

John Bowers

List of Publications by Year in Descending Order

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

950
papers

31,427
citations

85
h-index

145
g-index

1,270
ext. papers

39,061
ext. citations

4.3
avg, IF

7.48
L-index

#	Paper	IF	Citations
950	Crack propagation in low dislocation density quantum dot lasers epitaxially grown on Si. <i>APL Materials</i> , 2022 , 10, 011114	5.7	0
949	Compact Wavelength Selective Crossbar Switch with Cascaded First Order Micro-Ring Resonators. <i>Photonics</i> , 2022 , 9, 60	2.2	1
948	Silicon-integrated nonlinear III-V photonics. <i>Photonics Research</i> , 2022 , 10, 535	6	3
947	High-Efficiency Quantum Dot Lasers as Comb Sources for DWDM Applications. <i>Applied Sciences (Switzerland)</i> , 2022 , 12, 1836	2.6	0
946	Integrated optical frequency comb technologies. <i>Nature Photonics</i> , 2022 , 16, 95-108	33.9	25
945	High-Performance Silicon Photonics Using Heterogeneous Integration. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2022 , 28, 1-15	3.8	10
944	Carrier Recombination Properties of Low-Threshold 1.3 μm Quantum Dot Lasers on Silicon. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2022 , 28, 1-10	3.8	0
943	Origin of the Diffusion-Related Optical Degradation of 1.3 μm InAs QD-LDs Epitaxially Grown on Silicon Substrate. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2022 , 28, 1-9	3.8	0
942	Spectral dispersion of the linewidth enhancement factor and four wave mixing conversion efficiency of an InAs/GaAs multimode quantum dot laser. <i>Applied Physics Letters</i> , 2022 , 120, 081105	3.4	2
941	Multimode Physics in the Mode Locking of Semiconductor Quantum Dot Lasers. <i>Applied Sciences (Switzerland)</i> , 2022 , 12, 3504	2.6	1
940	Platicon microcomb generation using laser self-injection locking.. <i>Nature Communications</i> , 2022 , 13, 1771	7.4	8
939	Microcomb-driven silicon photonic systems.. <i>Nature</i> , 2022 , 605, 457-463	50.4	8
938	A Review of the Reliability of Integrated IR Laser Diodes for Silicon Photonics. <i>Electronics (Switzerland)</i> , 2021 , 10, 2734	2.6	1
937	High-performance lasers for fully integrated silicon nitride photonics. <i>Nature Communications</i> , 2021 , 12, 6650	17.4	11
936	Low power consumption silicon photonics datacenter interconnects enabled by a parallel architecture 2021 ,		1
935	. <i>Journal of Lightwave Technology</i> , 2021 , 1-1	4	3
934	Integrated Coherent Tunable Laser (ICTL) with 118 nm Tuning Range and sub-100 Hz Lorentzian Linewidth 2021 ,		2

