

CITATION REPORT

List of articles citing

New CMOS-compatible platforms based on silicon nitride and Hydex for nonlinear optics

DOI: 10.1038/nphoton.2013.183
Nature Photonics, 2013, 7, 597-607.

Source: <https://exaly.com/paper-pdf/54816351/citation-report.pdf>

Version: 2024-04-28

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

#	Paper	IF	Citations
905	Active temporal and spatial multiplexing of photons. 2016 , 3, 127		
904	Quasi-phase-matched second harmonic generation in silicon nitride ring resonators controlled by static electric field. 2013 , 21, 32690-8		11
903	Nonlinear integrated microwave photonics. 2013 ,		
902	Optical Kerr nonlinearity in a high-Q silicon carbide microresonator. 2014 , 22, 30826-32		49
901	Vertically Coupled Silicon Nitride Microdisk Resonant Filters. 2014 , 26, 2391-2394		13
900	On the photoluminescence of as-deposited Tb-doped silicon oxides and oxynitrides fabricated by ECR-PECVD. 2014 ,		1
899	Integrated frequency comb source of heralded single photons. 2014 , 22, 6535-46		89
898	Sub-micron silicon nitride waveguide fabrication using conventional optical lithography. 2014 ,		1
897	Supercontinuum generation in an on-chip silica waveguide. 2014 , 39, 1046-8		50
896	Single dipole evanescently coupled to a multimode waveguide. 2014 , 22, 19633-40		12
895	Picosecond all-optical switching in hydrogenated amorphous silicon microring resonators. 2014 , 22, 3797-810		51
894	Comparative analysis of spectral coherence in microresonator frequency combs. 2014 , 22, 4678-91		23
893	Molecular-absorption-induced thermal bistability in PECVD silicon nitride microring resonators. 2014 , 22, 18412-20		7
892	CMOS compatible integrated all-optical radio frequency spectrum analyzer. 2014 , 22, 21488-98		23
891	Ultra-large nonlinear parameter in graphene-silicon waveguide structures. 2014 , 22, 22820-30		35
890	Maximizing slow-light enhancement in one-dimensional photonic crystal ring resonators. 2014 , 22, 26032-41		19
889	On-chip frequency comb generation at visible wavelengths via simultaneous second- and third-order optical nonlinearities. 2014 , 22, 26517-25		56

888	Radiation hardness of high-Q silicon nitride microresonators for space compatible integrated optics. 2014 , 22, 30786-94	27
887	Low-loss and high index-contrast tantalum pentoxide microring resonators and grating couplers on silicon substrates. 2014 , 39, 5379-82	23
886	High performance platforms for integrated nonlinear optics. 2014 ,	
885	Commensurate germanium light emitters in silicon-on-insulator photonic crystal slabs. 2014 , 22, 25426-35	13
884	Third-order chromatic dispersion stabilizes Kerr frequency combs. 2014 , 39, 2971-4	52
883	Large-scale characterization of silicon nitride-based evanescent couplers at 532nm wavelength. 2014 ,	
882	Glass optical waveguides: a review of fabrication techniques. 2014 , 53, 071819	67
881	Single nanowire optical correlator. 2014 , 14, 3487-90	45
880	Role of silicon excess in Er-doped silicon-rich nitride light emitting devices at 1.54 μm . 2014 , 116, 083103	11
879	Nonlinear Integrated Microwave Photonics. 2014 , 32, 3421-3427	56
878	Multimode Correlations in Chip-based Frequency Combs. 2014 ,	
877	A Less Invasive Approach to Rheology Measurements. 2014 , 7,	2
876	On-chip wavelength switch based on thermally tunable discrete four-wave mixing in a silicon waveguide. 2014 ,	
875	Ultra-low power passive mode-locking using an integrated nonlinear microring resonator. 2015 ,	
874	Linear and nonlinear characterization of low-stress high-confinement silicon-rich nitride waveguides. 2015 , 23, 25827-37	58
873	Emerging heterogeneous integrated photonic platforms on silicon. 2015 , 4, 143-164	35
872	Dissipative Kerr Solitons in Optical Microresonators. 2015 , 129-162	6
871	Scalable Integration of Long-Lived Quantum Memories into a Photonic Circuit. 2015 , 5,	57

870	Octave-spanning coherent supercontinuum generation in a silicon nitride waveguide. 2015 , 40, 5117-20	99
869	Atomic-scale diffractive imaging of sub-cycle electron dynamics in condensed matter. 2015 , 5, 14581	33
868	Conclusion and Outlook. 2015 , 419-422	
867	Silicon-nitride photonic circuits interfaced with monolayer MoS ₂ . 2015 , 107, 091112	23
866	Phase-sensitive optical processing in silicon waveguides. 2015 ,	2
865	Continuous-wave nonlinear optics in low-stress silicon-rich nitride waveguides. 2015 ,	
864	Nonlinear photonic waveguides for on-chip optical pulse compression. 2015 , 9, 294-308	18
863	Silicon and silicon nitride photonic circuits for spectroscopic sensing on-a-chip [Invited]. 2015 , 3, B47	113
862	Supercontinuum generation in bandgap engineered, back-end CMOS compatible silicon rich nitride waveguides. 2015 , 9, 498-506	65
861	Interfacing Monolayer MoS ₂ with Silicon-Nitride Integrated Photonics. 2015 ,	2
860	Bunching of temporal cavity solitons via forward Brillouin scattering. 2015 , 17, 115009	13
859	Squeezing Light in Wires: Fundamental Optical Properties of Si Nanowire Waveguides. 2015 , 33, 3116-3131	8
858	Graphene photodetector integrated on silicon nitride waveguide. 2015 , 117, 144504	39
857	Photonic chip broadband frequency comb for coherent telecommunication. 2015 ,	
856	Material platforms for nonlinear integrated microwave photonics. 2015 ,	
855	Optical coupling between SiO _x N _y waveguide and Ge mesa structures for bulk-Si photonics platform. 2015 ,	
854	Highly nonlinear sub-micron silicon nitride trench waveguide coated with gold nanoparticles. 2015 ,	3
853	Enhancement of second-harmonic generation from silicon nitride with gold gratings. 2015 , 23, 30695-700	5

852	On-chip hybrid integration of silicon nitride microdisk with colloidal quantum dots. 2015,	0
851	. 2015,	1
850	Dual-pumped degenerate Kerr oscillator in a silicon nitride microresonator. 2015, 40, 5267-70	42
849	Integrated nonlinear optical signal processing in CMOS compatible platforms. 2015,	0
848	Photonic chip broadband frequency comb for coherent telecommunication. 2015,	
847	Numerical computation of solitonic pulse generation for terabit/sec data transmission. 2015, 47, 1765-1777	12
846	Multi wavelength mode-lock soliton generation using fiber laser loop coupled to an add-drop ring resonator. 2015, 47, 2455-2464	27
845	Mode-locked ultrashort pulse generation from on-chip normal dispersion microresonators. 2015, 114, 053901	101
844	Amorphous sub-nanometre Tb-doped SiO(x)N(y)/SiO ₂ superlattices for optoelectronics. 2015, 26, 085203	10
843	Metamaterial quasi-phase matching. <i>Nature Photonics</i> , 2015, 9, 148-150	33.9 5
842	Optimally coherent Kerr combs generated with crystalline whispering gallery mode resonators for ultrahigh capacity fiber communications. 2015, 114, 093902	74
841	Enhancement of Q-factor in SiN-based planar photonic crystal L3 nanocavity for integrated photonics in the visible-wavelength range. 2015, 126, 3467-3471	11
840	Waveguide integrated superconducting single-photon detectors with high internal quantum efficiency at telecom wavelengths. 2015, 5, 10941	66
839	Nonlinear optical signal processing in high figure of merit CMOS compatible platforms. 2015,	
838	Towards efficient octave-spanning comb with micro-structured crystalline resonator. 2015,	3
837	Cooperative Enhancement of Second-Harmonic Generation from a Single CdS Nanobelt-Hybrid Plasmonic Structure. 2015, 9, 5018-26	34
836	Continuous wave-pumped wavelength conversion in low-loss silicon nitride waveguides. 2015, 40, 875-8	30
835	Accurate optical vector network analyzer based on optical single-sideband modulation and balanced photodetection. 2015, 40, 569-72	15

- 834 High confinement, high yield Si(3)N(4) waveguides for nonlinear optical applications. **2015**, 23, 642-8 50
- 833 Sub-micron silicon nitride waveguide fabrication using conventional optical lithography. **2015**, 23, 6780-6 29
- 832 Low-loss titanium dioxide waveguides and resonators using a dielectric lift-off fabrication process. **2015**, 23, 11160-9 47
- 831 Low-loss silicon nitride waveguide hybridly integrated with colloidal quantum dots. **2015**, 23, 12152-60 26
- 830 Carrier dynamics in GaAs photonic crystal cavities near the material band edge. **2015**, 23, 12732-9 7
- 829 Frequency comb offset detection using supercontinuum generation in silicon nitride waveguides. **2015**, 23, 15440-51 60
- 828 Cross-polarized photon-pair generation and bi-chromatically pumped optical parametric oscillation on a chip. **2015**, 6, 8236 46
- 827 Integrated source of broadband quadrature squeezed light. **2015**, 23, 12013-36 17
- 826 Integrated frequency comb source based Hilbert transformer for wideband microwave photonic phase analysis. **2015**, 23, 22087-97 39
- 825 Dispersion engineering of crystalline resonators via microstructuring. **2015**, 2, 221 55
- 824 Refractometric sensing of Li salt with visible-light Si₃N₄ microdisk resonators. **2015**, 106, 081104 11
- 823 Crystalline Silicon on Silicon Nitride Hybrid Platform for Integrated Photonic Applications. **2015**,
- 822 Passive mode-locking of transform-limited hundred-ps long pulses using an integrated nonlinear microring resonator. **2015**,
- 821 Silicon nitride polarizing beam splitter with potential application for intersubband-transition-based all-optical gate device. **2015**, 54, 04DG08 11
- 820 Highly Efficient Self-Referencing of a 1-GHz Diode-Pumped Solid-State Laser Using a Silicon Nitride Chip. **2015**,
- 819 A Nonlinear Microresonator Refractive Index Sensor. **2015**, 33, 4360-4366 9
- 818 Cavity enhanced nonlinear optics for few photon optical bistability. **2015**, 23, 16246-55 23
- 817 Numerical investigation of silicon nitride trench waveguide. **2015**,

816	Optical nonlinearities in high-confinement silicon carbide waveguides. 2015 , 40, 4138-41	35
815	Efficient single-photon-level quantum frequency conversion on a silicon nanophotonic chip. 2015 ,	
814	Three-Dimensional Silicon Nitride Platform for Resonant Filters. 2016 ,	
813	Universal nonlinear scattering in ultra-high Q whispering gallery-mode resonators. 2016 , 24, 14880-94	37
812	Broad bandwidth third-harmonic generation via four-wave mixing and stimulated Raman scattering in a microcavity. 2016 , 24, 26322-26331	18
811	Electric field enhancement with plasmonic colloidal nanoantennas excited by a silicon nitride waveguide. 2016 , 24, 28337-28352	17
810	Bringing short-lived dissipative Kerr soliton states in microresonators into a steady state. 2016 , 24, 29312-29320	20
809	Active temporal and spatial multiplexing of photons. 2016 , 3, 127	62
808	Observation of second-harmonic generation in silicon nitride waveguides through bulk nonlinearities. 2016 , 24, 16923-33	20
807	Enhanced sensitivity in single-mode silicon nitride stadium resonators at visible wavelengths. 2016 , 41, 5377-5380	6
806	Figure of merit for Kerr nonlinear plasmonic waveguides. 2016 , 10, 639-646	24
805	A Comparative Analysis of Front-End and Back-End Compatible Silicon Photonic On-Chip Interconnects. 2016 ,	8
804	Frequency comb generation in the green using silicon nitride microresonators. 2016 , 10, 631-638	42
803	Kerr nonlinear characteristics of plasmonic waveguide devices. 2016 ,	
802	Ultrabroadband High Coupling Efficiency Fiber-to-Waveguide Coupler Using Si $\text{Si}_{3}\text{N}_{4}$ / SiO_{2} Waveguides on Silicon. 2016 , 8, 1-12	13
801	Demonstration of a chip-based optical isolator with parametric amplification. 2016 , 7, 13657	65
800	High-Q and low-loss chalcogenide waveguide for nonlinear supercontinuum generation. 2016 ,	4
799	Luminescence properties of Ce^{3+} and Tb^{3+} co-doped SiO_xNy thin films: Prospects for color tunability in silicon-based hosts. 2016 , 119, 113108	14

