

Cristiano M Cordeiro

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.

130
papers

3,115
citations

30
h-index

52
g-index

165
ext. papers

3,979
ext. citations

3.5
avg, IF

5.32
L-index

#	Paper	IF	Citations
130	All-optical real-time monitoring of air/vacuum valves in water pipeline systems using fiber Bragg gratings. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2022 , 44, 1	2	0
129	Angle-Resolved Hollow-Core Fiber-Based Curvature Sensing Approach. <i>Fibers</i> , 2021 , 9, 72	3.7	0
128	Single-Step Tabletop Fabrication for Low-Attenuation Terahertz Special Optical Fibers. <i>Advanced Photonics Research</i> , 2021 , 2, 2100165	1.9	0
127	Addendum: Sultana, J., et al. Terahertz Hollow Core Antiresonant Fiber with Metamaterial Cladding. <i>Fibers</i> 2020, 8, 14. <i>Fibers</i> , 2021 , 9, 20	3.7	0
126	. <i>IEEE Sensors Journal</i> , 2021 , 21, 1534-1539	4	1
125	Hollow Core Inhibited Coupled Antiresonant Terahertz Fiber: A Numerical and Experimental Study. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2021 , 11, 245-260	3.4	6
124	Distributed Pressure Sensing Using an Embedded-Core Capillary Fiber and Optical Frequency Domain Reflectometry. <i>IEEE Sensors Journal</i> , 2021 , 21, 360-365	4	3
123	Correction to: Experimental Study on Glass and Polymers: Determining the Optimal Material for Potential Use in Terahertz Technology. <i>IEEE Access</i> , 2021 , 9, 2705-2705	3.5	0
122	Agarose-Based Fluorescent Waveguide with Embedded Silica Nanoparticle/Carbon Nanodot Hybrids for pH Sensing. <i>ACS Applied Nano Materials</i> , 2021 , 4, 9738-9751	5.6	3
121	Azimuthally asymmetric tubular lattice hollow-core optical fiber. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2021 , 38, F23	1.7	1
120	Exposed-core fiber multimode interference sensor. <i>Results in Optics</i> , 2021 , 5, 100125	1	3
119	Entropy analysis of optical fiber specklegram sensors. <i>Results in Optics</i> , 2021 , 5, 100155	1	1
118	Agarose-based structured optical fibre. <i>Scientific Reports</i> , 2020 , 10, 7035	4.9	14
117	Exploring Low Loss and Single Mode in Antiresonant Tube Lattice Terahertz Fibers. <i>IEEE Access</i> , 2020 , 8, 113309-113317	3.5	13
116	Ultra-simplified Single-Step Fabrication of Microstructured Optical Fiber. <i>Scientific Reports</i> , 2020 , 10, 9678	4.9	12
115	3D Printing Technology for Tapered Optical Fiber Protection With Gas Sensing Possibilities. <i>Photonic Sensors</i> , 2020 , 10, 298-305	2.3	2
114	Terahertz Hollow Core Antiresonant Fiber with Metamaterial Cladding. <i>Fibers</i> , 2020 , 8, 14	3.7	15