933	Degradation mechanisms of 1.3 μm C-doped quantum dot lasers grown on native substrate. <i>Microelectronics Reliability</i> , 2021 , 114222	1.2	0
932	Ultrabright Entangled-Photon-Pair Generation from an AlGaAs-On-Insulator Microring Resonator. <i>PRX Quantum</i> , 2021 , 2,	6.1	14
931	Quantum dot lasers History and future prospects. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2021 , 39, 020802	2.9	7
930	Dynamic and nonlinear properties of epitaxial quantum-dot lasers on silicon operating under long- and short-cavity feedback conditions for photonic integrated circuits. <i>Physical Review A</i> , 2021 , 103,	2.6	7
929	Higher order mode supercontinuum generation in tantalum pentoxide (TaO) channel waveguide. <i>Scientific Reports</i> , 2021 , 11, 7978	4.9	0
928	Artificial Coherent States of Light by Multiphoton Interference in a Single-Photon Stream. <i>Physical Review Letters</i> , 2021 , 126, 143601	7.4	5
927	. <i>IEEE Nanotechnology Magazine</i> , 2021 , 15, 8-22	1.7	3
926	Chromosome number is key to longevity of polyploid lineages. <i>New Phytologist</i> , 2021 , 231, 19-28	9.8	2
925	Integrated photonic high extinction short and long pass filters based on lateral leakage. <i>Optics Express</i> , 2021 , 29, 18905-18914	3.3	1
924	CMOS-foundry-based blue and violet photonics. <i>Optica</i> , 2021 , 8, 755	8.6	8
923	Perspective on the future of silicon photonics and electronics. <i>Applied Physics Letters</i> , 2021 , 118, 220501	3.4	51
922	Towards integrated photonic interposers for processing octave-spanning microresonator frequency combs. <i>Light: Science and Applications</i> , 2021 , 10, 109	16.7	2
921	High-temperature reliable quantum-dot lasers on Si with misfit and threading dislocation filters. <i>Optica</i> , 2021 , 8, 749	8.6	16
920	Identification of dislocation-related and point-defects in III-As layers for silicon photonics applications. <i>Journal Physics D: Applied Physics</i> , 2021 , 54, 285101	3	2
919	Reduced dislocation growth leads to long lifetime InAs quantum dot lasers on silicon at high temperatures. <i>Applied Physics Letters</i> , 2021 , 118, 192101	3.4	3
918	High Speed Evanescent Quantum-Dot Lasers on Si. <i>Laser and Photonics Reviews</i> , 2021 , 15, 2100057	8.3	8
917	Seamless multi-reticle photonics. <i>Optics Letters</i> , 2021 , 46, 2984-2987	3	2
916	Quantum Hall effect of the topological insulator state of cadmium arsenide in Corbino geometry. <i>Applied Physics Letters</i> , 2021 , 118, 261901	3.4	0

915	Laser soliton microcombs heterogeneously integrated on silicon. <i>Science</i> , 2021 , 373, 99-103	33.3	37
914	Dynamic performance and reflection sensitivity of quantum dot distributed feedback lasers with large optical mismatch. <i>Photonics Research</i> , 2021 , 9, 1550	6	3
913	Second Order Nonlinear Photonic Integrated Platforms for Optical Signal Processing. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2021 , 27, 1-11	3.8	7
912	. <i>IEEE Journal of Quantum Electronics</i> , 2021 , 57, 1-8	2	3
911	A Pathway to Thin GaAs Virtual Substrate on On-Axis Si (001) with Ultralow Threading Dislocation Density. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2021 , 218, 2000402	1.6	21
910	Efficient second harmonic generation in lithium niobate on insulator waveguides and its pitfalls. <i>JPhys Photonics</i> , 2021 , 3, 012008	2.5	4
909	Scalable multicast hybrid broadband-crossbar wavelength selective switch: proposal and analysis. <i>Optics Letters</i> , 2021 , 46, 448-451	3	3
908	Reliability of lasers on silicon substrates for silicon photonics 2021 , 239-271		3
907	Mode-locked dark-pulse Kerr combs in normal-dispersion AlGaAs-on-insulator microresonators 2021 ,		1
906	Recent Progress in Heterogeneous III-V-on-Silicon Photonic Integration. <i>Light Advanced Manufacturing</i> , 2021 , 2, 1-25	1	32
905	Design of an on-chip electrically driven, position-adapted, fully integrated erbium-based waveguide amplifier for silicon photonics. <i>OSA Continuum</i> , 2021 , 4, 790	1.4	2
904	Hertz-linewidth semiconductor lasers using CMOS-ready ultra-high-Q microresonators. <i>Nature Photonics</i> , 2021 , 15, 346-353	33.9	69
903	Hybrid InP and SiN integration of an octave-spanning frequency comb. <i>APL Photonics</i> , 2021 , 6, 026102	5.2	6
902	Advances in heteroepitaxial integration of III-V and IV-VI semiconductors with electron channeling contrast imaging. <i>Microscopy and Microanalysis</i> , 2021 , 27, 908-910	0.5	
901	Perspectives on Advances in Quantum Dot Lasers and Integration with Si Photonic Integrated Circuits. <i>ACS Photonics</i> , 2021 , 8, 2555-2566	6.3	7
900	Kinetically limited misfit dislocations formed during post-growth cooling in III-V lasers on silicon. <i>Journal Physics D: Applied Physics</i> , 2021 , 54, 494001	3	1
899	Low noise, tunable silicon photonic lasers. <i>Applied Physics Reviews</i> , 2021 , 8, 031306	17.3	6
898	Reaching fiber-laser coherence in integrated photonics. <i>Optics Letters</i> , 2021 , 46, 5201-5204	3	10

