Mario Dagenais

List of Publications by Year
in descending order

236 papers	6,292 citations	117625 34 h-index	74163 75 g-index
237 all docs	237 docs citations	237 times ranked	4753 citing authors

#	Article	IF	Citations
1	Photon Antibunching in Resonance Fluorescence. Physical Review Letters, 1977, 39, 691-695.	7.8	1,444
2	Characterization of Low Loss Waveguides Using Bragg Gratings. IEEE Journal of Selected Topics in Quantum Electronics, 2018, 24, 1-8.	2.9	435
3	Pressure-Induced Extra Resonances in Four-Wave Mixing. Physical Review Letters, 1981, 46, 111-114.	7.8	238
4	Optical injection induced polarization bistability in verticalâ€cavity surfaceâ€emitting lasers. Applied Physics Letters, 1993, 63, 2999-3001.	3.3	234
5	Multiatom and transit-time effects on photon-correlation measurements in resonance fluorescence. Physical Review A, 1978, 18, 201-207.	2.5	212
6	Investigation of two-time correlations in photon emissions from a single atom. Physical Review A, 1978, 18, 2217-2228.	2.5	208
7	Nonlinearities in p-i-n microwave photodetectors. Journal of Lightwave Technology, 1996, 14, 84-96.	4.6	201
8	High sensitivity evanescent field fiber Bragg grating sensor. IEEE Photonics Technology Letters, 2005, 17, 1253-1255.	2.5	177
9	Detecting hybridization of DNA by highly sensitive evanescent field etched core fiber Bragg grating sensors. IEEE Journal of Selected Topics in Quantum Electronics, 2005, 11, 864-872.	2.9	122
10	Effects of high space-charge fields on the response of microwave photodetectors. IEEE Photonics Technology Letters, 1994, 6, 639-641.	2.5	120
11	The electronic spectrum of F₂. Canadian Journal of Physics, 1976, 54, 1343-1359.	1.1	119
12	Highâ€frequency polarization selfâ€modulation in verticalâ€cavity surfaceâ€emitting lasers. Applied Physics Letters, 1993, 63, 3545-3547.	3.3	114
13	6â€“34 GHz offset phase-locking of Nd:YAG 1319 nm nonplanar ring lasers. Electronics Letters, 1989, 25, 1242.	1.0	103
14	Roadmap on optical energy conversion. Journal of Optics (United Kingdom), 2016, 18, 073004.	2.2	85
15	Two-Photon Absorption as a New Test of the Judd-Ofelt Theory. Physical Review Letters, 1981, 46, 561-565.	7.8	83
16	Optical generation of a megahertz-linewidth microwave signal using semiconductor lasers and a discriminator-aided phase-locked loop. IEEE Transactions on Microwave Theory and Techniques, 1997, 45, 1296-1300.	4.6	71
17	Cavityless optical bistability due to lightâ€induced absorption in cadmium sulfide. Applied Physics Letters, 1984, 45, 210-212.	3.3	67
18	Influence of external optical feedback on threshold and spectral characteristics of vertical-cavity surface-emitting lasers. IEEE Photonics Technology Letters, 1994, 6, 34-36.	2.5	67

