

Jianji Dong

List of Publications by Year in descending order

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240
papers

4,161
citations

101543

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155660

55
g-index

241
all docs

241
docs citations

241
times ranked

2574
citing authors

#	ARTICLE	IF	CITATIONS
1	Photonic matrix multiplication lights up photonic accelerator and beyond. <i>Light: Science and Applications</i> , 2022, 11, 30.	16.6	167
2	Slow-light-enhanced energy efficiency for graphene microheaters on silicon photonic crystal waveguides. <i>Nature Communications</i> , 2017, 8, 14411.	12.8	153
3	Roadmap on all-optical processing. <i>Journal of Optics (United Kingdom)</i> , 2019, 21, 063001.	2.2	128
4	Ultra-compact integrated graphene plasmonic photodetector with bandwidth above 110 GHz. <i>Nanophotonics</i> , 2020, 9, 317-325.	6.0	113
5	Ultrawideband monocycle generation using cross-phase modulation in a semiconductor optical amplifier. <i>Optics Letters</i> , 2007, 32, 1223.	3.3	107
6	Spectrum Control through Discrete Frequency Diffraction in the Presence of Photonic Gauge Potentials. <i>Physical Review Letters</i> , 2018, 120, 133901.	7.8	92
7	A Continuously Tunable Sub-Gigahertz Microwave Photonic Bandpass Filter Based on an Ultra-High-Q Silicon Microring Resonator. <i>Journal of Lightwave Technology</i> , 2018, 36, 4312-4318.	4.6	89
8	Universal multimode waveguide crossing based on transformation optics. <i>Optica</i> , 2018, 5, 1549.	9.3	87
9	High-speed all-optical differentiator based on a semiconductor optical amplifier and an optical filter. <i>Optics Letters</i> , 2007, 32, 1872.	3.3	81
10	Simultaneous demonstration on all-optical digital encoder and comparator at 40 Gb/s with semiconductor optical amplifiers. <i>Optics Express</i> , 2007, 15, 15080.	3.4	81
11	Ultrafast All-Optical Signal Processing Based on Single Semiconductor Optical Amplifier and Optical Filtering. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2008, 14, 770-778.	2.9	81
12	Theoretical analysis and experimental verification on optical rotational Doppler effect. <i>Optics Express</i> , 2016, 24, 10050.	3.4	80
13	Comparison analysis of optical frequency comb generation with nonlinear effects in highly nonlinear fibers. <i>Optics Express</i> , 2013, 21, 8508.	3.4	76
14	Self-Configuring and Reconfigurable Silicon Photonic Signal Processor. <i>ACS Photonics</i> , 2020, 7, 792-799.	6.6	70
15	2D Materials Enabled Next-Generation Integrated Optoelectronics: from Fabrication to Applications. <i>Advanced Science</i> , 2021, 8, e2003834.	11.2	70
16	Triangular-shaped pulse generation based on self-convolution of a rectangular-shaped pulse. <i>Optics Letters</i> , 2014, 39, 2258.	3.3	67
17	All-optical ultrawideband monocycle generation utilizing gain saturation of a dark return-to-zero signal in a semiconductor optical amplifier. <i>Optics Letters</i> , 2007, 32, 2158.	3.3	59
18	Compact Notch Microwave Photonic Filters Using On-Chip Integrated Microring Resonators. <i>IEEE Photonics Journal</i> , 2013, 5, 5500307-5500307.	2.0	57

