

# 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	Silicon optical modulators. Nature Photonics, 2010, 4, 518-526.	31.4	1,942
2	High contrast 40Gbit/s optical modulation in silicon. Optics Express, 2011, 19, 11507.	3.4	310
3	A sub-micron depletion-type photonic modulator in Silicon On Insulator. Optics Express, 2005, 13, 8845.	3.4	221
4	High-speed modulation of a compact silicon ring resonator based on a reverse-biased pn diode. Optics Express, 2009, 17, 21986.	3.4	162
5	40 Gb/s silicon photonics modulator for TE and TM polarisations. Optics Express, 2011, 19, 11804.	3.4	157
6	Si-rich Silicon Nitride for Nonlinear Signal Processing Applications. Scientific Reports, 2017, 7, 22.	3.3	111
7	Silicon photonic devices and platforms for the mid-infrared. Optical Materials Express, 2013, 3, 1205.	3.0	107
8	High speed silicon optical modulator with self aligned fabrication process. Optics Express, 2010, 18, 19064.	3.4	91
9	High speed silicon electro-optical modulators enhanced via slow light propagation. Optics Express, 2011, 19, 20876.	3.4	69
10	High-speed Si/GeSi hetero-structure Electro Absorption Modulator. Optics Express, 2018, 26, 6663.	3.4	56
11	Modulation of the absorption coefficient at $13\frac{1}{4}\mu\text{m}$ in Ge/SiGe multiple quantum well heterostructures on silicon. Optics Letters, 2011, 36, 4158.	3.3	55
12	Wavelength division (de)multiplexing based on dispersive self-imaging. Optics Letters, 2011, 36, 4488.	3.3	55
13	High-contrast 40 Gb/s operation of a $500\frac{1}{4}\mu\text{m}$ long silicon carrier-depletion slow wave modulator. Optics Letters, 2012, 37, 3504.	3.3	49
14	Coarse wavelength division (de)multiplexer using an interleaved angled multimode interferometer structure. Applied Physics Letters, 2013, 102, .	3.3	34
15	Group IV mid-infrared photonics [Invited]. Optical Materials Express, 2018, 8, 2276.	3.0	34
16	Slow-Light-Enhanced Silicon Optical Modulators Under Low-Drive-Voltage Operation. IEEE Photonics Journal, 2012, 4, 1306-1315.	2.0	27
17	Planar surface implanted diffractive grating couplers in SOI. Optics Express, 2014, 22, 1077.	3.4	26
18	Locally Erasable Couplers for Optical Device Testing in Silicon on Insulator. Journal of Lightwave Technology, 2014, 32, 2248-2253.	4.6	26

#	ARTICLE	IF	CITATIONS
19	Silicon-on-insulator free-carrier injection modulators for the mid-infrared. Optics Letters, 2019, 44, 915.	3.3	26
20	Scattering of a plasmonic nanoantenna embedded in a silicon waveguide. Optics Express, 2015, 23, 28108.	3.4	23
21	Micrometer size polarization independent depletion-type photonic modulator in Silicon On Insulator. Optics Express, 2007, 15, 5879.	3.4	22
22	Intermodal frequency generation in silicon-rich silicon nitride waveguides. Photonics Research, 2019, 7, 615.	7.0	19
23	10 Gb/s Integrated Tunable Hybrid III-V/Si Laser and Silicon Mach-Zehnder Modulator. , 2012, , .		17
24	Ge-on-Si Plasma-Enhanced Chemical Vapor Deposition for Low-Cost Photodetectors. IEEE Photonics Journal, 2015, 7, 1-8.	2.0	16
25	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
26	Silicon slow-light-based photonic mixer for microwave-frequency conversion applications. Optics Letters, 2012, 37, 1721.	3.3	8
27	Characteristics of rib waveguide racetrack resonators in SOI. , 2006, 6183, 116.		7
28	Integrated hybrid III&#x2013;V/Si laser and transmitter. , 2012, , .		7
29	Silicon-based electro-optic modulators for linear and nonlinear radio-over-fiber applications. , 2012, , .		7
30	Optical absorption in highly strained Ge/SiGe quantum wells: The role of $\hat{\sigma}$ scattering. Journal of Applied Physics, 2012, 112, 123105.	2.5	7
31	Silicon Photonics: Are Smaller Devices Always Better?. Japanese Journal of Applied Physics, 2006, 45, 6609-6615.	1.5	6
32	Waveguides and devices in silicon photonics: polarization independence. , 2007, , .		5
33	A Photonic Microwave Filter Based on an Asymmetric Silicon Mach-Zehnder Modulator. IEEE Photonics Journal, 2013, 5, 5501006-5501006.	2.0	5
34	Angled multimode interferometer for bidirectional wavelength division (de)multiplexing. Royal Society Open Science, 2015, 2, 150270.	2.4	4
35	Interleaved angled MMI CWDM structure on the SOI platform. , 2013, , .		3
36	Grating coupled low loss Ge-on-Si waveguides and multimode interferometers for the mid-infrared. , 2015, , .		3