798	An ultrahigh-accuracy Miniature Dew Point Sensor based on an Integrated Photonics Platform. 2016 , 6, 29672	15
797	Nonlinear characterization of GeSbS chalcogenide glass waveguides. 2016 , 6, 39234	37
796	Energy efficient Kerr frequency combs for optical communication. 2016 ,	
795	Nonlinear and quantum optics with whispering gallery resonators. 2016 , 18, 123002	151
794	Multifrequency sources of quantum correlated photon pairs on-chip: a path toward integrated Quantum Frequency Combs. 2016 , 5, 351-362	26
793	Kerr optical frequency combs: theory, applications and perspectives. 2016 , 5, 214-230	68
792	Harnessing mode-selective nonlinear optics for on-chip multi-channel all-optical signal processing. 2016 , 1, 086104	7
791	Hybrid integration for coherent laser beam combining on silicon photonics platform. 2016 ,	1
790	Photonic Damascene process for integrated high-Q microresonator based nonlinear photonics. 2016 , 3, 20	154
789	Thermally controlled comb generation and soliton modelocking in microresonators. 2016 , 41, 2565-8	182
788	Efficient and low-noise single-photon-level frequency conversion interfaces using silicon nanophotonics. <i>Nature Photonics</i> , 2016 , 10, 406-414	33-9 129
787	Kerr effect in hybrid plasmonic waveguides. 2016 , 33, 957	9
786	Modeling Frequency Comb Sources. 2016 , 5, 292-315	6
785	The role of plasma chemistry on functional silicon nitride film properties deposited at low-temperature by mixing two frequency powers using PECVD. 2016 , 18, 13033-44	22
784	Four-wave mixing and nonlinear losses in thick silicon waveguides. 2016 , 41, 2418-21	5
783	On Frequency Combs in Monolithic Resonators. 2016 , 5, 363-391	30
782	Quantum random number generator using a microresonator-based Kerr oscillator. 2016 , 41, 4194-7	22
781	Mode locked Kerr combs based on silicon ring resonators in wavelengths around 2 μ m. 2016 ,	

780	Single mode waveguide platform for spontaneous and surface-enhanced on-chip Raman spectroscopy. 2016 , 6, 20160015	21
779	Enabling arbitrary wavelength frequency combs on chip. 2016 , 10, 158-162	18
778	Alpha Radiation Effects on Silicon Oxynitride Waveguides. 2016 , 3, 1569-1574	8
777	Fabrication and characterization of on-chip silicon nitride microdisk integrated with colloidal quantum dots. 2016 , 24, A114-22	13
776	Effect of precursors on propagation loss for plasma-enhanced chemical vapor deposition of SiN _x :H waveguides. 2016 , 6, 2892	11
775	Gigahertz frequency comb offset stabilization based on supercontinuum generation in silicon nitride waveguides. 2016 , 24, 11043-53	60
774	Ultra-low temperature silicon nitride photonic integration platform. 2016 , 24, 1865-72	33
773	40 Gb/s reconfigurable optical logic gates based on FWM in silicon waveguide. 2016 , 24, 2701-11	19
772	On-Chip Strong Coupling and Efficient Frequency Conversion between Telecom and Visible Optical Modes. 2016 , 117, 123902	100
771	High efficiency frequency doubling in fully diced LiNbO ₃ ridge waveguides on silicon. 2016 , 18, 085503	33
770	Single CdTe Nanowire Optical Correlator for Femtojoule Pulses. 2016 , 16, 4807-10	22
769	Reconfigurable optical inter-channel interference mitigation for spectrally overlapped QPSK signals using nonlinear wave mixing in cascaded PPLN waveguides. 2016 , 41, 3233-6	5
768	Quantum dynamics of Kerr optical frequency combs below and above threshold: Spontaneous four-wave mixing, entanglement, and squeezed states of light. 2016 , 93,	33
767	Walk-Off-Induced Modulation Instability, Temporal Pattern Formation, and Frequency Comb Generation in Cavity-Enhanced Second-Harmonic Generation. 2016 , 116, 033901	64
766	Raman Self-Frequency Shift of Dissipative Kerr Solitons in an Optical Microresonator. 2016 , 116, 103902	122
765	Stopping Narrow-Band X-Ray Pulses in Nuclear Media. 2016 , 116, 197402	12
764	Frequency-comb-assisted broadband precision spectroscopy with cascaded diode lasers. 2016 , 41, 3134-7	15
763	Low temperature silicon nitride waveguides for multilayer platforms. 2016 ,	1

762	On-chip broadband ultra-compact optical couplers and polarization splitters based on off-centered and non-symmetric slotted Si-wire waveguides. 2016 , 18, 105801	2
761	A review of recent theoretical studies in nonlinear crystals: towards the design of new materials. 2016 , 31, 123002	10
760	Silicon nitride grating waveguide based directional coupler. 2016 ,	
759	Visible to near-infrared supercontinuum generation in yttrium orthosilicate bulk crystal and ion implanted planar waveguide. 2016 , 6, 31612	4
758	Giant Kerr response of ultrathin gold films from quantum size effect. 2016 , 7, 13153	64
757	Third-order spontaneous parametric down-conversion in a ring microcavity. 2016 , 13, 115204	9
756	NIST on a Chip: Realizing SI units with microfabricated alkali vapour cells. 2016 , 723, 012056	20
755	Structural and optical properties of Al-Tb/SiO ₂ multilayers fabricated by electron beam evaporation. 2016 , 120, 135302	4
754	Smooth and flat phase-locked Kerr frequency comb generation by higher order mode suppression. 2016 , 6, 26255	27
753	Silicon nanophotonics for scalable quantum coherent feedback networks. 2016 , 3,	6
752	Large dynamic range optical vector analyzer based on optical single-sideband modulation and Hilbert transform. 2016 , 122, 1	7
751	Silicon Quantum Photonics. 2016 , 22, 390-402	151
750	Sub-GHz-resolution C-band Nyquist-filtering interleaver on a high-index-contrast photonic integrated circuit. 2016 , 24, 5715-27	22
749	Optical bistability in a silicon nitride waveguide grating. 2016 ,	1
748	Integrated approach for low-temperature synthesis of high-quality silicon nitride films in PECVD using RF/RF hybrid plasmas. 2016 , 25, 015017	17
747	Thermo-Optic Characterization of Silicon Nitride Resonators for Cryogenic Photonic Circuits. 2016 , 8, 1-9	46
746	Optically pumped planar waveguide lasers: Part II: Gain media, laser systems, and applications. 2016 , 45-46, 3-160	76
745	Ultrafast optical signal processing on silicon-based platforms. 2016 ,	

744	Microwave and RF applications for micro-resonator based frequency combs. 2016,	
743	Simple universal models capture all classical spin physics. 2016, 351, 1180-3	47
742	Generation of multiphoton entangled quantum states by means of integrated frequency combs. 2016, 351, 1176-80	206
741	Higher order mode suppression in high-Q anomalous dispersion SiN microresonators for temporal dissipative Kerr soliton formation. 2016, 41, 452-5	44
740	[INVITED] Self-induced polarization tracking, tunneling effect and modal attraction in optical fiber. 2016, 80, 247-259	2
739	Local excitation and collection in polymeric fluorescent microstructures. 2016, 54, 176-180	3
738	Photonic chip-based optical frequency comb using soliton Cherenkov radiation. 2016, 351, 357-60	372
737	Fast and Chaotic Fiber-Based Nonlinear Polarization Scrambler. 2016, 22, 88-99	6
736	First Monolithically Integrated Dual-Pumped Phase-Sensitive Amplifier Chip Based on a Saturated Semiconductor Optical Amplifier. 2016, 52, 1-12	4
735	Nonlinear optical interactions in silicon waveguides. 2017, 6, 377-392	10
734	Passively mode-locked laser with an ultra-narrow spectral width. <i>Nature Photonics</i> , 2017, 11, 159-162	33.9 58
733	A simple fabrication process for SiNx/SiO2 waveguide based on sidewall oxidation of patterned silicon substrate. 2017, 64, 226-230	1
732	Coupling Ideality of Integrated Planar High-Q Microresonators. 2017, 7,	42
731	Enhanced Telecom Emission from Single Group-IV Quantum Dots by Precise CMOS-Compatible Positioning in Photonic Crystal Cavities. 2017, 4, 665-673	29
730	Self-referenced photonic chip soliton Kerr frequency comb. 2017, 6, e16202	68
729	Three-Dimensional Cross-Coupled Silicon Nitride Racetrack Resonator-Based Tunable Optical Filter. 2017, 29, 771-774	9
728	Micro-ring resonator quality factor enhancement via an integrated Fabry-Perot cavity. 2017, 2, 056103	28
727	Integrated Photonic Chip Enabled Simultaneous Multichannel Wideband Radio Frequency Spectrum Analyzer. 2017, 35, 2622-2628	9

726	Wavelength conversion of QAM signals in a low loss CMOS compatible spiral waveguide. 2017 , 2, 046105	11
725	Nonlinear silicon photonics. 2017 , 19, 093002	53
724	Attosecond nanophotonics. <i>Nature Photonics</i> , 2017 , 11, 210-212	33.9 11
723	Anisotropy enables unusual waves. <i>Nature Photonics</i> , 2017 , 11, 212-214	33.9 10
722	Material and optical properties of low-temperature NH ₃ -free PECVD SiN _x layers for photonic applications. 2017 , 50, 025106	37
721	Q-enhanced racetrack microresonators. 2017 , 387, 70-78	10
720	Photonic crystal waveguides based on wide-gap semiconductor alloys. 2017 , 19, 033002	1
719	All-optical regenerator of multi-channel signals. 2017 , 8, 884	24
718	Large second harmonic generation enhancement in SiN waveguides by all-optically induced quasi-phase-matching. 2017 , 8, 1016	46
717	Reconfigurable broadband microwave photonic intensity differentiator based on an integrated optical frequency comb source. 2017 , 2, 096104	37
716	Enhanced optical nonlinearities in CMOS-compatible ultra-silicon-rich nitride photonic crystal waveguides. 2017 , 111, 121104	9
715	Anderson Localization of Visible Light on a Nanophotonic Chip. 2017 , 4, 2274-2280	16
714	Electrically Tunable Optical Nonlinearities in Graphene-Covered SiN Waveguides Characterized by Four-Wave Mixing. 2017 , 4, 3039-3044	54
713	Dispersion engineering and frequency comb generation in thin silicon nitride concentric microresonators. 2017 , 8, 372	60
712	Observation of Third-order Nonlinearities in Graphene Oxide Film at Telecommunication Wavelengths. 2017 , 7, 9646	23
711	Electronic Metamaterials with Tunable Second-order Optical Nonlinearities. 2017 , 7, 9983	5
710	A room temperature continuous-wave nanolaser using colloidal quantum wells. 2017 , 8, 143	92
709	All-optical control of light on a graphene-on-silicon nitride chip using thermo-optic effect. 2017 , 7, 17046	44

708	Integrated sources of photon quantum states based on nonlinear optics. 2017 , 6, e17100	119
707	Generating Localized Plasmonic Fields on an Integrated Photonic Platform using Tapered Couplers for Biosensing Applications. 2017 , 7, 15587	6
706	Generation of Path-Encoded Greenberger-Horne-Zeilinger States. 2017 , 8,	9
705	Towards visible soliton microcomb generation. 2017 , 8, 1295	53
704	Optoelectronic and photoacoustic studies of an organic dye synthesized through green route. 2017 , 906, 012022	
703	A III-V-on-Si ultra-dense comb laser. 2017 , 6, e16260	70
702	Si-rich Silicon Nitride for Nonlinear Signal Processing Applications. 2017 , 7, 22	75
701	Generation of complex quantum states via integrated frequency combs. 2017 ,	
700	Expanding the Silicon Photonics Portfolio With Silicon Nitride Photonic Integrated Circuits. 2017 , 35, 639-649	149
699	Universal dynamics and deterministic switching of dissipative Kerr solitons in optical microresonators. 2017 , 13, 94-102	181
698	Ultrahigh-Resolution Optical Vector Analysis Based on Optical Single-Sideband Modulation. 2017 , 35, 836-845	38
697	An integrated ultra-high-Q resonator for optical clocks, synthesizers, gyroscopes and spectroscopy. 2017 ,	1
696	Programmable optical processor chips: toward photonic RF filters with DSP-level flexibility and MHz-band selectivity. 2017 , 7, 421-454	29
695	Silicon photonic processor of two-qubit entangling quantum logic. 2017 , 19, 114006	23
694	CMOS compatible USRN:Si7N3 for supercontinuum generation, parametric amplification and four-wave mixing. 2017 ,	
693	Microwave and RF applications of micro-combs. 2017 ,	
692	Silicon-rich nitride waveguides for broadband nonlinear signal processing. 2017 ,	
691	Micro-ring resonator quality factor and extinction ratio enhancement via integrated Fabry-Perot cavity. 2017 ,	1