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19	40Gb/s all-optical logic NOR and OR gates using a semiconductor optical amplifier: Experimental demonstration and theoretical analysis. <i>Optics Communications</i> , 2008, 281, 1710-1715.	2.1	55
20	All-optical differentiator based on cross-gain modulation in semiconductor optical amplifier. <i>Optics Letters</i> , 2007, 32, 3029.	3.3	52
21	Reconfigurable All-Optical Logic Gates for Multi-Input Differential Phase-Shift Keying Signals: Design and Experiments. <i>Journal of Lightwave Technology</i> , 2009, 27, 5268-5275.	4.6	51
22	Temporal imaging using a time pinhole. <i>Optics Express</i> , 2014, 22, 8076.	3.4	50
23	40 Gb/s all-optical NRZ to RZ format conversion using single SOA assisted by optical bandpass filter. <i>Optics Express</i> , 2007, 15, 2907.	3.4	48
24	A proposal for two-input arbitrary Boolean logic gates using single semiconductor optical amplifier by picosecond pulse injection. <i>Optics Express</i> , 2009, 17, 7725.	3.4	48
25	All-optical UWB generation and modulation using SOA-XPM effect and DWDM-based multi-channel frequency discrimination. <i>Optics Express</i> , 2010, 18, 24588.	3.4	48
26	A review: Photonics devices, architectures, and algorithms for optical neural computing. <i>Journal of Semiconductors</i> , 2021, 42, 023105.	3.7	48
27	All-in-one silicon photonic polarization processor. <i>Nanophotonics</i> , 2019, 8, 2257-2267.	6.0	47
28	High-order photonic differentiator employing on-chip cascaded microring resonators. <i>Optics Letters</i> , 2013, 38, 628.	3.3	46
29	Silicon-on-insulator-based microwave photonic filter with narrowband and ultrahigh peak rejection. <i>Optics Letters</i> , 2018, 43, 1359.	3.3	43
30	Switchable microwave photonic filter between high Q bandpass filter and notch filter with flat passband based on phase modulation. <i>Optics Express</i> , 2010, 18, 25271.	3.4	41
31	All-optical differential equation solver with constant-coefficient tunable based on a single microring resonator. <i>Scientific Reports</i> , 2014, 4, 5581.	3.3	41
32	On-chip programmable pulse processor employing cascaded MZI-MRR structure. <i>Frontiers of Optoelectronics</i> , 2019, 12, 148-156.	3.7	41
33	All-optical computation system for solving differential equations based on optical intensity differentiator. <i>Optics Express</i> , 2013, 21, 7008.	3.4	40
34	Compact, flexible and versatile photonic differentiator using silicon Mach-Zehnder interferometers. <i>Optics Express</i> , 2013, 21, 7014.	3.4	40
35	Generation of Terahertz Vortices Using Metasurface With Circular Slits. <i>IEEE Photonics Journal</i> , 2014, 6, 1-7.	2.0	38
36	Wideband adaptive microwave frequency identification using an integrated silicon photonic scanning filter. <i>Photonics Research</i> , 2019, 7, 172.	7.0	38

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37	Photonic measurement of microwave frequency using a silicon microdisk resonator. Optics Communications, 2015, 335, 266-270.	2.1	37
38	Dual-Pumped Tellurite Fiber Amplifier and Tunable Laser Using Er ³⁺ /Ce ³⁺ Codoping Scheme. IEEE Photonics Technology Letters, 2011, 23, 736-738.	2.5	36
39	Fractional-order photonic differentiator using an on-chip microring resonator. Optics Letters, 2014, 39, 6355.	3.3	36
40	Double metal subwavelength slit arrays interference to measure the orbital angular momentum and the polarization of light. Optics Letters, 2014, 39, 3173.	3.3	36
41	Performance of integrated optical switches based on 2D materials and beyond. Frontiers of Optoelectronics, 2020, 13, 129-138.	3.7	36
42	2D materials integrated with metallic nanostructures: fundamentals and optoelectronic applications. Nanophotonics, 2020, 9, 1877-1900.	6.0	36
43	Dynamic interferometry measurement of orbital angular momentum of light. Optics Letters, 2014, 39, 6058.	3.3	35
44	Arbitrary waveform generator and differentiator employing an integrated optical pulse shaper. Optics Express, 2015, 23, 12161.	3.4	35
45	Tunable optical delay line based on integrated grating-assisted contradirectional couplers. Photonics Research, 2018, 6, 880.	7.0	35
46	Single SOA based all-optical adder assisted by optical bandpass filter: Theoretical analysis and performance optimization. Optics Communications, 2007, 270, 238-246.	2.1	34
47	A Tunable Microwave Photonic Filter Based on an All-Optical Differentiator. IEEE Photonics Technology Letters, 2011, 23, 308-310.	2.5	34
48	Integrated programmable photonic filter on the silicon-on-insulator platform. Optics Express, 2014, 22, 31993.	3.4	34
49	High-order all-optical differential equation solver based on microring resonators. Optics Letters, 2013, 38, 3735.	3.3	33
50	On-chip passive three-port circuit of all-optical ordered-route transmission. Scientific Reports, 2015, 5, 10190.	3.3	32
51	Double-layer graphene on photonic crystal waveguide electro-absorption modulator with 12 GHz bandwidth. Nanophotonics, 2020, 9, 2377-2385.	6.0	32
52	All-Optical Canonical Logic Units-Based Programmable Logic Array (CLUs-PLA) Using Semiconductor Optical Amplifiers. Journal of Lightwave Technology, 2012, 30, 3532-3539.	4.6	30
53	Single Passband Microwave Photonic Filter With Continuous Wideband Tunability Based on Electro-Optic Phase Modulator and Fabry-Pérot Semiconductor Optical Amplifier. Journal of Lightwave Technology, 2011, 29, 3542-3550.	4.6	29
54	Experimental demonstration of both inverted and non-inverted wavelength conversion based on transient cross phase modulation of SOA. Optics Express, 2006, 14, 7587.	3.4	28

