

John Bowers

List of Publications by Year in descending order

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1,257
papers

44,425
citations

1697

104
h-index

4323

173
g-index

1270
all docs

1270
docs citations

1270
times ranked

21176
citing authors

#	ARTICLE	IF	CITATIONS
1	Unravelling angiosperm genome evolution by phylogenetic analysis of chromosomal duplication events. <i>Nature</i> , 2003, 422, 433-438.	13.7	1,470
2	Electrically pumped hybrid AlGaInAs-silicon evanescent laser. <i>Optics Express</i> , 2006, 14, 9203.	1.7	1,083
3	Ancient polyploidization predating divergence of the cereals, and its consequences for comparative genomics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 9903-9908.	3.3	954
4	Recent progress in lasers on silicon. <i>Nature Photonics</i> , 2010, 4, 511-517.	15.6	929
5	Roadmap on silicon photonics. <i>Journal of Optics (United Kingdom)</i> , 2016, 18, 073003.	1.0	915
6	An optical-frequency synthesizer using integrated photonics. <i>Nature</i> , 2018, 557, 81-85.	13.7	550
7	Monolithic germanium/silicon avalanche photodiodes with 340 GHz gain-bandwidth product. <i>Nature Photonics</i> , 2009, 3, 59-63.	15.6	489
8	Status and Potential of Lithium Niobate on Insulator (LNOI) for Photonic Integrated Circuits. <i>Laser and Photonics Reviews</i> , 2018, 12, 1700256.	4.4	435
9	Effective band gap inhomogeneity and piezoelectric field in InGaN/GaN multiquantum well structures. <i>Applied Physics Letters</i> , 1998, 73, 2006-2008.	1.5	427
10	III-V/silicon photonics for on-chip and intra-chip optical interconnects. <i>Laser and Photonics Reviews</i> , 2010, 4, 751-779.	4.4	427
11	Passive technologies for future large-scale photonic integrated circuits on silicon: polarization handling, light non-reciprocity and loss reduction. <i>Light: Science and Applications</i> , 2012, 1, e1-e1.	7.7	415
12	Ultra-low-loss high-aspect-ratio Si ₃ N ₄ waveguides. <i>Optics Express</i> , 2011, 19, 3163.	1.7	414
13	Roadmap of optical communications. <i>Journal of Optics (United Kingdom)</i> , 2016, 18, 063002.	1.0	402
14	A genome triplication associated with early diversification of the core eudicots. <i>Genome Biology</i> , 2012, 13, R3.	13.9	389
15	Planar waveguides with less than 0.1 dB/m propagation loss fabricated with wafer bonding. <i>Optics Express</i> , 2011, 19, 24090.	1.7	367
16	Two-dimensional free-space beam steering with an optical phased array on silicon-on-insulator. <i>Optics Express</i> , 2011, 19, 21595.	1.7	350
17	Hybrid Silicon Photonic Integrated Circuit Technology. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2013, 19, 6100117-6100117.	1.9	348
18	Novel concept for ultracompact polarization splitter-rotator based on silicon nanowires. <i>Optics Express</i> , 2011, 19, 10940.	1.7	334

