Arnan Mitchell

List of Publications by Year
in descending order

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515	15,439	22548	26792
papers	citations	61 h-index	111 g-index

524	524	524	17267
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Mid-infrared supercontinuum generation in a varying dispersion waveguide for multi-species gas spectroscopy. IEEE Journal of Selected Topics in Quantum Electronics, 2023, , 1-10.	1.9	7
2	Biosensors for circulating tumor cells (CTCs)-biomarker detection in lung and prostate cancer: Trends and prospects. Biosensors and Bioelectronics, 2022, 197, 113770.	5.3	41
3	Highly accurate and label-free discrimination of single cancer cell using a plasmonic oxide-based nanoprobe. Biosensors and Bioelectronics, 2022, 198, 113814.	5.3	14
4	11 Tera-OPs/s photonic convolutional accelerator and deep optical neural network based on an integrated Kerr soliton crystal microcomb. , 2022, , .		1
5	RF and microwave photonic signal generation and processing based on Kerr micro-combs. , 2022, , .		1
6	An extensional strain sensing mechanosome drives adhesion-independent platelet activation at supraphysiological hemodynamic gradients. BMC Biology, 2022, 20, 73.	1.7	7
7	Versatile, high bandwidth, RF and microwave photonic Hilbert transformers based on Kerr micro-combs. , 2022, , .		1
8	Mode and Polarizationâ€Đivision Multiplexing Based on Silicon Nitride Loaded Lithium Niobate on Insulator Platform. Laser and Photonics Reviews, 2022, 16, .	4.4	42
9	Optical Neuromorphic Processor at 11 TeraOPs/s based on Kerr Soliton Crystal Micro-combs. , 2022, , .		1
10	Integrated Subwavelength Gratings on a Lithium Niobate on Insulator Platform for Mode and Polarization Manipulation. Laser and Photonics Reviews, 2022, 16, .	4.4	16
11	Self-calibrating programmable photonic integrated circuits. Nature Photonics, 2022, 16, 595-602.	15.6	59
12	Monolithic Photonic Integrated Circuit Based on Silicon Nitride and Lithium Niobate on Insulator Hybrid Platform. Advanced Photonics Research, 2022, 3, .	1.7	8
13	Second Order Nonlinear Photonic Integrated Platforms for Optical Signal Processing. IEEE Journal of Selected Topics in Quantum Electronics, 2021, 27, 1-11.	1.9	8
14	RF and microwave photonic temporal signal processing with Kerr micro-combs. Advances in Physics: X, 2021, 6, .	1.5	27
15	Integrated non-blocking optical router harnessing wavelength- and mode-selective property for photonic networks-on-chip. Optics Express, 2021, 29, 1251.	1.7	4
16	Efficient second harmonic generation in lithium niobate on insulator waveguides and its pitfalls. JPhys Photonics, 2021, 3, 012008.	2.2	14
17	Mid-infrared supercontinuum generation in a low-loss germanium-on-silicon waveguide. APL Photonics, 2021, 6, .	3.0	31
18	Frequency comb distillation for optical superchannel transmission. Journal of Lightwave Technology, 2021, , 1-1.	2.7	13