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55	Photonic Matrix Computing: From Fundamentals to Applications. <i>Nanomaterials</i> , 2021, 11, 1683.	4.1	28
56	Experimental observation of optical differentiation and optical Hilbert transformation using a single SOI microdisk chip. <i>Scientific Reports</i> , 2015, 4, 3960.	3.3	27
57	Chip-integrated all-optical 4-bit Gray code generation based on silicon microring resonators. <i>Optics Express</i> , 2015, 23, 21414.	3.4	26
58	Energy-efficient on-chip optical diode based on the optomechanical effect. <i>Optics Express</i> , 2017, 25, 8975.	3.4	26
59	Chip-Scale Optical Matrix Computation for PageRank Algorithm. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2020, 26, 1-10.	2.9	26
60	Tunable fractional-order differentiator using an electrically tuned silicon-on-insulator Mach-Zehnder interferometer. <i>Optics Express</i> , 2014, 22, 18232.	3.4	25
61	All-Optical Modulator Using MXene Inkjet-Printed Microring Resonator. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2020, 26, 1-6.	2.9	25
62	Two-dimensional silicon photonic grating coupler with low polarization-dependent loss and high tolerance. <i>Optics Express</i> , 2019, 27, 22268.	3.4	25
63	A small microring array that performs large complex-valued matrix-vector multiplication. <i>Frontiers of Optoelectronics</i> , 2022, 15, .	3.7	25
64	Phosphorene-assisted silicon photonic modulator with fast response time. <i>Nanophotonics</i> , 2020, 9, 1973-1979.	6.0	24
65	Ultra-Wideband Generation Based on Cascaded Mach-Zehnder Modulators. <i>IEEE Photonics Technology Letters</i> , 2011, 23, 1754-1756.	2.5	23
66	UWB Monocycle Generation and Bi-Phase Modulation Based on Mach-Zehnder Modulator and Semiconductor Optical Amplifier. <i>IEEE Photonics Journal</i> , 2012, 4, 327-339.	2.0	20
67	Widely tunable fractional-order photonic differentiator using a Mach-Zehnder interferometer coupled microring resonator. <i>Optics Express</i> , 2017, 25, 33305.	3.4	20
68	Simultaneous All-Optical $\<emph>$ and $\</emph>$ and $\<emph>$ and $\</emph>$ Gates for NRZ Differential Phase-Shift-Keying Signals. <i>IEEE Photonics Technology Letters</i> , 2008, 20, 596-598.	2.5	19
69	Analytical Solution for SOA-Based All-Optical Wavelength Conversion Using Transient Cross-Phase Modulation. <i>IEEE Photonics Technology Letters</i> , 2006, 18, 2554-2556.	2.5	18
70	Expanded all-optical programmable logic array based on multi-input/output canonical logic units. <i>Optics Express</i> , 2014, 22, 9959.	3.4	18
71	Photonic arbitrary waveform generator based on Taylor synthesis method. <i>Optics Express</i> , 2016, 24, 24390.	3.4	18
72	Reconfigurable photonic temporal differentiator based on a dual-drive Mach-Zehnder modulator. <i>Optics Express</i> , 2016, 24, 11739.	3.4	18

