlGaAs resonators. , 2015, , .		0
107	Development of mid-infrared light-emitting diodes for low-power optical gas sensors. , 2015, , .		0
108	High-Power and Low-Noise Mode-Locking Operation of Al-Quaternary Laser Diodes. IEEE Journal of Selected Topics in Quantum Electronics, 2015, 21, 10-16.	1.9	8

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109	Micrometer-scale integrated silicon source of time-energy entangled photons. <i>Optica</i> , 2015, 2, 88.	4.8	212
110	Low-power continuous-wave four-wave mixing wavelength conversion in AlGaAs-nanowaveguide microresonators. <i>Optics Letters</i> , 2015, 40, 3029.	1.7	15
111	Tunable Q-factor silicon microring resonators for ultra-low power parametric processes. <i>Optics Letters</i> , 2015, 40, 1274.	1.7	31
112	Bandpass integrated Bragg gratings in silicon-on-insulator with well-controlled amplitude and phase responses. <i>Optics Letters</i> , 2015, 40, 736.	1.7	33
113	Experimental investigation of anti-colliding pulse mode-locked semiconductor lasers. <i>Optics Letters</i> , 2015, 40, 617.	1.7	14
114	Signal Gain from Four-Wave Mixing in Anomalous AlGaAs nanowaveguides. , 2015, , .		0
115	Introduction to the Issue on Optical Micro- and Nanosystems. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2015, 21, 5-6.	1.9	0
116	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.	1.6	13
117	Photonic qubit entanglement and processing in silicon waveguides. , 2015, , .		3
118	Photonic microwave generation utilizing dynamics of laser diodes. , 2014, , .		0
119	An investigation of MWIR, AlInSb LEDs based on double heterostructures and multiple quantum wells. , 2014, , .		1
120	Investigation of mid-infrared AlInSb LEDs with an n-i-p structure. , 2014, , .		0
121	Compact multi-wavelength filters in SOI using superimposed sidewall Bragg gratings. , 2014, , .		0
122	Measuring the angular emission of optical vortex beams from integrated devices. , 2014, , .		0
123	Non-invasive monitoring and control in silicon photonics using CMOS integrated electronics. <i>Optica</i> , 2014, 1, 129.	4.8	100
124	Passive mode-locking in semiconductor lasers with saturable absorbers bandgap shifted through quantum well intermixing. <i>Photonics Research</i> , 2014, 2, 186.	3.4	6
125	Multi-wavelength filters in silicon using superposition sidewall Bragg grating devices. <i>Optics Letters</i> , 2014, 39, 413.	1.7	35
126	Multiwavelength super-structured Bragg grating laser for tunable repetition rate mode-locked operation. <i>Optics Express</i> , 2014, 22, 17050.	1.7	2

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127	Optical gain in 1.3- μ m electrically driven dilute nitride VCSOAs. <i>Nanoscale Research Letters</i> , 2014, 9, 22.	3.1	4
128	Photonic Integrated Filter With Widely Tunable Bandwidth. <i>Journal of Lightwave Technology</i> , 2014, 32, 897-907.	2.7	50
129	Non-Invasive On-Chip Light Observation by Contactless Waveguide Conductivity Monitoring. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2014, 20, 292-301.	1.9	122
130	Optimized Coupler Design for Slot Waveguide Ring Resonators. <i>IEEE Photonics Technology Letters</i> , 2014, 26, 224-226.	1.3	1
131	Generation of time-energy entangled photons on a silicon chip. , 2014, , .		0
132	Fast electrical switching of orbital angular momentum modes using ultra-compact integrated vortex emitters. <i>Nature Communications</i> , 2014, 5, 4856.	5.8	149
133	All-Optical Toggle Flip-Flop Based on Monolithic Semiconductor Ring Laser. <i>IEEE Photonics Technology Letters</i> , 2014, 26, 96-99.	1.3	16
134	Non-Invasive Integrated Light Probe. , 2014, , .		0
135	Emission of time-energy entangled photon pairs from an integrated silicon ring resonator. , 2014, , .		0
136	Actively reconfigurable compact vortex beam emitters. , 2014, , .		0
137	On-chip Electrical Modulation of Phase Shift between Optical Vortices with Opposite Topological Charge. , 2014, , .		1
138	On-chip generation and analysis of maximal path-frequency entanglement. , 2014, , .		0
139	Fast Switching of Optical Vortex Beam Mode Orders Generated Using a Fully Integrated SOI Device. , 2014, , .		0
140	High-Sensitivity In-Band OSNR Monitoring System Integrated on a Silicon Photonics Chip. <i>IEEE Photonics Technology Letters</i> , 2013, 25, 1939-1942.	1.3	12
141	BER Evaluation of a Passive SOI WDM Router. <i>IEEE Photonics Technology Letters</i> , 2013, 25, 2285-2288.	1.3	19
142	Generation of Picosecond Pulses Over a 40-nm Wavelength Range Using an Array of Distributed Bragg Grating Mode-Locked Lasers. <i>IEEE Photonics Technology Letters</i> , 2013, 25, 368-370.	1.3	3
143	Polymer dual ring resonators for label-free optical biosensing using microfluidics. <i>Chemical Communications</i> , 2013, 49, 3095.	2.2	28
144	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.	2.7	7