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19	Arrayed waveguide grating spectrometers for astronomical applications: new results. Optics Express, 2017, 25, 17918.	3.4	60
20	A stable smoothly wavelength-tunable picosecond pulse generator. IEEE Photonics Technology Letters, 2002, 14, 840-842.	2.5	59
21	Precise measurement of the ground state (²P_{1/2}â€“²P_{3/2}) splitting of atomic chlorine by CO₂ laser Zeeman spectroscopy. Canadian Journal of Physics, 1976, 54, 1438-1441.	1.1	57
22	Femtojoule optical switching in nonlinear semiconductor laser amplifiers. Applied Physics Letters, 1986, 48, 321-322.	3.3	57
23	High contrast, 1.3 Î¼m optical AND gate with gain. Applied Physics Letters, 1986, 48, 1510-1512.	3.3	55
24	Applications and challenges of OEIC technology: a report on the 1989 Hilton Head workshop. Journal of Lightwave Technology, 1990, 8, 846-862.	4.6	53
25	Picojoule, subnanosecond, allâ€optical switching using bound excitons in CdS. Applied Physics Letters, 1985, 46, 230-232.	3.3	52
26	Roomâ€temperature optical bistability in InGaAsP/InP amplifiers and implications for passive devices. Applied Physics Letters, 1985, 46, 819-821.	3.3	51
27	Arbitrary on-chip optical filter using complex waveguide Bragg gratings. Applied Physics Letters, 2016, 108, .	3.3	50
28	A Focused Asymmetric Metalâ€“Insulatorâ€“Metal Tunneling Diode: Fabrication, DC Characteristics and RF Rectification Analysis. IEEE Transactions on Electron Devices, 2011, 58, 3519-3528.	3.0	49
29	Solar spectrum rectification using nano-antennas and tunneling diodes. Proceedings of SPIE, 2010, , .	0.8	42
30	Nonlinearly limited saturable-absorber mode locking of an erbium fiber laser. Optics Letters, 1999, 24, 1074.	3.3	39
31	Monolayer Detection of Biochemical Agents Using Etched-Core Fiber Bragg Grating Sensors. IEEE Photonics Technology Letters, 2007, 19, 1341-1343.	2.5	38
32	Dynamics of optically switched bistable diode laser amplifiers. IEEE Journal of Quantum Electronics, 1987, 23, 303-308.	1.9	37
33	1.55-Î¼m InGaAsP-InP laser arrays with integrated-mode expanders fabricated using a single epitaxial growth. IEEE Journal of Selected Topics in Quantum Electronics, 1997, 3, 1332-1343.	2.9	36
34	Electroless remetallization of aluminum bond pads on CMOS driver chip for flip-chip attachment to vertical cavity surface emitting lasers (VCSEL's). IEEE Transactions on Components and Packaging Technologies, 1999, 22, 299-306.	1.3	36
35	Astrophotonic Spectrographs. Applied Sciences (Switzerland), 2019, 9, 290.	2.5	34
36	Low power transverse optical bistability near bound excitons in cadmium sulfide. Applied Physics Letters, 1984, 44, 574-576.	3.3	33

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37	Fabrication of organic-inorganic perovskite thin films for planar solar cells via pulsed laser deposition. AIP Advances, 2016, 6, 015001.	1.3	32
38	Increased sensitivity and parametric discrimination using higher order modes of etched-core fiber Bragg grating sensors. IEEE Photonics Technology Letters, 2006, 18, 178-180.	2.5	31
39	LIGHTNING network and systems architecture. Journal of Lightwave Technology, 1996, 14, 1371-1387.	4.6	30
40	Switching power dependence on detuning and current in bistable diode laser amplifiers. Applied Physics Letters, 1991, 58, 687-689.	3.3	29
41	Low power optical saturation of bound excitons with giant oscillator strength. Applied Physics Letters, 1983, 43, 742-744.	3.3	28
42	Controlled solder interdiffusion for high power semiconductor laser diode die bonding. IEEE Transactions on Advanced Packaging, 1997, 20, 141-145.	0.6	28
43	High-power broad-band superluminescent diode with low spectral modulation at 1.5-/spl mu/m wavelength. IEEE Photonics Technology Letters, 2000, 12, 783-785.	2.5	28
44	Realâ€time in situ ellipsometric control of antireflection coatings for semiconductor laser amplifiers using SiOx. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1993, 11, 2398-2406.	2.1	27
45	Smoothly wavelength-tunable picosecond pulse generation using a harmonically mode-locked fiber ring laser. Journal of Lightwave Technology, 2003, 21, 930-937.	4.6	27
46	Spectral characteristics of vertical-cavity surface-emitting lasers with strong external optical feedback. IEEE Photonics Technology Letters, 1995, 7, 739-741.	2.5	25
47	Dependence of lateral oxidation rate on thickness of AlAs layer of interest as a current aperture in vertical-cavity surface-emitting laser structures. Journal of Applied Physics, 1998, 84, 600-605.	2.5	25
48	Challenges to the concept of an intermediate band in InAs/GaAs quantum dot solar cells. Applied Physics Letters, 2013, 103, 141113.	3.3	25
49	New Process Development for Planar-Type CIC Tunneling Diodes. IEEE Electron Device Letters, 2010, 31, 809-811.	3.9	24
50	Collisionally induced coherent signals and collisional redistribution. Physical Review A, 1982, 26, 869-879.	2.5	23
51	Kinetics of growth of AlAs oxide in selectively oxidized vertical cavity surface emitting lasers. Journal of Applied Physics, 1997, 82, 4586-4589.	2.5	23
52	Highly coherent RF signal generation by heterodyne optical phase locking of external cavity semiconductor lasers. IEEE Photonics Technology Letters, 1998, 10, 719-721.	2.5	21
53	Semiconductor optical amplifier for CWDM operating over 1540-1620 nm. IEEE Photonics Technology Letters, 2005, 17, 980-982.	2.5	20
54	Geometry enhanced asymmetric rectifying tunneling diodes. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2010, 28, C6O50-C6O55.	1.2	20