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73	Photonic Multiple Microwave Frequency Measurement Based on Frequency-to-Time Mapping. IEEE Photonics Journal, 2018, 10, 1-7.	2.0	18
74	Arbitrary-Order Bandwidth-Tunable Temporal Differentiator Using a Programmable Optical Pulse Shaper. IEEE Photonics Journal, 2011, 3, 996-1003.	2.0	16
75	Reconfigurable photonic differentiators based on all-optical phase modulation and linear filtering. Optics Communications, 2011, 284, 5792-5797.	2.1	15
76	Polarimeters from bulky optics to integrated optics: A review. Optics Communications, 2020, 465, 125598.	2.1	15
77	Experimental study of SOA-based NRZ-to-PRZ conversion and distortion elimination of amplified NRZ signal using spectral filtering. Optics Communications, 2008, 281, 5618-5624.	2.1	14
78	Hybrid WDM-MDM transmitter with an integrated Si modulator array and a micro-resonator comb source. Optics Express, 2021, 29, 39847.	3.4	14
79	All-optical binary phase-coded UWB signal generation for multi-user UWB communications. Optics Express, 2011, 19, 10587.	3.4	13
80	Photonic Hilbert Transformer Employing On-Chip Photonic Crystal Nanocavity. Journal of Lightwave Technology, 2014, 32, 3704-3709.	4.6	13
81	Photonic crystal nanocavity assisted rejection ratio tunable notch microwave photonic filter. Scientific Reports, 2017, 7, 40223.	3.3	13
82	Large Group Delay in Silicon-on-Insulator Chirped Spiral Bragg Grating Waveguide. IEEE Photonics Journal, 2021, 13, 1-5.	2.0	13
83	Dielectric Metasurfaces Enabled Ultradensely Integrated Multidimensional Optical System. Laser and Photonics Reviews, 2022, 16, .	8.7	13
84	Simultaneous all-optical digital comparator and dual-directional half-subtractor for two-input 40Gbit/s DPSK signals employing SOAs. Optics Communications, 2012, 285, 407-411.	2.1	12
85	Photonic Generation of Precisely π Phase-Coded Microwave Signal With Broadband Tunability. IEEE Photonics Technology Letters, 2013, 25, 2466-2469.	2.5	12
86	In-line polarization-dependent microfiber interferometers and their applications in UWB signal generation. Optics Express, 2013, 21, 8231.	3.4	12
87	Frequency-Hopping Microwave Generation With a Large Time-Bandwidth Product. IEEE Photonics Journal, 2018, 10, 1-9.	2.0	12
88	Integrated Optical True Time Delay Network Based on Grating-Assisted Contradirectional Couplers for Phased Array Antennas. IEEE Journal of Selected Topics in Quantum Electronics, 2020, 26, 1-7.	2.9	12
89	125-GHz Microwave Signal Generation Employing an Integrated Pulse Shaper. Journal of Lightwave Technology, 2017, 35, 2741-2745.	4.6	12
90	All-optical PtSe ₂ silicon photonic modulator with ultra-high stability. Photonics Research, 2020, 8, 1189.	7.0	12

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91	Photonic generation of ultra-wideband doublet pulse using a semiconductor-optical-amplifier based polarization-diversified loop. Optics Letters, 2012, 37, 2217.	3.3	11
92	Chip-integrated optical power limiter based on an all-passive micro-ring resonator. Scientific Reports, 2014, 4, 6676.	3.3	11
93	Broadband on-chip integrator based on silicon photonic phase-shifted Bragg grating. Photonics Research, 2017, 5, 182.	7.0	11
94	Bandwidth-adaptable silicon photonic differentiator employing a slow light effect. Optics Letters, 2017, 42, 1596.	3.3	11
95	Optical solver for a system of ordinary differential equations based on an external feedback assisted microring resonator. Optics Letters, 2017, 42, 2310.	3.3	11
96	Silicon-based polarization analyzer by polarization-frequency mapping. APL Photonics, 2018, 3, .	5.7	11
97	Hybrid coding method of multiple orbital angular momentum states based on the inherent orthogonality. Optics Letters, 2014, 39, 731.	3.3	10
98	Ultra-Compact Broadband Tunable Graphene Plasmonic Multimode Interferometer. IEEE Photonics Technology Letters, 2016, 28, 645-648.	2.5	10
99	Tomographic polarization analyzer by polarization-mode-frequency mapping. Optics Express, 2017, 25, 14023.	3.4	10
100	Mode measurement of few-mode fibers by mode-frequency mapping. Optics Letters, 2018, 43, 1435.	3.3	10
101	Filter-free ultrawideband generation based on semiconductor optical amplifier nonlinearities. Optics Communications, 2008, 281, 808-813.	2.1	9
102	Photonic generation of millimeter-wave ultra-wideband signal using phase modulation to intensity modulation conversion and frequency up-conversion. Optics Communications, 2012, 285, 1748-1752.	2.1	9
103	Designing Appointed and Multiple Focuses With Plasmonic Vortex Lenses. IEEE Photonics Journal, 2015, 7, 1-7.	2.0	9
104	Flat-top bandpass microwave photonic filter with tunable bandwidth and center frequency based on a Fabry-Pérot semiconductor optical amplifier. Optics Letters, 2016, 41, 3301.	3.3	9
105	Measuring the Orbital Angular Momentum State of Light by Coordinate Transformation. IEEE Photonics Technology Letters, 2017, 29, 86-89.	2.5	9
106	Photonic linear chirped microwave signal generation based on the ultra-compact spectral shaper using the slow light effect. Optics Letters, 2017, 42, 3299.	3.3	9
107	Photonic Emulator for Inverse Design. ACS Photonics, 2023, 10, 2173-2181.	6.6	9
108	Bandwidth-Tunable Single-Carrier UWB Monocycle Generation Using a Nonlinear Optical Loop Mirror. IEEE Photonics Technology Letters, 2012, 24, 1646-1649.	2.5	8

