

Marcos Ar Franco

List of Publications by Year in descending order

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85
papers

1,247
citations

471509

17
h-index

377865

34
g-index

86
all docs

86
docs citations

86
times ranked

1103
citing authors

#	ARTICLE	IF	CITATIONS
1	Microstructured-core optical fibre for evanescent sensing applications. Optics Express, 2006, 14, 13056.	3.4	254
2	Ultra-high-sensitivity temperature fiber sensor based on multimode interference. Applied Optics, 2012, 51, 3236.	1.8	116
3	Terahertz optical fibers [Invited]. Optics Express, 2020, 28, 16089.	3.4	108
4	3D Printed Hollow-Core Terahertz Fibers. Fibers, 2018, 6, 43.	4.0	76
5	Multimode interference tapered fiber refractive index sensors. Applied Optics, 2012, 51, 5941.	1.8	70
6	Microstructured Optical Fiber for Residual Dispersion Compensation Over S + C + L + U Wavelength Bands. IEEE Photonics Technology Letters, 2008, 20, 751-753.	2.5	51
7	Bragg gratings in surface-core fibers: Refractive index and directional curvature sensing. Optical Fiber Technology, 2017, 34, 86-90.	2.7	41
8	Curvature and Temperature Discrimination Using Multimode Interference Fiber Optic Structures – A Proof of Concept. Journal of Lightwave Technology, 2012, 30, 3569-3575.	4.6	36
9	Photonic-crystal fiber-based pressure sensor for dual environment monitoring. Applied Optics, 2014, 53, 3668.	1.8	36
10	Efficient and short-range light coupling to index-matched liquid-filled hole in a solid-core photonic crystal fiber. Optics Express, 2011, 19, 24687.	3.4	34
11	Simplifying the design of microstructured optical fibre pressure sensors. Scientific Reports, 2017, 7, 2990.	3.3	32
12	Detailed analysis of the longitudinal acousto-optical resonances in a fiber Bragg modulator. Optics Express, 2013, 21, 6997.	3.4	30
13	Integration of bow-tie plasmonic nano-antennas on tapered fibers. Optics Express, 2017, 25, 8986.	3.4	29
14	Single-design-parameter microstructured optical fiber for chromatic dispersion tailoring and evanescent field enhancement. Optics Letters, 2007, 32, 3324.	3.3	27
15	Intensity liquid level sensor based on multimode interference and fiber Bragg grating. Measurement Science and Technology, 2016, 27, 125104.	2.6	22
16	Curvature and Vibration Sensing Based on Core Diameter Mismatch Structures. IEEE Transactions on Instrumentation and Measurement, 2016, 65, 2120-2128.	4.7	21
17	Macrobending SMS fiber-optic anemometer and flow sensor. Optical Fiber Technology, 2019, 52, 101981.	2.7	18
18	All-fiber circular polarization beam splitter based on helically twisted twin-core photonic crystal fiber coupler. Optical Fiber Technology, 2020, 58, 102285.	2.7	17