897	A Scalable Multicast Hybrid Broadband Crossbar Wavelength Selective Switch For Datacenters 2021,		1
896	Extended polarized semiclassical model for quantum-dot cavity QED and its application to single-photon sources. <i>Physical Review A</i> , 2020 , 101,	2.6	1
895	Dissipative Kerr Solitons in a III-V Microresonator. <i>Laser and Photonics Reviews</i> , 2020 , 14, 2000022	8.3	27
894	Integrated turnkey soliton microcombs. <i>Nature</i> , 2020 , 582, 365-369	50.4	111
893	1.3 μm Quantum Dot-Distributed Feedback Lasers Directly Grown on (001) Si. <i>Laser and Photonics Reviews</i> , 2020 , 14, 2000037	8.3	12
892	Ultra-efficient frequency comb generation in AlGaAs-on-insulator microresonators. <i>Nature Communications</i> , 2020 , 11, 1331	17.4	77
891	Directly Modulated Single-Mode Tunable Quantum Dot Lasers at 1.3 μm . <i>Laser and Photonics Reviews</i> , 2020 , 14, 1900348	8.3	13
890	On quantum-dot lasing at gain peak with linewidth enhancement factor $\beta = 0$. <i>APL Photonics</i> , 2020 , 5, 026101	5.2	16
889	Inverse-Designed Photonics for Semiconductor Foundries. <i>ACS Photonics</i> , 2020 , 7, 569-575	6.3	27
888	Low Dark Current 1.55 Micrometer InAs Quantum Dash Waveguide Photodiodes. <i>ACS Nano</i> , 2020 , 14, 3519-3527	16.7	8
887	Low Voltage, High Optical Power Handling Capable, Bulk Compound Semiconductor Electro-Optic Modulators at 1550 nm. <i>Journal of Lightwave Technology</i> , 2020 , 38, 2308-2314	4	5
886	Low Threshold Quantum Dot Lasers Directly Grown on Unpatterned Quasi-Nominal (001) Si. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2020 , 26, 1-9	3.8	12
885	Thermoelectric properties of holey silicon at elevated temperatures. <i>Materials Today Physics</i> , 2020 , 14, 100224	8	5
884	. <i>Journal of Lightwave Technology</i> , 2020 , 38, 3376-3386	4	11
883	Experiments on Multiwavelength Selective Crossbar Switches 2020,		1
882	Quantum dot lasers based photonics integrated circuits 2020,		2
881	Optical self-injection stabilization of a passively mode-locked quantum dot on silicon laser 2020,		2
880	Integrated turnkey soliton microcombs operated at CMOS frequencies 2020,		1

