

Marcos Ar Franco

List of Publications by Year in descending order

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85
papers

1,247
citations

471061

17
h-index

377514

34
g-index

86
all docs

86
docs citations

86
times ranked

1103
citing authors

#	ARTICLE	IF	CITATIONS
1	Azimuthally asymmetric tubular lattice hollow-core optical fiber. Journal of the Optical Society of America B: Optical Physics, 2021, 38, F23.	0.9	8
2	Exposed-core fiber multimode interference sensor. Results in Optics, 2021, 5, 100125.	0.9	6
3	Angle-Resolved Hollow-Core Fiber-Based Curvature Sensing Approach. Fibers, 2021, 9, 72.	1.8	7
4	All-fiber circular polarization beam splitter based on helically twisted twin-core photonic crystal fiber coupler. Optical Fiber Technology, 2020, 58, 102285.	1.4	17
5	Terahertz optical fibers [Invited]. Optics Express, 2020, 28, 16089.	1.7	108
6	Macro-bending SMS fiber-optic anemometer and flow sensor. Optical Fiber Technology, 2019, 52, 101981.	1.4	18
7	Study of a THz Hollow-core Fiber for Sample Reflectance Analysis. , 2019, , .		0
8	Metal-Filled Embedded-Core Capillary Fibers as Highly Sensitive Temperature Sensors. , 2018, 2, 1-4.		13
9	Minimalist Optical Fiber Design: capillary-like fibers. , 2018, , .		0
10	3D numerical analysis of the acousto-optical modulation in a double-core optical fiber. , 2018, , .		1
11	3D Printed Hollow-Core Terahertz Fibers. Fibers, 2018, 6, 43.	1.8	76
12	Bragg gratings in surface-core fibers: Refractive index and directional curvature sensing. Optical Fiber Technology, 2017, 34, 86-90.	1.4	41
13	Optical sensing with antiresonant capillary fibers. , 2017, , .		3
14	LPFG based fiber optic sensor for magnetic field measurement. Proceedings of SPIE, 2017, , .	0.8	1
15	Simplifying the design of microstructured optical fibre pressure sensors. Scientific Reports, 2017, 7, 2990.	1.6	32
16	Curvature sensitivity enhancement of fused fiber taper. , 2017, , .		0
17	3D numerical investigation of double-core optical fiber properties modulated by flexural acoustic waves. , 2017, , .		1
18	Exploring THz hollow-core fiber designs manufactured by 3D printing. , 2017, , .		7

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19	Modeling of magnetostrictive optical modulator for application as a magnetic field sensor. , 2017, , .		0
20	Nano-antennas on tapered fiber: A new and flexible approach. , 2017, , .		0
21	Sensitivity Analysis of Different Shapes of a Plastic Optical Fiber-Based Immunosensor for Escherichia coli: Simulation and Experimental Results. Sensors, 2017, 17, 2944.	2.1	15
22	Integration of bow-tie plasmonic nano-antennas on tapered fibers. Optics Express, 2017, 25, 8986.	1.7	29
23	Intensity liquid level sensor based on multimode interference and fiber Bragg grating. Measurement Science and Technology, 2016, 27, 125104.	1.4	22
24	Curvature and Vibration Sensing Based on Core Diameter Mismatch Structures. IEEE Transactions on Instrumentation and Measurement, 2016, 65, 2120-2128.	2.4	21
25	Numerical and experimental analysis of the modulation of fiber Bragg gratings by low-frequency complex acoustic waves. Optical Fiber Technology, 2016, 30, 17-22.	1.4	6
26	Ultra-broadband and compact polarization splitter for sensing applications. , 2016, , .		2
27	Diamond-like carbon thin film for tuned high sensitivity etched fiber Bragg grating refractometer. Proceedings of SPIE, 2015, , .	0.8	0
28	Enhanced Terahertz transmission through 3D non-spherical terajets. Proceedings of SPIE, 2015, , .	0.8	1
29	Surface-core fiber gratings. , 2015, , .		1
30	Hydrostatic pressure sensing with surface-core fibers. , 2015, , .		1
31	3D-printed terahertz Bragg fiber. , 2015, , .		8
32	Strong power transfer between photonic bandgaps of hybrid photonic crystal fibers. Optical Fiber Technology, 2015, 22, 36-41.	1.4	1
33	Single-polarization single-mode hollow core photonic bandgap fiber for gyroscope applications. Proceedings of SPIE, 2015, , .	0.8	3
34	Integrated polarizers based on tapered highly birefringent photonic crystal fibers. Optics Express, 2014, 22, 17769.	1.7	4
35	Dual-environment pressure sensor using a photonic-crystal fiber. Proceedings of SPIE, 2014, , .	0.8	0
36	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