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145	Integrated microfluidic spectroscopic sensor using arrayed waveguide grating. Proceedings of SPIE, 2013, , .	0.8	0
146	Tunable silicon photonics directional coupler driven by a transverse temperature gradient. Optics Letters, 2013, 38, 863.	1.7	103
147	All-Optical Directional Switching in Bistable Semiconductor-Ring Lasers. IEEE Journal of Quantum Electronics, 2013, 49, 877-885.	1.0	11
148	Integrated emitters of cylindrically structured light beams. , 2013, , .		0
149	Monolithically Integrated DFB Lasers for Tunable and Narrow Linewidth Millimeter-Wave Generation. IEEE Journal of Selected Topics in Quantum Electronics, 2013, 19, 1500406-1500406.	1.9	16
150	Spontaneous parametric fluorescence in SOI integrated microresonators. Proceedings of SPIE, 2013, , .	0.8	1
151	Compact Tunable Directional Couplers in SOI. , 2013, , .		2
152	Silicon quantum photonic circuits for on-chip qubit generation, manipulation and logic operations. , 2013, , .		1
153	Four-wave mixing and generation of correlated photon pairs in silicon ring resonators and photonic molecules. , 2013, , .		1
154	High-Sensitivity In-Band OSNR Monitoring on a Silicon Photonics Platform. , 2013, , .		0
155	Ultrashort Q-switched pulses from a passively mode-locked distributed Bragg reflector semiconductor laser. Optics Letters, 2012, 37, 4732.	1.7	13
156	Photo-induced trimming of chalcogenide-assisted silicon waveguides. Optics Express, 2012, 20, 15807.	1.7	56
157	Ultra-low power generation of twin photons in a compact silicon ring resonator. Optics Express, 2012, 20, 23100.	1.7	184
158	From classical four-wave mixing to parametric fluorescence in silicon microring resonators. Optics Letters, 2012, 37, 3807.	1.7	77
159	Reconfigurable silicon filter with continuous bandwidth tunability. Optics Letters, 2012, 37, 3669.	1.7	40
160	Nonlinearities in silicon photonics: something to exploit or to counteract?. , 2012, , .		2
161	Highly-Sensitive Sonogram for Assessment of Chirp in Semiconductor Mode-Locked Lasers. IEEE Journal of Quantum Electronics, 2012, 48, 995-1003.	1.0	1
162	Integrated nonlinear optics: From classical to quantum phenomena. , 2012, , .		0

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163	Post-Growth Fabrication of Multiple Wavelength DFB Laser Arrays With Precise Wavelength Spacing. IEEE Photonics Technology Letters, 2012, 24, 1063-1065.	1.3	19
164	Bistable Micro-Ring Lasers With Compact Footprint and High Output Efficiency. IEEE Journal of Quantum Electronics, 2012, 48, 1023-1030.	1.0	9
165	Monitoring and Tuning Micro-Ring Properties Using Defect-Enhanced Silicon Photodiodes at 1550 nm. IEEE Photonics Technology Letters, 2012, 24, 261-263.	1.3	22
166	Integrated microspectrometer for fluorescence based analysis in a microfluidic format. Lab on A Chip, 2012, 12, 2850.	3.1	36
167	Evanescent coupling assisted four-wave mixing in a silicon-on-insulator directional coupler. Proceedings of SPIE, 2012, , .	0.8	0
168	Integrated Compact Optical Vortex Beam Emitters. Science, 2012, 338, 363-366.	6.0	773
169	Photo-induced trimming of chalcogenide-assisted silicon photonic circuits. Proceedings of SPIE, 2012, , .	0.8	0
170	Frequency-Domain Model of Longitudinal Mode Interaction in Semiconductor Ring Lasers. IEEE Journal of Quantum Electronics, 2012, 48, 406-418.	1.0	16
171	Semiconductor Mode-locked Lasers: Harnessing the Gain Bandwidth. , 2012, , .		0
172	Output Coupling and Spectral Control in 1550-nm Micro-Disc Lasers Using Defects on the Rim. IEEE Photonics Technology Letters, 2011, 23, 1636-1638.	1.3	4
173	Travelling-wave resonant four-wave mixing breaks the limits of cavity-enhanced all-optical wavelength conversion. Nature Communications, 2011, 2, 296.	5.8	96
174	Penalty-free transmission in a silicon coupled resonator optical waveguide over the full C-band. Optics Letters, 2011, 36, 3948.	1.7	7
175	Notch Nonlinear Frequency Shift in AlGaAs Bragg Grating Waveguides. , 2011, , .		1
176	Passively Mode-Locked Lasers With Integrated Chirped Bragg Grating Reflectors. IEEE Journal of Quantum Electronics, 2011, 47, 492-499.	1.0	19
177	Post-growth fabrication of a DFB laser array with high precision wavelength spacing. , 2011, , .		0
178	On-chip micro-spectrometer for fluorescence bio-sensing. , 2011, , .		1
179	Measurement of phase-correlation between optical modes of Semiconductor Lasers. , 2011, , .		0
180	Intra-cavity dispersion control in passively mode-locked semiconductor lasers. , 2011, , .		0