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19	Heterostructure integrated thermionic coolers. Applied Physics Letters, 1997, 71, 1234-1236.	1.5	328
20	Ultrawide-band long-wavelength p-i-n photodetectors. Journal of Lightwave Technology, 1987, 5, 1339-1350.	2.7	327
21	Demonstration of electron filtering to increase the Seebeck coefficient in $\text{In}_{0.53}\text{Ga}_{0.47}\text{As}/\text{In}_{0.53}\text{Ga}_{0.28}\text{Al}_{0.19}\text{Sb}$ superlattices. Physical Review B, 2006, 74, .	1.1	305
22	Thermal conductivity of Si/SiGe and SiGe/SiGe superlattices. Applied Physics Letters, 2002, 80, 1737-1739.	1.5	295
23	Integrated turnkey soliton microcombs. Nature, 2020, 582, 365-369.	13.7	295
24	High performance continuous wave 1.3 μm quantum dot lasers on silicon. Applied Physics Letters, 2014, 104, 041104.	1.5	285
25	Silicon-based on-chip multiplexing technologies and devices for Peta-bit optical interconnects. Nanophotonics, 2014, 3, 283-311.	2.9	262
26	Fully integrated hybrid silicon two dimensional beam scanner. Optics Express, 2015, 23, 5861.	1.7	262
27	Hertz-linewidth semiconductor lasers using CMOS-ready ultra-high-Q microresonators. Nature Photonics, 2021, 15, 346-353.	15.6	260
28	Perspective on the future of silicon photonics and electronics. Applied Physics Letters, 2021, 118, .	1.5	246
29	1.3 μm photoluminescence from InGaAs quantum dots on GaAs. Applied Physics Letters, 1995, 67, 3795-3797.	1.5	243
30	Hybrid Integrated Platforms for Silicon Photonics. Materials, 2010, 3, 1782-1802.	1.3	242
31	Heterogeneous Silicon Photonic Integrated Circuits. Journal of Lightwave Technology, 2016, 34, 20-35.	2.7	239
32	Time-resolved optical characterization of InGaAs/GaAs quantum dots. Applied Physics Letters, 1994, 64, 2815-2817.	1.5	234
33	Thin film wavelength converters for photonic integrated circuits. Optica, 2016, 3, 531.	4.8	230
34	Hybrid silicon evanescent laser fabricated with a silicon waveguide and III-V offset quantum wells. Optics Express, 2005, 13, 9460.	1.7	224
35	SiGeC/Si superlattice microcoolers. Applied Physics Letters, 2001, 78, 1580-1582.	1.5	218
36	Integrated optical frequency comb technologies. Nature Photonics, 2022, 16, 95-108.	15.6	215

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37	Integrated waveguide coupled Si ₃ N ₄ resonators in the ultrahigh-Q regime. <i>Optica</i> , 2014, 1, 153.	4.8	211
38	Mode conversion in tapered submicron silicon ridge optical waveguides. <i>Optics Express</i> , 2012, 20, 13425.	1.7	207
39	A distributed feedback silicon evanescent laser. <i>Optics Express</i> , 2008, 16, 4413.	1.7	202
40	Silicon ring isolators with bonded nonreciprocal magneto-optic garnets. <i>Optics Express</i> , 2011, 19, 11740.	1.7	202
41	Novel ultra-short and ultra-broadband polarization beam splitter based on a bent directional coupler. <i>Optics Express</i> , 2011, 19, 18614.	1.7	197
42	Integrated AlGaInAs-silicon evanescent race track laser and photodetector. <i>Optics Express</i> , 2007, 15, 2315.	1.7	192
43	Hybrid Silicon Photonics for Optical Interconnects. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2011, 17, 333-346.	1.9	188
44	Perspective: The future of quantum dot photonic integrated circuits. <i>APL Photonics</i> , 2018, 3, .	3.0	188
45	Annotated portfolios. <i>Interactions</i> , 2012, 19, 40-49.	0.8	184
46	Many gene and domain families have convergent fates following independent whole-genome duplication events in <i>Arabidopsis</i> , <i>Oryza</i> , <i>Saccharomyces</i> and <i>Tetraodon</i> . <i>Trends in Genetics</i> , 2006, 22, 597-602.	2.9	181
47	Effects of carrier transport on high-speed quantum well lasers. <i>Applied Physics Letters</i> , 1991, 59, 1835-1837.	1.5	180
48	Ultrashort broadband polarization beam splitter based on an asymmetrical directional coupler. <i>Optics Letters</i> , 2011, 36, 2590.	1.7	180
49	High-speed InGaAsP constricted-mesa lasers. <i>IEEE Journal of Quantum Electronics</i> , 1986, 22, 833-844.	1.0	179
50	Room temperature lasing from InGaAs quantum dots. <i>Electronics Letters</i> , 1996, 32, 1732.	0.5	177
51	Low-loss Si ₃ N ₄ arrayed-waveguide grating (de)multiplexer using nano-core optical waveguides. <i>Optics Express</i> , 2011, 19, 14130.	1.7	173
52	Laser soliton microcombs heterogeneously integrated on silicon. <i>Science</i> , 2021, 373, 99-103.	6.0	173
53	Buffering of crucial functions by paleologous duplicated genes may contribute cyclicity to angiosperm genome duplication. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 2730-2735.	3.3	168
54	Electrically-pumped compact hybrid silicon microring lasers for optical interconnects. <i>Optics Express</i> , 2009, 17, 20355.	1.7	165