- 690 Photonic microwave and RF signal processing based on optical micro-combs. **2017**,
- 689 Analysis of enhanced four-wave mixing in integrated silicon-graphene oxide hybrid waveguides. **2017**,
- 688 Nonlinear photonics on-a-chip in III-V semiconductors: quest for promising material candidates. **2017**, 56, 5532-5541 9
- 687 Dispersion control of silicon nanophotonic waveguides using sub-wavelength grating metamaterials in near- and mid-IR wavelengths. **2017**, 25, 19468-19478 28
- 686 Photonic crystal waveguides on silicon rich nitride platform. **2017**, 25, 3214-3221 12
- 685 Low threshold optical bistability in one-dimensional gratings based on graphene plasmonics. **2017**, 25, 5972-5981 39
- 684 Room-temperature-deposited dielectrics and superconductors for integrated photonics. **2017**, 25, 10322-10334 5
- 683 Silicon-rich nitride waveguides for ultra-broadband nonlinear signal processing. **2017**, 25, 12100-12108 20
- 682 Integrated perovskite lasers on a silicon nitride waveguide platform by cost-effective high throughput fabrication. **2017**, 25, 13199-13206 36
- 681 Practical system for the generation of pulsed quantum frequency combs. **2017**, 25, 18940-18949 18
- 680 Extending chip-based Kerr-comb to visible spectrum by dispersive wave engineering. **2017**, 25, 22362-22374 4
- 679 Silicon nitride waveguide platform for fluorescence microscopy of living cells. **2017**, 25, 27678-27690 38
- 678 Effect on Kerr comb generation in a clockwise and counter-clockwise mode coupled microcavity. **2017**, 25, 28969 11
- 677 Hybrid light-emitting polymer/SiN_x platform for photonic integration. **2017**, 25, 33527 1
- 676 Material platforms for integrated quantum photonics. **2017**, 7, 111 77
- 675 Ultraviolet to near-infrared supercontinuum generation in a yttrium orthosilicate channel waveguide formed by ion implantation. **2017**, 7, 1794 3
- 674 Fabrication of a high-Q factor ring resonator using LSCVD deposited Si₃N₄ film. **2017**, 7, 2182 14
- 673 Octave-spanning dissipative Kerr soliton frequency combs in Si₃N₄ microresonators. **2017**, 4, 684 132

672	Ultra-low-loss Ta ₂ O ₅ -core/SiO ₂ -clad planar waveguides on Si substrates. 2017 , 4, 532	60
671	High-efficiency wideband SiN-on-SOI grating coupler with low fabrication complexity. 2017 , 42, 3391-3394	10
670	Silicon Nitride Photonic Integration Platforms for Visible, Near-Infrared and Mid-Infrared Applications. 2017 , 17,	132
669	Nonlinear Silicon Photonic Signal Processing Devices for Future Optical Networks. 2017 , 7, 103	27
668	Experimental demonstration of an apodized-imaging chip-fiber grating coupler for SiN waveguides. 2017 , 42, 3566-3569	23
667	Heterogeneous integration of lithium niobate and silicon nitride waveguides for wafer-scale photonic integrated circuits on silicon. 2017 , 42, 803-806	89
666	On-chip quantum state generation by means of integrated frequency combs. 2017 ,	
665	An iterative method for the dynamic modeling of ultra-short pulse generation in nonlinear optical ring resonator. 2017 ,	
664	Design and fabrication of Si ₃ N ₄ surface normal photonic crystal filters and reflectors. 2017 ,	
663	. 2017 ,	1
662	Equalization of PAM-4 Signal Generated by Silicon Microring Modulator for 64-Gbit/s Transmission. 2017 , 35, 4943-4948	9
661	Towards on-chip net-gain in CMOS-compatible waveguides. 2017 ,	
660	Nonlinear photonics with high-Q whispering-gallery-mode resonators. 2017 , 9, 828	105
659	Efficient wavelength conversion with low operation power in a TaO-based micro-ring resonator. 2017 , 42, 4804-4807	17
658	Ultrafast optical ranging using microresonator soliton frequency combs. 2018 , 359, 887-891	274
657	Status and Potential of Lithium Niobate on Insulator (LNOI) for Photonic Integrated Circuits. 2018 , 12, 1700256	245
656	On-chip dual-comb source for spectroscopy. 2018 , 4, e1701858	155
655	Optical Kerr effect in graphene: Theoretical analysis of the optical heterodyne detection technique. 2018 , 97,	15

654	An optical-frequency synthesizer using integrated photonics. 2018 , 557, 81-85		297
653	Integrated ultra-low-loss resonator on a chip. <i>Nature Photonics</i> , 2018 , 12, 255-256	33.9	7
652	Mid-infrared frequency comb via coherent dispersive wave generation in silicon nitride nanophotonic waveguides. <i>Nature Photonics</i> , 2018 , 12, 330-335	33.9	119
651	Monolithic photonic integration for visible and short near-infrared wavelengths: technologies and platforms for bio and life science applications. 2018 , 7, 57-65		2
650	Analysis of Kerr nonlinearity enhancement in silicon nitride waveguides using one-dimensional slow light structure. 2018 , 421, 25-29		1
649	Broadband RF Channelizer Based on an Integrated Optical Frequency Kerr Comb Source. 2018 , 36, 4519-4526		35
648	Selectable-FSR 10-GHz Granularity WDM Superchannel Filter in a Reconfigurable Photonic Integrated Circuit. 2018 , 36, 2619-2626		8
647	Thermo-optic coefficient and nonlinear refractive index of silicon oxynitride waveguides. 2018 , 8, 025311		19
646	. 2018 , 24, 1-20		46
645	Octave-spanning coherent supercontinuum generation in silicon on insulator from 1.06 μm to beyond 2.4 μm . 2018 , 7, 17131		79
644	Complete Field Characterization of Ultrashort Pulses in Fiber Photonics. 2018 , 24, 1-7		7
643	Frequency-degenerate phase-sensitive optical parametric amplification based on four-wave mixing in graphene-silicon slot waveguide. 2018 , 11, 062201		1
642	Locking the waveform with a quartz crystal. <i>Nature Photonics</i> , 2018 , 12, 256-257	33.9	0
641	Photonic chip-based soliton frequency combs covering the biological imaging window. 2018 , 9, 1146		42
640	Hollow Cathode Plasma-Enhanced Atomic Layer Deposition of Silicon Nitride Using Pentachlorodisilane. 2018 , 10, 14116-14123		15
639	Bridging ultrahigh-Q devices and photonic circuits. <i>Nature Photonics</i> , 2018 , 12, 297-302	33.9	94
638	Modeling amorphous silicon nitride: A comparative study of empirical potentials. 2018 , 148, 165-175		8
637	Micro-combs: A novel generation of optical sources. 2018 , 729, 1-81		205

636	CMOS compatible on-chip telecom-band to mid-infrared supercontinuum generation in dispersion-engineered reverse strip/slot hybrid Si ₃ N ₄ waveguide. 2018 , 65, 53-63	10
635	Theoretical investigation of intensity-dependent optical nonlinearity in graphene-aided D-microfiber. 2018 , 406, 55-60	
634	Room-Temperature Group-IV LED Based on Defect-Enhanced Ge Quantum Dots. 2018 , 5, 431-438	20
633	Robustness of Second-Harmonic Generation in a Hybrid SiN/Polymer Waveguide. 2018 ,	2
632	Ultralow-power chip-based soliton microcombs for photonic integration. 2018 , 5, 1347	83
631	. 2018 ,	1
630	Applying CMOS capabilities of CEITEC's foundry towards silicon photonic devices. 2018 ,	
629	Ultralow-Power Photonic Chip-Based Soliton Frequency Combs. 2018 ,	
628	From the Lugiato-Lefever equation to microresonator-based soliton Kerr frequency combs. 2018 , 376,	44
627	Customizing supercontinuum generation via on-chip adaptive temporal pulse-splitting. 2018 , 9, 4884	22
626	Open-Access Silicon Photonics: Current Status and Emerging Initiatives. 2018 , 106, 2313-2330	88
625	Gate-Tunable Nonlinear Refraction and Absorption in Graphene-Covered Silicon Nitride Waveguides. 2018 , 5, 4944-4950	19
624	Parametric Nonlinear Silicon-Based Photonics. 2018 , 106, 2196-2208	7
623	Heterogeneous Nonlinear Integrated Photonics. 2018 , 54, 1-16	20
622	. 2018 ,	1
621	Surface-enhanced Raman scattering using nanoporous gold on suspended silicon nitride waveguides. 2018 , 26, 24614-24620	8
620	Bidirectional Mode Slicing and Re-Combining for Mode Conversion in Planar Waveguides. 2018 , 6, 55937-55947	
619	Narrow-linewidth lasing and soliton Kerr microcombs with ordinary laser diodes. <i>Nature Photonics</i> , 2018 , 12, 694-698	33-9 58

618	Invited Article: Enhanced four-wave mixing in waveguides integrated with graphene oxide. 2018 , 3, 120803	41
617	Continuously tunable orthogonally polarized RF optical single sideband generator based on micro-ring resonators. 2018 , 20, 115701	15
616	Nanophotonic Pockels modulators on a silicon nitride platform. 2018 , 9, 3444	79
615	A topological source of quantum light. 2018 , 561, 502-506	106
614	Picosecond optical pulse processing using a terahertz-bandwidth reconfigurable photonic integrated circuit. 2018 , 7, 837-852	14
613	Highly efficient broadband second harmonic generation mediated by mode hybridization and nonlinearity patterning in compact fiber-integrated lithium niobate nano-waveguides. 2018 , 8, 12478	14
612	Grating-Assisted Fiber to Chip Coupling for SOI Photonic Circuits. 2018 , 8, 1142	19
611	Nonlinear Optics in Hydrogenated Amorphous Silicon. 2018 , 24, 1-12	5
610	Raman self-frequency-shift of soliton crystal in a high index doped silica micro-ring resonator [Invited]. 2018 , 8, 2662	15
609	. 2018 ,	
608	Generation and coherent manipulation of complex quantum states based on integrated frequency combs. 2018 ,	
607	Enhanced Third-Order Optical Nonlinearity Driven by Surface-Plasmon Field Gradients. 2018 , 120, 203903	24
606	Generation of four-wave mixing with highly sharp idlers using 2 mm home-made side-polished fiber deposited by ZnO nanorod. 2018 , 28, 076205	
605	Integrated Single Frequency, High Power Laser Sources Based on Monolithic and Hybrid Coherent Beam Combining. 2018 , 24, 1-8	4
604	On-chip frequency combs and telecommunications signal processing meet quantum optics. 2018 , 11, 134-147	4
603	Photonic Damascene Process for Low-Loss, High-Confinement Silicon Nitride Waveguides. 2018 , 24, 1-11	54
602	. 2018 , 1-1	20
601	High-Q-factor ALO micro-trench cavities integrated with silicon nitride waveguides on silicon. 2018 , 26, 11161-11170	20

600	Deuterated silicon nitride photonic devices for broadband optical frequency comb generation. 2018 , 43, 1527-1530	22
599	Graded SiGe waveguides with broadband low-loss propagation in the mid infrared. 2018 , 26, 870-877	53
598	Compact titanium dioxide waveguides with high nonlinearity at telecommunication wavelengths. 2018 , 26, 1055-1063	24
597	High-alignment-accuracy transfer printing of passive silicon waveguide structures. 2018 , 26, 2023-2032	6
596	Nonlinear silicon nitride waveguides based on a PECVD deposition platform. 2018 , 26, 9645-9654	27
595	CdTe microwires as mid-infrared optical waveguides. 2018 , 26, 10944-10952	9
594	Aluminum nitride integrated photonics platform for the ultraviolet to visible spectrum. 2018 , 26, 11147-11160	65
593	Dispersion engineered high quality lithium niobate microring resonators. 2018 , 26, 16315-16322	26
592	Scattering-loss reduction of ridge waveguides by sidewall polishing. 2018 , 26, 19815-19820	26
591	Compact broadband low-loss taper for coupling to a silicon nitride photonic wire. 2018 , 43, 3433-3436	9
590	Four-wave mixing and nonlinear parameter measurement in a gallium-nitride ridge waveguide. 2018 , 8, 66	12
589	Low-loss prism-waveguide optical coupling for ultrahigh-Q low-index monolithic resonators. 2018 , 5, 219	22
588	Mid-infrared octave spanning supercontinuum generation to 85 μm in silicon-germanium waveguides. 2018 , 5, 360	71
587	All-optical switching in silicon photonic waveguides with an epsilon-near-zero resonant cavity [Invited]. 2018 , 6, B1	14
586	Nonlinear optics on silicon-rich nitride—high nonlinear figure of merit CMOS platform [Invited]. 2018 , 6, B50	45
585	Terabit optical OFDM superchannel transmission via coherent carriers of a hybrid chip-scale soliton frequency comb. 2018 , 43, 2406-2409	26
584	Double inverse nanotapers for efficient light coupling to integrated photonic devices. 2018 , 43, 3200-3203	31
583	Deterministic generation of single soliton Kerr frequency comb in microresonators by a single shot pulsed trigger. 2018 , 26, 18563-18577	11

582	Complementary metal-oxide semiconductor compatible source of single photons at near-visible wavelengths. 2018 , 43, 855-858	5
581	Design study of random spectrometers for applications at optical frequencies. 2018 , 43, 3180-3183	11
580	Dissipative Kerr solitons in photonic chip-based microresonators. 2018 ,	
579	Vertically integrated waveguide self-coupled resonator based tunable optical filter. 2018 , 43, 3766-3769	7
578	In-fiber whispering-gallery mode microsphere resonator-based integrated device. 2018 , 43, 3961-3964	19
577	Ultra-smooth silicon nitride waveguides based on the Damascene reflow process: fabrication and loss origins. 2018 , 5, 884	85
576	Photonic microwave true time delays for phased array antennas using a 49 GHz FSR integrated optical micro-comb source [Invited]. 2018 , 6, B30	44
575	Nonlinear gallium phosphide nanoscale photonics [Invited]. 2018 , 6, B43	14
574	Type-II micro-comb generation in a filter-driven four wave mixing laser [Invited]. 2018 , 6, B67	15
573	Advanced RF and microwave functions based on an integrated optical frequency comb source. 2018 , 26, 2569-2583	48
572	Interlocking Kerr-microresonator frequency combs for microwave to optical synthesis. 2018 , 43, 2933-2936	36
571	Silicon plasmonic integrated interferometer sensor for lab on chip applications. 2018 , 427, 319-325	9
570	Impact of two-photon absorption and free-carrier effects on time lens based on four-wave mixing in silicon waveguides. 2018 , 11, 082204	3
569	Silicon Nitride Metalenses for Close-to-One Numerical Aperture and Wide-Angle Visible Imaging. 2018 , 10,	60
568	Silicon nitride metalenses for unpolarized high-NA visible imaging. 2018 ,	0
567	The Emergence of Silicon Photonics as a Flexible Technology Platform. 2018 , 106, 2101-2116	86
566	Tunable mid-infrared generation via wide-band four-wave mixing in silicon nitride waveguides. 2018 , 43, 4220-4223	16
565	Annealing-free Si ₃ N ₄ frequency combs for monolithic integration with Si photonics. 2018 , 113, 081102	25