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19	Sensitivity Analysis of Different Shapes of a Plastic Optical Fiber-Based Immunosensor for Escherichia coli: Simulation and Experimental Results. <i>Sensors</i> , 2017, 17, 2944.	3.8	15
20	Finite element analysis of anisotropic optical waveguide with arbitrary index profile. <i>IEEE Transactions on Magnetics</i> , 1999, 35, 1546-1549.	2.1	14
21	Side-Polished Microstructured Optical Fiber for Temperature Sensor Application. <i>IEEE Photonics Technology Letters</i> , 2007, 19, 1738-1740.	2.5	14
22	Metal-Filled Embedded-Core Capillary Fibers as Highly Sensitive Temperature Sensors. , 2018, 2, 1-4.		13
23	Modal analysis of anisotropic diffused-channel waveguide by a scalar finite element method. <i>IEEE Transactions on Magnetics</i> , 1998, 34, 2783-2786.	2.1	12
24	Automatic mesh generation for 3D electromagnetic field analysis by FD-TD method. <i>IEEE Transactions on Magnetics</i> , 1998, 34, 3383-3386.	2.1	12
25	Numerical and experimental analysis of polarization properties from hybrid PCFs across different photonic bandgaps. <i>Optical Fiber Technology</i> , 2012, 18, 462-469.	2.7	11
26	Numerical characterization of piezoelectric resonant transducer modes for acoustic wave excitation in optical fibers. <i>Measurement Science and Technology</i> , 2013, 24, 094020.	2.6	10
27	Analysis and optimization of an all-fiber device based on photonic crystal fiber with integrated electrodes. <i>Optics Express</i> , 2010, 18, 2842.	3.4	9
28	Spectral bandwidth analysis of high sensitivity refractive index sensor based on multimode interference fiber device. <i>Proceedings of SPIE</i> , 2012, , .	0.8	9
29	3D-printed terahertz Bragg fiber. , 2015, , .		8
30	Azimuthally asymmetric tubular lattice hollow-core optical fiber. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2021, 38, F23.	2.1	8
31	Ultrahigh-sensitivity temperature fiber sensor based on multimode interference. <i>Applied Optics</i> , 2012, 51, 2542.	2.1	8
32	Exploring THz hollow-core fiber designs manufactured by 3D printing. , 2017, , .		7
33	Angle-Resolved Hollow-Core Fiber-Based Curvature Sensing Approach. <i>Fibers</i> , 2021, 9, 72.	4.0	7
34	Numerical and experimental analysis of the modulation of fiber Bragg gratings by low-frequency complex acoustic waves. <i>Optical Fiber Technology</i> , 2016, 30, 17-22.	2.7	6
35	Exposed-core fiber multimode interference sensor. <i>Results in Optics</i> , 2021, 5, 100125.	2.0	6
36	A simple procedure for impedance matching and tuning of microwave couplers for an electron linear accelerator. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2001, 49, 562-564.	4.6	5

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37	Tunable Single-Polarization Single-Mode Microstructured Polymer Optical Fiber. Journal of Lightwave Technology, 2011, 29, 2372-2378.	4.6	5
38	MATHEMATICA notebook for computing tetrahedral finite element shape functions and matrices for the Helmholtz equation. IEEE Transactions on Magnetics, 1998, 34, 3387-3390.	2.1	4
39	Integrated polarizers based on tapered highly birefringent photonic crystal fibers. Optics Express, 2014, 22, 17769.	3.4	4
40	Analysis of highly birefringent photonic crystal fibers with squeezed rectangular lattices. Microwave and Optical Technology Letters, 2008, 50, 1083-1086.	1.4	3
41	Refractive index sensor based on terahertz multimode interference fiber device. , 2013, , .		3
42	Single-polarization single-mode hollow core photonic bandgap fiber for gyroscope applications. Proceedings of SPIE, 2015, , .	0.8	3
43	Optical sensing with antiresonant capillary fibers. , 2017, , .		3
44	Some studies on the registration of particles on Makrofol E. International Journal of Radiation Applications and Instrumentation Part D, Nuclear Tracks and Radiation Measurements, 1986, 12, 193-196.	0.5	2
45	Numerical and Experimental Studies for a High Pressure Photonic Crystal Fiber Based Sensor. AIP Conference Proceedings, 2008, , .	0.4	2
46	Thermal tunability of photonic bandgaps in photonic crystal fibers selectively filled with nematic liquid crystal. Proceedings of SPIE, 2010, , .	0.8	2
47	Hybrid photonic crystal fiber sensing of high hydrostatic pressure. , 2011, , .		2
48	A new approach to obtain single-polarization hollow-core photonic bandgap fiber. , 2013, , .		2
49	Modelling the bandwidth behaviour of fibre Bragg gratings excited by low-frequency acoustic waves. , 2013, , .		2
50	Ultra-broadband and compact polarization splitter for sensing applications. , 2016, , .		2
51	DWDM 40 Gb/s Long Haul Transmission Using PCF for Dispersion Compensation. , 2010, , .		2
52	Dispersion Properties of Microstructured Optical Fiber with 12-Fold Quasicrystal Lattice of Holes. , 2007, , .		1
53	Effect of Coupling between Fundamental and Cladding Modes on Bending Losses in Single-Polarization Single-Mode Photonic Crystal Fiber. AIP Conference Proceedings, 2008, , .	0.4	1
54	Polymer optical fibers for Terahertz: Low loss propagation and high evanescent field. , 2013, , .		1

