

# Vilson Rosa Almeida

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Geometric optimization of radiation pressure in dielectric waveguides. <i>OSA Continuum</i> , <b>2019</b> , 2, 1188	1.4	0
39	Rigorous analysis of Casimir and van der Waals forces on a silicon nano-optomechanical device actuated by optical forces. <i>Nanoscale</i> , <b>2018</b> , 10, 3945-3952	7.7	9
38	Rigorous analysis of optical forces between two dielectric planar waveguides immersed in dielectric fluid media. <i>Annalen Der Physik</i> , <b>2017</b> , 529, 1600198	2.6	5
37	Tailoring Optical Forces Behavior in Nano-optomechanical Devices Immersed in Fluid Media. <i>Scientific Reports</i> , <b>2017</b> , 7, 14325	4.9	2
36	Optical forces through the effective refractive index. <i>Optics Letters</i> , <b>2017</b> , 42, 4371-4374	3	9
35	Optical forces in a silicon nano-optomechanical device based on a cross-slot waveguide. <i>Journal of Nanophotonics</i> , <b>2016</b> , 10, 046009	1.1	1
34	. <i>IEEE Photonics Technology Letters</i> , <b>2016</b> , 28, 589-592	2.2	10
33	Thermally Controllable Silicon Photonic Crystal Nanobeam Cavity without Surface Cladding for Sensing Applications. <i>ACS Photonics</i> , <b>2015</b> , 2, 470-474	6.3	21
32	Athermal Silicon Slot Waveguide With an Ormocomp Polymer Overlayer. <i>IEEE Photonics Technology Letters</i> , <b>2014</b> , 26, 1414-1417	2.2	4
31	Experimental demonstration of a reconfigurable silicon thermo-optical device based on spectral tuning of ring resonators for optical signal processing. <i>Optics Express</i> , <b>2014</b> , 22, 3425-31	3.3	16
30	Experimental demonstration of a unidirectional reflectionless parity-time metamaterial at optical frequencies. <i>Nature Materials</i> , <b>2013</b> , 12, 108-13	27	875
29	Compact and low power consumption tunable photonic crystal nanobeam cavity. <i>Optics Express</i> , <b>2013</b> , 21, 3861-71	3.3	39
28	Effect of Fiber Optic Chromatic Dispersion on the Performance of Analog Optical Link with External Modulation Aiming at Aerospace Applications. <i>Journal of Aerospace Technology and Management</i> , <b>2013</b> , 5, 205-216	0.7	2
27	Reconfigurable silicon thermo-optical ring resonator switch based on Vernier effect control. <i>Optics Express</i> , <b>2012</b> , 20, 14722-33	3.3	48
26	Reconfigurable silicon thermo-optical device based on spectral tuning of ring resonators. <i>Optics Express</i> , <b>2011</b> , 19, 12727-39	3.3	11
25	Highly linear electro-optic modulator based on ring resonator. <i>Microwave and Optical Technology Letters</i> , <b>2011</b> , 53, 2375-2378	1.2	4
24	Nano-Opto-Electro-Mechanical devices based on silicon slot-waveguides structures <b>2009</b> ,		2

23	Highly linear electrooptic modulator with suppression of even-order distortions <b>2009</b> ,		1
22	On-chip silicon photonic wavelength control of optical fiber lasers. <i>Optics Express</i> , <b>2008</b> , 16, 15671-6	3-3	5
21	NOEMS devices based on slot-waveguides <b>2007</b> ,		2
20	NOEMS devices based on Slot-Waveguides <b>2007</b> ,		1
19	Silicon Slot-Waveguide as NOEMS Photonic Platform <b>2006</b> ,		5
18	Demonstration of high Raman gain in a submicrometer-size silicon-on-insulator waveguide. <i>Optics Letters</i> , <b>2005</b> , 30, 35-7	3	63
17	Ultrafast integrated semiconductor optical modulator based on the plasma-dispersion effect. <i>Optics Letters</i> , <b>2005</b> , 30, 2403-5	3	19
16	Micrometer-scale all-optical wavelength converter on silicon. <i>Optics Letters</i> , <b>2005</b> , 30, 2733-5	3	67
15	Photonic crystals in polymers by direct electron-beam lithography presenting a photonic band gap. <i>Journal of Vacuum Science &amp; Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , <b>2004</b> , 22, 3348		12
14	Raman Gain in Silicon Using Highly Confined Waveguide Structure. <i>Materials Research Society Symposia Proceedings</i> , <b>2004</b> , 832, 146		
13	All-optical control of light on a silicon chip. <i>Nature</i> , <b>2004</b> , 431, 1081-4	50.4	1064
12	Nanocavity in a silicon waveguide for ultrasensitive nanoparticle detection. <i>Applied Physics Letters</i> , <b>2004</b> , 85, 4854-4856	3.4	56
11	Compact silicon tunable Fabry-Perot resonator with low power consumption. <i>IEEE Photonics Technology Letters</i> , <b>2004</b> , 16, 506-508	2.2	57
10	Time-resolved study of Raman gain in highly confined silicon-on-insulator waveguides. <i>Optics Express</i> , <b>2004</b> , 12, 4437-42	3-3	94
9	Guiding and confining light in void nanostructure. <i>Optics Letters</i> , <b>2004</b> , 29, 1209-11	3	1198
8	Experimental demonstration of guiding and confining light in nanometer-size low-refractive-index material. <i>Optics Letters</i> , <b>2004</b> , 29, 1626-8	3	465
7	Optical bistability on a silicon chip. <i>Optics Letters</i> , <b>2004</b> , 29, 2387-9	3	254
6	All-optical switching on a silicon chip. <i>Optics Letters</i> , <b>2004</b> , 29, 2867-9	3	161

5	Optically controlled photonic crystal nanocavity in silicon <b>2004</b> ,		8
4	Low-power-consumption short-length and high-modulation-depth silicon electrooptic modulator. <i>Journal of Lightwave Technology</i> , <b>2003</b> , 21, 1089-1098	4	87
3	Electrooptic modulation of silicon-on-insulator submicrometer-size waveguide devices. <i>Journal of Lightwave Technology</i> , <b>2003</b> , 21, 2332-2339	4	83
2	Nanotaper for compact mode conversion. <i>Optics Letters</i> , <b>2003</b> , 28, 1302-4	3	570
1	Light Guiding in Low Index Materials using High-Index-Contrast Waveguides. <i>Materials Research Society Symposia Proceedings</i> , <b>2003</b> , 797, 178		3