564	Heterogeneously Integrated GaAs Waveguides on Insulator for Efficient Frequency Conversion. 2018 , 12, 1800149	55
563	Orthogonally Polarized RF Optical Single Sideband Generation and Dual-Channel Equalization Based on an Integrated Microring Resonator. 2018 , 36, 4808-4818	20
562	High-performance chemical vapor deposited graphene-on-silicon nitride waveguide photodetectors. 2018 , 43, 1399-1402	23
561	Gate-tunable frequency combs in graphene-nitride microresonators. 2018 , 558, 410-414	101
560	Characterization of Low Loss Waveguides Using Bragg Gratings. 2018 , 24, 1-8	365
559	Generation and Coherent Control of Pulsed Quantum Frequency Combs. 2018 ,	
558	Continuous-wave upconverting nanoparticle microlasers. 2018 , 13, 572-577	120
557	Graphene Oxide Waveguide and Micro-Ring Resonator Polarizers. 2019 , 13, 1900056	26
556	A CMOS-integrated quantum sensor based on nitrogen-vacancy centres. 2019 , 2, 284-289	44
555	On-chip Generation, Coherent Control and Processing of Complex Entangled Photon States. 2019 ,	
554	Thermorefractive noise in silicon-nitride microresonators. 2019 , 99,	34
553	Review on microresonator frequency combs. 2019 , 58, SJ0801	9
552	Octave-spanning tunable parametric oscillation in crystalline Kerr microresonators. <i>Nature Photonics</i> , 2019 , 13, 701-706	33.9 28
551	Quantum frequency conversion of a quantum dot single-photon source on a nanophotonic chip. 2019 , 6, 563	31
550	Micro-optical Components for Bioimaging on Tissues, Cells and Subcellular Structures. 2019 , 10,	6
549	Observation of Arnold Tongues in Coupled Soliton Kerr Frequency Combs. 2019 , 123, 153901	10
548	Ultra-Low-Power Tuning in Hybrid Barium Titanate-Silicon Nitride Electro-optic Devices on Silicon. 2019 , 6, 2677-2684	14
547	Research on characteristics of racetrack resonant sensor based on diamond. 2019 , 134, 106237	2

546	Ultra-low power all-optical wavelength conversion of high-speed data signals in high-confinement AlGaAs-on-insulator microresonators. 2019 , 4, 100804	11
545	. 2019 , 37, 6097-6104	16
544	Optimal ultra-miniature polarimeters in silicon photonic integrated circuits. 2019 , 4, 100806	8
543	Photonic Integrated Microwave Oscillator Based on Silicon Nitride Soliton Microcomb. 2019 ,	
542	. 2019 ,	
541	Generating frequency-bin qubits via spontaneous four-wave mixing in a photonic molecule. 2019 , 100,	2
540	Generation and Processing of Complex Photon States With Quantum Frequency Combs. 2019 , 31, 1862-1865	2
539	Programmable Silicon Photonic Optical Threshold. 2019 , 31, 1834-1837	10
538	A Spectrally Tunable Dielectric Subwavelength Grating based Broadband Planar Light Concentrator. 2019 , 9, 11723	2
537	Highly nonlinear BiOBr nanoflakes for hybrid integrated photonics. 2019 , 4, 090802	12
536	Microcomb-Based Photonic RF Signal Processing. 2019 , 31, 1854-1857	19
535	Measurements of electrically tunable refractive index of MoS2 monolayer and its usage in optical modulators. 2019 , 3,	29
534	Integrated microwave photonics. <i>Nature Photonics</i> , 2019 , 13, 80-90	33.9 334
533	Dispersion-engineered silicon nitride waveguides for mid-infrared supercontinuum generation covering the wavelength range 0.8-5 μ m. 2019 , 29, 025301	7
532	A High-Index Ge2Sb2Te5-Based FabryPerot Cavity and Its Application for Third-Harmonic Generation. 2019 , 13, 1900063	21
531	Dual-Layer Cross-Coupled Tunable Resonator System in a Three-Dimensional Si3N4 Photonic Integration Platform. 2019 , 37, 3298-3304	3
530	Process-dependent mechanical and optical properties of nanostructured silicon carbonitride thin films. 2019 , 30, 314003	5
529	Integrating temporal and spatial control of electronic transitions for bright multiphoton upconversion. 2019 , 10, 1811	55

528	Investigation of Hybrid Silicon-Nitride/Polymer Waveguides for Second-Harmonic Generation. 2019 , 11, 1-9	4
527	Waveguide-PAINT offers an open platform for large field-of-view super-resolution imaging. 2019 , 10, 1267	30
526	Third-order optical nonlinearity in silicon nitride films prepared using magnetron sputtering and application for optical bistability. 2019 , 125, 113102	9
525	An on-chip photon-pair source with negligible two photon absorption. 2019 , 12, 022006	5
524	On the observation of dispersion in tunable second-order nonlinearities of silicon-rich nitride thin films. 2019 , 4, 036101	3
523	Electrically tunable temporal imaging in a graphene-based waveguide. 2019 , 58, 050914	4
522	Tuning Kerr-Soliton Frequency Combs to Atomic Resonances. 2019 , 11,	22
521	Enhanced optical Kerr nonlinearity of graphene/Si hybrid waveguide. 2019 , 114, 071104	33
520	MoS2 photodetectors integrated with photonic circuits. 2019 , 3,	53
519	Cavity-enhanced harmonic generation in silicon rich nitride photonic crystal microresonators. 2019 , 114, 131103	8
518	Astrocombs for extreme-precision spectroscopy. 2019 , 3, 135-136	4
517	Influence of two-photon absorption and free-carrier effects on all-optical logic gates in silicon waveguides. 2019 , 12, 042005	1
516	Photonic-chip-based frequency combs. <i>Nature Photonics</i> , 2019 , 13, 158-169	33.9 303
515	Quantum optical microcombs. <i>Nature Photonics</i> , 2019 , 13, 170-179	33.9 115
514	High performance RF filters via bandwidth scaling with Kerr micro-combs. 2019 , 4, 026102	33
513	Enhanced Kerr Optical Nonlinearity of Waveguides Integrated with Graphene Oxide. 2019 ,	
512	Design and Simulation of Fiber to Chip Butt Coupler for SiN Integrated Photonics. 2019 ,	
511	Reconfigurable photonic RF filters based on integrated Kerr frequency comb sources. 2019 ,	0

510	A multi-layer platform for low-loss nonlinear silicon photonics. 2019 , 4, 110809	5
509	Reconfigurable fractional microwave signal processor based on a microcomb. 2019 ,	0
508	Enhanced Kerr Optical Nonlinearity of Waveguides Integrated with Graphene Oxide. 2019 ,	
507	Scalable Squeezed-Light Source for Continuous-Variable Quantum Sampling. 2019 , 12,	24
506	Tunable Quantum Beat of Single Photons Enabled by Nonlinear Nanophotonics. 2019 , 12,	6
505	Hollow Core Light Cage: Trapping Light Behind Bars. 2019 , 6, 649-658	23
504	Symmetry-breaking-induced nonlinear optics at a microcavity surface. <i>Nature Photonics</i> , 2019 , 13, 21-24 33.9	100
503	Complex Quantum State Generation and Coherent Control Based on Integrated Frequency Combs. 2019 , 37, 338-344	5
502	Comparison of plasma properties in normal and multiple holes hollow cathode RF PECVD and their utility in a-SiNx:H thin film deposition. 2019 , 160, 316-324	5
501	Advanced Adaptive Photonic RF Filters with 80 Taps Based on an Integrated Optical Micro-Comb Source. 2019 , 37, 1288-1295	29
500	Nonlinear integrated quantum electro-optic circuits. 2019 , 5, eaat1451	35
499	Effect of sodium addition and thermal annealing on second-order optical nonlinearity in thermally poled amorphous Ta2O5 thin films. 2019 , 125, 015104	3
498	A Versatile Silicon-Silicon Nitride Photonics Platform for Enhanced Functionalities and Applications. 2019 , 9, 255	37
497	High-dimensional one-way quantum processing implemented on d-level cluster states. 2019 , 15, 148-153	73
496	Integrating Graphene/MoS2 Heterostructure with SiNx Waveguide for Visible Light Detection at 532 nm Wavelength. 2019 , 13, 1800338	5
495	Temporal analog optical computing using an on-chip fully reconfigurable photonic signal processor. 2019 , 111, 66-74	8
494	. 2020 , 26, 1-13	21
493	Broadband Microwave Frequency Conversion Based on an Integrated Optical Micro-Comb Source. 2020 , 38, 332-338	21

492	Phase-Coded Microwave Signal Generation Based on a Segmented Silicon Mach-Zehnder Modulator. 2020 , 26, 1-8	6
491	Optical processing and manipulation of wavelength division multiplexed signals. 2020 , 233-299	0
490	Observation of Stimulated Brillouin Scattering in Silicon Nitride Integrated Waveguides. 2020 , 124, 013902	33
489	Photonic RF Phase-Encoded Signal Generation With a Microcomb Source. 2020 , 38, 1722-1727	12
488	Coupling Si ₃ N ₄ waveguide to SOI waveguide using transformation optics. 2020 , 460, 125089	12
487	Silicon Integrated Nanophotonic Devices for On-Chip Multi-Mode Interconnects. 2020 , 10, 6365	20
486	Enhanced Four-Wave Mixing in Silicon Nitride Waveguides Integrated with 2D Layered Graphene Oxide Films. 2020 , 8, 2001048	20
485	Broadband quadrature-squeezed vacuum and nonclassical photon number correlations from a nanophotonic device. 2020 , 6,	30
484	Progress in metasurfaces based on GeSbTe phase-change materials. 2020 , 128, 140904	9
483	Theoretical investigation of nano-photonic graphene-based waveguide. 2020 , 34, 2050350	
482	Monolithic piezoelectric control of soliton microcombs. 2020 , 583, 385-390	40
481	Kerr nonlinearity induced four-wave mixing of CMOS-compatible PECVD deposited ultra-Si-rich-nitride. 2020 , 128, 013102	3
480	Design of Partially Suspended Silicon Nitride Slot Waveguides for Efficient Forward Stimulated Brillouin Scattering. 2020 , 12, 1-11	0
479	First-order hyperpolarizability of organic molecules: hyper-Rayleigh scattering and applications. 2020 , 275-314	
478	Induced Photon Correlations Through the Overlap of Two Four-Wave Mixing Processes in Integrated Cavities. 2020 , 14, 2000128	3
477	Characterization and Optimal Design of Silicon-Rich Nitride Nonlinear Waveguides for 2 μ m Wavelength Band. 2020 , 10, 8087	0
476	Integrated Silicon-on-Insulator Optical Comb Demultiplexer for Elastic Optical Networks. 2020 , 32, 867-870	3
475	Photonic Perceptron Based on a Kerr Microcomb for High-Speed, Scalable, Optical Neural Networks. 2020 , 14, 2000070	22

474	Photonic RF Arbitrary Waveform Generator Based on a Soliton Crystal Micro-Comb Source. 2020 , 38, 6221-6226	7
473	Photonic RF and Microwave Integrator Based on a Transversal Filter With Soliton Crystal Microcombs. 2020 , 67, 3582-3586	5
472	Monolithic piezoelectric control of soliton microcombs. 2020 ,	1
471	Review of Recent Progress on Silicon Nitride-Based Photonic Integrated Circuits. 2020 , 8, 195436-195446	8
470	Backward-Emitting Silicon Nitride Optical Phased Array Enabling Efficient Wavelength-Tuned Beam Steering. 2020 , 12, 1-10	5
469	Entropic thermodynamics of nonlinear photonic chain networks. 2020 , 3,	2
468	Compact and Broadband Edge Coupler Based on Multi-Stage Silicon Nitride Tapers. 2020 , 12, 1-11	3
467	Q-factor Enhancement in Slow-Light Nanobeam Cavities on a Silicon Nitride Platform. 2020 ,	
466	Microstructure and domain engineering of lithium niobate crystal films for integrated photonic applications. 2020 , 9, 197	25
465	Miniature Optical Correlator in a Single-Nanowire Sagnac Loop. 2020 , 7, 3264-3269	2
464	Near-Degenerate Quadrature-Squeezed Vacuum Generation on a Silicon-Nitride Chip. 2020 , 124, 193601	34
463	High-Q nanobeam cavities on a silicon nitride platform enabled by slow light. 2020 , 5, 066101	2
462	Broadband Photonic RF Channelizer With 92 Channels Based on a Soliton Crystal Microcomb. 2020 , 38, 5116-5121	9
461	Thermal decoherence and laser cooling of Kerr microresonator solitons. <i>Nature Photonics</i> , 2020 , 14, 480-485	13
460	Studies on the solvatochromic effect and NLO response in new symmetric bimetallic Rhenium compounds. 2020 , 187, 114679	3
459	Silicon Photonic Platform for Passive Waveguide Devices: Materials, Fabrication, and Applications. 2020 , 5, 1901153	37
458	Quantum hydrodynamics of a single particle. 2020 , 9, 85	3
457	Integrated turnkey soliton microcombs. 2020 , 582, 365-369	111