879	Laser Self-Injection Locked Frequency Combs in a Normal GVD Integrated Microresonator 2020 ,		1
878	Semiconductor laser integration for octave-span Kerr-soliton frequency combs 2020 ,		1
877	Ultra-Narrow Linewidth Chip-Scale Heterogeneously Integrated Silicon/III-V Tunable Laser Pumped Si/Si ₃ N ₄ SBS Laser 2020 ,		2
876	PINE: Photonic Integrated Networked Energy efficient datacenters (ENLITENED Program) [Invited]. <i>Journal of Optical Communications and Networking</i> , 2020 , 12, 443	4.1	6
875	Chip-based soliton microcomb module using a hybrid semiconductor laser. <i>Optics Express</i> , 2020 , 28, 2714-2721	3.3	11
874	Multimode description of self-mode locking in a single-section quantum-dot laser. <i>Optics Express</i> , 2020 , 28, 5317-5330	3.3	17
873	Efficient second harmonic generation in nanophotonic GaAs-on-insulator waveguides. <i>Optics Express</i> , 2020 , 28, 9521-9532	3.3	22
872	Effects of nonlinear loss in high-Q Si ring resonators for narrow-linewidth III-V/Si heterogeneously integrated tunable lasers. <i>Optics Express</i> , 2020 , 28, 19926-19936	3.3	15
871	Dependence of carrier escape lifetimes on quantum barrier thickness in InGaN/GaN multiple quantum well photodetectors. <i>Optics Express</i> , 2020 , 28, 23796-23805	3.3	4
870	Ultrahigh-Q AlGaAs-on-insulator microresonators for integrated nonlinear photonics. <i>Optics Express</i> , 2020 , 28, 32894-32906	3.3	14
869	Chip-Scale, Optical-Frequency-Stabilized PLL for DSP-Free, Low-Power Coherent QAM in the DCI 2020 ,		5
868	High Efficiency, High Gain and High Saturation Output Power Quantum Dot SOAs Grown on Si and applications 2020 ,		7
867	Ultra-broadband and Low-loss Polarization Beam Splitter on Silicon 2020 ,		2
866	Integrated Green DWDM Photonics For Next-Gen High-Performance Computing 2020 ,		6
865	Terabit Transmitters Using Heterogeneous III-V/Si Photonic Integrated Circuits 2020 ,		1
864	Ultra-broadband polarization beam splitter with silicon subwavelength-grating waveguides. <i>Optics Letters</i> , 2020 , 45, 2259-2262	3	27
863	40 Gbit/s waveguide photodiode using III-V on silicon heteroepitaxy. <i>Optics Letters</i> , 2020 , 45, 2954-2956		6
862	Deuterated silicon dioxide for heterogeneous integration of ultra-low-loss waveguides. <i>Optics Letters</i> , 2020 , 45, 3340-3343	3	12

861	Effect of p-doping on the intensity noise of epitaxial quantum dot lasers on silicon. <i>Optics Letters</i> , 2020 , 45, 4887-4890	3	8
860	On-chip high-efficiency wavelength multicasting of PAM3/PAM4 signals using low-loss AlGaAs-on-insulator nanowaveguides. <i>Optics Letters</i> , 2020 , 45, 4539-4542	3	4
859	Ultra-precise optical-frequency stabilization with heterogeneous III-V/Si lasers. <i>Optics Letters</i> , 2020 , 45, 5275-5278	3	8
858	2-Bit switch. <i>Optics Letters</i> , 2020 , 45, 5340-5343	3	6
857	Narrow-linewidth III-V/Si/Si ₃ N ₄ laser using multilayer heterogeneous integration. <i>Optica</i> , 2020 , 7, 20	8.6	64
856	Widely tunable, heterogeneously integrated quantum-dot O-band lasers on silicon. <i>Photonics Research</i> , 2020 , 8, 1551	6	16
855	Integrated dispersion compensated mode-locked quantum dot laser. <i>Photonics Research</i> , 2020 , 8, 1428	6	8
854	Physics and applications of quantum dot lasers for silicon photonics. <i>Nanophotonics</i> , 2020 , 9, 1271-1286	6.3	17
853	Widely Tunable, Narrow Linewidth Quantum Dot Lasers Heterogeneously Integrated on Silicon 2020 ,		1
852	Stimulated Brillouin Scattering in AlGaAs on insulator waveguides 2020 ,		2
851	High resolution, high channel count mid-infrared arrayed waveguide gratings in silicon. <i>Optics Letters</i> , 2020 , 45, 4551-4554	3	4
850	An All-Optical Wavelength-Selective O-band Chip-Scale Silicon Photonic Switch 2020 ,		1
849	On-chip High-efficiency Channel-selective Wavelength Multicasting of PAM3/PAM4 Signals Using an AlGaAsOI Waveguide 2020 ,		1
848	Hybrid mode-locked 20 GHz colliding pulse Si/III-V laser with 890 fs pulsewidth 2020 ,		1
847	1.3- μ m passively mode-locked quantum dot lasers epitaxially grown on silicon: gain properties and optical feedback stabilization. <i>JPhys Photonics</i> , 2020 , 2, 045006	2.5	5
846	Foundry capabilities for photonic integrated circuits 2020 , 143-193		2
845	Low Dark Current High Gain InAs Quantum Dot Avalanche Photodiodes Monolithically Grown on Si. <i>ACS Photonics</i> , 2020 , 7, 528-533	6.3	34
844	Epitaxial quantum dot lasers on silicon with high thermal stability and strong resistance to optical feedback. <i>APL Photonics</i> , 2020 , 5, 016103	5.2	16

