

# F Y Gardes

## List of Publications by Year in descending order

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Version: 2024-02-01

80  
papers

3,772  
citations

331670

21  
h-index

330143

37  
g-index

81  
all docs

81  
docs citations

81  
times ranked

3673  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mid-Index Silicon Nitride Devices for Enhanced Linear and Non-Linear Photonic Functionalities. , 2019, , .		0
2	Mid-Index Silicon Nitride Devices for Enhanced Linear and Non-Linear Photonic Functionalities. , 2019, , .		0
3	Silicon-on-insulator free-carrier injection modulators for the mid-infrared. Optics Letters, 2019, 44, 915.	3.3	26
4	Intermodal frequency generation in silicon-rich silicon nitride waveguides. Photonics Research, 2019, 7, 615.	7.0	19
5	High-speed Si/GeSi hetero-structure Electro Absorption Modulator. Optics Express, 2018, 26, 6663.	3.4	56
6	Group IV mid-infrared photonics [Invited]. Optical Materials Express, 2018, 8, 2276.	3.0	34
7	Si-rich Silicon Nitride for Nonlinear Signal Processing Applications. Scientific Reports, 2017, 7, 22.	3.3	111
8	Silicon and germanium mid-infrared photonics. Proceedings of SPIE, 2016, , .	0.8	1
9	Silicon photonics: some remaining challenges. Proceedings of SPIE, 2016, , .	0.8	0
10	Scattering of a plasmonic nanoantenna embedded in a silicon waveguide. Optics Express, 2015, 23, 28108.	3.4	23
11	Grating coupled low loss Ge-on-Si waveguides and multimode interferometers for the mid-infrared. , 2015, , .		3
12	Ge-on-Si Plasma-Enhanced Chemical Vapor Deposition for Low-Cost Photodetectors. IEEE Photonics Journal, 2015, 7, 1-8.	2.0	16
13	Angled multimode interferometer for bidirectional wavelength division (de)multiplexing. Royal Society Open Science, 2015, 2, 150270.	2.4	4
14	Group IV mid-infrared photonics. , 2015, , .		0
15	Facilitating an integrated Silicon Photonics platform. , 2015, , .		0
16	Devices for an integrated Silicon Photonics platform. , 2015, , .		0
17	Planar surface implanted diffractive grating couplers in SOI. Optics Express, 2014, 22, 1077.	3.4	26
18	The evolution of angled MMI structure on the SOI platform. , 2014, , .		1

#	ARTICLE	IF	CITATIONS
19	Recent results in silicon photonics at the University of Southampton. , 2014, , .		0
20	Silicon on insulator optical modulators for integration in photonic optical circuits. Proceedings of SPIE, 2014, , .	0.8	0
21	Silicon Photonic devices for the near- and the mid-infrared wavelength ranges. , 2014, , .		0
22	Locally Erasable Couplers for Optical Device Testing in Silicon on Insulator. Journal of Lightwave Technology, 2014, 32, 2248-2253.	4.6	26
23	Erasable diffractive grating couplers in silicon on insulator for wafer scale testing. , 2014, , .		1
24	A robust and fabrication tolerant (de)multiplexer on the SOI platform. , 2014, , .		0
25	Temporary Grating Coupler Structures Using Localised Refractive Index Engineering. , 2014, , .		0
26	Chirp characterization of a single-arm asymmetric silicon carrier depletion modulator. , 2013, , .		0
27	Integration of high performance silicon optical modulators. , 2013, , .		0
28	Interleaved angled MMI CWDM structure on the SOI platform. , 2013, , .		3
29	Modulator integration in high-performance BiCMOS. , 2013, , .		1
30	Optical modulation using the silicon platform. Proceedings of SPIE, 2013, , .	0.8	0
31	Silicon photonic devices and platforms for the mid-infrared. Optical Materials Express, 2013, 3, 1205.	3.0	107
32	Coarse wavelength division (de)multiplexer using an interleaved angled multimode interferometer structure. Applied Physics Letters, 2013, 102, .	3.3	34
33	Silicon CMOS photonics platform for enabling high-speed DQPSK transceivers. , 2013, , .		1
34	Self-aligned silicon ring resonator optical modulator with focused ion beam error correction. Journal of the Optical Society of America B: Optical Physics, 2013, 30, 445.	2.1	13
35	A Photonic Microwave Filter Based on an Asymmetric Silicon Mach-Zehnder Modulator. IEEE Photonics Journal, 2013, 5, 5501006-5501006.	2.0	5
36	Silicon optical modulators for integrated transceivers. , 2013, , .		0