456	Hybrid integrated photonics using bulk acoustic resonators. 2020 , 11, 3073	29
455	Optical multi-stability in a nonlinear high-order microring resonator filter. 2020 , 5, 056106	7
454	Inverse Design of Photonic Crystals through Automatic Differentiation. 2020 , 7, 1729-1741	36
453	Broadband generation of photon-pairs from a CMOS compatible device. 2020 , 116, 224001	3
452	Supercontinuum Generation in Media with Sign-Alternated Dispersion. 2020 , 14, 2000031	6
451	On-chip single-mode CdS nanowire laser. 2020 , 9, 42	26
450	Electric Field-Induced Linear Electro-Optic Effect Observed in Silicon-Organic Hybrid Ring Resonator. 2020 , 32, 526-529	2
449	2D Layered Graphene Oxide Films Integrated with Micro-Ring Resonators for Enhanced Nonlinear Optics. 2020 , 16, e1906563	33
448	Broadband Spectrometer with Single-Photon Sensitivity Exploiting Tailored Disorder. 2020 , 20, 2625-2631	17
447	Optical frequency comb generation with low temperature reactive sputtered silicon nitride waveguides. 2020 , 5, 011302	4
446	Probing the Strong Near-IR Two-Photon Transition in Supramolecular Triphenylamine-based Polymers by Nonlinear Absorption Spectroscopy. 2020 , 124, 6147-6153	1
445	Enhanced Kerr Nonlinearity and Nonlinear Figure of Merit in Silicon Nanowires Integrated with 2D Graphene Oxide Films. 2020 , 12, 33094-33103	25
444	Large Third-Order Optical Kerr Nonlinearity in Nanometer-Thick PdSe ₂ 2D Dichalcogenide Films: Implications for Nonlinear Photonic Devices. 2020 , 3, 6876-6883	17
443	Tunable wavelength conversion based on a nanoscale slot waveguide in communication bands. 2020 , 34, 2050260	0
442	Advances in high-dimensional quantum entanglement. 2020 , 2, 365-381	65
441	Generating Octave-Bandwidth Soliton Frequency Combs with Compact Low-Power Semiconductor Lasers. 2020 , 14,	7
440	Continuous delay tunability using a combination of three types of fiber Bragg gratings, wavelength conversion, and wavelength multicasting with a frequency comb. 2020 , 464, 125431	0
439	Hybrid photonics beyond silicon. 2020 , 5, 020402	5

438	Enhanced Nonlinearity and Engineered Anomalous Dispersion in TeO ₂ -coated Si ₃ N ₄ Waveguides. 2020 , 12, 1-10		3
437	Photonic integration for UV to IR applications. 2020 , 5, 020903		31
436	Logic Gates Based on Interaction of Counterpropagating Light in Microresonators. 2020 , 38, 1414-1419		6
435	Photonic RF and microwave filters based on 49 GHz and 200 GHz Kerr microcombs. 2020 , 465, 125563		8
434	RF and Microwave Fractional Differentiator Based on Photonics. 2020 , 67, 2767-2771		10
433	Double-Layer Cross-Coupled Silicon Nitride Multi-Ring Resonator Systems. 2020 , 32, 227-230		3
432	Waveguide-Integrated Broadband Spectrometer Based on Tailored Disorder. 2020 , 8, 1901602		19
431	Controlled-Phase Gate Using Dynamically Coupled Cavities and Optical Nonlinearities. 2020 , 124, 160501		18
430	Photonic microwave generation in the X- and K-band using integrated soliton microcombs. <i>Nature Photonics</i> , 2020 , 14, 486-491	33.9	94
429	Accurate Calibration and Measurement of Optoelectronic Devices. 2021 , 39, 3687-3698		4
428	Graphene Oxide for Integrated Photonics and Flat Optics. 2021 , 33, e2006415		24
427	RF and microwave photonic temporal signal processing with Kerr micro-combs. 2021 , 6, 1838946		3
426	Lithium Niobate Fabry-Perot microcavity based on strip loaded waveguides. 2021 , 43, 100886		2
425	Efficient photoinduced second-harmonic generation in silicon nitride photonics. <i>Nature Photonics</i> , 2021 , 15, 131-136	33.9	33
424	Recent Progress on Optical Regeneration of Wavelength-Division-Multiplexed Data. 2021 , 27, 1-12		2
423	Photonic Perceptron at Gigabit/s Speeds with Kerr Microcombs.		
422	Dynamics of soliton self-injection locking in optical microresonators. 2021 , 12, 235		19
421	High-yield, wafer-scale fabrication of ultralow-loss, dispersion-engineered silicon nitride photonic circuits. 2021 ,		3

420	Frequency comb distillation for optical superchannel transmission. 2021 , 1-1	1
419	Proposal for noise-free visible-telecom quantum frequency conversion through third-order sum and difference frequency generation. 2021 , 46, 222-225	3
418	Dark-Pulse Dynamics and Directional Switching in Photonic-Crystal Ring Resonators. 2021 ,	0
417	Parallel convolutional processing using an integrated photonic tensor core. 2021 , 589, 52-58	177
416	MEMS-SOA Spectrum-Sliced Auto-Equalized Source Enabling Uniformly Tunable Microwave Photonic Filter. 2021 , 33, 15-18	2
415	Highly versatile broadband RF photonic fractional Hilbert transformer based on a Kerr soliton crystal microcombs. 2021 , 1-1	1
414	Multipartite d-level photon cluster states and practical entanglement detection through witness operators. 2021 ,	
413	Colorimetric metasurfaces shed light on fibrous biological tissue. 2021 , 9, 11619-11639	0
412	Ultra-High Bandwidth Radio Frequency and Microwave Photonic Signal Processing Based on Kerr Micro-Combs.	
411	Enhanced Kerr nonlinear performance in graphene oxide-coated silicon and silicon nitride waveguides. 2021 ,	
410	Design and Optimization of Four-Wave Mixing in Microring Resonators Integrated With 2D Graphene Oxide Films. 2021 , 1-1	6
409	. 2021 , 68, 29-36	4
408	Integration of silicon nitride waveguide in Ge-on-insulator substrates for monolithic solutions in optoelectronics. 2021 , 32, 6133-6140	1
407	Frequency correlated photon generation at telecom band using silicon nitride ring cavities. 2021 , 29, 4821-4829	1
406	Hybrid InP and SiN integration of an octave-spanning frequency comb. 2021 , 6, 026102	6
405	Group-velocity-dispersion engineering of tantalum integrated photonics. 2021 , 46, 817-820	5
404	Monolithic integration of microlenses on the backside of a silicon photonics chip for expanded beam coupling. 2021 , 29, 7601-7615	2
403	Chip-based optical frequency combs for high-capacity optical communications. 2021 , 10, 1367-1385	18

402	Integrated photon-pair sources with nonlinear optics. 2021 , 8, 011314	9
401	Topological effects in integrated photonic waveguide structures [Invited]. 2021 , 11, 1014	5
400	Advanced Multi-Functional Integrated Photonic Filters Based on Coupled Sagnac Loop Reflectors. 2021 , 39, 1400-1408	7
399	Graphene Multilayer Photonic Metamaterials: Fundamentals and Applications. 2021 , 6, 2000963	7
398	Low-Loss Integrated Nanophotonic Circuits with Layered Semiconductor Materials. 2021 , 21, 2709-2718	10
397	Difference-frequency generation in optically poled silicon nitride waveguides. 2021 ,	2
396	Frequency microcomb stabilization via dual-microwave control. 2021 , 4,	3
395	Four-wave mixing in silicon-nanocrystal embedded high-index doped silica micro-ring resonator. 2021 , 42, 042302	
394	High-yield, wafer-scale fabrication of ultralow-loss, dispersion-engineered silicon nitride photonic circuits. 2021 , 12, 2236	38
393	Orthogonally polarized RF optical single sideband generation with integrated ring resonators. 2021 , 42, 041305	2
392	Microcombs for ultrahigh bandwidth optical data transmission and neural networks. 2021 ,	0
391	Photonic radio frequency channelizers based on Kerr optical micro-combs. 2021 , 42, 041302	2
390	Static Hybrid Quantum Nodes: Toward Perfect State Transfer on a Photonic Chip. 2021 , 15,	1
389	Synthesized soliton crystals. 2021 , 12, 3179	15
388	Tantala Kerr nonlinear integrated photonics. 2021 , 8, 811	11
387	Analysis of Four-Wave Mixing in Silicon Nitride Waveguides Integrated With 2D Layered Graphene Oxide Films. 2021 , 39, 2902-2910	8
386	Dispersion Optimization of Silicon Nitride Waveguides for Efficient Four-Wave Mixing. 2021 , 8, 161	2
385	Integrated Neuromorphic Photonics: Synapses, Neurons, and Neural Networks. 2021 , 2, 2000212	7

384	Hybridization of circular and rectangular transverse profiles of nanophotonic modes for nonlinear optics. 2021 , 46, 2682-2685	
383	Integrated photonics on thin-film lithium niobate. 2021 , 13, 242	112
382	Slot Waveguides With Silicon-Rich Materials for Nonlinear Applications. 2021 , 13, 1-9	0
381	Ultra-low-power four-wave mixing wavelength conversion in high-Q chalcogenide microring resonators. 2021 , 46, 2912-2915	2
380	High-yield, wafer-scale fabrication of ultralow-loss, dispersion-engineered silicon nitride photonic circuits. 2021 ,	
379	Ultrafast-nonlinear ultraviolet pulse modulation in an AlInGaN polariton waveguide operating up to room temperature. 2021 , 12, 3504	3
378	Highlighting photonics: looking into the next decade. 2021 , 1,	55
377	Ultra-compact titanium dioxide micro-ring resonators with sub-10- μm radius for on-chip photonics. 2021 , 9, 1416	3
376	Laser soliton microcombs heterogeneously integrated on silicon. 2021 , 373, 99-103	37
375	Post-fabrication resonance trimming of Si ₃ N ₄ photonic circuits via localized thermal annealing of a sputter-deposited SiO ₂ cladding. 2021 , 11, 2401	1
374	Optimizing the Kerr Nonlinear Optical Performance of Silicon Waveguides Integrated With 2D Graphene Oxide Films. 2021 , 39, 4671-4683	7
373	Silicon-nitride microring resonators for nonlinear optical and biosensing applications. 2021 , 60, G132-G138	
372	Topological Silicon Photonics. 2021 , 2, 2100010	2
371	Low-Loss Photonic Integrated Elements Based on Bound Bloch Surface Wave in the Continuum. 2021 , 16,	2
370	Low-noise Kerr frequency comb generation with low temperature deuterated silicon nitride waveguides. 2021 , 29, 29557-29566	3
369	Ultralow-Loss Etchless Lithium Niobate Integrated Photonics at Near-Visible Wavelengths. 2021 , 9, 2100060	2
368	Pedestal waveguides based on GeO ₂ -Bi ₂ O ₃ , GeO ₂ -PbO, Ta ₂ O ₅ and SiO _x N _y cores as platforms for optical amplifiers and nonlinear optics applications: Review of recent advances. 2021 , 236, 118113	1
367	Universal micro-trench resonators for monolithic integration with silicon waveguides. 2021 , 11, 2753	2

366	Roadmap on integrated quantum photonics.	22
365	An optical parametric Bragg amplifier on a CMOS chip. 2021 ,	2
364	Thermal Behaviors and Optical Parametric Oscillation in 4H-Silicon Carbide Integrated Platforms. 2021 , 2, 2100068	7
363	Autonomous on-chip interferometry for reconfigurable optical waveform generation. 2021 , 8, 1268	0
362	Demonstration of on-chip gigahertz acousto-optic modulation at near-visible wavelengths. 2021 ,	0
361	Characteristics of Crack-Free Silicon Nitride Films Deposited by LPCVD for Photonic Applications. 1	0
360	Nonlinear nanophotonics based on surface plasmon polaritons. 2021 , 119, 130501	4
359	Applying sacrificial substrate technology to miniaturized precision optical thin-film coatings. 2021 ,	0
358	Lanthanide Upconverted Microlasing: Microlasing Spanning Full Visible Spectrum to Near-Infrared under Low Power, CW Pumping. 2021 , 17, e2103140	2
357	Millimeter-scale chip-based supercontinuum generation for optical coherence tomography. 2021 , 7, eabg8869 6	
356	Room-temperature 2 μ m luminescence from Tm doped silicon light emitting diodes and SOI substrates. 2021 , 31, 38-45	
355	11 TOPS photonic convolutional accelerator for optical neural networks. 2021 , 589, 44-51	117
354	X-Band Aom on Chip. 2021 ,	0
353	Nonlinear optics in ultra-silicon-rich nitride devices: recent developments and future outlook. 2021 , 6, 1905544	4
352	Materials and Structures for Nonlinear Photonics. 2015 , 1-33	1
351	Silicon Photonic Integrated Circuits. 2017 , 673-737	1
350	Ultrafast All-Optical Reversible Peres and Feynman-Double Logic Gates with Silicon Microring Resonators. 2014 , 21-36	3
349	Ultra-dense optical data transmission over standard fibre with a single chip source. 2020 , 11, 2568	67