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19	Highly Versatile Broadband RF Photonic Fractional Hilbert Transformer Based on a Kerr Soliton Crystal Microcomb. Journal of Lightwave Technology, 2021, 39, 7581-7587.	2.7	21
20	Mid-infrared Octave-spanning Supercontinuum Generation in an All-normal Dispersion SiGe Waveguide. , 2021, , .		0
21	Mid-Infrared Supercontinuum Generation in a Pure Germanium-on-Silicon Ridge Waveguide. , 2021, , .		0
22	Single perceptron at 12 GigaOPs based on a microcomb for versatile, high-speed scalable, optical neural networks. , 2021, , .		1
23	RF and microwave photonic, fractional differentiation, integration, and Hilbert transforms based on Kerr micro-combs. , 2021, , .		1
24	Circulatorâ€Free Brillouin Photonic Planar Circuit. Laser and Photonics Reviews, 2021, 15, 2000481.	4.4	10
25	Photonic convolutional accelerator and neural network in the Tera-OPs regime based on Kerr microcombs. , 2021, , .		1
26	Optical data transmission at 44 terabits/s with a Kerr soliton crystal microcomb. , 2021, , .		3
27	Orthogonally polarized RF optical single sideband generation with integrated ring resonators. Journal of Semiconductors, 2021, 42, 041305.	2.0	17
28	Photonic radio frequency channelizers based on Kerr optical micro-combs. Journal of Semiconductors, 2021, 42, 041302.	2.0	28
29	Integrated photonic high extinction short and long pass filters based on lateral leakage. Optics Express, 2021, 29, 18905-18914.	1.7	2
30	Demonstration of various optical directed logic operations by using an integrated photonic circuit. Optics Letters, 2021, 46, 2457.	1.7	4
31	Mid-Infrared Supercontinuum Generation in Germanium Waveguides. , 2021, , .		0
32	Hybrid and heterogeneous photonic integration. APL Photonics, 2021, 6, .	3.0	59
33	Tumor-Induced Inflammatory Cytokines and the Emerging Diagnostic Devices for Cancer Detection and Prognosis. Frontiers in Oncology, 2021, 11, 692142.	1.3	123
34	Single-step etched grating couplers for silicon nitride loaded lithium niobate on insulator platform. APL Photonics, 2021, 6, 086108.	3.0	24
35	Ridge resonators: impact of excitation beam and resonator losses. Optics Express, 2021, 29, 27092.	1.7	7
36	Fringe analysis approach for imaging surface undulations on technical surfaces. Optics Express, 2021, 29, 33067.	1.7	0

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37	11 TOPS photonic convolutional accelerator for optical neural networks. Nature, 2021, 589, 44-51.	13.7	550
38	On-Chip Non-Blocking Optical Mode Exchanger for Mode-Division Multiplexing Interconnection Networks. Journal of Lightwave Technology, 2021, 39, 6563-6571.	2.7	4
39	Integral order photonic RF signal processors based on a soliton crystal micro-comb source. Journal of Optics (United Kingdom), 2021, 23, 125701.	1.0	14
40	High-speed electro-optic modulator based on silicon nitride loaded lithium niobate on an insulator platform. Optics Letters, 2021, 46, 5986.	1.7	33
41	Broadband Microwave Frequency Conversion Based on an Integrated Optical Micro-Comb Source. Journal of Lightwave Technology, 2020, 38, 332-338.	2.7	67
42	Lateral Leakage in Silicon Photonics: Theory, Applications, and Future Directions. IEEE Journal of Selected Topics in Quantum Electronics, 2020, 26, 1-13.	1.9	22
43	High Coherence at f and 2f of Mid-Infrared Supercontinuum Generation in Silicon Germanium Waveguides. IEEE Journal of Selected Topics in Quantum Electronics, 2020, 26, 1-8.	1.9	18
44	Photonic RF Phase-Encoded Signal Generation With a Microcomb Source. Journal of Lightwave Technology, 2020, 38, 1722-1727.	2.7	55
45	Multi-Channel Parallel Silicon Mode-Order Converter for Multimode On-Chip Optical Switching. IEEE Journal of Selected Topics in Quantum Electronics, 2020, 26, 1-6.	1.9	10
46	Broadband Photodetectors: Liquidâ€Metal Synthesized Ultrathin SnS Layers for Highâ€Performance Broadband Photodetectors (Adv. Mater. 45/2020). Advanced Materials, 2020, 32, 2070338.	11.1	2
47	Photonic Perceptron Based on a Kerr Microcomb for Highâ€Speed, Scalable, Optical Neural Networks. Laser and Photonics Reviews, 2020, 14, 2000070.	4.4	84
48	Photonic RF Arbitrary Waveform Generator Based on a Soliton Crystal Micro-Comb Source. Journal of Lightwave Technology, 2020, 38, 6221-6226.	2.7	62
49	Photonic RF and Microwave Integrator Based on a Transversal Filter With Soliton Crystal Microcombs. IEEE Transactions on Circuits and Systems II: Express Briefs, 2020, 67, 3582-3586.	2.2	23
50	Liquidâ€Metal Synthesized Ultrathin SnS Layers for Highâ€Performance Broadband Photodetectors. Advanced Materials, 2020, 32, e2004247.	11.1	66
51	Experimental fluid dynamics characterization of a novel micropump-mixer. Biomicrofluidics, 2020, 14, 044116.	1.2	1
52	Machine Learningâ€Enabled Smart Sensor Systems. Advanced Intelligent Systems, 2020, 2, 2000063.	3.3	83
53	Broadband Photonic RF Channelizer With 92 Channels Based on a Soliton Crystal Microcomb. Journal of Lightwave Technology, 2020, 38, 5116-5121.	2.7	38
54	Optical frequency comb generation with low temperature reactive sputtered silicon nitride waveguides. APL Photonics, 2020, 5, .	3.0	14