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55	A hybrid AlGaInAs-silicon evanescent waveguide photodetector. Optics Express, 2007, 15, 6044.	1.7	164
56	Observation of the Unconventional Photon Blockade. Physical Review Letters, 2018, 121, 043601.	2.9	163
57	Emission mechanisms of bulk GaN and InGaN quantum wells prepared by lateral epitaxial overgrowth. Applied Physics Letters, 1999, 74, 1460-1462.	1.5	158
58	Optical investigations of the dynamic behavior of GaSb/GaAs quantum dots. Applied Physics Letters, 1996, 68, 1543-1545.	1.5	157
59	Quantum dot lasers for silicon photonics [Invited]. Photonics Research, 2015, 3, B1.	3.4	157
60	2022 Roadmap on integrated quantum photonics. JPhys Photonics, 2022, 4, 012501.	2.2	152
61	Ultra-efficient frequency comb generation in AlGaAs-on-insulator microresonators. Nature Communications, 2020, 11, 1331.	5.8	151
62	Heterogeneously Integrated InP/Silicon Photonics: Fabricating Fully Functional Transceivers. IEEE Nanotechnology Magazine, 2019, 13, 17-26.	0.9	150
63	Comparative genomic analysis of C4 photosynthetic pathway evolution in grasses. Genome Biology, 2009, 10, R68.	13.9	144
64	The logic of annotated portfolios. , 2012, , .		144
65	13-µm submilliwatt threshold quantum dot micro-lasers on Si. Optica, 2017, 4, 940.	4.8	142
66	Tutorial on narrow linewidth tunable semiconductor lasers using Si/III-V heterogeneous integration. APL Photonics, 2019, 4, .	3.0	141
67	Workflow From Within and Without: Technology and Cooperative Work on the Print Industry Shopfloor. , 1995, , 51-66.		139
68	Comparison of timing jitter in external and monolithic cavity mode-locked semiconductor lasers. Applied Physics Letters, 1991, 59, 3372-3374.	1.5	132
69	Monolithic integration of broadband optical isolators for polarization-diverse silicon photonics. Optica, 2019, 6, 473.	4.8	132
70	Hybrid silicon evanescent devices. Materials Today, 2007, 10, 28-35.	8.3	131
71	Compact broadband polarizer based on shallowly-etched silicon-on-insulator ridge optical waveguides. Optics Express, 2010, 18, 27404.	1.7	131
72	Widely tunable Vernier ring laser on hybrid silicon. Optics Express, 2013, 21, 19718.	1.7	130

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73	Heterogeneous silicon photonics sensing for autonomous cars [Invited]. Optics Express, 2019, 27, 3642.	1.7	130
74	A Hybrid AlGaInAsâ€“Silicon Evanescent Amplifier. IEEE Photonics Technology Letters, 2007, 19, 230-232.	1.3	129
75	High-channel-count 20â€‰GHz passively mode-locked quantum dot laser directly grown on Si with 41â€‰Tbit/s transmission capacity. Optica, 2019, 6, 128.	4.8	129
76	Roadmap on all-optical processing. Journal of Optics (United Kingdom), 2019, 21, 063001.	1.0	128
77	Microcomb-driven silicon photonic systems. Nature, 2022, 605, 457-463.	13.7	128
78	Electrically pumped continuous-wave 13â€‰Î¼m quantum-dot lasers epitaxially grown on on-axis (001)â€‰GaP/Si. Optics Letters, 2017, 42, 338.	1.7	127
79	Impact of threading dislocation density on the lifetime of InAs quantum dot lasers on Si. Applied Physics Letters, 2018, 112, .	1.5	127
80	Self-assembled ErAs islands in GaAs: Growth and subpicosecond carrier dynamics. Applied Physics Letters, 1999, 75, 3548-3550.	1.5	124
81	Effect of nanoparticle scattering on thermoelectric power factor. Applied Physics Letters, 2009, 94, 202105.	1.5	124
82	Thermoelectric power factor in semiconductors with buried epitaxial semimetallic nanoparticles. Applied Physics Letters, 2005, 87, 112102.	1.5	123
83	Ultra-high quality factor planar Si ₃ N ₄ ring resonators on Si substrates. Optics Express, 2011, 19, 13551.	1.7	123
84	Photonic Integrated Circuits Using Heterogeneous Integration on Silicon. Proceedings of the IEEE, 2018, 106, 2246-2257.	16.4	123
85	Over 67 GHz bandwidth hybrid silicon electroabsorption modulator with asymmetric segmented electrode for 13 Î¼m transmission. Optics Express, 2012, 20, 11529.	1.7	122
86	Silicon on ultra-low-loss waveguide photonic integration platform. Optics Express, 2013, 21, 544.	1.7	122
87	Low threshold, wafer fused long wavelength vertical cavity lasers. Applied Physics Letters, 1994, 64, 1463-1465.	1.5	121
88	Timeâ€“resolved photoluminescence from poly[2â€“methoxy, 5â€“(2â€“ethylhexyloxy)â€“phenyleneâ€“vinylene]: Solutions, gels, films, and blends. Journal of Chemical Physics, 1993, 98, 6504-6509.	1.2	120
89	Highly Reliable Low-Threshold InAs Quantum Dot Lasers on On-Axis (001) Si with 87% Injection Efficiency. ACS Photonics, 2018, 5, 1094-1100.	3.2	120
90	Compact Polarization Beam Splitter Using an Asymmetrical Machâ€“Zehnder Interferometer Based on Silicon-on-Insulator Waveguides. IEEE Photonics Technology Letters, 2012, 24, 673-675.	1.3	118

