Diego PÃ©rez Galacho

List of Publications by Year
in descending order

76	1,050	567247 15	434170 31
papers	citations	h-index	g-index

76	76	76	1085
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Modeling amplified arbitrary filtered Amplified Heterodyne Microwave Photonic links. Optics Express, 2022, 30, 6519-6530.	3.4	0
2	Frequency Chirp Characterization of Silicon Ring Resonator Modulators. IEEE Photonics Technology Letters, 2022, 34, 653-656.	2.5	1
3	Dual-band fiber-chip grating coupler in a 300 mm silicon-on-insulator platform and 193 nm deep-UV lithography. Optics Letters, 2021, 46, 617.	3.3	12
4	Silicon photonics phase and intensity modulators for flat frequency comb generation. Photonics Research, 2021, 9, 2068.	7.0	2
5	Experimental Demonstration of Extended 5G Digital Fronthaul Over a Partially-Disaggregated WDM/SDM Network. IEEE Journal on Selected Areas in Communications, 2021, 39, 2804-2815.	14.0	3
6	Frequency-tuning dual-comb spectroscopy using silicon Mach-Zehnder modulators. Optics Express, 2020, 28, 10888.	3.4	5
7	Ultra-wideband dual-polarization silicon nitride power splitter based on modal engineered slot waveguides. Optics Letters, 2020, 45, 527.	3.3	6
8	Silicon subwavelength modal Bragg grating filters with narrow bandwidth and high optical rejection. Optics Letters, 2020, 45, 5784.	3.3	12
9	Heterodyne detection for the measurement of electro-optical frequency combs generated with a silicon Mach-Zehnder modulator. , 2020, , .		0
10	Silicon chip-integrated fiber couplers with sub-decibel loss. , 2020, , .		1
11	Dual comb spectroscopy using silicon electro-optical modulators. , 2020, , .		0
12	Building blocks of silicon photonics. Semiconductors and Semimetals, 2019, 101, 1-41.	0.7	3
13	Coherencyâ€Broken Bragg Filters: Overcoming Onâ€Chip Rejection Limitations. Laser and Photonics Reviews, 2019, 13, 1800226.	8.7	36
14	Fronthaul links based on Analog Radio over Fiber. , 2019, , .		2
15	High-Capacity 5G Fronthaul Networks Based on Optical Space Division Multiplexing. IEEE Transactions on Broadcasting, 2019, 65, 434-443.	3.2	49
16	Diffraction-less propagation beyond the sub-wavelength regime: a new type of nanophotonic waveguide. Scientific Reports, 2019, 9, 5347.	3.3	10
17	On the Use of Microwave Photonics Techniques for Novel Sensing Applications. , 2019, , .		2
18	Analog Radio over Fiber Links for Future 5G Radio Access Networks. , 2019, , .		11

#	ARTICLE	IF	CITATIONS
19	DAC-less PAM-4 generation in the O-band using a silicon Mach-Zehnder modulator. Optics Express, 2019, 27, 9740.	3.4	15
20	SiGe-enhanced Si capacitive modulator integration in a 300 mm silicon photonics platform for low power consumption. Optics Express, 2019, 27, 17701.	3.4	9
21	Dual-polarization silicon nitride Bragg filters with low thermal sensitivity. Optics Letters, 2019, 44, 4578.	3.3	11
22	Generation of O-band PAM-4 signal using a silicon modulator driven by two binary sequences. , 2019, , .		0
23	Enhanced performance of integrated silicon nanophotonic devices engineered by sub-wavelength grating structures. , 2019, , .		1
24	Generation of mmWave 5G Signals Using Microwave Photonics. , 2018, , .		0
25	Fast linear electro-optic effect in a centrosymmetric semiconductor. Communications Physics, 2018, 1, .	5.3	28
26	Silicon Modulators for the Generation of Advanced Modulation Formats. , 2018, , .		0
27	Analog Optical Links for 5G Fronthaul Networks. , 2018, , .		1
28	QPSK Modulation in the O-Band Using a Single Dual-Drive Machâ€“Zehnder Silicon Modulator. Journal of Lightwave Technology, 2018, 36, 3935-3940.	4.6	8
29	Subwavelength engineering and asymmetry: two efficient tools for sub-nanometer-bandwidth silicon Bragg filters. Optics Letters, 2018, 43, 3208.	3.3	30
30	Integrated SiN on SOI dual photonic devices for advanced datacom solutions. , 2018, , .		14
31	O-band Energy-efficient Broadcast-friendly Interconnection Scheme with SiPho Mach-Zehnder Modulator (MZM) & Arrayed Waveguide Grating Router (AWGR). , 2018, , .		14
32	Advanced modulation format using silicon modulators in the O-band. , 2018, , .		0
33	Silicon photonic micro-ring resonator dedicated to an optoelectronic oscillator loop. , 2018, , .		0
34	Low loss grating coupled optical interfaces for large volume fabrication with deep ultraviolet optical lithography. , 2018, , .		0
35	Mode converters based on periodically perturbed waveguides for mode division multiplexing. , 2018, , .		1
36	Subwavelength Si photonics for near- and mid-infrared applications (Conference Presentation). , 2017, , .		0

