

Jaime Viegas

List of Publications by Year in descending order

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66
papers

1,082
citations

535685

17
h-index

466096

32
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67
all docs

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docs citations

67
times ranked

1573
citing authors

#	ARTICLE	IF	CITATIONS
1	Label-Free Detection of Morpholino-DNA Hybridization Using a Silicon Photonics Suspended Slab Micro-Ring Resonator. IEEE Photonics Journal, 2021, 13, 1-9.	1.0	5
2	Refractive index of phosphate-buffered saline in the telecom infrared CÄ+ÄL bands. OSA Continuum, 2021, 4, 3039.	1.8	4
3	Compact MMI-Based AWGs in a Scalable Monolithic Silicon Photonics Platform. IEEE Photonics Journal, 2021, 13, 1-6.	1.0	9
4	High-extinction ratio polarization splitter based on an asymmetric directional coupler and on-chip polarizers on a silicon photonics platform. Optics Express, 2020, 28, 22899.	1.7	16
5	Beam shaping for ultra-compact waveguide crossings on monolithic silicon photonics platform. Optics Letters, 2020, 45, 6230.	1.7	11
6	Optical fibre Fabry-PÄrot interferometer based on inline microcavities for salinity and temperature sensing. Scientific Reports, 2019, 9, 9556.	1.6	72
7	A study on formaldehyde gas sensing and optoelectronic properties of Bi-doped CdO thin films deposited by an economic solution process. Sensors and Actuators B: Chemical, 2019, 297, 126718.	4.0	34
8	Optoelectronic Tunability of Hf-Doped ZnO for Photovoltaic Applications. Journal of Physical Chemistry C, 2019, 123, 15258-15266.	1.5	10
9	Silicon photonics waveguide array sensor for selective detection of VOCs at room temperature. Scientific Reports, 2019, 9, 17099.	1.6	18
10	Gas sensing and opto-electronic properties of spray deposited cobalt doped CdO thin films. Sensors and Actuators B: Chemical, 2018, 255, 871-883.	4.0	37
11	Photocurrent enhancement in nanocoatings of cerium oxide and platinum on black silicon. Proceedings of SPIE, 2017, , .	0.8	1
12	pMUT+ASIC integrated platform for wide range ultrasonic imaging. Proceedings of SPIE, 2017, , .	0.8	0
13	Nanostencil lithography with scanning optical fiber tip. Proceedings of SPIE, 2017, , .	0.8	0
14	Piezoelectric micromachined ultrasonic transducers and micropumps: from design to optomicrofluidic applications. , 2017, , .		0
15	Fluorine and oxygen plasma influence on nanoparticle formation and aggregation in metal oxide thin film transistors. , 2017, , .		0
16	Fabrication of Fresnel plates on optical fibres by FIB milling for optical trapping, manipulation and detection of single cells. Scientific Reports, 2017, 7, 4485.	1.6	53
17	Maskless photolithography using a photon sieve on an optical fiber tip. , 2016, , .		1
18	Photon sieve on an optical fiber tip for improved light coupling into a submicron silicon waveguide. , 2016, , .		1

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19	Metal oxide thin film transistor based sensing. , 2016, , .		2
20	Thin-film transistors based on Zinc Oxide channel layer and Molybdenum doped Indium Oxide transparent electrodes. MRS Advances, 2016, 1, 281-285.	0.5	2
21	Electron beam induced rapid crystallization of water splitting nanostructures. MRS Advances, 2016, 1, 825-830.	0.5	13
22	Low-cost facile interferometer for displacement mapping of harmonically excited MEMS. Proceedings of SPIE, 2016, , .	0.8	0
23	Comparative study of multilayered nanostructures for enhanced solar optical absorption. MRS Advances, 2016, 1, 839-845.	0.5	2
24	Characterization of spray pyrolytically deposited high mobility praseodymium doped CdO thin films. Ceramics International, 2016, 42, 12675-12685.	2.3	53
25	Optical fibers as beam shapers: from Gaussian beams to optical vortices. Optics Letters, 2016, 41, 2137.	1.7	32
26	Impact of glycerol on Zinc Oxide based thin film transistors with Indium Molybdenum Oxide electrodes. MRS Advances, 2016, 1, 265-268.	0.5	3
27	Surface plasmon assisted hot electron collection in wafer-scale metallic-semiconductor photonic crystals. Optics Express, 2016, 24, A1234.	1.7	18
28	Special diffractive elements for optical trapping fabricated on optical fiber tips using the focused ion beam. Proceedings of SPIE, 2016, , .	0.8	1
29	Fabrication of a phase photon sieve on an optical fiber tip by focused ion beam nanomachining for improved fiber to silicon photonics waveguide light coupling. Optics Express, 2016, 24, 11611.	1.7	24
30	Impact of glycerol on zinc-oxide-based thin film transistors with indium molybdenum oxide transparent electrodes. , 2016, , .		0
31	Metal/metal-oxide nanocoatings on black silicon nanoglass for enhanced solar absorption and photochemical activity. Proceedings of SPIE, 2016, , .	0.8	2
32	Subwavelength grating waveguide-integrated athermal Mach-Zehnder interferometer with enhanced fabrication error tolerance and wide stable spectral range. Proceedings of SPIE, 2016, , .	0.8	3
33	Fully transparent thin film transistors based on zinc oxide channel layer and molybdenum doped indium oxide electrodes. , 2016, , .		0
34	Compact solutions for optical fiber tweezers using Fresnel zone and phase lenses fabricated using FIB milling. , 2016, , .		3
35	Generation of Laguerre Gaussian beams using spiral phase diffractive elements fabricated on optical fiber tips using focused ion beam milling. , 2016, , .		1
36	Synthesis of WO ₃ nanoparticles for biosensing applications. Sensors and Actuators B: Chemical, 2016, 223, 186-194.	4.0	71