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37	Photonic-crystal fiber-based pressure sensor for dual environment monitoring. Applied Optics, 2014, 53, 3668.	0.9	36
38	A new approach to obtain single-polarization hollow-core photonic bandgap fiber. , 2013, , .		2
39	Refractive index sensor based on terahertz multimode interference fiber device. , 2013, , .		3
40	Numerical characterization of piezoelectric resonant transducer modes for acoustic wave excitation in optical fibers. Measurement Science and Technology, 2013, 24, 094020.	1.4	10
41	Polymer optical fibers for Terahertz: Low loss propagation and high evanescent field. , 2013, , .		1
42	Spiral broadband plasmonic nano-antennas. , 2013, , .		1
43	All-Solid Photonic Bandgap Fibers for Pressure Sensing. , 2013, , .		0
44	Enhancement of refractive index sensitivity of the in-line Mach-Zehnder interferometer through bending. , 2013, , .		1
45	Detailed analysis of the longitudinal acousto-optical resonances in a fiber Bragg modulator. Optics Express, 2013, 21, 6997.	1.7	30
46	A bent in-line Mach-Zehnder interferometer sensor to increase refractive index sensitivity. , 2013, , .		0
47	Modelling the bandwidth behaviour of fibre Bragg gratings excited by low-frequency acoustic waves. , 2013, , .		2
48	Generation of Polarizing Sections in Highly Birefringent Photonic Crystal Fibers via Post-Processing. , 2013, , .		0
49	Numerical Characterization of an Acousto-Optic Ring Sensor for Measuring D-Glucose Concentrations. , 2013, , .		0
50	Ultra-high-sensitivity temperature fiber sensor based on multimode interference. Applied Optics, 2012, 51, 3236.	0.9	116
51	Multimode interference tapered fiber refractive index sensors. Applied Optics, 2012, 51, 5941.	0.9	70
52	Spectral bandwidth analysis of high sensitivity refractive index sensor based on multimode interference fiber device. Proceedings of SPIE, 2012, , .	0.8	9
53	Numerical and experimental analysis of polarization properties from hybrid PCFs across different photonic bandgaps. Optical Fiber Technology, 2012, 18, 462-469.	1.4	11
54	Curvature and Temperature Discrimination Using Multimode Interference Fiber Optic Structures—A Proof of Concept. Journal of Lightwave Technology, 2012, 30, 3569-3575.	2.7	36