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55	Photonic RF and microwave filters based on 49ÂGHz and 200ÂGHz Kerr microcombs. Optics Communications, 2020, 465, 125563.	1.0	24
56	RF and Microwave Fractional Differentiator Based on Photonics. IEEE Transactions on Circuits and Systems II: Express Briefs, 2020, 67, 2767-2771.	2.2	44
57	Ultra-dense optical data transmission over standard fibre with a single chip source. Nature Communications, 2020, 11, 2568.	5.8	192
58	A Flexible and Reconfigurable Optical Add-Drop Multiplexer for Mode Division Multiplexing Systems. IEEE Photonics Technology Letters, 2020, 32, 1515-1518.	1.3	9
59	On-chip switchable and reconfigurable optical mode exchange device using cascaded three-waveguide-coupling switches. Optics Express, 2020, 28, 9552.	1.7	13
60	On-chip biochemical sensor using wide Gaussian beams in silicon waveguide-integrated plasmonic crystal. Optics Letters, 2020, 45, 2283.	1.7	6
61	Mid-infrared supercontinuum generation in silicon-germanium all-normal dispersion waveguides. Optics Letters, 2020, 45, 5008.	1.7	34
62	Recent advances on hybrid integration of 2D materials on integrated optics platforms. Nanophotonics, 2020, 9, 2191-2214.	2.9	31
63	On-chip scalable mode-selective converter based on asymmetrical micro-racetrack resonators. Nanophotonics, 2020, 9, 1447-1455.	2.9	3
64	Silicon nitride integrated photonic platform at 780 nm wavelength. , 2020, , .		0
65	Coherent Mid-Infrared Supercontinuum Sources in SiliconGermanium Waveguides. , 2020, , .		0
66	Coherent mid-infrared supercontinuum generation for pulse compression in a silicon-based chip. , 2020, , .		0
67	Photonic RF fractional Hilbert transformers and filters based on integrated soliton crystal microcombs. , 2020, , .		1
68	Broadband RF channelization using microcombs. , 2020, , .		0
69	Electro-optical tuning of phase matching wavelength in Lithium Niobate on Insulator (LNOI). , 2020, , .		0
70	Kerr Micro-combs for Radio Frequency Photonics -INVITED. EPJ Web of Conferences, 2020, 238, 01004.	0.1	0
71	Mid-Infrared Supercontinuum Generation in Germanium-on-Silicon Waveguides. , 2020, , .		0
72	Interrogation of photonic biosensors using dual optical frequency combs. , 2020, , .		0

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73	Overcoming low-power limitations on optical frequency combs using a micro-ring resonator. , 2020, , .		6
74	High extinction on-chip long pass filters in LNOI towards quantum optical applications. , 2020, , .		0
75	Coupled Ridge Resonator Filter Design using Microwave Engineering Filter Synthesis. , 2020, , .		0
76	Optical frequency comb generation using low stress reactive sputtered silicon nitride waveguides. , 2020, , .		0
77	Optical frequency comb generation using low stress reactive sputtered silicon nitride waveguides. , 2020, , .		0
78	Low-noise mid-infrared supercontinuum generation in a silicon-based chip. , 2020, , .		0
79	Optical frequency comb generation using low stress CMOS compatible reactive sputtered silicon nitride waveguides. , 2020, , .		0
80	Ultra-high bandwidth optical data transmission with a microcomb. , 2020, , .		13
81	Broadband photonic RF channelizer based on a Kerr soliton crystal microcomb. , 2020, , .		1
82	Active Micropump-Mixer for Rapid Antiplatelet Drug Screening in Whole Blood. Analytical Chemistry, 2019, 91, 10830-10839.	3.2	9
83	Integration of Brillouin and passive circuits for enhanced radio-frequency photonic filtering. APL Photonics, 2019, 4, .	3.0	37
84	Microwave and RF Photonic Fractional Hilbert Transformer Based on a 50 GHz Kerr Micro-Comb. Journal of Lightwave Technology, 2019, 37, 6097-6104.	2.7	61
85	Low Stress, Anomalous Dispersive Silicon Nitride Waveguides Fabricated by Reactive Sputtering. , 2019, , .		0
86	Design Algorithm for Adiabatic Photonic Components using a Constant Coupling Approach. , 2019, , .		0
87	Advanced Evanescent-Wave Optical Biosensors for the Detection of Nucleic Acids: An Analytic Perspective. Frontiers in Chemistry, 2019, 7, 724.	1.8	80
88	2D Plasmonic Tungsten Oxide Enabled Ultrasensitive Fiber Optics Gas Sensor. Advanced Optical Materials, 2019, 7, 1901383.	3.6	57
89	Ridge Resonance in Silicon Photonics Harnessing Bound States in the Continuum. Laser and Photonics Reviews, 2019, 13, 1900035.	4.4	40
90	An integrated nanoplasmonic biosensor for monitoring cytokine secretion from single cells. , 2019, , .		2