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55	Addâ€“drop filter with complex waveguide Bragg grating and multimode interferometer operating on arbitrarily spaced channels. Optics Letters, 2018, 43, 6045.	3.3	20
56	Measurement of the damping dispersion of exciton polaritons in CdS. Physical Review Letters, 1987, 58, 1776-1779.	7.8	19
57	Polarization insensitive 1.55-Î¼m optical amplifier with GaAs delta-strained Ga/sub 0.47/In/sub 0.53/As quantum wells. IEEE Photonics Technology Letters, 1997, 9, 1340-1342.	2.5	19
58	Response surface study of inductively coupled plasma etching of GaAs/AlGaAs in BCl3/Cl2. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1999, 17, 52-55.	2.1	19
59	High Specificity Binding of Lectins to Carbohydrate-Functionalized Fiber Bragg Gratings: A New Model for Biosensing Applications. IEEE Journal of Selected Topics in Quantum Electronics, 2010, 16, 647-653.	2.9	19
60	Incident angle and polarization dependence of four-photon photoemission from tungsten. Optics Communications, 1979, 31, 334-339.	2.1	18
61	Collisionally triggered generation of a coherent signal. Physical Review A, 1981, 24, 1404-1408.	2.5	18
62	Real-time in situ monitoring of antireflection coatings for semiconductor laser amplifiers by ellipsometry. IEEE Photonics Technology Letters, 1992, 4, 991-993.	2.5	18
63	Observation of nearly degenerate and cavityâ€enhanced highly nondegenerate fourâ€wave mixing in semiconductor lasers. Applied Physics Letters, 1993, 62, 2757-2759.	3.3	18
64	Single-angled-facet laser diode for widely tunable external cavity semiconductor lasers with high spectral purity. Electronics Letters, 1997, 33, 1387.	1.0	18
65	Integrated optical dipole trap for cold neutral atoms with an optical waveguide coupler. New Journal of Physics, 2013, 15, 043010.	2.9	18
66	A nanowaveguide platform for collective atom-light interaction. Applied Physics Letters, 2015, 107, .	3.3	18
67	Ultrabroadband High Coupling Efficiency Fiber-to-Waveguide Coupler Using Si$_{3}$N$_{4}$ /SiO$_{2}$ Waveguides on Silicon. IEEE Photonics Journal, 2016, 8, 1-12.	2.0	18
68	High butt-coupling efficiency to single-mode fibers using a 1.55-Î¼m InGaAsP laser integrated with a tapered ridge mode transformer. IEEE Photonics Technology Letters, 1997, 9, 1472-1474.	2.5	17
69	Silicon nitride polarization beam splitter based on polarization-independent MMIs and apodized Bragg gratings. Optics Express, 2021, 29, 14476.	3.4	17
70	Etch Characteristics of Succinic Acid/Ammonia/Hydrogen Peroxide versus Aluminum Mole Fraction in AlGaAs. Journal of the Electrochemical Society, 1993, 140, L138-L139.	2.9	16
71	Compact mode expanded lasers using resonant coupling between a 1.55-Î¼m InGaAsP tapered active region and an underlying coupling waveguide. IEEE Photonics Technology Letters, 1998, 10, 1232-1234.	2.5	16
72	Optical hysteresis in fast transient experiments near the band gap of cadmium sulfide. Applied Physics Letters, 1984, 45, 1267-1269.	3.3	15