843	Research Toward a Heterogeneously Integrated InGaN Laser on Silicon. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2020 , 217, 1900770	1.6	7
842	An Experimental Demonstration of 160-Gbit/s PAM-4 Using a Silicon Micro-Ring Modulator. <i>IEEE Photonics Technology Letters</i> , 2020 , 32, 125-128	2.2	19
841	Chip-scale nonlinear photonics for quantum light generation. <i>AVS Quantum Science</i> , 2020 , 2, 041702	10.3	17
840	High Speed Mid-Wave Infrared Uni-Traveling Carrier Photodetector. <i>IEEE Journal of Quantum Electronics</i> , 2020 , 56, 1-7	2	10
839	Recombination-enhanced dislocation climb in InAs quantum dot lasers on silicon. <i>Journal of Applied Physics</i> , 2020 , 128, 025703	2.5	11
838	Defect filtering for thermal expansion induced dislocations in III-V lasers on silicon. <i>Applied Physics Letters</i> , 2020 , 117, 122101	3.4	20
837	Silicon nitride chirped spiral Bragg grating with large group delay. <i>APL Photonics</i> , 2020 , 5, 101302	5.2	5
836	Investigation of Current-Driven Degradation of 1.3 μm Quantum-Dot Lasers Epitaxially Grown on Silicon. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2020 , 26, 1-8	3.8	8
835	Ring-Resonator Based Widely-Tunable Narrow-Linewidth Si/InP Integrated Lasers. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2020 , 26, 1-14	3.8	41
834	Ultra-Sharp Multimode Waveguide Bends with Subwavelength Gratings. <i>Laser and Photonics Reviews</i> , 2019 , 13, 1800119	8.3	50
833	Influence of the polarization anisotropy on the linewidth enhancement factor and reflection sensitivity of 1.55- μm InP-based InAs quantum dash lasers. <i>Applied Physics Letters</i> , 2019 , 115, 091101	3.4	9
832	High-Performance O-Band Quantum-Dot Semiconductor Optical Amplifiers Directly Grown on a CMOS Compatible Silicon Substrate. <i>ACS Photonics</i> , 2019 , 6, 2523-2529	6.3	14
831	Non-radiative recombination at dislocations in InAs quantum dots grown on silicon. <i>Applied Physics Letters</i> , 2019 , 115, 131102	3.4	17
830	1.3- μm Reflection Insensitive InAs/GaAs Quantum Dot Lasers Directly Grown on Silicon. <i>IEEE Photonics Technology Letters</i> , 2019 , 31, 345-348	2.2	47
829	Quantum dot microcavity lasers on silicon substrates. <i>Semiconductors and Semimetals</i> , 2019 , 305-354	0.6	6
828	Linewidth Enhancement Factor in InAs/GaAs Quantum Dot Lasers and Its Implication in Isolator-Free and Narrow Linewidth Applications. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2019 , 25, 1-9	3.8	21
827	Roadmap on all-optical processing. <i>Journal of Optics (United Kingdom)</i> , 2019 , 21, 063001	1.7	63
826	. <i>IEEE Journal of Quantum Electronics</i> , 2019 , 55, 1-7	2	12