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109	Reconfigurable Temporal Fourier Transformation and Temporal Imaging. Journal of Lightwave Technology, 2014, 32, 4565-4570.	4.6	8
110	Route-asymmetrical optical transmission and logic gate based on optical gradient force. Optics Express, 2014, 22, 25947.	3.4	8
111	Operation bandwidth optimization of photonic differentiators. Optics Express, 2015, 23, 18925.	3.4	8
112	Reconfigurable symmetric pulses generation using on-chip cascaded optical differentiators. Optics Express, 2016, 24, 20529.	3.4	8
113	Measurement of Orbital Angular Momentum by Self-Interference Using a Plasmonic Metasurface. IEEE Photonics Journal, 2016, 8, 1-8.	2.0	8
114	Compact continuously tunable microwave photonic filters based on cascaded silicon microring resonators. Optics Communications, 2016, 363, 128-133.	2.1	8
115	Microwave photonic filter with multiple taps based on single semiconductor optical amplifier. Optics Communications, 2010, 283, 3026-3029.	2.1	7
116	Manipulation of orbital angular momentum beams based on space diffraction compensation. Optics Express, 2014, 22, 17756.	3.4	7
117	Photonic generation of millimeter-wave using a silicon microdisk resonator. Optics Communications, 2015, 343, 115-120.	2.1	7
118	Orbital Angular Momentum Divider of Light. IEEE Photonics Journal, 2017, 9, 1-8.	2.0	7
119	Field-programmable silicon temporal cloak. Nature Communications, 2019, 10, 2726.	12.8	7
120	Compact high-contrast silicon optical filter using all-passive and CROW Fano nanobeam resonators. Optics Letters, 2021, 46, 3873.	3.3	7
121	Retrieving orbital angular momentum distribution of light with plasmonic vortex lens. Scientific Reports, 2016, 6, 27265.	3.3	6
122	Temporal cloak with large fractional hiding window at telecommunication data rate. Optics Communications, 2017, 388, 77-83.	2.1	6
123	Efficient Thermal Tuning Employing Metallic Microheater With Slow-Light Effect. IEEE Photonics Technology Letters, 2018, 30, 1151-1154.	2.5	6
124	Theoretical and Experimental Study on all-optical Wavelength Converters Based on the Single-port-coupled SOA. Optical and Quantum Electronics, 2005, 37, 1011-1023.	3.3	5
125	All-Optical Signal Processing with Semiconductor Optical Amplifiers and Tunable Filters. , 0, , .		5
126	All-Optical Microwave Photonic Filter Based on Electrooptic Phase Modulator and Detuned Wavelength Division De-Multiplexer. IEEE Transactions on Microwave Theory and Techniques, 2011, 59, 2340-2349.	4.6	5