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73	Nearly degenerate four-wave mixing in Fabryâ€“Perot semiconductor lasers. Optics Letters, 1993, 18, 1337.	3.3	15
74	High-power high-gain monolithically integrated preamplifier/power amplifier. Electronics Letters, 1993, 29, 1981.	1.0	15
75	Measurement of the facet modal reflectivity spectrum in high quality semiconductor traveling wave amplifiers. Journal of Lightwave Technology, 1995, 13, 430-433.	4.6	15
76	1.9-W quasi-CW from a near-diffraction-limited 1.55-Î¼m InGaAsP-InP tapered laser. IEEE Photonics Technology Letters, 1998, 10, 1091-1093.	2.5	15
77	Belowâ€bandgap absorption in InAs/GaAs selfâ€assembled quantum dot solar cells. Progress in Photovoltaics: Research and Applications, 2015, 23, 997-1002.	8.1	15
78	High Short-Circuit Current Density in CIS Solar Cells by a Simple Two-Step Selenization Process With a KF Postdeposition Treatment. IEEE Journal of Photovoltaics, 2017, 7, 676-683.	2.5	15
79	Dual-channel-spacing phased-array waveguide grating multi/demultiplexers. IEEE Photonics Technology Letters, 1996, 8, 1501-1503.	2.5	14
80	Compact low-loss vertical resonant mode coupling between two well-confined waveguides. Electronics Letters, 1999, 35, 1195.	1.0	14
81	Implementation of E-Beam Proximity Effect Correction using linear programming techniques for the fabrication of asymmetric bow-tie antennas. Solid-State Electronics, 2010, 54, 1211-1215.	1.4	14
82	Gain and Losses and Room-Temperature Operation in Interband Cascade Lasers. IEEE Photonics Journal, 2012, 4, 133-142.	2.0	13
83	High-Efficiency Perovskite Solar Cell Based on Sequential Doping of PTAA. IEEE Journal of Photovoltaics, 2019, 9, 1025-1030.	2.5	13
84	On-Chip Fabryâ€“Perot Bragg Grating Cavity Enhanced Four-Wave Mixing. ACS Photonics, 2020, 7, 1009-1015.	6.6	13
85	Extremely Low Switching Energy Optical Bistable Devices. Optical Engineering, 1986, 25, 252219.	1.0	12
86	Nearly degenerate fourâ€wave mixing in a verticalâ€cavity surfaceâ€emitting laser. Applied Physics Letters, 1994, 65, 1334-1336.	3.3	12
87	A method of highly efficient hydrolyzation oxidation of IIIâ€“V semiconductor lattice matched to indium phosphide. Applied Physics Letters, 1999, 75, 1264-1266.	3.3	12
88	Dependence of the light-current characteristics of 1.55-Î¼m broad-area lasers on different p-doping profiles. IEEE Photonics Technology Letters, 2000, 12, 251-253.	2.5	12
89	High-power, high-temperature operation of GaInAsSb-AlGaAsSb ridge-waveguide lasers emitting at 1.9 μm. IEEE Photonics Technology Letters, 1995, 7, 281-283.	2.5	11
90	Compact mode expanders using resonant coupling between a tapered active region and an underlying coupling waveguide. IEEE Photonics Technology Letters, 1998, 10, 203-205.	2.5	11