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91	Microcomb-Based Photonic RF Signal Processing. IEEE Photonics Technology Letters, 2019, 31, 1854-1857.	1.3	75
92	An Ultrasensitive Silicon Photonic Ion Sensor Enabled by 2D Plasmonic Molybdenum Oxide. Small, 2019, 15, e1805251.	5.2	31
93	The dielectric, thermal properties and crystallization mechanism of Liâ€“Al â€“ Bâ€“Si â€“ O glass â€“ Ceramic systems as a new ULTCC material. Ceramics International, 2019, 45, 19689-19694.	2.3	12
94	Ferroelectric-Driven Exciton and Trion Modulation in Monolayer Molybdenum and Tungsten Diselenides. ACS Nano, 2019, 13, 5335-5343.	7.3	61
95	Broadband Highâ€Efficiency Chiral Splitters and Holograms from Dielectric Nanoarc Metasurfaces. Small, 2019, 15, e1900483.	5.2	33
96	Water Jacket Systems for Temperature Control of Petri Dish Cell Culture Chambers. Applied Sciences (Switzerland), 2019, 9, 621.	1.3	2
97	High performance RF filters via bandwidth scaling with Kerr micro-combs. APL Photonics, 2019, 4, 026102.	3.0	93
98	Anodic bondable Li-Na-Al-B-Si-O glass-ceramics for Si - ULTCC heterogeneous integration. Journal of the European Ceramic Society, 2019, 39, 2419-2426.	2.8	7
99	A Novel 2D Plasmonic MoO3 Driven pH Sensor on Silicon Photonics Platform. , 2019, , .		0
100	Dispersion trimming for mid-infrared supercontinuum generation in a hybrid chalcogenide/silicon-germanium waveguide. Journal of the Optical Society of America B: Optical Physics, 2019, 36, A98.	0.9	30
101	Reconfigurable photonic RF filters based on integrated Kerr frequency comb sources. , 2019, , .		1
102	Post Processing Dispersion Trimming for On-Chip Mid-Infrared Supercontinuum Generation. , 2019, , .		0
103	Reconfigurable fractional microwave signal processor based on a microcomb. , 2019, , .		1
104	Advanced Adaptive Photonic RF Filters with 80 Taps Based on an Integrated Optical Micro-Comb Source. Journal of Lightwave Technology, 2019, 37, 1288-1295.	2.7	104
105	Broadband photonic RF channelizer based on micro-combs. , 2019, , .		2
106	Towards an active micropump-mixer for rapid anti-platelet drug screening in whole blood. , 2019, , .		1
107	On-chip correlation-based Brillouin sensing: design, experiment, and simulation. Journal of the Optical Society of America B: Optical Physics, 2019, 36, 146.	0.9	23
108	Optical frequency comb based system for photonic refractive index sensor interrogation. Optics Express, 2019, 27, 21532.	1.7	18