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37	Athermal Photonic Circuits for Optical On-Chip Interconnects. , 2016, , 283-295.		0
38	Broadband photoelectric hot carrier collection with wafer-scale metallic-semiconductor photonic crystals. , 2015, , .		5
39	Structure and Morphologic Influence of WO ₃ Nanoparticles on the Electrochromic Performance of Dual-Phase WO ₃ /WO ₃ Inkjet Printed Films. Advanced Electronic Materials, 2015, 1, 1400002.	2.6	55
40	Optical metrology of AlN piezomachined ultrasonic transducer arrays and piezopumps. Proceedings of SPIE, 2015, , .	0.8	0
41	The efficiency of fiber optical tweezers for cell manipulation using distinct fabrication methods. , 2015, , .		6
42	Environmental sensing with optical fiber sensors processed with focused ion beam and atomic layer deposition. Proceedings of SPIE, 2015, , .	0.8	2
43	Structural, microstructural, optical and electrical properties of spray deposited rare-earth metal (Sm) ions doped CdO thin films. Journal of Materials Science: Materials in Electronics, 2015, 26, 4152-4164.	1.1	55
44	Focused ion beam 3D nano-patterned optical fiber tips for advanced beam profile engineering. Proceedings of SPIE, 2015, , .	0.8	0
45	Silicon photonics athermal Mach-Zehnder interferometer with wide thermal and spectral operating range. , 2015, , .		1
46	Characterization of molybdenum doped indium oxide/aluminum doped zinc oxide thin film stacks for optoelectronic applications. , 2015, , .		1
47	Broadband CMOS-compatible SOI temperature insensitive Mach-Zehnder interferometer. Optics Express, 2015, 23, 24098.	1.7	29
48	Rapid prototyping of coupled photonic cavities by focused ion beam/photolithography hybrid technique. Proceedings of SPIE, 2014, , .	0.8	1
49	Simulation of III-V strained quantum well lasers with coupled concentric racetrack resonators. , 2014, , .		1
50	InAlAs/InGaAs quantum cascade laser with concentric racetrack array cavity. , 2013, , .		0
51	Coupled mode analysis of integrated optical waveguide array sensors. , 2013, , .		0
52	Submicron texturing for broadband light management in thin-film PV. , 2013, , .		1
53	Fabrication of optical fiber gratings through focused ion beam techniques for sensing applications. , 2012, , .		4
54	Temperature and strain-independent curvature sensor based on a singlemode/multimode fiber optic structure. Measurement Science and Technology, 2011, 22, 085201.	1.4	59

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55	Optical fiber refractometry based on multimode interference. Applied Optics, 2011, 50, E184.	2.1	45
56	All Fiber Mach-Zehnder Interferometer Based on Suspended Twin-Core Fiber. IEEE Photonics Technology Letters, 2010, 22, 1300-1302.	1.3	74
57	A hybrid Fabry-Perot/Michelson interferometer sensor using a dual asymmetric core microstructured fiber. Measurement Science and Technology, 2010, 21, 025205.	1.4	23
58	Design and Fabrication of Slotted Multimode Interference Devices for Chemical and Biological Sensing. Journal of Sensors, 2009, 2009, 1-11.	0.6	8
59	Production and propagation of a modulated optical vortex through atmospheric turbulence. , 2009, , .		2
60	Mode purity comparison of optical vortices generated by a segmented deformable mirror and a static multilevel phase plate. Applied Optics, 2008, 47, 5098.	2.1	4
61	Generation of an optical vortex with a segmented deformable mirror. Applied Optics, 2008, 47, 6300.	2.1	54
62	Fabrication and test of an integrated optical sensor with high sensitivity and high dynamic range based on a Mach-Zehnder interferometric configuration. , 2007, , .		1
63	In-fibre Mach-Zehnder configuration based on fibre multimode interference structure combined with a long period grating. Proceedings of SPIE, 2007, , .	0.8	0
64	Design and optimization of slotted multimode interference devices for chemical and biochemical sensing. Proceedings of SPIE, 2007, , .	0.8	2
65	All-fiber Mach-Zehnder curvature sensor based on multimode interference combined with a long-period grating. Optics Letters, 2007, 32, 3074.	1.7	145
66	Band bending and effective index in the engineered Mach-Zehnder interferometer-based electrolytic sensor. Applied Nanoscience (Switzerland), 0, , 1.	1.6	1