825	A High Spur-Free Dynamic Range Silicon DC Kerr Ring Modulator for RF Applications. <i>Journal of Lightwave Technology</i> , 2019 , 37, 3261-3272	4	10
824	Defect Characterization of InAs/InGaAs Quantum Dot p-i-n Photodetector Grown on GaAs-on-V-Grooved-Si Substrate. <i>ACS Photonics</i> , 2019 , 6, 1100-1105	6.3	29
823	. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2019 , 25, 1-15	3.8	26
822	A Review of High-Performance Quantum Dot Lasers on Silicon. <i>IEEE Journal of Quantum Electronics</i> , 2019 , 55, 1-11	2	53
821	High-Power, High-Linearity, Heterogeneously Integrated III-V on Si MZI Modulators for RF Photonics Systems. <i>IEEE Photonics Journal</i> , 2019 , 1-1	1.8	2
820	Heterogeneously Integrated InP/Silicon Photonics: Fabricating Fully Functional Transceivers. <i>IEEE Nanotechnology Magazine</i> , 2019 , 13, 17-26	1.7	82
819	Strong frequency conversion in heterogeneously integrated GaAs resonators. <i>APL Photonics</i> , 2019 , 4, 036103	5.2	37
818	Heterogeneous silicon photonics sensing for autonomous cars. <i>Optics Express</i> , 2019 , 27, 3642-3663	3.3	70
817	Broadband TE Optical Isolators and Circulators in Silicon Photonics Through Ce:YIG Bonding. <i>Journal of Lightwave Technology</i> , 2019 , 37, 1463-1473	4	22
816	Multi-Spectral Quantum Cascade Lasers on Silicon With Integrated Multiplexers. <i>Photonics</i> , 2019 , 6, 6	2.2	6
815	Low-Threshold Epitaxially Grown 1.3- μ m InAs Quantum Dot Lasers on Patterned (001) Si. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2019 , 25, 1-7	3.8	14
814	Characterization of heterogeneous InP-on-Si optical modulators operating between 77 K and room temperature. <i>APL Photonics</i> , 2019 , 4, 100805	5.2	7
813	Highly-Sensitive Phase and Frequency Noise Measurement Technique Using Bayesian Filtering. <i>IEEE Photonics Technology Letters</i> , 2019 , 31, 1866-1869	2.2	4
812	The Importance of p-Doping for Quantum Dot Laser on Silicon Performance. <i>IEEE Journal of Quantum Electronics</i> , 2019 , 55, 1-11	2	26
811	Integration of Mid-Infrared Light Sources on Silicon-Based Waveguide Platforms in 3.5-7 μ m Wavelength Range. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2019 , 25, 1-9	3.8	9
810	Reduced thermal conductivity of epitaxial GaAs on Si due to symmetry-breaking biaxial strain. <i>Physical Review Materials</i> , 2019 , 3,	3.2	16
809	Thermally insensitive determination of the chirp parameter of InAs/GaAs quantum dot lasers epitaxially grown onto silicon 2019 ,		1
808	Integrated photonics for NASA applications 2019 ,		5

807	100 GHz colliding pulse mode locked quantum dot lasers directly grown on Si for WDM application 2019,		2
806	1550 nm laser with 320 Hz Lorentzian linewidth based on semiconductor gain chip and extended Si ₃ N ₄ Bragg grating 2019,		2
805	Multi-wavelength selective crossbar switch. <i>Optics Express</i> , 2019 , 27, 5203-5216	3-3	39
804	Integrated microwave photonic phase shifter with full tunable phase shifting range (> 360°) and RF power equalization. <i>Optics Express</i> , 2019 , 27, 14798-14808	3-3	7
803	Improved second harmonic performance in periodically poled LNOI waveguides through engineering of lateral leakage. <i>Optics Express</i> , 2019 , 27, 23919-23928	3-3	19
802	Passively mode-locked semiconductor quantum dot on silicon laser with 400 Hz RF line width. <i>Optics Express</i> , 2019 , 27, 27256-27266	3-3	15
801	Realities and challenges of III-V/Si integration technologies 2019,		4
800	III-V on silicon avalanche photodiodes by heteroepitaxy. <i>Optics Letters</i> , 2019 , 44, 3538-3541	3	12
799	Ultra-narrow linewidth laser based on a semiconductor gain chip and extended SiN Bragg grating. <i>Optics Letters</i> , 2019 , 44, 3825-3828	3	35
798	Low loss (Al)GaAs on an insulator waveguide platform. <i>Optics Letters</i> , 2019 , 44, 4075-4078	3	7
797	High-channel-count 20 GHz passively mode-locked quantum dot laser directly grown on Si with 41 Tbit/s transmission capacity. <i>Optica</i> , 2019 , 6, 128	8.6	75
796	Monolithic integration of broadband optical isolators for polarization-diverse silicon photonics. <i>Optica</i> , 2019 , 6, 473	8.6	80
795	High-power sub-kHz linewidth lasers fully integrated on silicon. <i>Optica</i> , 2019 , 6, 745	8.6	75
794	Tunable quantum dot lasers grown directly on silicon. <i>Optica</i> , 2019 , 6, 1394	8.6	20
793	Dynamic and nonlinear properties of epitaxial quantum dot lasers on silicon for isolator-free integration. <i>Photonics Research</i> , 2019 , 7, 1222	6	15
792	A Low-noise High-channel-count 20 GHz Passively Mode Locked Quantum Dot Laser Grown on Si 2019,		1
791	Thermoelectric transport at F4TCNQ/Si interface. <i>APL Materials</i> , 2019 , 7, 021104	5-7	0
790	Vernier spectrometer using counterpropagating soliton microcombs. <i>Science</i> , 2019 , 363, 965-968	33-3	39