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37	III-V on Silicon Transmitters. , 2013, , .		3
38	Options for Silicon Based Modulators. , 2013, , .		0
39	Group IV photonic devices for the mid-infrared. Proceedings of SPIE, 2012, , .	0.8	1
40	High-contrast 40 Gb/s operation of a 500-µm long silicon carrier-depletion slow wave modulator. Optics Letters, 2012, 37, 3504.	3.3	49
41	Silicon slow-light-based photonic mixer for microwave-frequency conversion applications. Optics Letters, 2012, 37, 1721.	3.3	8
42	Slow light enhanced carrier depletion modulators with 1V drive voltage. Proceedings of SPIE, 2012, , .	0.8	1
43	High Speed Silicon based optical modulators. , 2012, , .		0
44	Slow-Light-Enhanced Silicon Optical Modulators Under Low-Drive-Voltage Operation. IEEE Photonics Journal, 2012, 4, 1306-1315.	2.0	27
45	Integrated hybrid III-V/Si laser and transmitter. , 2012, , .		7
46	An alignment tolerant high speed ring resonator based silicon optical modulator. , 2012, , .		2
47	Silicon-based electro-optic modulators for linear and nonlinear radio-over-fiber applications. , 2012, , .		7
48	High performance silicon optical modulators. Proceedings of SPIE, 2012, , .	0.8	0
49	Optical absorption in highly strained Ge/SiGe quantum wells: The role of "â†" scattering. Journal of Applied Physics, 2012, 112, 123105.	2.5	7
50	10 Gb/s Integrated Tunable Hybrid III-V/Si Laser and Silicon Mach-Zehnder Modulator. , 2012, , .		17
51	High data rate silicon optical modulator with self-aligned fabrication process. , 2012, , .		0
52	Silicon optical modulators for high data rate applications. , 2011, , .		0
53	High-speed silicon optical modulators. , 2011, , .		0
54	High contrast 40Gbit/s optical modulation in silicon. Optics Express, 2011, 19, 11507.	3.4	310

#	ARTICLE	IF	CITATIONS
55	40 Gb/s silicon photonics modulator for TE and TM polarisations. Optics Express, 2011, 19, 11804.	3.4	157
56	High speed silicon electro-optical modulators enhanced via slow light propagation. Optics Express, 2011, 19, 20876.	3.4	69
57	Modulation of the absorption coefficient at 13 $\mu$ m in Ge/SiGe multiple quantum well heterostructures on silicon. Optics Letters, 2011, 36, 4158.	3.3	55
58	Wavelength division (de)multiplexing based on dispersive self-imaging. Optics Letters, 2011, 36, 4488.	3.3	55
59	40 Gb/s high-speed silicon modulator for TE and TM polarisation. Proceedings of SPIE, 2011, , .	0.8	1
60	Silicon-based optical modulation within the HELIOS project. Proceedings of SPIE, 2011, , .	0.8	2
61	MMI for wavelength filtering and WDM on the SOI platform. , 2011, , .		1
62	40 Gb/s Silicon optical modulators. , 2011, , .		1
63	High Speed Silicon optical modulators. , 2011, , .		0
64	Modulators and photodetectors developed in the framework of the European HELIOS project. Proceedings of SPIE, 2010, , .	0.8	1
65	Silicon optical modulators. Nature Photonics, 2010, 4, 518-526.	31.4	1,942
66	Undertaking research in the field of silicon optical modulators in the framework of the Helios and UK silicon photonics projects. , 2010, , .		0
67	High speed silicon optical modulator with self-aligned fabrication process. , 2010, , .		2
68	Silicon photonics: optical modulators. Proceedings of SPIE, 2010, , .	0.8	1
69	High speed silicon optical modulator with self aligned fabrication process. Optics Express, 2010, 18, 19064.	3.4	91
70	Recent developments in silicon optical modulators. , 2010, , .		1
71	Silicon photonics at the University of Surrey. , 2009, , .		1
72	High-speed modulation of a compact silicon ring resonator based on a reverse-biased pn diode. Optics Express, 2009, 17, 21986.	3.4	162

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73	Evolution of optical modulation using majority carrier plasma dispersion effect in SOI. , 2008, , .		2
74	Waveguides and devices in silicon photonics: polarization independence. , 2007, , .		5
75	Micrometer size polarization independent depletion-type photonic modulator in Silicon On Insulator. Optics Express, 2007, 15, 5879.	3.4	22
76	Characteristics of rib waveguide racetrack resonators in SOI. , 2006, 6183, 116.		7
77	Silicon Photonics: Are Smaller Devices Always Better?. Japanese Journal of Applied Physics, 2006, 45, 6609-6615.	1.5	6
78	Tailoring the Response of Silicon Photonics Devices. , 2006, , .		0
79	A sub-micron depletion-type photonic modulator in Silicon On Insulator. Optics Express, 2005, 13, 8845.	3.4	221
80	Optical Modulators in Silicon Photonic Circuits. , 0, , 95-145.		2