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91	Ultra-low loss waveguide platform and its integration with silicon photonics. Laser and Photonics Reviews, 2014, 8, 667-686.	4.4	118
92	High-power sub-kHz linewidth lasers fully integrated on silicon. Optica, 2019, 6, 745.	4.8	118
93	4 Gbps direct modulation of 450 nm GaN laser for high-speed visible light communication. Optics Express, 2015, 23, 16232.	1.7	117
94	Sparse aperiodic arrays for optical beam forming and LIDAR. Optics Express, 2017, 25, 2511.	1.7	117
95	Mode-locked silicon evanescent lasers. Optics Express, 2007, 15, 11225.	1.7	116
96	Heterogeneous integration of lithium niobate and silicon nitride waveguides for wafer-scale photonic integrated circuits on silicon. Optics Letters, 2017, 42, 803.	1.7	116
97	Right sizes of nano- and microstructures for high-performance and rigid bulk thermoelectrics. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 10949-10954.	3.3	115
98	8 Å– 8 Å– 40% fully integrated silicon photonic network on chip. Optica, 2016, 3, 785.	4.8	115
99	Passive microring-resonator-coupled lasers. Applied Physics Letters, 2001, 79, 3561-3563.	1.5	114
100	High efficiency low threshold current 1.3% InAs quantum dot lasers on on-axis (001) GaP/Si. Applied Physics Letters, 2017, 111, .	1.5	114
101	Realization of an ultra-short silicon polarization beam splitter with an asymmetrical bent directional coupler. Optics Letters, 2013, 38, 4.	1.7	112
102	Widely Tunable Narrow-Linewidth Monolithically Integrated External-Cavity Semiconductor Lasers. IEEE Journal of Selected Topics in Quantum Electronics, 2015, 21, 214-222.	1.9	112
103	Quantum cascade laser on silicon. Optica, 2016, 3, 545.	4.8	109
104	A Distributed Bragg Reflector Silicon Evanescent Laser. IEEE Photonics Technology Letters, 2008, 20, 1667-1669.	1.3	108
105	A Review of High-Performance Quantum Dot Lasers on Silicon. IEEE Journal of Quantum Electronics, 2019, 55, 1-11.	1.0	107
106	Highly efficient vertical outgassing channels for low-temperature InP-to-silicon direct wafer bonding on the silicon-on-insulator substrate. Journal of Vacuum Science & Technology B, 2008, 26, 1560-1568.	1.3	105
107	Low-Loss Silicon Nitride AWG Demultiplexer Heterogeneously Integrated With Hybrid III-V/Silicon Photodetectors. Journal of Lightwave Technology, 2014, 32, 817-823.	2.7	105
108	Narrow-linewidth III-V/Si ₃ N ₄ laser using multilayer heterogeneous integration. Optica, 2020, 7, 20.	4.8	105