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109	Improved second harmonic performance in periodically poled LNOI waveguides through engineering of lateral leakage. Optics Express, 2019, 27, 23919.	1.7	42
110	Microwave engineering filter synthesis technique for coupled ridge resonator filters. Optics Express, 2019, 27, 34370.	1.7	14
111	Low loss CMOS-compatible silicon nitride photonics utilizing reactive sputtered thin films. Optics Express, 2019, 27, 37795.	1.7	39
112	Independently tunable double Fano resonances based on waveguide-coupled cavities. Optics Letters, 2019, 44, 3154.	1.7	15
113	Microcomb-based photonic local oscillator for broadband microwave frequency conversion. , 2019, , .		2
114	Microcomb-based RF transversal filters. , 2019, , .		1
115	Broadband Local Oscillator Free Photonic Microwave Mixer based on a Coherent Kerr Micro-Comb Source. , 2019, , .		1
116	Tailoring the Dispersion of a Hybrid Chalcogenide/Silicon-Germanium Waveguide for Mid-Infrared Supercontinuum Generation. , 2019, , .		1
117	Mechanical Properties of Low-Refractive-Index SiO2 Optical Films. , 2019, , .		0
118	Tunable Photonic RF Bandpass Filters based on an 80 Channel Kerr Micro-Comb Source. , 2019, , .		1
119	Orthogonally polarized optical single sideband generation based on integrated microring resonators. , 2019, , .		1
120	Applications of Kerr Micro-combs to RF Photonics. , 2019, , .		1
121	Microwave and Communications Applications of Microcombs. , 2019, , .		1
122	New Resonance Behavior based on Bound States in the Continuum in a Silicon Photonic Waveguide Platform. , 2019, , .		0
123	Low loss, plasma beam assisted reactive magnetron sputtered silicon nitride films for optical applications. , 2019, , .		2
124	On-Chip Backward Inter-modal Brillouin Scattering. , 2019, , .		2
125	Enhanced nonlinearity in lithium niobate on insulator (LNOI) waveguides through engineering of lateral leakage. , 2019, , .		0
126	Reconfigurable microwave photonic transversal filter based on an integrated optical micro-comb source. , 2019, , .		2

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127	High-performance microwave photonic true time delays based on an integrated optical micro-comb source. , 2019, , .		1
128	Bright octave-span mid-IR supercontinuum generation in silicon germanium waveguide. , 2019, , .		1
129	Asymmetric transmission of light in hybrid waveguide-integrated plasmonic crystals on a silicon-on-insulator platform. Optics Letters, 2019, 44, 5378.	1.7	0
130	Broadband photonic RF channelization based on an integrated optical micro-comb source. , 2019, , .		0
131	Interrogation of photonic biosensors using optical frequency combs. , 2019, , .		0
132	CMOS-compatible, plasma beam assisted reactive magnetron sputtered silicon nitride films for photonic integrated circuits. , 2019, , .		0
133	Reconfigurable microwave signal processor for fractional and regular Hilbert transform based on a microcomb. , 2019, , .		1
134	Design algorithm for compact low-reflection adiabatic photonic mode converters based on constant coupling. , 2019, , .		0
135	True time delays for phased array antennas based on a microcomb. , 2019, , .		1
136	Continuously tunable orthogonally polarized RF optical single sideband generator based on cascaded micro-ring resonators. , 2019, , .		1
137	Photonic wideband RF mixer based on an integrated microcomb source. , 2019, , .		1
138	Cardiac troponin detection using silicon photonic biosensor for the accurate and timely diagnosis and prognosis of acute myocardial infarction. , 2019, , .		0
139	Mid-infrared supercontinuum generation in hybrid chalcogenide/silicon-germanium waveguides. , 2019, , .		0
140	High Q RF transversal filter based on an 80-channel integrated microcomb source. , 2019, , .		1
141	Status and Potential of Lithium Niobate on Insulator (LNOI) for Photonic Integrated Circuits. Laser and Photonics Reviews, 2018, 12, 1700256.	4.4	435
142	Broadband RF Channelizer Based on an Integrated Optical Frequency Kerr Comb Source. Journal of Lightwave Technology, 2018, 36, 4519-4526.	2.7	114
143	RF Photonics: An Optical Microcombsâ€™ Perspective. IEEE Journal of Selected Topics in Quantum Electronics, 2018, 24, 1-20.	1.9	128
144	Direct characterization of a nonlinear photonic circuitâ€™s wave function with laser light. Light: Science and Applications, 2018, 7, 17143-17143.	7.7	27