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91	GaAs-AlGaAs QW diluted waveguide laser with low-loss, alignment-tolerant coupling to a single-mode fiber. IEEE Photonics Technology Letters, 1996, 8, 1130-1132.	2.5	10
92	Molecular beam epitaxial growth of vertical cavity surface emitting lasers with digital alloys and digital gradings. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2000, 18, 1619.	1.6	10
93	A 2 x 2 crosspoint switch fabricated on the passive active resonant coupler (PARC) platform. IEEE Photonics Technology Letters, 2001, 13, 203-205.	2.5	10
94	Enhanced carrier collection efficiency and reduced quantum state absorption by electron doping in self-assembled quantum dot solar cells. Applied Physics Letters, 2015, 106, .	3.3	10
95	Etch-mask of pyrolytic-photoresist thin-film for self-aligned fabrication of smooth and deep faceted three-dimensional microstructures. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 1996, 14, 3650.	1.6	9
96	Polarization-independent waveguide modulators using 1.57-Î¼m /spl delta/-strained InGaAs-InGaAsP quantum wells. IEEE Photonics Technology Letters, 1999, 11, 554-556.	2.5	9
97	A novel method for fabrication of a hybrid optoelectronic packaging platform utilizing passive-active alignment. IEEE Photonics Technology Letters, 2003, 15, 299-301.	2.5	9
98	Real-Time Monitoring of Siloxane Monolayer Film Formation on Silica Using a Fiber Bragg Grating. Current Analytical Chemistry, 2008, 4, 356-361.	1.2	9
99	Non-resonant below-bandgap two-photon absorption in quantum dot solar cells. Applied Physics Letters, 2015, 106, .	3.3	9
100	Silicon Nitride/Silicon Dioxide Echelle Grating Spectrometer for Operation Near 1.55 Î¼m. IEEE Photonics Journal, 2018, 10, 1-7.	2.0	9
101	Detuned loading effect and high-speed modulation of fiber grating semiconductor lasers. IEEE Photonics Technology Letters, 1998, 10, 1784-1786.	2.5	8
102	High saturation intensity in InAs/GaAs quantum dot solar cells and impact on the realization of the intermediate band concept at room-temperature. Applied Physics Letters, 2017, 110, 061107.	3.3	8
103	A comparative study of subcell optoelectronic properties and energy losses in multijunction solar cells. Solar Energy Materials and Solar Cells, 2022, 236, 111543.	6.2	8
104	Dependence of the linewidth enhancement factor on the number of compressively strained quantum well in lasers. IEEE Photonics Technology Letters, 1997, 9, 1081-1083.	2.5	7
105	Alignment-tolerant structures for ease of optoelectronic packaging. , 1999, 3626, 128.		7
106	Lossless 1 x 2 optical switch monolithically integrated on a passive active resonant coupler (PARC) platform. IEEE Photonics Technology Letters, 2000, 12, 840-842.	2.5	7
107	Integrated Arbitrary Filter With Spiral Gratings: Design and Characterization. Journal of Lightwave Technology, 2020, 38, 4454-4461.	4.6	7
108	High power diffraction limited output from a tapered laser operating at 1.55 Î¼m. , 0, , .		6

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109	Solid source molecular beam epitaxy of low threshold 1.55 Î¼m wavelength GaInAs/GaInAsP/InP semiconductor lasers. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 1996, 14, 2753.	1.6	6
110	Design and fabrication of thin film resistive heaters for hybrid optoelectronic packaging. IEEE Transactions on Advanced Packaging, 2002, 25, 495-502.	1.6	6
111	Formation of CuInSe2 absorber by rapid thermal processing of electron-beam evaporated stacked elemental layers. Journal of Materials Science: Materials in Electronics, 2012, 23, 964-971.	2.2	6
112	Comprehensive study of antireflection coatings for mid-infrared lasers. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2016, 34, .	2.1	6
113	High-Q nanobeam cavities on a silicon nitride platform enabled by slow light. APL Photonics, 2020, 5, 066101.	5.7	6
114	Subnanosecond optically addressable generalized optical crossbar switch with an aggregate throughput rate of 4.2 Gbit/s. Applied Physics Letters, 1993, 62, 2185-2187.	3.3	5
115	Passive active resonant coupler (PARC) platform with mode expander. IEEE Photonics Technology Letters, 2000, 12, 1025-1027.	2.5	5
116	Optical biosensors based on etched fiber Bragg gratings. , 2005, , .		5
117	A Mid-IR Antenna Integrated with a Geometrically Asymmetrical Metal-Insulator-Metal Rectifying Diode. , 2013, , 163-188.		5
118	Investigation of backward cladding-mode coupling in Bragg gratings implemented on a Si3N4 waveguide platform. Journal of the Optical Society of America B: Optical Physics, 2019, 36, 3442.	2.1	5
119	A reliable die attach method for high power semiconductor lasers and optical amplifiers. , 0, , .		4
120	Practical approach to design and fabrication of antireflection coatings for semiconductor optical amplifiers. IEEE Photonics Technology Letters, 1996, 8, 509-511.	2.5	4
121	Solid source MBE growth and regrowth of 1.55 Î¼m wavelength ridge lasers. Journal of Crystal Growth, 1997, 175-176, 46-51.	1.5	4
122	Programmable high-bit-rate pattern generator with a segmented semiconductor optical amplifier. Optics Letters, 1999, 24, 324.	3.3	4
123	Lithography, plasmonics, and subwavelength aperture exposure technology. Journal of Vacuum Science & Technology B, 2007, 25, 2471.	1.3	4
124	Covalent Attachment of Carbohydrate Derivatives to an Evanescent Wave Fiber Bragg Grating Biosensor. Journal of Sensors, 2009, 2009, 1-7.	1.1	4
125	A new process for the fabrication of planar antenna coupled Niâ€“NiOxâ€“Ni tunnel junction devices. Microelectronic Engineering, 2012, 98, 329-333.	2.4	4
126	Selective area growth of GaN nanowires on Si(1â€¯1â€¯1) substrate with Ti masks by molecular beam epitaxy. Journal of Crystal Growth, 2019, 524, 125181.	1.5	4