#	ARTICLE	IF	CITATIONS
37	IIIâ€V on Silicon Transmitters. , 2013, , .		3
38	Optical Modulators in Silicon Photonic Circuits. , 0, , 95-145.		2
39	Evolution of optical modulation using majority carrier plasma dispersion effect in SOI. , 2008, , .		2
40	High speed silicon optical modulator with self-aligned fabrication process. , 2010, , .		2
41	Silicon-based optical modulation within the HELIOS project. Proceedings of SPIE, 2011, , .	0.8	2
42	An alignment tolerant high speed ring resonator based silicon optical modulator. , 2012, , .		2
43	Silicon photonics at the University of Surrey. , 2009, , .		1
44	Modulators and photodetectors developed in the framework of the European HELIOS project. Proceedings of SPIE, 2010, , .	0.8	1
45	Silicon photonics: optical modulators. Proceedings of SPIE, 2010, , .	0.8	1
46	40 Gb/s high-speed silicon modulator for TE and TM polarisation. Proceedings of SPIE, 2011, , .	0.8	1
47	MMI for wavelength filtering and WDM on the SOI platform. , 2011, , .		1
48	40 Gb/s Silicon optical modulators. , 2011, , .		1
49	Group IV photonic devices for the mid-infrared. Proceedings of SPIE, 2012, , .	0.8	1
50	Slow light enhanced carrier depletion modulators with 1V drive voltage. Proceedings of SPIE, 2012, , .	0.8	1
51	Modulator integration in high-performance BiCMOS. , 2013, , .		1
52	Silicon CMOS photonics platform for enabling high-speed DQPSK transceivers. , 2013, , .		1
53	The evolution of angled MMI structure on the SOI platform. , 2014, , .		1
54	Erasable diffractive grating couplers in silicon on insulator for wafer scale testing. , 2014, , .		1

#	ARTICLE	IF	CITATIONS
55	Silicon and germanium mid-infrared photonics. Proceedings of SPIE, 2016, , .	0.8	1
56	Recent developments in silicon optical modulators. , 2010, , .		1
57	Tailoring the Response of Silicon Photonics Devices. , 2006, , .		0
58	Undertaking research in the field of silicon optical modulators in the framework of the Helios and UK silicon photonics projects. , 2010, , .		0
59	Silicon optical modulators for high data rate applications. , 2011, , .		0
60	High-speed silicon optical modulators. , 2011, , .		0
61	High Speed Silicon based optical modulators. , 2012, , .		0
62	High performance silicon optical modulators. Proceedings of SPIE, 2012, , .	0.8	0
63	Chirp characterization of a single-arm asymmetric silicon carrier depletion modulator. , 2013, , .		0
64	Integration of high performance silicon optical modulators. , 2013, , .		0
65	Optical modulation using the silicon platform. Proceedings of SPIE, 2013, , .	0.8	0
66	Recent results in silicon photonics at the University of Southampton. , 2014, , .		0
67	Silicon on insulator optical modulators for integration in photonic optical circuits. Proceedings of SPIE, 2014, , .	0.8	0
68	Silicon Photonic devices for the near- and the mid-infrared wavelength ranges. , 2014, , .		0
69	Group IV mid-infrared photonics. , 2015, , .		0
70	Silicon photonics: some remaining challenges. Proceedings of SPIE, 2016, , .	0.8	0
71	Mid-Index Silicon Nitride Devices for Enhanced Linear and Non-Linear Photonic Functionalities. , 2019, , .		0
72	Mid-Index Silicon Nitride Devices for Enhanced Linear and Non-Linear Photonic Functionalities. , 2019, , .		0

#	ARTICLE	IF	CITATIONS
73	High Speed Silicon optical modulators. , 2011, , .		0
74	High data rate silicon optical modulator with self-aligned fabrication process. , 2012, , .		0
75	Silicon optical modulators for integrated transceivers. , 2013, , .		0
76	Options for Silicon Based Modulators. , 2013, , .		0
77	A robust and fabrication tolerant (de)multiplexer on the SOI platform. , 2014, , .		0
78	Temporary Grating Coupler Structures Using Localised Refractive Index Engineering. , 2014, , .		0
79	Facilitating an integrated Silicon Photonics platform. , 2015, , .		0
80	Devices for an integrated Silicon Photonics platform. , 2015, , .		0