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145	Integrating Brillouin processing with functional circuits for enhanced RF photonic processing. , 2018, , .		1
146	Continuously tunable orthogonally polarized RF optical single sideband generator based on micro-ring resonators. Journal of Optics (United Kingdom), 2018, 20, 115701.	1.0	60
147	Labelâ€Free Optofluidic Nanobiosensor Enables Realâ€Time Analysis of Singleâ€Cell Cytokine Secretion. Small, 2018, 14, e1800698.	5.2	70
148	Brillouin spectroscopy of a hybrid silicon-chalcogenide waveguide with geometrical variations. Optics Letters, 2018, 43, 3493.	1.7	13
149	Mid-infrared octave spanning supercontinuum generation to 85â€‰â€‰Î¼m in silicon-germanium waveguides. Optica, 2018, 5, 360.	4.8	122
150	A self-sufficient micro-droplet generation system using highly porous elastomeric sponges: A versatile tool for conducting cellular assays. Sensors and Actuators B: Chemical, 2018, 274, 645-653.	4.0	23
151	Photonic microwave true time delays for phased array antennas using a 49â€‰â€‰GHz FSR integrated optical micro-comb source [Invited]. Photonics Research, 2018, 6, B30.	3.4	119
152	Advanced RF and microwave functions based on an integrated optical frequency comb source. Optics Express, 2018, 26, 2569.	1.7	128
153	Elastomeric microvalve geometry affects haemocompatibility. Lab on A Chip, 2018, 18, 1778-1792.	3.1	5
154	On-chip reconfigurable and scalable optical mode multiplexer/demultiplexer based on three-waveguide-coupling structure. Optics Express, 2018, 26, 22366.	1.7	29
155	Orthogonally Polarized RF Optical Single Sideband Generation and Dual-Channel Equalization Based on an Integrated Microring Resonator. Journal of Lightwave Technology, 2018, 36, 4808-4818.	2.7	75
156	Distributed SBS Sensing in a Silicon-Chalcogenide Platform. , 2018, , .		0
157	Reconfigurable microwave photonic transversal filter based on an integrated Kerr comb. , 2018, , .		0
158	Silicon photonics with hybrid integrated 2D MoO3: plasmonic pH driven sensing and reconfigurability. , 2018, , .		0
159	Integrated Kerr optical frequency comb-based broadband RF channelizer. , 2018, , .		0
160	Coherent Supercontinuum Generation in a Silicon-Germanium Waveguide in the Mid Infrared. , 2018, , .		0
161	Integrated Optical Power Equalizer Based on a Dual-Polarization Micro-Ring Resonator. , 2018, , .		0
162	Integrated Kerr comb-based reconfigurable transversal differentiator for microwave photonic signal processing. , 2018, , .		0

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163	Microwave and RF Photonic Applications of Integrated Kerr Micro-Combs. , 2018, , .		0
164	Mid-wavelength Infrared Supercontinuum Generation Spanning 1.4 Octaves in a Silicon-Germanium Waveguide. , 2018, , .		0
165	High-Order Microwave Photonic Intensity Differentiator Based on CMOS-Compatible Micro-Combs. , 2018, , .		0
166	Spectrum reshaping of micro-ring resonator via an integrated Fabry-Perot cavity. , 2018, , .		0
167	Bright on-chip mid-IR supercontinuum generation to 7.7Î¼m in silicon germanium-on-silicon platform. , 2018, , .		0
168	A Highly Versatile Microwave Photonic Filter Based on an Integrated Optical Frequency Comb Source. , 2018, , .		1
169	Integrated Kerr micro-comb sources for photonic microwave applications. , 2018, , .		2
170	Liquid metal enabled microfluidics. Lab on A Chip, 2017, 17, 974-993.	3.1	354
171	Micro-ring resonator quality factor enhancement via an integrated Fabry-Perot cavity. APL Photonics, 2017, 2, .	3.0	65
172	Porous PDMS structures for the storage and release of aqueous solutions into fluidic environments. Lab on A Chip, 2017, 17, 2517-2527.	3.1	43
173	Lateral trapezoid microfluidic platform for investigating mechanotransduction of cells to spatial shear stress gradients. Sensors and Actuators B: Chemical, 2017, 251, 963-975.	4.0	16
174	Optical Chirality from Darkâ€Field Illumination of Planar Plasmonic Nanostructures. Laser and Photonics Reviews, 2017, 11, 1700216.	4.4	11
175	Reconfigurable broadband microwave photonic intensity differentiator based on an integrated optical frequency comb source. APL Photonics, 2017, 2, .	3.0	103
176	Dynamics of high viscosity contrast confluent microfluidic flows. Scientific Reports, 2017, 7, 5945.	1.6	10
177	Experimental demonstration of two-dimensional hybrid waveguide-integrated plasmonic crystals on silicon-on-insulator platform. APL Photonics, 2017, 2, 071302.	3.0	2
178	Shear Stress Regulates TRPV4 Channel Clustering and Translocation from Adherens Junctions to the Basal Membrane. Scientific Reports, 2017, 7, 15942.	1.6	52
179	Application of a strain rate gradient microfluidic device to von Willebrand's disease screening. Lab on A Chip, 2017, 17, 2595-2608.	3.1	17
180	Optofluidic refractive index sensor based on air-suspended SUâ€8 grating couplers. Sensors and Actuators A: Physical, 2017, 263, 439-444.	2.0	9