348	Quantum computing with multidimensional continuous-variable cluster states in a scalable photonic platform. 2020 , 2,	17
347	Turing patterns in a fiber laser with a nested microresonator: Robust and controllable microcomb generation. 2020 , 2,	6
346	Recent advances in optoelectronic oscillators. 2020 , 2, 1	39
345	Wideband bright-soliton frequency-comb generation at optical telecommunication wavelength in a thin silicon nitride film. 2018 , 12, 1	1
344	SiNOI and AlGaAs-on-SOI nonlinear circuits for continuum generation in Si photonics. 2018 ,	2
343	Broadband photonic RF channelizer based on micro-combs. 2019 ,	1
342	A broadband chip-scale optical frequency synthesizer at 2.7×10^{-16} relative uncertainty. 2016 , 2, e1501489	43
341	Linear and nonlinear characterization of silicon/silicon-rich nitride hybrid waveguides. 2016 ,	1
340	Wafer-scale fabrication of ultralow-loss silicon nitride nonlinear photonic circuits. 2020 ,	1
339	Si-rich Si nitride waveguides for optical transmissions and toward wavelength conversion around 2 μ m. 2019 , 58, 5165-5169	3
338	Slot-slot waveguide with negative large and flat dispersion covering C+L+U waveband for on-chip photonic networks. 2019 , 58, 5728-5739	2
337	Emerging material systems for integrated optical Kerr frequency combs. 2020 , 12, 135	37
336	Integrated microwave photonic filters. 2020 , 12, 485	39
335	Monolithic piezoelectric control of integrated soliton microcombs. 2020 ,	1
334	Four-Wave Mixing in Silicon-Rich Nitride Waveguides. 2015 ,	5
333	Superchannel engineering of microcombs for optical communications. 2019 , 36, 2013	11
332	Ultralow Power, Broadband Continuous Wave Four Wave Mixing in Silicon Rich Nitride Waveguides. 2015 ,	1
331	Narrow-linewidth, tunable external cavity dual-band diode lasers through InP/GaAs-SiN hybrid integration. 2019 , 27, 2354-2362	17

330	Integrated CMOS-compatible Q-switched mode-locked lasers at 1900nm with an on-chip artificial saturable absorber. 2019 , 27, 3542-3556	26
329	A pulsedwidth measurement technology based on carbon-nanotube saturable absorber. 2019 , 27, 4188-4203	8
328	Chip-scale, full-Stokes polarimeter. 2019 , 27, 4867-4877	18
327	Low-loss TeO-coated SiN waveguides for application in photonic integrated circuits. 2019 , 27, 12529-12540	12
326	Chip-integrated metasurface for versatile and multi-wavelength control of light couplings with independent phase and arbitrary polarization. 2019 , 27, 16425-16439	16
325	High-rate photon pairs and sequential Time-Bin entanglement with SiN microring resonators. 2019 , 27, 19309-19318	18
324	Silicon/silicon-rich nitride hybrid-core waveguide for nonlinear optics. 2019 , 27, 23775-23784	6
323	Highly reconfigurable hybrid laser based on an integrated nonlinear waveguide. 2019 , 27, 25251-25264	3
322	Super-condenser enables label-free nanoscopy. 2019 , 27, 25280-25292	7
321	SiGe quantum well infrared photodetectors on strained-silicon-on-insulator. 2019 , 27, 32009-32018	5
320	High-Q SiN microresonators based on a subtractive processing for Kerr nonlinear optics. 2019 , 27, 35719-35727	33
319	Third-harmonic generation in CMOS-compatible highly doped silica micro-ring resonator. 2020 , 28, 641-651	5
318	Silicon nitride optical phased array based on a grating antenna enabling wavelength-tuned beam steering. 2020 , 28, 3270-3279	22
317	SiN photonic integration platform at 1 μm for optical interconnects. 2020 , 28, 13019-13031	3
316	Tantalum pentoxide nanophotonic circuits for integrated quantum technology. 2020 , 28, 11921-11932	9
315	Waveguide tapering for improved parametric amplification in integrated nonlinear SiN waveguides. 2020 , 28, 23467-23477	7
314	Photolithography allows high-Q AlN microresonators for near octave-spanning frequency comb and harmonic generation. 2020 , 28, 19270-19280	8
313	Hybrid integrated InP-SiN diode laser with a 40-Hz intrinsic linewidth. 2020 , 28, 21713-21728	30

312	Advanced dispersion engineering of a III-nitride micro-resonator for a blue frequency comb. 2020 , 28, 30542-30554	3
311	Supercontinuum generation in tantalum pentoxide waveguides for pump wavelengths in the 900 nm to 1500 nm spectral region. 2020 , 28, 32173-32184	6
310	Giant enhancement of harmonic generation in all-dielectric resonant waveguide gratings of quasi-bound states in the continuum. 2020 , 28, 34024-34034	12
309	AlGaAs-On-Insulator Nanowire with 750 nm FWM Bandwidth, -9 dB CW Conversion Efficiency, and Ultrafast Operation Enabling Record Tbaud Wavelength Conversion. 2015 ,	6
308	Silicon Photonics: silicon nitride versus silicon-on-insulator. 2016 ,	39
307	Nonlinear optical properties of ytterbium-doped tantalum pentoxide rib waveguides on silicon at telecom wavelengths. 2016 ,	1
306	Statistical mechanics of weakly nonlinear optical multimode gases. 2020 , 45, 1651-1654	9
305	On-chip high-efficiency wavelength multicasting of PAM3/PAM4 signals using low-loss AlGaAs-on-insulator nanowaveguides. 2020 , 45, 4539-4542	4
304	Highly efficient broadband silicon nitride polarization beam splitter incorporating serially cascaded asymmetric directional couplers. 2020 , 45, 5974-5977	9
303	Realizing topological edge states in a silicon nitride microring-based photonic integrated circuit. 2016 , 41, 4791-4794	11
302	High-confinement gallium nitride-on-sapphire waveguides for integrated nonlinear photonics. 2019 , 44, 1064-1067	14
301	Thermally stable access to microresonator solitons via slow pump modulation. 2019 , 44, 4447-4450	12
300	Visible blue-to-red 10 GHz frequency comb via on-chip triple-sum-frequency generation. 2019 , 44, 5290-5293	10
299	Bloch oscillations in photonic spectral lattices through phase-mismatched four-wave mixing. 2019 , 44, 5430-5433	10
298	Spectroscopy of thulium-doped tantalum pentoxide waveguides on silicon. 2020 , 10, 2201	4
297	On-chip optical parametric oscillation into the visible: generating red, orange, yellow, and green from a near-infrared pump. 2020 , 7,	8
296	Nanophotonic supercontinuum-based mid-infrared dual-comb spectroscopy. 2020 , 7, 1181	16
295	Permanent mitigation of loss in ultrathin silicon-on-insulator high-Q resonators using ultraviolet light. 2018 , 5, 1271	4

294	Milliwatt-threshold visible-telecom optical parametric oscillation using silicon nanophotonics. 2019 , 6,	21
293	On-chip unidirectional dual-band fiber-chip grating coupler in silicon nitride. 2018 , 1, 864	6
292	Broadband frequency conversion and Brella law in tapered waveguides. 2018 , 1, 1349	4
291	Four-wave mixing in high-Q tellurium-oxide-coated silicon nitride microring resonators.	4
290	Versatile on-chip light coupling and (de)multiplexing from arbitrary polarizations to controlled waveguide modes using an integrated dielectric metasurface. 2020 , 8, 564	34
289	Frequency comb swept laser with a high-Q microring filter. 2020 , 8, 904	7
288	Advances in on-chip photonic devices based on lithium niobate on insulator. 2020 , 8, 1910	62
287	Broadband quasi-phase-matching in dispersion-engineered all-optically poled silicon nitride waveguides. 2020 , 8, 1475	5
286	A universal frequency engineering tool for microcavity nonlinear optics: multiple selective mode splitting of whispering-gallery resonances. 2020 , 8,	6
285	Coupling strategies for silicon photonics integrated chips [Invited]. 2019 , 7, 201	144
284	CMOS-compatible high-index doped silica waveguide with an embedded silicon-nanocrystal strip for all-optical analog-to-digital conversion. 2019 , 7, 1200	10
283	Third-order nonlinear optical susceptibility of crystalline oxide yttria-stabilized zirconia. 2020 , 8, 110	10
282	Erbium-doped TeO ₂ -coated Si ₃ N ₄ waveguide amplifiers with 5 dB net gain. 2020 , 8, 127	21
281	Nonlinear nanophotonic devices in the ultraviolet to visible wavelength range. 2020 , 9, 3781-3804	9
280	Broadband dispersive free, large, and ultrafast nonlinear material platforms for photonics. 2020 , 9, 4609-4618	4
279	Polarization Beam Splitter Based on SiN/SiO Horizontal Slot Waveguides for On-Chip High-Power Applications. 2020 , 20,	3
278	Integral order photonic RF signal processors based on a soliton crystal micro-comb source.	0
277	Magnetic-free silicon nitride integrated optical isolator. <i>Nature Photonics</i> , 2021 , 15, 828-836	33.9 14

- 276 Nested non-concentric microring resonators with high-Q and large fabrication tolerance.
- 275 Fabrication tolerant design of silicon nitride Kerr comb generators. **2021,**
- 274 Ultrafast optical circuit switching for data centers using integrated soliton microcombs. **2021,** 12, 5867 5
- 273 Photoluminescence enhancement by deterministically site-controlled, vertically stacked SiGe quantum dots. **2021,** 11, 20597 1
- 272 Third order non-linear optical susceptibilities (β) of yttria stabilized cubic hafnium(IV) oxide. **2021,** 785, 139157
- 271 Spectral Coherence in Microresonator Combs. **2014,**
- 270 New CMOS Compatible Platforms for Integrated Nonlinear Optics. **2015,**
- 269 Multi-Correlated Two-Photon States within an Integrated Quantum Frequency Comb. **2015,**
- 268 Harnessing Nonlinear Optics for Microwave Signal Processing. **2015,** 449-467
- 267 Integrated bi-chromatically pumped optical parametric oscillator for orthogonally polarized photon pair generation. **2015,**
- 266 Single-longitudinal-mode lasing from a fiber cavity based on feedback from an on-chip microring resonator. **2015,**
- 265 Highly Efficient Four-Wave Mixing in an AlGaAs-On-Insulator (AlGaAsOI) Nano-Waveguide. **2015,**
- 264 Integrated Frequency Comb of Time-Bin Entangled Photon Pairs. **2015,**
- 263 Frequency Combs as Sources for Tbit/s Communications Systems. **2015,**
- 262 Stabilized on-chip optical frequency comb. **2015,**
- 261 Low-noise Gigahertz Frequency Comb from Diode-Pumped Solid-State Laser using Silicon Nitride Waveguides. **2015,**
- 260 Quadrature Hybrid RF Photonic Coupler Using an Integrated Frequency Comb Source. **2015,** 0
- 259 Octave-spanning Supercontinuum Generation in a Silicon-rich Nitride Waveguide. **2016,**

- 258 Nonlinear Loss Engineering in a Silicon-Chalcogenide Hybrid Optical Waveguide. **2016,**
- 257 Temporal Hilbert Transform Based on an Integrated Frequency Comb Source. **2016,**
- 256 Compact Low-Noise Frequency Combs: Microchip or Photonic Crystal Fiber?. **2016,**
- 255 Silicon photonics for entangled photons. **2016,**
- 254 Four-Wave Mixing in Porous Silicon Microring Resonators. **2016,**
- 253 Integrated Quantum Frequency Comb Source of Entangled Qubits. **2016,**
- 252 Optical Parametric Amplification in Ultra Silicon Rich Nitride Waveguides. **2016,**
- 251 Low-penalty up to 16-QAM wavelength conversion in a low loss CMOS compatible spiral waveguide. **2016,**
- 250 Wavelength Conversion of QPSK and 16-QAM Coherent Signals in a CMOS Compatible Spiral Waveguide. **2016,**
- 249 High-Extinction-Ratio Multi-Wavelength Optical Source Based on an On-Chip Nonlinear Micro-Ring Resonator. **2016,**
- 248 Thermally-Controlled Single-Soliton Modelocking in Silicon Nitride Microresonators. **2016,**
- 247 Stability of Modelocked Microresonator Frequency Combs. **2016,**
- 246 Phase-Sensitive Amplification with Net Gain in Low-Loss Integrated Waveguides. **2016,**
- 245 Nanosecond passively mode-locked laser with a hundred megahertz spectral bandwidth. **2016,**
- 244 Cross-Phase-Modulation-Based Wavelength Conversion in Low-Stress Silicon-Rich Nitride Waveguide. **2016,**
- 243 Entanglement generation with integrated optical frequency comb sources. **2017,**
- 242 Enhanced four-wave mixing efficiency in silicon-graphene oxide hybrid waveguides. **2017,**
- 241 Counter-Propagating Solitons in Microresonators. **2017,**