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127	40-Gb/s all-optical digital 4-bit priority encoder employing cross-gain modulation in semiconductor optical amplifiers. <i>Science Bulletin</i> , 2012, 57, 1204-1208.	1.7	5
128	All-Optical Millimeter-Wave Ultrawideband Signal Generation Using a Nonlinear Optical Loop Mirror. <i>IEEE Photonics Journal</i> , 2012, 4, 350-356.	2.0	5
129	Generation of Millimeter-Wave Ultra-Wideband Pulses Free of Strong Local Oscillation and Background. <i>IEEE Photonics Technology Letters</i> , 2016, 28, 2363-2366.	2.5	5
130	Linear and nonlinear microwave responses of a microwave photonic filter based on a photonic crystal microcavity. <i>Journal of Applied Physics</i> , 2017, 121, .	2.5	5
131	Efficient Spectrum Reshaping with Photonic Gauge Potentials in Resonantly Modulated Fiber-Loop Circuits. <i>Physical Review Applied</i> , 2019, 12, .	3.8	5
132	40-Gb/s 16-ary All-Optical Logic Minterms Generation for Four-Line Inputs. <i>IEEE Photonics Technology Letters</i> , 2011, 23, 1322-1324.	2.5	4
133	All-optical switchable UWB pulses generation, modulation and transmission. <i>Optics Communications</i> , 2011, 284, 2448-2454.	2.1	4
134	A single passband microwave photonic filter with flat-top and steep transition edges. <i>Optics Communications</i> , 2013, 286, 95-98.	2.1	4
135	Theoretical analysis for optomechanical all-optical transistor. <i>Frontiers of Optoelectronics</i> , 2016, 9, 406-411.	3.7	4
136	A Tunable Single Passband Microwave Photonic Filter of Overcoming Fiber Dispersion Induced Amplitude Fading. <i>IEEE Photonics Journal</i> , 2017, 9, 1-8.	2.0	4
137	Strategy for Low-loss Optical Devices When Using High-loss Materials. <i>Advanced Photonics Research</i> , 2022, 3, .	3.6	4
138	All-optical ultra-wideband pulse generation based on semiconductor optical amplifiers. <i>Frontiers of Optoelectronics in China</i> , 2009, 2, 40-49.	0.2	3
139	Photonic generation of UWB doublet pulse based on XPM in an SOA-based NOLM. , 2012, , .		3
140	Switchable Microwave Photonic Filter Between Low-Pass and High-Pass Responses. <i>IEEE Photonics Journal</i> , 2016, 8, 1-8.	2.0	3
141	Ultrashort polarization rotator based on cross-symmetry waveguide. <i>Optics Communications</i> , 2016, 367, 68-71.	2.1	3
142	The smallest nanowire spectrometers. <i>Frontiers of Optoelectronics</i> , 2019, 12, 341-341.	3.7	3
143	All-optical ultra-wideband doublet generation and non-degraded transmission over optical fiber. , 2009, , .		3
144	Optical true time delay based on multimode waveguide gratings. , 2022, , .		3

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145	The Design of a Low-Loss, Fast-Response, Metal Thermo-Optic Phase Shifter Based on Coupled-Mode Theory. <i>Photonics</i> , 2022, 9, 447.	2.0	3
146	40 Gb/s both inverted and non-inverted wavelength conversion based on transient XPM of SOA. , 2007, , .		2
147	High order ultrawideband pulse generation from NRZ-DPSK signals. , 2008, , .		2
148	All-optical minterm generator for three-input NRZ-DPSK signals based on SOAs and delay interferometers. , 2008, , .		2
149	Photonic generation of power-efficient ultra-wideband waveforms using a single semiconductor optical amplifier. , 2010, , .		2
150	Experimental demonstration of 2-to-4 line photonic decoder at 40 Gbit/s with FDIs and SOAs. , 2010, , .		2
151	Reconfigurable Four-Input Photonic Logic Minterms and Maxterms Generation Using SOAs. <i>IEEE Photonics Technology Letters</i> , 2012, 24, 985-987.	2.5	2
152	Simple solutions for photonic power-efficient ultra-wideband system assisted by electrical bandpass filter. <i>Frontiers of Optoelectronics</i> , 2012, 5, 403-413.	3.7	2
153	Tunable photonic differentiator and integrator with a silicon microring resonator. , 2014, , .		2
154	Double-Slit and Square-Slit Interferences With Surface Plasmon Polaritons Modulated by Orbital Angular Momentum Beams. <i>IEEE Photonics Journal</i> , 2015, 7, 1-7.	2.0	2
155	Large-range tunable fractional-order differentiator based on cascaded microring resonators. <i>Frontiers of Optoelectronics</i> , 2016, 9, 399-405.	3.7	2
156	Optical true time delay based on contradirectional couplers with single sidewall-modulated Bragg gratings. , 2016, , .		2
157	Tunable Image Rotator of Light With Optical Geometric Transformation. <i>IEEE Photonics Journal</i> , 2016, 8, 1-7.	2.0	2
158	Route-asymmetrical light transmission of a fiber-chip-fiber optomechanical system. <i>Frontiers of Optoelectronics</i> , 2016, 9, 489-496.	3.7	2
159	Detecting the topological charge of a vortex beam by an arc slit diffraction. <i>International Journal of Modern Physics B</i> , 2017, 31, 1750172.	2.0	2
160	On-Chip Optical Feedback Systems for Solving Systems of Ordinary Differential Equations. <i>Journal of Lightwave Technology</i> , 2017, 35, 5185-5192.	4.6	2
161	Optical modulators , based on 2D materials. , 2020, , 37-77.		2
162	40Gb/S Simultaneous Inverted and Non-inverted Wavelength Conversion Based on SOA Using Transient Cross Phase Modulation. , 2006, , .		1