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181	An automated optofluidic biosensor platform combining interferometric sensors and injection moulded microfluidics. Lab on A Chip, 2017, 17, 2793-2804.	3.1	26
182	Tunable air-suspended polymer grating couplers. Optical Engineering, 2017, 56, 067112.	0.5	2
183	Towards on-chip photon-pair bell tests: Spatial pump filtering in a LiNbO3 adiabatic coupler. Applied Physics Letters, 2017, 111, .	1.5	6
184	Microwave and RF applications of micro-combs. , 2017, , .		0
185	Micro-ring resonator quality factor and extinction ratio enhancement via integrated Fabry-Perot cavity. , 2017, , .		1
186	Photonic microwave and RF signal processing based on optical micro-combs. , 2017, , .		0
187	Quantum tomography of a nonlinear photonic circuit by classical sum-frequency generation measurements. , 2017, , .		0
188	Reconfigurable microwave photonic differentiator based on an integrated Kerr frequency comb source. , 2017, , .		0
189	Compact Brillouin devices through hybrid integration on silicon. Optica, 2017, 4, 847.	4.8	135
190	Brillouin lasing in a hybrid silicon chip. , 2017, , .		0
191	Integrated Kerr Comb-based Reconfigurable Transversal Differentiator for Microwave Photonic Signal Processing. , 2017, , .		1
192	Optical intensity square root differentiator based on an integrated Kerr frequency comb source. , 2017, , .		0
193	On-chip FP-cavity-assisted microring resonator with enhanced quality factor. , 2017, , .		0
194	Mitigation of Electrical Bandwidth Limitations using Optical Pre-Sampling. , 2017, , .		3
195	Hybrid Waveguide-integrated Plasmonic Crystals on Silicon-on-Insulator Platform. , 2016, , .		0
196	Manifold design for uniform fluid distribution in parallel microchannels. , 2016, , .		1
197	Domain engineering algorithm for practical and effective photon sources. Optics Express, 2016, 24, 19616.	1.7	33
198	Experimental demonstration of bidirectional light transfer in adiabatic waveguide structures. Optics Letters, 2016, 41, 5278.	1.7	10

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199	Laserâ€Induced Dewetting for Precise Local Generation ofÂAu Nanostructures for Tunable Solar Absorption. Advanced Optical Materials, 2016, 4, 1247-1254.	3.6	26
200	Dynamic drag force based on iterative density mapping: A new numerical tool for threeâ€dimensional analysis of particle trajectories in a dielectrophoretic system. Electrophoresis, 2016, 37, 645-657.	1.3	4
201	Manifold design for uniform fluid distribution in parallel microchannels. , 2016, , .		2
202	Towards an integrated optofluidic system for highly sensitive detection of antibiotics in seawater incorporating bimodal waveguide photonic biosensors and complex, active microfluidics. Proceedings of SPIE, 2016, , .	0.8	2
203	Concurrent shear stress and chemical stimulation of mechano-sensitive cells by discontinuous dielectrophoresis. Biomicrofluidics, 2016, 10, 024117.	1.2	9
204	Frequency conversion between UV and telecom wavelengths in a lithium niobate waveguide for quantum communication with Yb⁺trapped ions. Journal of Optics (United Kingdom), 2016, 18, 104007.	1.0	23
205	Ionic imbalance induced self-propulsion of liquid metals. Nature Communications, 2016, 7, 12402.	5.8	158
206	Hydrodynamic directional control of liquid metal droplets within a microfluidic flow focusing system. Applied Physics Letters, 2016, 108, 164101.	1.5	24
207	Bonding of SU-8 films onto KMPR structures for microfluidic, air-suspended photonic and optofluidic applications. Journal of Micromechanics and Microengineering, 2016, 26, 055001.	1.5	12
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