Vilson Rosa Almeida

List of Publications by Citations

40 papers	5,337 citations	18 h-index	68 g-index
68 ext. papers	6,564 ext. citations	5 avg, IF	5.42 L-index

#	Paper	IF	Citations
40	Guiding and confining light in void nanostructure. *Optics Letters*, **2004**, 29, 1209-11	3	1198
39	All-optical control of light on a silicon chip. *Nature*, **2004**, 431, 1081-4	50.4	1064
38	Experimental demonstration of a unidirectional reflectionless parity-time metamaterial at optical frequencies. *Nature Materials*, **2013**, 12, 108-13	27	875
37	Nanotaper for compact mode conversion. *Optics Letters*, **2003**, 28, 1302-4	3	570
36	Experimental demonstration of guiding and confining light in nanometer-size low-refractive-index material. *Optics Letters*, **2004**, 29, 1626-8	3	465
35	Optical bistability on a silicon chip. *Optics Letters*, **2004**, 29, 2387-9	3	254
34	All-optical switching on a silicon chip. *Optics Letters*, **2004**, 29, 2867-9	3	161
33	Time-resolved study of Raman gain in highly confined silicon-on-insulator waveguides. *Optics Express*, **2004**, 12, 4437-42	3.3	94
32	Low-power-consumption short-length and high-modulation-depth silicon electrooptic modulator. *Journal of Lightwave Technology*, **2003**, 21, 1089-1098	4	87
31	Electrooptic modulation of silicon-on-insulator submicrometer-size waveguide devices. *Journal of Lightwave Technology*, **2003**, 21, 2332-2339	4	83
30	Micrometer-scale all-optical wavelength converter on silicon. *Optics Letters*, **2005**, 30, 2733-5	3	67
29	Demonstration of high Raman gain in a submicrometer-size silicon-on-insulator waveguide. *Optics Letters*, **2005**, 30, 35-7	3	63
28	Compact silicon tunable Fabry-Perot resonator with low power consumption. *IEEE Photonics Technology Letters*, **2004**, 16, 506-508	2.2	57
27	Nanocavity in a silicon waveguide for ultrasensitive nanoparticle detection. *Applied Physics Letters*, **2004**, 85, 4854-4856	3.4	56
26	Reconfigurable silicon thermo-optical ring resonator switch based on Vernier effect control. *Optics Express*, **2012**, 20, 14722-33	3.3	48
25	Compact and low power consumption tunable photonic crystal nanobeam cavity. *Optics Express*, **2013**, 21, 3861-71	3.3	39
24	Thermally Controllable Silicon Photonic Crystal Nanobeam Cavity without Surface Cladding for Sensing Applications. *ACS Photonics*, **2015**, 2, 470-474	6.3	21

23	Ultrafast integrated semiconductor optical modulator based on the plasma-dispersion effect. *Optics Letters*, **2005**, 30, 2403-5	3	19
22	Experimental demonstration of a reconfigurable silicon thermo-optical device based on spectral tuning of ring resonators for optical signal processing. *Optics Express*, **2014**, 22, 3425-31	3.3	16
21	Photonic crystals in polymers by direct electron-beam lithography presenting a photonic band gap. *Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena*, **2004**, 22, 3348		12
20	Reconfigurable silicon thermo-optical device based on spectral tuning of ring resonators. *Optics Express*, **2011**, 19, 12727-39	3.3	11
19	. *IEEE Photonics Technology Letters*, **2016**, 28, 589-592	2.2	10
18	Rigorous analysis of Casimir and van der Waals forces on a silicon nano-optomechanical device actuated by optical forces. *Nanoscale*, **2018**, 10, 3945-3952	7.7	9
17	Optical forces through the effective refractive index. *Optics Letters*, **2017**, 42, 4371-4374	3	9
16	Optically controlled photonic crystal nanocavity in silicon **2004**,		8
15	Rigorous analysis of optical forces between two dielectric planar waveguides immersed in dielectric fluid media. *Annalen Der Physik*, **2017**, 529, 1600198	2.6	5
14	On-chip silicon photonic wavelength control of optical fiber lasers. *Optics Express*, **2008**, 16, 15671-6	3.3	5
13	Silicon Slot-Waveguide as NOEMS Photonic Platform **2006**,		5
12	Athermal Silicon Slot Waveguide With an Ormocomp Polymer Overlayer. *IEEE Photonics Technology Letters*, **2014**, 26, 1414-1417	2.2	4
11	Highly linear electro-optic modulator based on ring resonator. *Microwave and Optical Technology Letters*, **2011**, 53, 2375-2378	1.2	4
10	Light Guiding in Low Index Materials using High-Index-Contrast Waveguides. *Materials Research Society Symposia Proceedings*, **2003**, 797, 178		3
9	Tailoring Optical Forces Behavior in Nano-optomechanical Devices Immersed in Fluid Media. *Scientific Reports*, **2017**, 7, 14325	4.9	2
8	Nano-Opto-Electro-Mechanical devices based on silicon slot-waveguides structures **2009**,		2
7	NOEMS devices based on slot-waveguides **2007**,		2
6	Effect of Fiber Optic Chromatic Dispersion on the Performance of Analog Optical Link with External Modulation Aiming at Aerospace Applications. *Journal of Aerospace Technology and Management*, **2013**, 5, 205-216	0.7	2

5	Optical forces in a silicon nano-optomechanical device based on a cross-slot waveguide. *Journal of Nanophotonics*, **2016**, 10, 046009	1.1	1
4	Highly linear electrooptic modulator with suppression of even-order distortions **2009**,		1
3	NOEMS devices based on Slot-Waveguides **2007**,		1
2	Geometric optimization of radiation pressure in dielectric waveguides. *OSA Continuum*, **2019**, 2, 1188	1.4	0
1	Raman Gain in Silicon Using Highly Confined Waveguide Structure. *Materials Research Society Symposia Proceedings*, **2004**, 832, 146		