

Vilson Rosa Almeida

List of Publications by Year in descending order

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68
papers

7,037
citations

430754

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h-index

302012

39
g-index

68
all docs

68
docs citations

68
times ranked

5285
citing authors

#	ARTICLE	IF	CITATIONS
1	Guiding and confining light in void nanostructure. Optics Letters, 2004, 29, 1209.	1.7	1,561
2	All-optical control of light on a silicon chip. Nature, 2004, 431, 1081-1084.	13.7	1,366
3	Experimental demonstration of a unidirectional reflectionless parity-time metamaterial at optical frequencies. Nature Materials, 2013, 12, 108-113.	13.3	1,190
4	Nanotaper for compact mode conversion. Optics Letters, 2003, 28, 1302.	1.7	766
5	Experimental demonstration of guiding and confining light in nanometer-size low-refractive-index material. Optics Letters, 2004, 29, 1626.	1.7	604
6	Optical bistability on a silicon chip. Optics Letters, 2004, 29, 2387.	1.7	328
7	All-optical switching on a silicon chip. Optics Letters, 2004, 29, 2867.	1.7	205
8	Time-resolved study of Raman gain in highly confined silicon-on-insulator waveguides. Optics Express, 2004, 12, 4437.	1.7	125
9	Electrooptic modulation of silicon-on-insulator submicrometer-size waveguide devices. Journal of Lightwave Technology, 2003, 21, 2332-2339.	2.7	123
10	Low-power-consumption short-length and high-modulation-depth silicon electrooptic modulator. Journal of Lightwave Technology, 2003, 21, 1089-1098.	2.7	114
11	Micrometer-scale all-optical wavelength converter on silicon. Optics Letters, 2005, 30, 2733.	1.7	89
12	Demonstration of high Raman gain in a submicrometer-size silicon-on-insulator waveguide. Optics Letters, 2005, 30, 35.	1.7	79
13	Compact Silicon Tunable Fabry-Pérot Resonator With Low Power Consumption. IEEE Photonics Technology Letters, 2004, 16, 506-508.	1.3	73
14	Nanocavity in a silicon waveguide for ultrasensitive nanoparticle detection. Applied Physics Letters, 2004, 85, 4854-4856.	1.5	68
15	Reconfigurable silicon thermo-optical ring resonator switch based on Vernier effect control. Optics Express, 2012, 20, 14722.	1.7	60
16	Compact and low power consumption tunable photonic crystal nanobeam cavity. Optics Express, 2013, 21, 3861.	1.7	51
17	Thermally Controllable Silicon Photonic Crystal Nanobeam Cavity without Surface Cladding for Sensing Applications. ACS Photonics, 2015, 2, 470-474.	3.2	26
18	Ultrafast integrated semiconductor optical modulator based on the plasma-dispersion effect. Optics Letters, 2005, 30, 2403.	1.7	25

#	ARTICLE	IF	CITATIONS
19	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.	1.6	18
20	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.	1.7	17
21	Optical forces through the effective refractive index. Optics Letters, 2017, 42, 4371.	1.7	17
22	Reconfigurable silicon thermo-optical device based on spectral tuning of ring resonators. Optics Express, 2011, 19, 12727.	1.7	15
23	Casimir and Optical Forces Acting on a Silicon NOEMS Device Based on Slot-Waveguide Structure. IEEE Photonics Technology Letters, 2016, 28, 589-592.	1.3	13
24	Rigorous analysis of Casimir and van der Waals forces on a silicon nano-optomechanical device actuated by optical forces. Nanoscale, 2018, 10, 3945-3952.	2.8	13
25	Light Guiding in Low Index Materials using High-Index-Contrast Waveguides. Materials Research Society Symposia Proceedings, 2003, 797, 178.	0.1	10
26	Optically controlled photonic crystal nanocavity in silicon. , 2004, , .		9
27	On-chip silicon photonic wavelength control of optical fiber lasers. Optics Express, 2008, 16, 15671.	1.7	8
28	Rigorous analysis of optical forces between two dielectric planar waveguides immersed in dielectric fluid media. Annalen Der Physik, 2017, 529, 1600198.	0.9	7
29	Silicon Slot-Waveguide as NOEMS Photonic Platform. , 2006, , .		7
30	Analysis of analog fiber optical links based on DSB+C and SSB+C modulation techniques. , 0, , .		5
31	Nano-Opto-Electro-Mechanical devices based on silicon slot-waveguides structures. , 2009, , .		5
32	Highly linear electro-optic modulator based on ring resonator. Microwave and Optical Technology Letters, 2011, 53, 2375-2378.	0.9	5
33	Athermal Silicon Slot Waveguide With an Ormocomp Polymer Overlayer. IEEE Photonics Technology Letters, 2014, 26, 1414-1417.	1.3	5
34	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.	0.3	5
35	Geometric optimization of radiation pressure in dielectric waveguides. OSA Continuum, 2019, 2, 1188.	1.8	4
36	Performance of an Optically Powered Radio-Over-Fiber System Exploiting Raman Amplification. IEEE Photonics Technology Letters, 2022, 34, 667-670.	1.3	4

