

Jordi Soler Penades

List of Publications by Year in descending order

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Version: 2024-02-01

65
papers

1,369
citations

377584

21
h-index

511568

30
g-index

65
all docs

65
docs citations

65
times ranked

1161
citing authors

#	ARTICLE	IF	CITATIONS
1	Subwavelength-engineered metamaterial devices for integrated photonics. , 2022, , .		1
2	Subwavelength-grating metamaterial integrated devices for the near- and mid-infrared wavelengths. , 2021, , .		0
3	Suspended germanium waveguides with subwavelength-grating metamaterial cladding for the mid-infrared band. Optics Express, 2021, 29, 16867.	1.7	21
4	Broadband 2â€‰%â€‰%Ã—â€‰%â€‰%2 multimode interference coupler for mid-infrared wavelengths. Optics Letters, 2021, 46, 5300.	1.7	7
5	Building high-performance integrated optical devices using subwavelength grating metamaterials -INVITED. EPJ Web of Conferences, 2021, 255, 01001.	0.1	0
6	Suspended Germanium Waveguide for Infrared Wavelengths. , 2019, , .		1
7	Mid-Infrared Silicon Waveguide-Based Bolometer. , 2019, , .		0
8	High performance silicon photonic devices based on practical metamaterials. , 2019, , .		1
9	Mid-Infrared Nanometallic Antenna Assisted Silicon Waveguide Based Bolometers. ACS Photonics, 2019, 6, 3253-3260.	3.2	27
10	Suspended Silicon Integrated Platform for the Long-Wavelength Mid-Infrared Band. , 2019, , .		0
11	Midâ€‰infrared suspended waveguide platform and building blocks. IET Optoelectronics, 2019, 13, 55-61.	1.8	21
12	Design of a suspended germanium micro-antenna for efficient fiber-chip coupling in the long-wavelength mid-infrared range. Optics Express, 2019, 27, 22302.	1.7	16
13	Silicon-on-insulator free-carrier injection modulators for the mid-infrared. Optics Letters, 2019, 44, 915.	1.7	26
14	Ge-on-Si modulators operating at mid-infrared wavelengths up to 8â€‰%â€‰%1/4m. Photonics Research, 2019, 7, 8284		36
15	Suspended low-loss germanium waveguides for the longwave-infrared. , 2019, , .		1
16	Silicon and Germanium Suspended Waveguides for the Mid-Infrared. , 2018, , .		1
17	Suspended silicon waveguides for long-wave infrared wavelengths. Optics Letters, 2018, 43, 795.	1.7	79
18	Group IV mid-infrared photonics [Invited]. Optical Materials Express, 2018, 8, 2276.	1.6	34

#	ARTICLE	IF	CITATIONS
19	Waveguide integrated graphene mid-infrared photodetector. , 2018, , .		9
20	Suspended low-loss germanium waveguides for the longwave infrared. Optics Letters, 2018, 43, 5997.	1.7	56
21	Subwavelength Grating Metamaterial Engineering: A New Tool for Silicon Photonics. , 2018, , .		0
22	All silicon approach to modulation and detection at $\lambda = 2 \mu\text{m}$. , 2018, , .		1
23	Group IV mid-infrared devices and circuits. , 2018, , .		0
24	Subwavelength metamaterial engineering for silicon photonics. , 2017, , .		1
25	Germanium Mid-Infrared Photonic Devices. Journal of Lightwave Technology, 2017, 35, 624-630.	2.7	76
26	Design of optical metamaterial waveguide structures (Conference Presentation). , 2017, , .		0
27	Germanium and silicon photonic integrated circuits for the mid-infrared. , 2017, , .		0
28	Mid-infrared Ge-on-Si electro-absorption modulator. , 2017, , .		2
29	Silicon photonic devices for the mid-infrared. , 2017, , .		1
30	Low propagation loss Ge-on-Si waveguides and their dependency on processing methods. , 2017, , .		0
31	Ultra-compact MMI-based beam splitter demultiplexer for the NIR/MIR wavelengths of 155 μm and 2 μm . Optics Express, 2017, 25, 10893.	1.7	36
32	Germanium-on-silicon waveguides operating at mid-infrared wavelengths up to 85 μm . Optics Express, 2017, 25, 27431.	1.7	75
33	Silicon ring resonator-coupled Mach-Zehnder interferometers for the Fano resonance in the mid-IR. Applied Optics, 2017, 56, 8769.	0.9	10
34	Subwavelength grating metamaterial waveguides for silicon photonic integrated circuits. , 2017, , .		0
35	Germanium-on-silicon mid-infrared grating couplers with low-reflectivity inverse taper excitation. Optics Letters, 2016, 41, 4324.	1.7	43
36	Suspended silicon mid-infrared waveguide devices with subwavelength grating metamaterial cladding. Optics Express, 2016, 24, 22908.	1.7	118