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163	All-optical adders based on transient cross phase modulation using a single semiconductor optical amplifier. , 2006, , .		1
164	Investigation of ultrafast all-optical AND gate based on cascaded SOAs and optical filters. Proceedings of SPIE, 2007, , .	0.8	1
165	SOA-based filter-free scheme for optical ultrawideband monocycle generation. , 2008, , .		1
166	Ultra-wideband pulse generation based on cascaded semiconductor optical amplifiers. , 2011, , .		1
167	On-chip optical pulse shaper for arbitrary waveform generation using optical gradient force. , 2014, , .		1
168	Optical-biased modulator employing a single silicon micro-ring resonator. Optics Communications, 2016, 368, 58-62.	2.1	1
169	Ultra-Compact linear chirped microwave signal generator. , 2017, , .		1
170	Demonstration of the temporal illusion and mosaic. Optics Express, 2017, 25, 12455.	3.4	1
171	On-chip Stokes Polarimeter Based on a Two-dimensional Grating. , 2019, , .		1
172	Passive Visible-to-Telecom Converter Using Tunable Perovskites and Silicon Photonics. Journal of Lightwave Technology, 2020, 38, 3533-3539.	4.6	1
173	Ultra-Compact Band-Pass and Band-Stop Tunable Filters Based on Loop-Cascaded Nanobeam Structure. IEEE Photonics Technology Letters, 2021, 33, 1109-1112.	2.5	1
174	Amplitude-equalized clock recovery using nonlinear polarization rotation in a semiconductor optical amplifier. , 2008, , .		1
175	Multiple-dimensional photonic measurements based on mapping technology. , 2018, , .		1
176	Photonic Generation of UWB Monocycle Pulses Using a Cascaded Semiconductor Optical Amplifier and Electroabsorption Modulator. , 2009, , .		1
177	Detecting orbital angular momentum of light with an arc slit. , 2015, , .		1
178	Optionally focusing with plasmonic vortex lens. , 2015, , .		1
179	Scalability and tunability of the silicon circuit supporting on-chip ordered-route light transmission. , 2016, , .		1
180	The optimization of rear facet reflectivity in all-optical wavelength converters based on a single-port coupled SOA. , 2005, , .		0

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181	Modeling of SOA-based high speed all-optical wavelength conversion with optical filter assistance. , 2006, , .		0
182	40Gb/s all-optical digital encoder/comparator based on semiconductor optical amplifiers. Proceedings of SPIE, 2007, , .	0.8	0
183	Filter-free all-optical UWB monocycle generation based on the semiconductor optical amplifier (SOA) nonlinearities. , 2007, , .		0
184	Ultrafast multifunctional all-optical logic gates based on single semiconductor optical amplifier. , 2007, , .		0
185	Design of all-optical UWB monocycle generation for UWB-over-fibre communications. Proceedings of SPIE, 2007, , .	0.8	0
186	All-optical 20 Gbit/s NRZ-DPSK demodulation and clock recovery. Proceedings of SPIE, 2008, , .	0.8	0
187	A proposal for two-input arbitrary Boolean logic gates based on single semiconductor optical amplifier. Proceedings of SPIE, 2008, , .	0.8	0
188	Photonic generation of ultra-wideband monocycle and doublet pulses using simplex semiconductor optical amplifier. Proceedings of SPIE, 2008, , .	0.8	0
189	Photonic generation of power-efficient ultra-wideband waveforms using a single semiconductor optical amplifier. , 2010, , .		0
190	Experimental demonstration of 40 Gbit/s 2-to-4 photonic decoder based on delay interferometers and semiconductor optical amplifiers. Proceedings of SPIE, 2010, , .	0.8	0
191	All optical microwave photonic filter with bandpass and notch filtering shapes. , 2010, , .		0
192	Widely tunable microwave photonic filter based on semiconductor optical amplifier. , 2010, , .		0
193	All optical microwave photonic filter with bandpass and notch filtering shapes. , 2010, , .		0
194	40Gb/s all-optical binary-coded-decimal decoder. Proceedings of SPIE, 2011, , .	0.8	0
195	All-optical programmable logic arrays using SOA-based canonical logic units. , 2012, , .		0
196	Power-efficient UWB generation based on hybrid of optical fiber link and RF circuits. Proceedings of SPIE, 2012, , .	0.8	0
197	40-Gbit/s 3-input all-optical priority encoder based on cross-gain modulation in two parallel semiconductor optical amplifiers. Frontiers of Optoelectronics, 2012, 5, 195-199.	3.7	0
198	All-optical analog signal processing technologies with SOI-based microring resonators. , 2013, , .		0