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55	Spiral broadband plasmonic nano-antennas. , 2013, , .		1
56	Enhancement of refractive index sensitivity of the in-line Mach-Zehnder interferometer through bending. , 2013, , .		1
57	High sensitivity high temperature sensor based on SMS structure with large-core all-solid bandgap fiber as the multimode section. Proceedings of SPIE, 2014, , .	0.8	1
58	Enhanced Terahertz transmission through 3D non-spherical terajets. Proceedings of SPIE, 2015, , .	0.8	1
59	Surface-core fiber gratings. , 2015, , .		1
60	Hydrostatic pressure sensing with surface-core fibers. , 2015, , .		1
61	Strong power transfer between photonic bandgaps of hybrid photonic crystal fibers. Optical Fiber Technology, 2015, 22, 36-41.	2.7	1
62	LPFG based fiber optic sensor for magnetic field measurement. Proceedings of SPIE, 2017, , .	0.8	1
63	3D numerical investigation of double-core optical fiber properties modulated by flexural acoustic waves. , 2017, , .		1
64	3D numerical analysis of the acousto-optical modulation in a double-core optical fiber. , 2018, , .		1
65	Pressure Induced Single-Polarization Single-Mode Microstructured Polymer Optical Fiber. , 2010, , .		1
66	<title>Photonic crystal fiber for chromatic dispersion compensation</title>. , 2004, , .		0
67	Highly birefringent photonic crystal fiber with squeezed hexagonal and rectangular lattices. , 0, , .		0
68	Opto-Mechanical Response of a Suspended-Slab-Core Optical Fiber. AIP Conference Proceedings, 2008, , .	0.4	0
69	Dual-concentric-core microstructured optical fiber with selective filling of hole for chromatic dispersion compensation. , 2008, , .		0
70	Modeling residual thermal stress-induced integrated optical waveguides on Bi ₁₂ GeO ₂₀ substrate for electrooptic modulation application. , 2009, , .		0
71	Multiphysics analysis of an all-photonic crystal fiber device. , 2009, , .		0
72	Residual thermal stress-induced integrated optical waveguides on Bi ₁₂ GeO ₂₀ substrate. Proceedings of SPIE, 2010, , .	0.8	0

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73	Side-hole photonic crystal fibers. , 2010, , .		0
74	Polarization analysis across different photonic bandgaps of Hybrid Photonic Crystal Fibers. , 2011, , .		0
75	All-Solid Photonic Bandgap Fibers for Pressure Sensing. , 2013, , .		0
76	A bent in-line Mach-Zehnder interferometer sensor to increase refractive index sensitivity. , 2013, , .		0
77	Generation of Polarizing Sections in Highly Birefringent Photonic Crystal Fibers via Post-Processing. , 2013, , .		0
78	Numerical Characterization of an Acousto-Optic Ring Sensor for Measuring D-Glucose Concentrations. , 2013, , .		0
79	Dual-environment pressure sensor using a photonic-crystal fiber. Proceedings of SPIE, 2014, , .	0.8	0
80	Diamond-like carbon thin film for tuned high sensitivity etched fiber Bragg grating refractometer. Proceedings of SPIE, 2015, , .	0.8	0
81	Curvature sensitivity enhancement of fused fiber taper. , 2017, , .		0
82	Modeling of magnetostrictive optical modulator for application as a magnetic field sensor. , 2017, , .		0
83	Nano-antennas on tapered fiber: A new and flexible approach. , 2017, , .		0
84	Minimalist Optical Fiber Design: capillary-like fibers. , 2018, , .		0
85	Study of a THz Hollow-core Fiber for Sample Reflectance Analysis. , 2019, , .		0