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109	A hybrid AlGaInAs-silicon evanescent preamplifier and photodetector. Optics Express, 2007, 15, 13539.	1.7	104
110	Electrically pumped continuous wave quantum dot lasers epitaxially grown on patterned, on-axis (001) Si. Optics Express, 2017, 25, 3927.	1.7	103
111	Device and Integration Technology for Silicon Photonic Transmitters. IEEE Journal of Selected Topics in Quantum Electronics, 2011, 17, 671-688.	1.9	102
112	High Thermoelectric Performance of a Heterogeneous PbTe Nanocomposite. Chemistry of Materials, 2015, 27, 944-949.	3.2	102
113	Optically pumped 1.3- μm room-temperature InAs quantum-dot micro-disk lasers directly grown on (001) silicon. Optics Letters, 2016, 41, 1664.	1.7	101
114	Low threshold and high speed short cavity distributed feedback hybrid silicon lasers. Optics Express, 2014, 22, 10202.	1.7	100
115	Photonic Integration With Epitaxial III-V on Silicon. IEEE Journal of Selected Topics in Quantum Electronics, 2018, 24, 1-12.	1.9	100
116	Heterogeneous Silicon/III-V Semiconductor Optical Amplifiers. IEEE Journal of Selected Topics in Quantum Electronics, 2016, 22, 78-88.	1.9	97
117	Measurement of Asymmetries of Inclusive Pion Production in Proton-Proton Interactions at 6 and 11.8 GeV/c. Physical Review Letters, 1976, 36, 929-931.	2.9	96
118	Thermionic emission cooling in single barrier heterostructures. Applied Physics Letters, 1999, 74, 88-89.	1.5	96
119	Energy Efficient and Energy Proportional Optical Interconnects for Multi-Core Processors: Driving the Need for On-Chip Sources. IEEE Journal of Selected Topics in Quantum Electronics, 2014, 20, 332-343.	1.9	96
120	Low threading dislocation density GaAs growth on on-axis GaP/Si (001). Journal of Applied Physics, 2017, 122, .	1.1	96
121	High gain-bandwidth-product silicon heterointerface photodetector. Applied Physics Letters, 1997, 70, 303-305.	1.5	95
122	High-power high-linearity flip-chip bonded modified uni-traveling carrier photodiode. Optics Express, 2011, 19, B385.	1.7	95
123	Structure and evolution of cereal genomes. Current Opinion in Genetics and Development, 2003, 13, 644-650.	1.5	93
124	Reliability of InAs/GaAs Quantum Dot Lasers Epitaxially Grown on Silicon. IEEE Journal of Selected Topics in Quantum Electronics, 2015, 21, 690-697.	1.9	92
125	1310nm silicon evanescent laser. Optics Express, 2007, 15, 11466.	1.7	91
126	Experimental and theoretical thermal analysis of a Hybrid Silicon Evanescent Laser. Optics Express, 2007, 15, 15041.	1.7	90