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55	Ultrahigh-sensitivity temperature fiber sensor based on multimode interference. Applied Optics, 2012, 51, 2542.	2.1	8
56	Tunable Single-Polarization Single-Mode Microstructured Polymer Optical Fiber. Journal of Lightwave Technology, 2011, 29, 2372-2378.	2.7	5
57	Efficient and short-range light coupling to index-matched liquid-filled hole in a solid-core photonic crystal fiber. Optics Express, 2011, 19, 24687.	1.7	34
58	Hybrid photonic crystal fiber sensing of high hydrostatic pressure. , 2011, , .		2
59	Polarization analysis across different photonic bandgaps of Hybrid Photonic Crystal Fibers. , 2011, , .		0
60	Residual thermal stress-induced integrated optical waveguides on Bi ₁₂ GeO ₂₀ substrate. Proceedings of SPIE, 2010, , .	0.8	0
61	Analysis and optimization of an all-fiber device based on photonic crystal fiber with integrated electrodes. Optics Express, 2010, 18, 2842.	1.7	9
62	Side-hole photonic crystal fibers. , 2010, , .		0
63	Thermal tunability of photonic bandgaps in photonic crystal fibers selectively filled with nematic liquid crystal. Proceedings of SPIE, 2010, , .	0.8	2
64	DWDM 40 Gb/s Long Haul Transmission Using PCF for Dispersion Compensation. , 2010, , .		2
65	Pressure Induced Single-Polarization Single-Mode Microstructured Polymer Optical Fiber. , 2010, , .		1
66	Modeling residual thermal stress-induced integrated optical waveguides on Bi ₁₂ GeO ₂₀ substrate for electrooptic modulation application. , 2009, , .		0
67	Multiphysics analysis of an all-photonic crystal fiber device. , 2009, , .		0
68	Analysis of highly birefringent photonic crystal fibers with squeezed rectangular lattices. Microwave and Optical Technology Letters, 2008, 50, 1083-1086.	0.9	3
69	Microstructured Optical Fiber for Residual Dispersion Compensation Over S + C + L + U Wavelength Bands. IEEE Photonics Technology Letters, 2008, 20, 751-753.	1.3	51
70	Numerical and Experimental Studies for a High Pressure Photonic Crystal Fiber Based Sensor. AIP Conference Proceedings, 2008, , .	0.3	2
71	Effect of Coupling between Fundamental and Cladding Modes on Bending Losses in Single-Polarization Single-Mode Photonic Crystal Fiber. AIP Conference Proceedings, 2008, , .	0.3	1
72	Opto-Mechanical Response of a Suspended-Slab-Core Optical Fiber. AIP Conference Proceedings, 2008, , .	0.3	0

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73	Dual-concentric-core microstructured optical fiber with selective filling of hole for chromatic dispersion compensation. , 2008, , .		0
74	Single-design-parameter microstructured optical fiber for chromatic dispersion tailoring and evanescent field enhancement. Optics Letters, 2007, 32, 3324.	1.7	27
75	Side-Polished Microstructured Optical Fiber for Temperature Sensor Application. IEEE Photonics Technology Letters, 2007, 19, 1738-1740.	1.3	14
76	Dispersion Properties of Microstructured Optical Fiber with 12-Fold Quasicrystal Lattice of Holes. , 2007, , .		1
77	Microstructured-core optical fibre for evanescent sensing applications. Optics Express, 2006, 14, 13056.	1.7	254
78	<title>Photonic crystal fiber for chromatic dispersion compensation</title>. , 2004, , .		0
79	A simple procedure for impedance matching and tuning of microwave couplers for an electron linear accelerator. IEEE Transactions on Microwave Theory and Techniques, 2001, 49, 562-564.	2.9	5
80	Finite element analysis of anisotropic optical waveguide with arbitrary index profile. IEEE Transactions on Magnetics, 1999, 35, 1546-1549.	1.2	14
81	MATHEMATICA notebook for computing tetrahedral finite element shape functions and matrices for the Helmholtz equation. IEEE Transactions on Magnetics, 1998, 34, 3387-3390.	1.2	4
82	Modal analysis of anisotropic diffused-channel waveguide by a scalar finite element method. IEEE Transactions on Magnetics, 1998, 34, 2783-2786.	1.2	12
83	Automatic mesh generation for 3D electromagnetic field analysis by FD-TD method. IEEE Transactions on Magnetics, 1998, 34, 3383-3386.	1.2	12
84	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.	0.6	2
85	Highly birefringent photonic crystal fiber with squeezed hexagonal and rectangular lattices. , 0, , .		0