- 240 Silicon Chip-Based Quantum Random Number Generator. **2017**, o
- 239 On-chip Microwave Photonics. **2017**,
- 238 Connecting visible and telecommunications wavelengths with silicon nitride nanophotonics. **2017**,
- 237 Enhanced optical nonlinearities in ultra-silicon-rich photonic crystal waveguides. **2017**,
- 236 Bandgap engineering in nonlinear silicon nitride waveguides. **2017**,
- 235 An ultra-narrow spectral width passively mode-locked laser. **2017**,
- 234 Large Bandwidth Silicon Nitride Spot-Size Converter for Efficient Supercontinuum Coupling to Chalcogenide Waveguide. **2017**,
- 233 Microresonator-Based Quantum Random Number Generator. **2017**,
- 232 Self-stabilization of an optical frequency comb using a short-path-length interferometer. **2017**, 42, 1680-1683 1
- 231 Chapter 13: Integrated nonlinear photonics. **2017**, 275-304
- 230 Chapter 14: Integrated nanophotonics for multi-user quantum key distribution networks. **2017**, 305-344
- 229 Reconfigurable microwave photonic transversal filter based on an integrated Kerr comb. **2018**,
- 228 High-confinement high-Q silicon-rich silicon nitride nonlinear microresonators. **2018**,
- 227 Integrated Kerr optical frequency comb-based broadband RF channelizer. **2018**,
- 226 High Quality Factor Deuterated Silicon Nitride (SiN:D) Microring Resonators. **2018**, 1
- 225 Numerical Simulation Method of Kerr Comb in a Microcavity. **2018**, 46, 97
- 224 Integrated Kerr comb-based reconfigurable transversal differentiator for microwave photonic signal processing. **2018**,
- 223 Ultra-silicon-rich nitride based devices for high nonlinear figure of merit photonics applications. **2018**, o

- 222 Microwave and RF Photonic Applications of Integrated Kerr Micro-Combs. **2018,**
- 221 Chirped Photonic Crystal Kerr Cavities. **2018,**
- 220 Integrated Kerr micro-comb sources for photonic microwave applications. **2018,** 1
- 219 Waveguide integration silicon MSM photodetector in silicon nitride-on-SOI platform for visible and NIR wavelength band. **2018,** 1
- 218 Ultra-silicon-rich nitride devices for high nonlinear figure of merit optical signal processing. **2018,**
- 217 Compact broadband taper for low-loss coupling to a silicon nitride photonic wire. **2018,** 1
- 216 Development of Optical Frequency Comb Sources Using Optical Microcavities. **2018,** 84, 686-691
- 215 Microcomb-based photonic local oscillator for broadband microwave frequency conversion. **2019,** 0
- 214 Microcomb-based RF transversal filters. **2019,** 0
- 213 Glass in Integrated Photonics. **2019,** 1441-1481 1
- 212 Broadband Local Oscillator Free Photonic Microwave Mixer based on a Coherent Kerr Micro-Comb Source. **2019,** 0
- 211 Layered Graphene Oxide Films for Enhanced Nonlinear Optics in Integrated Waveguides. **2019,**
- 210 Efficient and Broadband Four-Wave Mixing in AlGaAs Microresonator for High-Speed Optical Signal Processing. **2019,** 0
- 209 Fabrication of High-Q, High-Confinement 4H-SiC Microring Resonators by Surface Roughness Reduction. **2019,**
- 208 Ultralow-power chip-based soliton microcombs for photonic integration. **2019,**
- 207 Orthogonally polarized optical single sideband generation based on integrated microring resonators. **2019,** 0
- 206 Microwave and Communications Applications of Microcombs. **2019,** 0
- 205 Chipscale soliton microcombs. **2019,**

204	Graphene oxide for enhanced nonlinear optics in integrated waveguides. 2019,	
203	Strong Two Photon Absorption in BiOBr Nanoflakes. 2019,	
202	Thermo-refractive noise in silicon nitride microresonators. 2019,	0
201	Integrated Si3N4 Soliton Microcomb Driven by a Compact Ultra-low-noise Laser. 2019,	
200	Enhanced four-wave mixing in hybrid integrated waveguides with graphene oxide. 2019,	
199	Numerical studies on Kerr comb generation in Si3N4 resonators with frequency dependent access coupler properties. 2019,	1
198	Reconfigurable microwave photonic transversal filter based on an integrated optical micro-comb source. 2019,	1
197	Optical frequency comb generation using annealing-free Si3N4 films for front-end monolithic integration with Si photonics. 2019,	
196	Technological advances on Si and Si3N4 low-loss waveguide platforms for nonlinear and quantum optics applications. 2019,	1
195	Enhancing Raman lasers with single molecule monolayers. 2019,	
194	High-performance microwave photonic true time delays based on an integrated optical micro-comb source. 2019,	0
193	Reconfigurable optical generation of nine Nyquist WDM channels with sinc-shaped temporal pulse trains using a single microresonator-based Kerr frequency comb. 2019, 44, 1852-1855	6
192	Phase-matched second-harmonic generation in coupled nonlinear optical waveguides. 2019, 36, 2650	0
191	Numerical study on Kerr frequency comb generation in Si3N4 microresonators with frequency-dependent access coupler properties. 2019, 36, 2896	
190	Enhanced amplified spontaneous emission from conjugated light-emitting polymer integrated with silicon nitride grating structures. 2019, 2, 2875	
189	Reconfigurable microwave signal processor for fractional and regular Hilbert transform based on a microcomb. 2019,	0
188	True time delays for phased array antennas based on a microcomb. 2019,	0
187	Photonic wideband RF mixer based on an integrated microcomb source. 2019,	0

- 186 Strong Kerr nonlinearity in BiOBr nanoflakes. **2019**,
- 185 Graphene oxide waveguide and micro-ring resonator polarizers. **2019**,
- 184 High Q RF transversal filter based on an 80-channel integrated microcomb source. **2019**, 0
- 183 Enhanced Kerr optical nonlinearity of integrated waveguides incorporating layered GO films. **2019**,
- 182 Dynamic bouncing mode cavity for integratable broadband light trapping and release. **2020**, 37, 345
- 181 Enhanced four-wave mixing in micro-ring resonators integrated with layered graphene oxide films. **2020**,
- 180 Strong third-order Kerr nonlinearity in 2D PdSe₂ dichalcogenide films. **2020**,
- 179 Multipartite d-Level Two-Photon Cluster States and Their Entanglement Detection Via Feasible Witness Operators. **2020**,
- 178 Monolithic piezoelectric control of integrated soliton microcombs. **2020**,
- 177 Slow-light Enhancement of the Purcell and Q factors in Silicon Nitride Nanobeam Cavities. **2020**,
- 176 Plasmonic electro-optic modulator based on degenerate semiconductor interfaces. **2020**, 9, 1105-1113 2
- 175 Sub-nanosecond-speed frequency-reconfigurable photonic radio frequency switch using a silicon modulator. **2020**, 8, 852 2
- 174 Advances in CMOS nonlinear optics: amplification, solitons, and optical waveform manipulation. **2020**,
- 173 Enhanced optical nonlinearity in a silicon-organic hybrid slot waveguide for all-optical signal processing. 1
- 172 Four-channel CWDM device on thin-film lithium niobate platform using an angled multimode interferometer structure. 3
- 171 Distinct Laser Dynamics from a Single Figure-Eight Laser with an Integrated Nonlinear Waveguide. **2020**,
- 170 Advances in Nonlinear CMOS Photonics. **2020**,
- 169 Fast and Slow Nonlinearities in Epsilon-Near-Zero Materials. **2021**, 15, 2000291 10


- 168 Enhanced Kerr nonlinear performance in graphene oxide coated silicon and SiN waveguides. **2021,**
- 167 On-chip generation and characterization of densely-spaced time-bin entangled qubits. **2021,**
- 166 Photonic RF fractional Hilbert transformers and filters based on integrated soliton crystal microcombs. **2020,** 0
- 165 Record-High Continuous-Wave Nonlinear Performance of Amorphous Silicon Waveguides. **2020,** 1
- 164 On-Chip Polarization Beam Splitter Using Coupled Si₃N₄/SiO₂ Horizontal Slot Waveguides. **2020,**
- 163 Generation and coherent manipulation of complex entangled photon states based on integrated quantum frequency combs. **2020,**
- 162 Kerr Micro-combs for Radio Frequency Photonics -INVITED. **2020,** 238, 01004
- 161 Enhanced FWM in SiN nanowires integrated with 2D graphene oxide films. **2020,**
- 160 Thickness tunable Kerr nonlinearity in BiOBr nanoflakes. **2020,**
- 159 Degenerate four-wave mixing in photonic crystal resonators. **2020,**
- 158 Heterogeneous Photodiodes on Silicon Nitride Waveguides with 20 GHz Bandwidth. **2020,**
- 157 Optical frequency comb generation by hybrid mode-locking in a nested cavity scheme. **2020,**
- 156 Integrated waveguide and micro-ring resonator polarizers with 2D layered graphene oxide films. **2020,**
- 155 Enhanced four-wave mixing in micro-ring resonators with integrated 2D layered graphene oxide films. **2020,**
- 154 Observation of stimulated Brillouin scattering in silicon nitride integrated waveguides. **2020,**
- 153 Induced Photon Correlations by the Superposition of Two Four-Wave Mixing Processes on a Photonic Chip. **2020,**
- 152 Optical frequency comb generation using low stress reactive sputtered silicon nitride waveguides. **2020,**
- 151 Optical frequency comb generation using low stress reactive sputtered silicon nitride waveguides. **2020,**

150	BiOBr nanoflakes with strong Kerr nonlinearity towards hybrid integrated photonic devices. 2020 ,	0
149	Optical data transmission with high spectral efficiency at 44Terabits/s with a soliton crystal micro-comb. 2021 ,	0
148	Highly Efficient Grating Coupler for Silicon Nitride Photonics with Large Fabrication Tolerance. 2021 ,	0
147	Microwave power induced resonance shifting of silicon ring modulators for continuously tunable, bandwidth scaled frequency combs. 2020 , 28, 13032-13042	1
146	Heterodyne interferometry applied to the characterization of nonlinear integrated waveguides. 2020 , 45, 5053-5056	0
145	Thermo-optic coefficient of PECVD silicon-rich silicon nitride. 2020 , 45, 6242-6245	1
144	On-chip time and frequency modes for the generation and processing of complex photon states. 2021 ,	
143	Hyperfine optical vector analysis of ultra- narrowband optical bandpass filters based on coherent two-tone sweeping and fixed low-frequency detection.	0
142	Optical multistability in a cross-coupled double-ring resonator system. 2021 , 507, 127637	1
141	Second Harmonic Generation in Germanium Quantum Wells for Nonlinear Silicon Photonics.	1
140	Robust, efficient, micrometre-scale phase modulators at visible wavelengths. <i>Nature Photonics</i> , 2021 , 15, 908-913	33.9 9
139	Kerr Frequency Comb Interaction with Raman, Brillouin, and Second Order Nonlinear Effects. 2022 , 16, 2100184	3
138	Scalable and effective multi-level entangled photon states: a promising tool to boost quantum technologies. 2021 , 10, 4447-4465	0
137	Metasurface doublet-integrated bidirectional grating antenna enabling enhanced wavelength-tuned beam steering.	4
136	Ultrafast saturable absorption of BiOI nanosheets prepared by chemical vapor transport. 2021 , 46, 6006-6009	0
135	RF and Microwave Equalizers and Orthogonally Polarized Single Sideband Generators with Kerr Microcombs.	
134	All-optical radio frequency spectrum analyzer based on cross-phase modulation in a silicon-rich nitride waveguide. 2016 ,	
133	General purpose signal processor on an optical chip. 2016 ,	

- 132 All-optical Sampling for Adaptive On-Chip Picosecond Pulse-Shaping. **2021**,
- 131 Two-photon multi-partite d-level cluster states and witness operators for their practical entanglement detection. **2021**,
- 130 Picosecond Pulse Shaping via On-Chip Interferometry. **2021**,
- 129 Linear and nonlinear optical properties of AgNPs and AgNPs/graphene composites modulated by localized surface plasmon resonance effect. **2022**, 39, 713 1
- 128 Compact MZI modulators on thin film Z-cut lithium niobate.. **2022**, 30, 4543-4552 1
- 127 Fabrication Technologies for the On-Chip Integration of 2D Materials.. **2022**, e2101435 8
- 126 Optically reconfigurable quasi-phase-matching in silicon nitride microresonators. *Nature Photonics*, **2022**, 16, 134-141 33.9 14
- 125 Polarization selective ultra-broadband wavelength conversion in silicon nitride waveguides.. **2022**, 30, 4342-4350 2
- 124 Boosting the SiN nonlinear photonic platform with transition metal dichalcogenide monolayers.. **2022**, 47, 734-737
- 123 Silicon-integrated nonlinear III-V photonics. **2022**, 10, 535 3
- 122 Interlayer Slope Waveguide Coupler for Multilayer Chalcogenide Photonics. **2022**, 9, 94
- 121 A generic model for the study of supercontinuum generation in graphene-covered nanowires. **2022**, 4, 015001 2
- 120 Multiple coherent dispersive waves generation in silicon nitride slot waveguide. **2022**, 120, 071103
- 119 11 Tera-OPs/s photonic convolutional accelerator and deep optical neural network based on an integrated Kerr soliton crystal microcomb. **2022**, 0
- 118 Transparent conducting oxides: from all-dielectric plasmonics to a new paradigm in integrated photonics. 2
- 117 High-capacity and high-fidelity analog radio-over-fiber mobile fronthaul. **2022**, 1
- 116 Versatile, high bandwidth, RF and microwave photonic Hilbert transformers based on Kerr micro-combs. **2022**, 0
- 115 Enhanced photonics devices based on low temperature plasma-deposited dichlorosilane-based ultra-silicon-rich nitride (SiN).. **2022**, 12, 5267 2