789	High Thermoelectric Power Factor and ZT in TbAs:InGaAs Epitaxial Nanocomposite Material. <i>Advanced Electronic Materials</i> , 2019 , 5, 1900015	6.4	3
788	Demonstration of a Spectrally-Partitioned 4×4 Crossbar Switch with 3 Drops per Cross-point 2019 ,		1
787	On-chip polarization rotator for type I second harmonic generation. <i>APL Photonics</i> , 2019 , 4, 126105	5.2	6
786	Ultra-low Noise Widely-Tunable Semiconductor Lasers Fully Integrated on Silicon 2019 ,		1
785	Tutorial on narrow linewidth tunable semiconductor lasers using Si/III-V heterogeneous integration. <i>APL Photonics</i> , 2019 , 4, 111101	5.2	65
784	A Spectrally-Partitioned Crossbar Switch with Three Drops Per Cross-Point Controlled with a Driver 2019 ,		1
783	Low-Threshold Continuous-Wave Operation of Electrically Pumped 1.55 μm InAs Quantum Dash Microring Lasers. <i>ACS Photonics</i> , 2019 , 6, 279-285	6.3	20
782	Recent Advances in InAs Quantum Dot Lasers Grown on On-Axis (001) Silicon by Molecular Beam Epitaxy. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2019 , 216, 1800602	1.6	23
781	Status and Potential of Lithium Niobate on Insulator (LNOI) for Photonic Integrated Circuits. <i>Laser and Photonics Reviews</i> , 2018 , 12, 1700256	8.3	245
780	An optical-frequency synthesizer using integrated photonics. <i>Nature</i> , 2018 , 557, 81-85	50.4	297
779	Impact of threading dislocation density on the lifetime of InAs quantum dot lasers on Si. <i>Applied Physics Letters</i> , 2018 , 112, 153507	3.4	84
778	Micro-Resonator Soliton Generated Directly with a Diode Laser. <i>Laser and Photonics Reviews</i> , 2018 , 12, 1700307	8.3	17
777	490 fs pulse generation from passively mode-locked single section quantum dot laser directly grown on on-axis GaP/Si. <i>Electronics Letters</i> , 2018 , 54, 432-433	1.1	33
776	Electrical Probing Test for Characterizing Wideband Optical Transceiving Devices with Self-Reference and On-Chip Capability. <i>Journal of Lightwave Technology</i> , 2018 , 36, 4326-4336	4	5
775	. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2018 , 24, 1-9	3.8	32
774	Quasi-Phase-Matched Supercontinuum Generation in Photonic Waveguides. <i>Physical Review Letters</i> , 2018 , 120, 053903	7.4	25
773	Heterogeneous silicon light sources for datacom applications. <i>Optical Fiber Technology</i> , 2018 , 44, 43-52	2.4	13
772	Silicon photonic terabit/s network-on-chip for datacenter interconnection. <i>Optical Fiber Technology</i> , 2018 , 44, 2-12	2.4	12

771	Highly Reliable Low-Threshold InAs Quantum Dot Lasers on On-Axis (001) Si with 87% Injection Efficiency. <i>ACS Photonics</i> , 2018 , 5, 1094-1100	6.3	83
770	High Performance 7 \times 8 Ge-on-Si Arrayed Waveguide Gratings for the Midinfrared. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2018 , 24, 1-8	3.8	12
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