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37	NOEMS devices based on Slot-Waveguides. , 2007, , .		2
38	NOEMS devices based on slot-waveguides. , 2007, , .		2
39	Highly linear electrooptic modulator with suppression of even-order distortions. , 2009, , .		2
40	Optical forces in a silicon nano-optomechanical device based on a cross-slot waveguide. Journal of Nanophotonics, 2016, 10, 046009.	0.4	2
41	Tailoring Optical Forces Behavior in Nano-optomechanical Devices Immersed in Fluid Media. Scientific Reports, 2017, 7, 14325.	1.6	2
42	Slab polymer photonic crystals. , 2004, 5597, 62.		1
43	Dynamic response of optical fiber Bragg grating temperature sensors. Proceedings of SPIE, 2010, , .	0.8	1
44	Fiber Bragg grating based angular accelerometer: a first approach. , 2013, , .		1
45	Critical Technologies for Aerospace and Defense Applications: The Pursuit of Autonomy. Journal of Aerospace Technology and Management, 2013, 5, 5-6.	0.3	1
46	The relationship between body posture, gait biomechanics and the use of sensory insoles: a review. Research, Society and Development, 2020, 9, e263996793.	0.0	1
47	Classification of Pneumonia images on mobile devices with Quantized Neural Network. Research, Society and Development, 2020, 9, e889108382.	0.0	1
48	Diagn�stico de altera�es refracionais em crian�as com microcefalia, presumidamente por s�ndrome cong�nita do Zika v�rus. Research, Society and Development, 2020, 9, e4429108674.	0.0	1
49	Raman Gain in Silicon Using Highly Confined Waveguide Structure. Materials Research Society Symposia Proceedings, 2004, 832, 146.	0.1	0
50	High-confinement photonic structures for light propagation in the visible range. , 2004, 5597, 146.		0
51	Light amplification on silicon using highly confined photonic structures. , 2004, , .		0
52	Dual microwave photonic phase shifter based on polarization control in fiber optic. , 2009, , .		0
53	Fiber Laser Wavelength Tuning on a Silicon Chip. , 2009, , .		0
54	On-chip silicon photonic wavelength control of laser source. , 2009, , .		0

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55	Polymer and composite polymer slot waveguides. Proceedings of SPIE, 2014, , .	0.8	0
56	Casimir and optical forces on a silicon Nano-Opto-Electro-Mechanical device. , 2015, , .		0
57	Optical forces in a silicon nano-optomechanical device based on a cross-slot waveguide. Proceedings of SPIE, 2016, , .	0.8	0
58	Guiding light at criticality and beyond. , 2021, , .		0
59	Um estudo bibliométrico das publicações sobre Segurança Cibernética na Indústria 4.0. Research, Society and Development, 2021, 10, 4210312937e.	0.0	0
60	Optical bistability on silicon microphotronics. , 2004, , .		0
61	Highly Insensitive to Temperature and Ultra-Broadband Silicon Electro-optic Modulator. , 2010, , .		0
62	Thermally Controllable Silicon Photonic Crystal Nanobeam Cavity for for Bio-Sensing Applications. , 2015, , .		0
63	Silicon Nanophotonics “ Dispersion and Optical Forces. , 2018, , .		0
64	Sensores no treinamento dos músculos estabilizadores da coluna vertebral de indivíduos com lombalgia e/ou protrusão discal lombar: uma revisão. Research, Society and Development, 2020, 9, e240997111.	0.0	0
65	Comparison between transforms a behavior qualitative analysis of various biomedical signals. Research, Society and Development, 2020, 9, e3179108657.	0.0	0
66	Estudo comparativo da mudança das aberrações de alta ordem após capsulotomia Nd:YAG laser em pacientes com diferentes graus de opacificação de cápsula posterior. Research, Society and Development, 2020, 9, e9459109356.	0.0	0
67	Uso de Wearable em pacientes com lombalgia. Research, Society and Development, 2020, 9, e53091110200.	0.0	0
68	Análise da Perda de Massa Muscular Esquelética a partir de achados de bioimpedância em uma coorte de pacientes submetidos à Cirurgia Bariátrica. Research, Society and Development, 2020, 9, e4889119874.	0.0	0