114	Optimization of quantum light sources and four-wave mixing based on a reconfigurable silicon ring resonator.. 2022 , 30, 9992-10010	0
113	Telecom-compatible, on-chip generation and processing of complex photon states in time and frequency. 2022 ,	
112	Enhanced nonlinear optics in nanowires, waveguides, and ring resonators integrated with graphene oxide films. 2022 ,	
111	Compact, spatial-mode-interaction-free, ultralow-loss, nonlinear photonic integrated circuits. 2022 , 5,	6
110	Platicon microcomb generation using laser self-injection locking.. 2022 , 13, 1771	8
109	Hybrid-Mode-Family Kerr Optical Parametric Oscillation for Robust Coherent Light Generation on Chip. 2100582	1
108	On-Chip Infrared Photonics with Si-Ge-Heterostructures: what is next?.	2
107	Design of nonvolatile and efficient Polarization-Rotating optical switch with phase change material. 2022 , 151, 108065	0
106	High-Efficiency Second-Harmonic and Sum-Frequency Generation in a Silicon Nitride Microring Integrated with Few-Layer GaSe.	1
105	High-efficiency four-wave mixing in low-loss silicon photonic spiral waveguides beyond the singlemode regime.	1
104	Chip-integrated van der Waals PN heterojunction photodetector with low dark current and high responsivity.. 2022 , 11, 101	12
103	Silicon nitride passive and active photonic integrated circuits: trends and prospects.	6
102	Optical Neuromorphic Processor at 11 TeraOPs/s based on Kerr Soliton Crystal Micro-combs. 2022 ,	0
101	Highly-reflective facet-coated 16-wavelength DFB laser array with exact wavelength spacings. 2022 ,	0
100	Enhanced Spectral Broadening of Femtosecond Optical Pulses in Silicon Nanowires Integrated with 2D Graphene Oxide Films. 2022 , 13, 756	3
99	Complete photonic bandgap in silicon nitride slab assisted by effective index difference between polarizations. 2022 , 15, 1	0
98	Microwave photonics applications of stimulated Brillouin scattering. 2022 , 24, 063002	
97	Phase-matched second-harmonic generation in hybrid polymer-LN waveguides.	0

- 96 Optimising microring resonator based optical frequency comb distillation for optical communications systems. **2022**, 30, 17836
- 95 Enhanced self-phase modulation in silicon nitride waveguides integrated with 2D graphene oxide films. **2022**, 1-1 2
- 94 On-chip photonics and optoelectronics with van der Waals material dielectric platform.
- 93 High Bandwidth and Highly Reconfigurable Rf Microwave Photonic Hilbert Transformers Using Kerr Micro-Combs.
- 92 Tunable optical frequency comb with hundred-GHz spacings generated on a silicon waveguide.
- 91 High Refractive Index Chalcogenide Hybrid Inorganic/Organic Polymers for Integrated Photonics. 2200176 1
- 90 Optical parametric wideband frequency modulation. 0
- 89 Soliton-Induced Mid-Infrared Dispersive Wave in Horizontally-Slotted SiN₄ Waveguide. **2022**, 10, 62322-62329
- 88 A continuum of bright and dark-pulse states in a photonic-crystal resonator. **2022**, 13, 1
- 87 Microresonator frequency comb based high-speed transmission of intensity modulated direct detection data. **2022**, 11, 3269-3280 1
- 86 Dual chirped microcomb based parallel ranging at megapixel-line rates. **2022**, 13, 0
- 85 A photonic integrated circuit based erbium-doped amplifier. **2022**, 376, 1309-1313 7
- 84 User-friendly, reconfigurable all-optical signal processing with integrated photonics. **2022**,
- 83 Measurements and Modeling of Atomic-Scale Sidewall Roughness and Losses in Integrated Photonic Devices. 2102073 3
- 82 Ultra-low-energy programmable non-volatile silicon photonics based on phase-change materials with graphene heaters. 5
- 81 All-fibre heterogeneously-integrated frequency comb generation using silicon core fibre. **2022**, 13, 1
- 80 Racetrack resonator based integrated phase shifters on silicon nitride platform. **2022**, 125, 104276
- 79 Optical characterization of deuterated silicon-rich nitride waveguides. **2022**, 12, 2

- 78 UV photonic integrated circuits for far-field structured illumination autofluorescence microscopy. **2022**, 13, 3
- 77 Hybrid-Integrated Comb Source With 16 Wavelengths. **2022**, 1-7
- 76 Stimulated Brillouin scattering for microwave photonics. **2022**, 81-105
- 75  **2022**, 16, 296-304
- 74 Seven-channel all-optical reconfigurable canonical logic units multicasting at 40 Gb/s based on a nonlinearity-enhanced silicon waveguide. **2022**, 30, 32650 1
- 73 High-Q asymmetrically cladded silicon nitride 1D photonic crystals cavities and hybrid external cavity lasers for sensing in air and liquids. **2022**, 11, 4183-4196 0
- 72 Blue band nonlinear optics and photodarkening in silica microdevices. **2022**, 10, 2073 0
- 71 Silicon oxynitride platform for linear and nonlinear photonics at NIR wavelengths. **2022**, 12, 3551 1
- 70 Nonlinear spectral broadening of dual-carrier electro-optic frequency comb in graphene oxide cladded silicon-rich nitride hybrid waveguide.
- 69 Ultra-low Loss SiN Edge Coupler interfacing with Single Mode Fiber. 1
- 68 Ultra-low-power second-order nonlinear optics on a chip. **2022**, 13, 0
- 67 Silicon Nitride Waveguides with Intrinsic Single-Photon Emitters for Integrated Quantum Photonics. 1
- 66 Broadband EO-Comb Generation Based on Two-Stage Nonlinear System. **2022**, 14, 1-5 0
- 65 Review of Graphene Oxide (GO) 2D Thin Films for Nonlinear Integrated Photonics. 0
- 64 An optical parametric Bragg amplifier on a CMOS-chip. **2022**, 0
- 63 Single-Photon Emitters in SiN Integrated Quantum Photonics. **2022**, 0
- 62 Enhanced Spectral Broadening Through Self-phase Modulation of Femtosecond Optical Pulses in Silicon-on-Insulator Nanowires Integrated With Graphene Oxide Films. 0
- 61 Monolithic Integration of Quantum Emitters with Silicon Nitride Photonic Platform. **2022**, 0

60	Dissipative Solitons in Microresonators. 2022 , 249-272	0
59	Neuromorphic Computing Based on Wavelength-Division Multiplexing. 2023 , 29, 1-12	0
58	Emerging material platforms for integrated microcavity photonics. 2022 , 65,	7
57	Tuning of silicon nitride micro-cavities by controlled nanolayer deposition. 2022 , 12,	0
56	Enhanced supercontinuum generation in waveguides coated with graphene oxide films.	0
55	Guided-acoustic stimulated Brillouin scattering in silicon nitride photonic circuits. 2022 , 8,	3
54	CMOS-Compatible Silicon Etched U-Grooves With Groove-First Fabrication for Nanophotonic Applications. 2022 , 34, 1230-1233	0
53	Linear Electro-optic Effect in Silicon Nitride Waveguides Enabled by Electric-Field Poling. 2022 , 9, 3374-3383	1
52	Spectral engineering of integrated photonic filters using mode splitting in silicon nanowire integrated standing-wave resonators.	0
51	Fractional Optical Angular Momentum and Multi-Defect-Mediated Mode Renormalization and Orientation Control in Photonic Crystal Microring Resonators. 2022 , 129,	1
50	Compact polarization beam splitter based on subwavelength grating waveguide assisted directional coupler in ultra-thin silicon nitride platform. 2022 ,	0
49	Efficient Polarization-Insensitive O-Band Grating Couplers for Silicon Nitride. 2022 ,	0
48	Fabrication of tapered waveguides by i-line UV lithography for flexible coupling control.	1
47	Applications of Optical Microcombs.	0
46	Inhibition of parametric decay in heating microwave beams during fluctuations of the density profile in the edge island of Wendelstein 7-X.	1
45	Nonlinear coupling of linearly uncoupled resonators through a Mach-Zehnder interferometer. 2022 , 121, 201101	0
44	Optical, structural and composition properties of silicon nitride films deposited by reactive radio-frequency sputtering, low pressure and plasma-enhanced chemical vapor deposition. 2022 , 763, 139568	0
43	Recent Progress in On-Chip Erbium-Based Light Sources. 2022 , 12, 11712	0

42	Telecom-compatible, affordable and scalable quantum technologies. 2022,	0
41	A photonic integrated continuous-travelling-wave parametric amplifier. 2022, 612, 56-61	1
40	Band-Structure-Engineered Electronic-Photonic Nonlinear Activation Functions. 2022, 18,	0
39	Efficient chip-based optical parametric oscillators from 590 to 1150 nm. 2022, 7, 121301	0
38	Integrated passive nonlinear optical isolators.	1
37	Recent Progress of Supercontinuum Generation in Nanophotonic Waveguides. 2200205	1
36	Photo-induced cascaded harmonic and comb generation in silicon nitride microresonators. 2022, 8,	2
35	Soliton formation and spectral translation into visible on CMOS-compatible 4H-silicon-carbide-on-insulator platform. 2022, 11,	0
34	Engineered second-order nonlinearity in silicon nitride. 2023, 13, 237	0
33	Ultra-wideband integrated photonic devices on silicon platform: from visible to mid-IR. 2023,	0
32	Graphene Oxide for Nonlinear Integrated Photonics. 2200512	3
31	Microcomb-based integrated photonic processing unit. 2023, 14,	0
30	Optical embodiments of Rabi splitting based in photonic integrated waveguide-coupled resonators.	0
29	Graphene oxide for photonics, electronics and optoelectronics.	4
28	Rod and slit photonic crystal microrings for on-chip cavity quantum electrodynamics. 2023,	1
27	High-performance Kerr microresonator optical parametric oscillator on a silicon chip. 2023, 14,	1
26	Design of a coherent optical receiver on a silicon nitride platform for mode multiplexed systems. 2022,	0
25	Enhanced Supercontinuum Generation in Integrated Waveguides Incorporated with Graphene Oxide Films. 2201796	0

- 24 Third-Order Optical Nonlinearities of 2D Materials at Telecommunications Wavelengths. **2023**, 14, 307 ○
- 23 Compensation of Kerr-induced impairments in silicon nitride third-harmonic generators. **2023**, 31, 5229 ○
- 22 Advances in nonlinear photonic devices based on lithium niobate waveguides. ○
- 21 Wideband multimode optical parametric oscillation in a Kerr microresonator. **2023**, 31, 5475 ○
- 20 On-chip micro-ring resonator array spectrum detection system based on convex optimization algorithm. **2023**, ○
- 19 Programmable Silicon Nitride Photonic Integrated Circuits. **2023**, ○
- 18 Generation of Bessel beam lattices by a single metasurface for neuronal activity recording in zebrafish larva. ○
- 17 On-chip generation and telecom-compatible processing of complex photonic systems in time and frequency. **2022**, ○
- 16 Micro-ring resonator optimization for efficient integrated entangled photon sources. **2023**, ○
- 15 Low-loss fiber-to-chip edge coupler for silicon nitride integrated circuits. **2023**, 31, 10525 ○
- 14 Aluminum nitride photonic integrated circuits: from piezo-optomechanics to nonlinear optics. **2023**, 15, 236 ○
- 13 Foundry manufacturing of tight-confinement, dispersion-engineered, ultralow-loss silicon nitride photonic integrated circuits. **2023**, 11, 558 ○
- 12 Sagnac interference in integrated photonics. **2023**, 10, 011309 1
- 11 Scalability of Large-Scale Photonic Integrated Circuits. ○
- 10 On-chip ytterbium-doped lithium niobate waveguide amplifiers with high net internal gain. **2023**, 48, 1810 ○
- 9 Integrated photonics in quantum technologies. **2023**, 46, 71-103 ○
- 8 Recent advances in laser self-injection locking to high-Q microresonators. **2023**, 18, 1
- 7 Graphene oxide for enhanced self-phase modulation in silicon nitride waveguides. **2023**, ○

- 6 Observation of photon-photon thermodynamic processes under negative optical temperature conditions. **2023**, 379, 1019-1023 1
- 5 Optimizing the performance of microwave photonic signal processors based on Kerr microcombs. 0
- 4 High-power continuous-wave optical waveguiding in a silica micro/nanofibre. **2023**, 12, 0
- 3 Hybrid SiN Polymer Waveguide Ring Resonator Modulator. **2022**, 0
- 2 Defective Soliton Crystal Microcomb in Silicon Nitride Microresonator. **2022**, 0
- 1 Quantum frequency conversion and single-photon detection with lithium niobate nanophotonic chips. **2023**, 9, 0