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127	110-GHz GaInAs/InP double heterostructure p-i-n photodetectors. Journal of Lightwave Technology, 1995, 13, 1490-1499.	2.7	88
128	Large and small signal dynamics of vertical cavity surface emitting lasers. Applied Physics Letters, 1993, 62, 325-327.	1.5	87
129	Ultra-Sharp Multimode Waveguide Bends with Subwavelength Gratings. Laser and Photonics Reviews, 2019, 13, 1800119.	4.4	87
130	Extensive Concerted Evolution of Rice Paralogs and the Road to Regaining Independence. Genetics, 2007, 177, 1753-1763.	1.2	85
131	Ring-Resonator Based Widely-Tunable Narrow-Linewidth Si/InP Integrated Lasers. IEEE Journal of Selected Topics in Quantum Electronics, 2020, 26, 1-14.	1.9	85
132	Low internal loss separate confinement heterostructure InGaAs/InGaAsP quantum well laser. Applied Physics Letters, 1987, 51, 1744-1746.	1.5	84
133	Actively mode-locked GaInAsP laser with subpicosecond output. Applied Physics Letters, 1988, 52, 348-350.	1.5	84
134	Highly Ordered Vertical Silicon Nanowire Array Composite Thin Films for Thermoelectric Devices. Journal of Electronic Materials, 2012, 41, 887-894.	1.0	84
135	Ultra-low-loss Ta ₂ O ₅ -core/SiO ₂ -clad planar waveguides on Si substrates. Optica, 2017, 4, 532.	4.8	84
136	Low-Temperature, Strong SiO ₂ -SiO ₂ Covalent Wafer Bonding for III-V Compound Semiconductors-to-Silicon Photonic Integrated Circuits. Journal of Electronic Materials, 2008, 37, 1552-1559.	1.0	83
137	Comparative inference of illegitimate recombination between rice and sorghum duplicated genes produced by polyploidization. Genome Research, 2009, 19, 1026-1032.	2.4	83
138	1.3- μm Reflection Insensitive InAs/GaAs Quantum Dot Lasers Directly Grown on Silicon. IEEE Photonics Technology Letters, 2019, 31, 345-348.	1.3	83
139	Vernier spectrometer using counterpropagating soliton microcombs. Science, 2019, 363, 965-968.	6.0	83
140	High speed hybrid silicon evanescent electroabsorption modulator. Optics Express, 2008, 16, 9936.	1.7	82
141	Ultra-Low-Loss Silicon Waveguides for Heterogeneously Integrated Silicon/III-V Photonics. Applied Sciences (Switzerland), 2018, 8, 1139.	1.3	82
142	Ultrafast dynamics in field-enhanced saturable absorbers. Applied Physics Letters, 1994, 64, 676-678.	1.5	81
143	Double-fused 1.52- μm vertical-cavity lasers. Applied Physics Letters, 1995, 66, 1030-1032.	1.5	81
144	Silicon heterointerface photodetector. Applied Physics Letters, 1996, 68, 3692-3694.	1.5	81

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145	Femtosecond studies of carrier dynamics in InGaN. Applied Physics Letters, 1997, 70, 2004-2006.	1.5	81
146	50 Gb/s hybrid silicon traveling-wave electroabsorption modulator. Optics Express, 2011, 19, 5811.	1.7	81
147	Dynamically reconfigurable integrated optical circulators. Optica, 2017, 4, 23.	4.8	81
148	Characterization of high-quality InGaN/GaN multiquantum wells with time-resolved photoluminescence. Applied Physics Letters, 1998, 72, 1066-1068.	1.5	80
149	Design and characterization of thin film microcoolers. Journal of Applied Physics, 2001, 89, 4059-4064.	1.1	79
150	Cross-plane lattice and electronic thermal conductivities of ErAs:InGaAs [∞] InGaAlAs superlattices. Applied Physics Letters, 2006, 88, 242107.	1.5	79
151	Recent Progress in Heterogeneous III-V-on-Silicon Photonic Integration. Light Advanced Manufacturing, 2021, 2, 59.	2.2	79
152	Radiative recombination lifetime measurements of InGaN single quantum well. Applied Physics Letters, 1996, 69, 1936-1938.	1.5	78
153	High-speed InGaAs/GaAs strained multiple quantum well lasers with low damping. Applied Physics Letters, 1991, 58, 2326-2328.	1.5	76
154	Minimum temperature sensitivity of 1.55 μ m vertical-cavity lasers at \sim 30%nm gain offset. Applied Physics Letters, 1998, 72, 1814-1816.	1.5	76
155	Integrated heterogeneous silicon/III [∞] V mode-locked lasers. Photonics Research, 2018, 6, 468.	3.4	76
156	High-temperature reliable quantum-dot lasers on Si with misfit and threading dislocation filters. Optica, 2021, 8, 749.	4.8	76
157	SOA gate array recirculating buffer with fiber delay loop. Optics Express, 2008, 16, 8451.	1.7	74
158	Microring-Based Optical Isolator and Circulator with Integrated Electromagnet for Silicon Photonics. Journal of Lightwave Technology, 2017, 35, 1429-1437.	2.7	73
159	Heterogeneously Integrated GaAs Waveguides on Insulator for Efficient Frequency Conversion. Laser and Photonics Reviews, 2018, 12, 1800149.	4.4	73
160	High efficiency semimetal/semiconductor nanocomposite thermoelectric materials. Journal of Applied Physics, 2010, 108, .	1.1	72
161	Electrically Driven and Thermally Tunable Integrated Optical Isolators for Silicon Photonics. IEEE Journal of Selected Topics in Quantum Electronics, 2016, 22, 271-278.	1.9	72
162	Monolithically integrated InAs/InGaAs quantum dot photodetectors on silicon substrates. Optics Express, 2017, 25, 27715.	1.7	71