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127	Wavelength conversion using a T-gate laser. IEEE Photonics Technology Letters, 1996, 8, 52-54.	2.5	3
128	A novel structure of delta-strained quantum well for polarization insensitive semiconductor devices at 1.55 Î¼m. , 0, , .		3
129	Wet-chemistry surface treatment for dark-current reduction that preserves lateral dimensions of reactive ion etched Ga/sub 0.47/In/sub 0.53/As p-i-n diode photodetectors. IEEE Photonics Technology Letters, 1997, 9, 490-492.	2.5	3
130	Experimental confirmation of phase relationships of multimode interference splitters using a shearing-type near-field Sagnac interferometer. IEEE Photonics Technology Letters, 1997, 9, 937-939.	2.5	3
131	‹title›Dependence of the lateral oxidation rate of an AlAs layer used as a current aperture in vertical-cavity surface-emitting lasers on different physical parameters‹/title›. , 1998, 3286, 103.		3
132	Optical characterization of refractive index sensors based on planar waveguide Fabryâ€“PÃ©rot Bragg grating cavity. Journal of Nanophotonics, 2013, 7, 073792.	1.0	3
133	Spectral dependence of carrier lifetimes in silicon for photovoltaic applications. Journal of Applied Physics, 2016, 120, .	2.5	3
134	Development of high-resolution arrayed waveguide grating spectrometers for astronomical applications: first results. , 2016, , .		3
135	Optical spectrum sidebands of a vertical-cavity surface-emitting laser. , 0, , .		2
136	Single-angled-facet laser diode for tunable external cavity lasers. , 1995, , .		2
137	980-nm semiconductor optical preamplifier direct-detection receiver. , 1996, , .		2
138	Optical generation of a mHz linewidth microwave signal with a discriminator-aided phase-locked loop using two semiconductor lasers. , 0, , .		2
139	A Novel Surface Preparation and Post-Etch Removal Technique for InGaAs Sidewalls. Materials Research Society Symposia Proceedings, 1997, 477, 317.	0.1	2
140	High-sensitivity semiconductor optically preamplified Q-PPM receiver. IEEE Photonics Technology Letters, 1997, 9, 1394-1396.	2.5	2
141	Introduction to the issue on alignment tolerant structures for ease of optoelectronic packaging. IEEE Journal of Selected Topics in Quantum Electronics, 1997, 3, 1306-1307.	2.9	2
142	Polarization-independent waveguide modulators using 1.57 Î¼m-strained InGaAs-InGaAsP quantum wells. , 0, , .		2
143	1 Gb/s VCSEL/CMOS flip-chip 2-D-array interconnects and associated diffractive optics. , 0, , .		2
144	Accelerated and reproducible oxidation of strain-compensated short-period superlattice structures for incorporation in InP based devices. Applied Physics Letters, 2001, 78, 64-66.	3.3	2