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37	Simplified model enabling optimization of silicon modulators. , 2017, , .		1
38	Developments in 300mm silicon photonics using traditional CMOS fabrication methods and materials. , 2017, , .		11
39	20-Gbps QPSK Signal Generation Using a Silicon Dual-Drive Mach-Zehnder Modulator Operating in the O-Band. , 2017, , .		1
40	High-performance sub-wavelength engineered silicon Bragg-rejection filters. , 2017, , .		0
41	Design and integration of an O-band silicon nitride AWG for CWDM applications. , 2017, , .		8
42	Bragg grating filter for suspended silicon waveguides. , 2017, , .		0
43	25 Gbit/s O-Band push-pull Mach-Zehnder silicon modulator for datacom applications. , 2017, , .		0
44	Low voltage 25Gbps silicon Mach-Zehnder modulator in the O-band. Optics Express, 2017, 25, 11217.	3.4	33
45	L-shaped fiber-chip grating couplers with high directionality and low reflectivity fabricated with deep-UV lithography. Optics Letters, 2017, 42, 3439.	3.3	77
46	Design of mid-IR integrated cavity based on Ge-rich graded SiGe waveguides. , 2017, , .		0
47	Optical pump-rejection filter based on silicon sub-wavelength engineered photonic structures. Optics Letters, 2017, 42, 1468.	3.3	45
48	Germanium-on-silicon mid-infrared grating couplers with low-reflectivity inverse taper excitation. Optics Letters, 2016, 41, 4324.	3.3	43
49	Simplified modeling and optimization of silicon modulators based on free-carrier plasma dispersion effect. Optics Express, 2016, 24, 26332.	3.4	33
50	High-speed coherent silicon modulator module using photonic integrated circuits: from circuit design to packaged module. , 2016, , .		1
51	Design of integrated capacitive modulators for 56Gbps operation. , 2016, , .		4
52	Highly efficient silicon capacitive modulators based on a vertical oxide layer. , 2016, , .		0
53	Silicon modulator based on interleaved capacitors in subwavelength grating waveguides. , 2016, , .		5
54	Integrated mode converter for mode division multiplexing. , 2016, , .		1

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55	Slow light IIIâˆ’V on silicon hybrid modulator. , 2016, , .		0
56	DAPHNE silicon photonics technological platform for research and development on WDM applications. , 2016, , .		8
57	Sharp bends and Mach-Zehnder interferometer based on Ge-rich-SiGe waveguides on SiGe graded buffer. Optics Express, 2015, 23, 30821.	3.4	15
58	Comparison among Silicon modulators based on Free-Carrier Plasma Dispersion Effect. , 2015, , .		1
59	Broadband Add/Drop Mode Division Multiplexer based on a Mach-Zehnder interferometer. , 2015, , .		1
60	Mode filtering in periodic waveguides by means of band gap engineering. , 2015, , .		2
61	Add/Drop Mode-Division Multiplexer Based on a Machâ€“Zehnder Interferometer and Periodic Waveguides. IEEE Photonics Journal, 2015, 7, 1-7.	2.0	15
62	40Gbit/s silicon ring resonator-based modulator fabricated on 300mm SOI wafers. , 2014, , .		0
63	Modeling of PN interleaved phase shifters for high speed silicon modulators. , 2014, , .		2
64	Monolithic integrated InP receiver chip for coherent phase sensitive detection in the C- and L-band for colorless WDM applications. , 2014, , .		2
65	Polarization-beam-splitter-less integrated dual-polarization coherent receiver. Optics Letters, 2014, 39, 4400.	3.3	6
66	Evanescent field waveguide sensing with subwavelength grating structures in silicon-on-insulator. Optics Letters, 2014, 39, 4442.	3.3	143
67	Subwavelength metastructures for dispersion engineering in planar waveguide devices. , 2014, , .		0
68	Integrated Polarization Beam Splitter for 100/400 GE Polarization Multiplexed Coherent Optical Communications. Journal of Lightwave Technology, 2014, 32, 361-368.	4.6	27
69	A 40 Gbit/s optical link on a 300-mm silicon platform. Optics Express, 2014, 22, 6674.	3.4	39
70	56Gbaud DP-QPSK receiver module with a monolithic integrated PBS and 90° hybrid InP chip. , 2014, , .		3
71	SWG dispersion engineering for ultra-broadband photonic devices. , 2013, , .		0
72	An ultraâ€compact multimode interference coupler with a subwavelength grating slot. Laser and Photonics Reviews, 2013, 7, L12.	8.7	29

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73	Wavelength independent multimode interference coupler. Optics Express, 2013, 21, 7033.	3.4	128
74	Integrated polarization beam splitter with relaxed fabrication tolerances. Optics Express, 2013, 21, 14146.	3.4	77
75	Re-inventing multimode interference couplers using subwavelength gratings. , 2013, , .		0
76	New concepts in silicon component design using subwavelength structures. , 2012, , .		2