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163	Monolithic hybrid mode-locked 1.3 μ m semiconductor lasers. Applied Physics Letters, 1990, 56, 111-113.	1.5	70
164	Enhanced Thermionic Emission Cooling in High Barrier Superlattice Heterostructures. Materials Research Society Symposia Proceedings, 1998, 545, 449.	0.1	70
165	Integrated Ultra-Low-Loss 4-Bit Tunable Delay for Broadband Phased Array Antenna Applications. IEEE Photonics Technology Letters, 2013, 25, 1165-1168.	1.3	70
166	Integrated Coherent Receivers for High-Linearity Microwave Photonic Links. Journal of Lightwave Technology, 2008, 26, 209-216.	2.7	69
167	Inverse-Designed Photonics for Semiconductor Foundries. ACS Photonics, 2020, 7, 569-575.	3.2	68
168	GaAs to InP wafer fusion. Journal of Applied Physics, 1995, 78, 4227-4237.	1.1	67
169	Hybrid Silicon Laser Technology: A Thermal Perspective. IEEE Journal of Selected Topics in Quantum Electronics, 2011, 17, 1490-1498.	1.9	67
170	An Integrated Hybrid Silicon Multiwavelength AWG Laser. IEEE Journal of Selected Topics in Quantum Electronics, 2011, 17, 1521-1527.	1.9	67
171	Design of integrated hybrid silicon waveguide optical gyroscope. Optics Express, 2014, 22, 24988.	1.7	67
172	Perspectives on Advances in Quantum Dot Lasers and Integration with Si Photonic Integrated Circuits. ACS Photonics, 2021, 8, 2555-2566.	3.2	67
173	Effects of Si-doping in the barriers of InGaN multiquantum well purplish-blue laser diodes. Applied Physics Letters, 1998, 73, 496-498.	1.5	66
174	Anatomy of a failure. , 2009, , .		66
175	Calculated thermoelectric properties of $\text{In}_x\text{Ga}_{1-x}\text{N}$, $\text{In}_x\text{Al}_{1-x}\text{N}$, and $\text{Al}_x\text{Ga}_{1-x}\text{N}$. Journal of Applied Physics, 2013, 113, .	1.1	66
176	Indoor weather stations. , 2013, , .		66
177	Phase tuning by length contraction. Optics Express, 2018, 26, 3174.	1.7	66
178	144 $^{\circ}\text{C}$ operation of 1.3 μ m InGaAsP vertical cavity lasers on GaAs substrates. Applied Physics Letters, 1992, 61, 3095-3097.	1.5	65
179	The visitor as virtual archaeologist. , 2001, , .		65
180	Single-Wavelength Silicon Evanescent Lasers. IEEE Journal of Selected Topics in Quantum Electronics, 2009, 15, 535-544.	1.9	63

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181	Ultra-low loss Si ₃ N ₄ waveguides with low nonlinearity and high power handling capability. Optics Express, 2010, 18, 23562.	1.7	63
182	Semiconductor quantum dot lasers epitaxially grown on silicon with low linewidth enhancement factor. Applied Physics Letters, 2018, 112, .	1.5	63
183	Strong frequency conversion in heterogeneously integrated GaAs resonators. APL Photonics, 2019, 4, 036103.	3.0	63
184	Low Threshold Electrically-Pumped Hybrid Silicon Microring Lasers. IEEE Journal of Selected Topics in Quantum Electronics, 2011, 17, 1528-1533.	1.9	62
185	Integrated Microwave Photonic Filter on a Hybrid Silicon Platform. IEEE Transactions on Microwave Theory and Techniques, 2010, 58, 3213-3219.	2.9	61
186	Ultrabright Entangled-Photon-Pair Generation from an AlGaAs -On-Silicon Microring Resonator. PRX Quantum, 2021, 2, .	3.5	61
187	Reaching fiber-laser coherence in integrated photonics. Optics Letters, 2021, 46, 5201.	1.7	61
188	Ultra-narrow linewidth laser based on a semiconductor gain chip and extended Si ₃ N ₄ Bragg grating. Optics Letters, 2019, 44, 3825.	1.7	61
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