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145	Incoherent Optical Frequency Domain Interferometry for Avionics. , 2006, , .		2
146	All-Optical Header Recognition Using a Semiconductor Optical Amplifier Switch Matrix. , 2007, , .		2
147	Incoherent optical frequency domain reflectometry for health monitoring of avionics fiber optics networks. , 2008, , .		2
148	Carrier leakage in interband cascade lasers. , 2012, , .		2
149	GaAs/InAs quantum dot high efficiency solar cell. , 2013, , .		2
150	A 2Ã—2 Cross-Point Switch fabricated on the Passive Active Resonant Coupler (PARC) Platform. , 2000, , .		2
151	A High-speed Smart Pixel Array using VCSEL based Integrated Optoelectronics. , 1999, , .		2
152	On-Chip High Extinction Ratio Single-Stage Mach-Zehnder Interferometer Based on Multimode Interferometer. IEEE Photonics Journal, 2022, 14, 1-6.	2.0	2
153	Diode laser based optical logic devices. Proceedings of SPIE, 1990, , .	0.8	1
154	Etch Resistance Of Focused-ion-beam-implanted SiO/sub 2/. , 0, , .		1
155	Filter-free polarization insensitive wavelength conversion using a T-gate laser. , 0, , .		1
156	A rapid flip chip die bonding method for semiconductor laser diode arrays. , 0, , .		1
157	Corrections to "Optical Generation of a Megahertz-Linewidth Microwave Signal Using Semiconductor Lasers and a Discriminator-Aided Phase-Locked Loop". IEEE Transactions on Microwave Theory and Techniques, 1997, 45, 1811-1811.	4.6	1
158	{7 6 6} Oriented V-groove surfaces on Br2â€“CH3OH etched (1 0 0) GaAs wafers. Journal of Materials Science: Materials in Electronics, 1997, 8, 109-113.	2.2	1
159	A low-cost electroless plating method for producing flip-chip bondable and wire-bondable circuit pads for smart pixel application. , 0, , .		1
160	High power near diffraction limited external cavity single-angled facet tapered lasers, tunable from 1.505 to 1.565 Î¼m and 0.795 to 0.855 Î¼m with high spectral purity. , 0, , .		1
161	>90mW CW Superluminescent Output Power from Single-Angled Facet-Ridge Waveguide Diode at 1.5 Âµm. , 1999, , 5.		1
162	Passive active resonant coupler platform with tapered passive waveguide. Electronics Letters, 2000, 36, 1153.	1.0	1

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163	Integrated 1/spl times/2 loss-less Y-junction splitter on a passive active resonant coupler platform. , 2000, , .		1
164	Polarisation independent -strained InGaAs/InGaAsP quantum well waveguide modulator. Electronics Letters, 2000, 36, 164.	1.0	1
165	Passive active resonant coupler (PARC) platform with mode expander. , 2000, , .		1
166	Optical pattern recognition by use of a segmented semiconductor optical amplifier. Optics Letters, 2001, 26, 1248.	3.3	1
167	A stable, dispersion-tuned harmonically mode-locked fiber ring laser using a SOA. , 0, , .		1
168	Fabrication of a thin film asymmetric tunneling diode using geometric field enhancement. , 2009, , .		1
169	Fabrication of Cu(In,Ga)Se2 Thin Film by Selenization of Stacked Elemental Layer with Solid Selenium. ECS Transactions, 2011, 41, 241-246.	0.5	1
170	Urbach tail in intermediate band InAs/GaAs quantum dot solar cells. , 2014, , .		1
171	Modified Shockley-Queisser limit for quantum dot solar cells. , 2015, , .		1
172	Effect of Carrier Leakage on Optimal AR Coatings in Midinfrared Interband Cascade Lasers. IEEE Photonics Journal, 2015, 7, 1-11.	2.0	1
173	Ultra-broadband High Coupling Efficiency Using a Si<inf>3</inf>N<inf>4</inf>/SiO<inf>2</inf> waveguide on silicon. , 2016, , .		1
174	Introduction to the Special Issue on Ultralow Loss Planar Waveguides and Their Applications. IEEE Journal of Selected Topics in Quantum Electronics, 2018, 24, 1-3.	2.9	1
175	Towards a multi-input astrophotonic AWG spectrograph. , 2018, , .		1
176	Taper Length Variation in Passive Active Resonant Coupler (PARC) Platform. , 2000, , .		1
177	Near-Ideal Diffraction-Limited Beam from a 970 nm High-Power Angled-Facet Tapered Semiconductor Optical Amplifier. , 1995, , .		1
178	Imaging and Hyper-Spectral Behavior of Flip-Chip CMOS-Driven 956 nm Back-Emitting Vertical-Cavity Surface-Emitting Laser Array. , 1999, , .		1
179	An Efficient Approach to Characterize Low Loss Waveguides Using Bragg Gratings. , 2018, , .		1
180	Detuning Dependance Of Switching In Bistable Diode Laser Amplifiers. , 0, , .		0

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181	Demonstration Of Cascadability And Spectral Bistability In Bistable Diode Laser Amplifiers. , 1990, , .		0
182	Photonic Switching using Bistable Diode Laser Amplifiers. , 0, , .		0
183	Observation of dynamic frequency chirp in dispersive nonlinear semiconductor laser amplifiers. Applied Physics Letters, 1993, 63, 2469-2471.	3.3	0
184	Angled-facet high-power diffraction-limited tapered semiconductor amplifier. , 0, , .		0
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