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37	III-V-on-silicon integrated micro - spectrometer for the 3-4 μm wavelength range. Optics Express, 2016, 24, 9465.	1.7	36
38	Subwavelength structures for nanophotonic couplers, colourless splitters, polarization control and mid-infrared waveguides. , 2016, , .		0
39	Germanium-on-silicon Vernier-effect photonic microcavities for the mid-infrared. Optics Letters, 2016, 41, 610.	1.7	48
40	Silicon and germanium mid-infrared photonics. Proceedings of SPIE, 2016, , .	0.8	1
41	Silicon photonics: some remaining challenges. Proceedings of SPIE, 2016, , .	0.8	0
42	Silicon-based Photonic Integrated Circuits for the Mid-infrared. Procedia Engineering, 2016, 140, 144-151.	1.2	8
43	Sub-wavelength cladding mid-infrared devices. , 2015, , .		0
44	Grating coupled low loss Ge-on-Si waveguides and multimode interferometers for the mid-infrared. , 2015, , .		3
45	Group IV mid-IR photonics. , 2015, , .		0
46	Germanium-on-silicon platforms for nonlinear photonics in the mid-infrared. , 2015, , .		0
47	Subwavelength waveguide structures for optical interconnects. , 2015, , .		0
48	Angled multimode interferometer for bidirectional wavelength division (de)multiplexing. Royal Society Open Science, 2015, 2, 150270.	1.1	4
49	Silicon Photonic Waveguides and Devices for Near- and Mid-IR Applications. IEEE Journal of Selected Topics in Quantum Electronics, 2015, 21, 407-418.	1.9	86
50	Group IV mid-infrared photonics. , 2015, , .		0
51	A subwavelength structured multimode interference coupler for the 3-4 micrometers mid-infrared band. Proceedings of SPIE, 2015, , .	0.8	0
52	Surface-Grating-Coupled Low-Loss Ge-on-Si Rib Waveguides and Multimode Interferometers. IEEE Photonics Technology Letters, 2015, 27, 1040-1043.	1.3	90
53	Mid-infrared all-optical modulation in low-loss germanium-on-silicon waveguides. Optics Letters, 2015, 40, 268.	1.7	74
54	Two-photon absorption and all-optical modulation in germanium-on-silicon waveguides for the mid-infrared. Optics Letters, 2015, 40, 2213.	1.7	27

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55	All-optical Modulation in Germanium-on-silicon Waveguides in the Mid-infrared. , 2015, , .		0
56	Low Loss Mid-Infrared SOI Slot Waveguides. IEEE Photonics Technology Letters, 2015, , 1-1.	1.3	20
57	Group IV Photonics for the Mid-Infrared. , 2015, , .		1
58	Mid-infrared wavelength division (de)multiplexer using an interleaved angled multimode interferometer on the silicon-on-insulator platform. Optics Letters, 2014, 39, 1406.	1.7	27
59	Cascade-coupled racetrack resonators based on the Vernier effect in the mid-infrared. Optics Express, 2014, 22, 23990.	1.7	28
60	Suspended SOI waveguide with sub-wavelength grating cladding for mid-infrared. Optics Letters, 2014, 39, 5661.	1.7	108
61	Recent results in silicon photonics at the University of Southampton. , 2014, , .		0
62	Germanium for photonic applications. , 2014, , .		0
63	Design and fabrication of silicon cascade-coupled ring resonators operating in mid infrared. , 2014, , .		1
64	Silicon Photonic devices for the near- and the mid-infrared wavelength ranges. , 2014, , .		0
65	Silicon photonic devices and platforms for the mid-infrared. Optical Materials Express, 2013, 3, 1205.	1.6	107