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181	Semiconductor mode-locked lasers with integrated dispersion control. , 2011, , .		0
182	All-Optical Self-Synchronizing Scheme for Contention Resolution in Asynchronous Optical Packet Switched Networks Using Continuously Tunable Optical Delay Line. , 2011, , .		3
183	Understanding the rich physics of light propagation in slow photonic crystal waveguides. , 2010, , .		3
184	Ultrafast all-optical temporal differentiation in integrated phase-shifted Bragg gratings. , 2010, , .		0
185	10 Gb/s operation of Monolithic All-Optical Set-Reset Flip-Flop based on Semiconductor Ring Laser. , 2010, , .		10
186	Design and Fabrication of Integrated Chirped Bragg Gratings for On-Chip Dispersion Control. IEEE Journal of Quantum Electronics, 2010, 46, 774-782.	1.0	39
187	Excitability in optical systems close to π -symmetry. Physics Letters, Section A: General, Atomic and Solid State Physics, 2010, 374, 739-743.	0.9	49
188	InP-based micro-disc lasers using non-concentric hole as mode control and light extraction mechanism. , 2010, , .		0
189	Design and Fabrication of High Quality-Factor 1-D Photonic Crystal/Photonic Wire Extended Microcavities. IEEE Photonics Technology Letters, 2010, 22, 610-612.	1.3	13
190	Defect-Enhanced Silicon-on-Insulator Waveguide Resonant Photodetector With High Sensitivity at 1.55 μm . IEEE Photonics Technology Letters, 2010, 22, 1530-1532.	1.3	47
191	Supermode dispersion and waveguide-to-slot mode transition in arrays of silicon-on-insulator waveguides. Optics Letters, 2010, 35, 3925.	1.7	15
192	Broadband self-phase modulation, cross-phase modulation, and four-wave mixing in 9-mm-long AlGaAs waveguides. Optics Letters, 2010, 35, 4093.	1.7	26
193	All-optical switching in silicon-on-insulator photonic wire nano-cavities. Optics Express, 2010, 18, 1450.	1.7	52
194	Theoretical and experimental investigation of mode-hopping in semiconductor ring lasers. , 2010, , .		0
195	Study of excitability in semiconductor ring lasers: theory and experiment. Proceedings of SPIE, 2010, , .	0.8	0
196	Micro-/nano-photonic device structures applied to communications, sensing and consumer optoelectronics. , 2010, , .		1
197	High spectral quality defect-coupled 1550nm micro-disc lasers. , 2010, , .		0
198	Continuous Wave Second Harmonic Generation in Ultra-Compact AlGaAs Photonic Wire Waveguides. , 2010, , .		0

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199	Enhancing Performance of Optical Communication Systems with Advanced Optical Signal Processing. Journal of Networks, 2010, 5, .	0.4	1
200	Bandwidth enhancement using master laser modulation and optical injection locking in the semiconductor ring laser. , 2009, , .		0
201	Converting 4Gb/s IM data onto tunable 60GHz RF optical carrier using four wave-mixing in semiconductor ring laser. , 2009, , .		0
202	All-optical signal regeneration using a bistable semiconductor ring laser. , 2009, , .		0
203	Losses in engineered slow light photonic crystal waveguides. , 2009, , .		0
204	Integrated chirped Bragg gratings with control over complex reflectivity. , 2009, , .		0
205	Precise fabrication of coupled ring-resonator structures. , 2009, , .		1
206	All-optical Digital Logic Gates using Bistable Semiconductor Ring Lasers. Journal of Optical Communications, 2009, 30, .	4.0	18
207	Semiconductor micro-ring and micro-disk lasers for all-optical switching. , 2009, , .		1
208	All-optical digital logic XOR gate using bistable semiconductor ring lasers. , 2009, , .		5
209	Characterization of All-Optical Regeneration Potentials of a Bistable Semiconductor Ring Laser. Journal of Lightwave Technology, 2009, 27, 4233-4240.	2.7	16
210	All-Optical Label Swapping Using Bistable Semiconductor Ring Laser in an Optical Switching Node. Journal of Lightwave Technology, 2009, 27, 631-638.	2.7	20
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