#	ARTICLE	IF	CITATIONS
199	An optically tunable optoelectronic oscillator incorporating a bandpass microwave photonic filter. , 2013, , .		0
200	Comparison analysis of microwave photonic filter using SOI microring and microdisk resonators. , 2014, , .		0
201	Photonic generation of UWB impulses by using a Fabryâ€“PÃ©rot semiconductor optical amplifier. Optics Communications, 2014, 315, 356-361.	2.1	0
202	Nonreciprocal light transmission based on the thermal radiative effect. , 2015, , .		0
203	Integrated all-optical three-port circuit of ordered-route transmission. , 2015, , .		0
204	Compact tunable microwave photonic filters based on cascaded microring resonators. , 2015, , .		0
205	On-chip optical pulse shaper and its application in arbitrary waveform generation. , 2015, , .		0
206	On-chip arbitrary waveform generator and differentiator. , 2016, , .		0
207	Dividing orbital angular momentum of light. , 2016, , .		0
208	A Special issue on Semiconductor optoelectronics dedicated to Prof. Dexiu Huangâ€™s 80th birthday. Frontiers of Optoelectronics, 2016, 9, 339-340.	3.7	0
209	A temporal cloak based on ultra-short-pulse generation and time-domain fraunhofer diffraction. , 2016, , .		0
210	On-chip pulse shaper for optical and microwave arbitrary waveform generation. , 2016, , .		0
211	Polarization analyzer based on rotational Doppler Effect. , 2017, , .		0
212	Advances on integrated microwave photonics. , 2017, , .		0
213	On-chip optical diode with low power consumption. , 2017, , .		0
214	Temporal cloak for data restraint and illusion. , 2017, , .		0
215	Programmable Pulse Processor Using Cascaded Microrings on Silicon Photonic Circuits. , 2018, , .		0
216	Silicon-Based Polarization Analyzer by Polarization-Frequency Mapping. , 2018, , .		0

#	ARTICLE	IF	CITATIONS
217	Theoretical study of polarization dependence of carrier-induced refractive index change of quantum dot. Optics Express, 2018, 26, 2252.	3.4	0
218	Separation of Rectangularly Symmetric Modes of Light With Fan-Out Elements. IEEE Photonics Journal, 2019, 11, 1-8.	2.0	0
219	Ultrawideband doublet generation from NRZ-DPSK signals. , 2008, , .		0
220	Photonic Generation of Power-Efficient Ultra-wideband Waveforms Using a Single Semiconductor Optical Amplifier. , 2010, , .		0
221	Widely Tunable Microwave Photonic Filter Based on Semiconductor Optical Amplifier. , 2010, , .		0
222	Experimental demonstration of 40 Gbit/s 2-to-4 photonic decoder based on delay interferometers and semiconductor optical amplifiers. , 2010, , .		0
223	Ultracompact Onchip Photonic Differentiator Based on Silicon Microdisk Resonator. , 2013, , .		0
224	High-order Photonic Differentiator using On-chip Cascaded Mach-Zehnder Interferometers. , 2013, , .		0
225	Multi-functional Photonic Differentiators based on Versatile Demodulation of Phase Signals. , 2013, , .		0
226	All-Optical Signal Processing with SOI-based Microring Resonators. , 2013, , .		0
227	Multi frequency components generation using cascaded time lenses based on space-time duality. , 2015, , .		0
228	Thermal-tuned optical pulse shaper for arbitrary waveform generation with integrated waveguides. , 2015, , .		0
229	Experimental demonstration of reconfigurable pulses generation based on integrated optical differentiators. , 2016, , .		0
230	An all-silicon passive six-port circuit of all-optical ordered-route transmission. , 2016, , .		0
231	Optical holographic anti-counterfeiting using a plasmonic metasurface. , 2016, , .		0
232	Robust photonic differentiator employing slow light effect in photonic crystal waveguide. , 2017, , .		0
233	Analyzing the mode distribution of few-mode fiber by mode-frequency mapping. , 2018, , .		0
234	Advances on silicon-based integrated microwave photonics. , 2018, , .		0

#	ARTICLE	IF	CITATIONS
235	Bridge from Visible Light Communication to Telecommunication via Perovskite-Silicon Photonics. , 2019, , .		0
236	Universal multimode waveguide crossing based on transformation optics: publisher's note. Optica, 2019, 6, 125.	9.3	0
237	Large Modulation Depth Photonic Crystal Waveguide Electro-Absorption Modulator. , 2019, , .		0
238	Stokes polarimeter with polarization-dependent hologram. , 2019, , .		0
239	Loss-induced high-speed silicon microheater. , 2021, , .		0
240	Compact and high Q multimode racetrack ringresonator based on transformation optics. Optics Express, 2022, 30, 15766-15776.	3.4	0