113	Experimental Study on Glass and Polymers: Determining the Optimal Material for Potential Use in Terahertz Technology. <i>IEEE Access</i> , 2020 , 8, 97204-97214	3.5	24
112	Terahertz optical fibers [Invited]. <i>Optics Express</i> , 2020 , 28, 16089-16117	3.3	48
111	Multimode exposed core fiber specklegram sensor. <i>Optics Letters</i> , 2020 , 45, 3212-3215	3	8
110	Tunable localized surface plasmon graphene metasurface for multiband superabsorption and terahertz sensing. <i>Carbon</i> , 2020 , 158, 559-567	10.4	97
109	Model-Based Design and Simulation of Paraxial Ray Optics Systems. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 8278	2.6	0
108	All-Optical Fiber Anemometer Based on the Pitot-Static Tube. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2020 , 69, 1805-1811	5.2	5
107	Optical Fiber Specklegram Chemical Sensor Based on a Concatenated Multimode Fiber Structure. <i>Journal of Lightwave Technology</i> , 2019 , 37, 5041-5047	4	16
106	Gasoline Quality Sensor Based on Tilted Fiber Bragg Gratings. <i>Photonics</i> , 2019 , 6, 51	2.2	9
105	A Hi-Bi Ultra-Sensitive Surface Plasmon Resonance Fiber Sensor. <i>IEEE Access</i> , 2019 , 7, 79085-79094	3.5	67
104	Biomechanical behaviour of bulk-fill resin composites in class II restorations. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2019 , 98, 255-261	4.1	12
103	Macrobending SMS fiber-optic anemometer and flow sensor. <i>Optical Fiber Technology</i> , 2019 , 52, 101981-101988	2.4	11
102	Optical Fiber Anemometer Based on a Multi-FBG Curvature Sensor. <i>IEEE Sensors Journal</i> , 2019 , 19, 8727-8732	4.7	6
101	Embedding optical Fiber Bragg Grating (FBG) sensors in 3D printed casings. <i>Optical Fiber Technology</i> , 2019 , 53, 102015	2.4	9
100	Broadband Characterization of Glass and Polymer Materials Using THz-TDS 2019 ,		9
99	Reusable polymer optical fiber strain sensor with memory capability based on ABS crazing. <i>Applied Optics</i> , 2019 , 58, 9870-9875	1.7	2
98	Using the Smartphone as an Ubiquitous Platform for Implementing Optical Fiber Sensors 2019 ,		1
97	Simultaneous detection of humidity and temperature through an adhesive based Fabry-Pérot cavity combined with polymer fiber Bragg grating. <i>Optics and Lasers in Engineering</i> , 2019 , 114, 37-43	4.6	23
96	Metal-Filled Embedded-Core Capillary Fibers as Highly Sensitive Temperature Sensors 2018 , 2, 1-4		8

95	3D Printed Hollow-Core Terahertz Fibers. <i>Fibers</i> , 2018 , 6, 43	3.7	38
94	Polymer optical fiber specklegram strain sensor with extended dynamic range. <i>Optical Engineering</i> , 2018 , 57, 1	1.1	18
93	Magnetic and Fiber Bragg Grating Characterization of 3D Printed Magnetic Samples 2018 ,		1
92	Optical Fiber Chemical Sensor Based on the Analysis of Fiber Specklegrams Characteristics 2018 ,		2
91	Optofluidic Device based on a 3D Printed Chip and a Sensing Tilted Fiber Bragg Gratings 2018 ,		1
90	Strain Sensitivity Enhancement of a Sensing Head Based on ZEONEX Polymer FBG in Series With Silica Fiber. <i>Journal of Lightwave Technology</i> , 2018 , 36, 5106-5112	4	9
89	Mid-IR Hollow-core microstructured fiber drawn from a 3D printed PETG preform. <i>Scientific Reports</i> , 2018 , 8, 8113	4.9	32
88	Bragg gratings in surface-core fibers: Refractive index and directional curvature sensing. <i>Optical Fiber Technology</i> , 2017 , 34, 86-90	2.4	29
87	Optical sensing with antiresonant capillary fibers 2017 ,		1
86	Characterizing Slow Photochemical Reaction Kinetics by Enhanced Sampling of Rare Events with Capillary Optical Fibers and Kramers' Theory. <i>ACS Omega</i> , 2017 , 2, 2719-2727	3.9	3
85	Sensitivity of a PMMA polymer capillary microresonator for measuring relative humidity.. <i>Journal of Physics: Conference Series</i> , 2017 , 792, 012050	0.3	1
84	Vibration and Magnetic Field Sensing Using a Long-Period Grating. <i>IEEE Sensors Journal</i> , 2017 , 17, 6615-6621		7
83	Simplifying the design of microstructured optical fibre pressure sensors. <i>Scientific Reports</i> , 2017 , 7, 2990	4.9	22
82	Multiparameter POF Sensing Based on Multimode Interference and Fiber Bragg Grating. <i>Journal of Lightwave Technology</i> , 2017 , 35, 3-9	4	19
81	3D printed microstructured optical fibers 2017 ,		8
80	Exploring THz hollow-core fiber designs manufactured by 3D printing 2017 ,		3
79	Highly sensitive temperature sensor using a Sagnac loop interferometer based on a side-hole photonic crystal fiber filled with metal. <i>Applied Optics</i> , 2017 , 56, 156-162	0.2	83
78	Integration of bow-tie plasmonic nano-antennas on tapered fibers. <i>Optics Express</i> , 2017 , 25, 8986-8996	3.3	20

77	Brillouin scattering self-cancellation. <i>Nature Communications</i> , 2016 , 7, 11759	17.4	64
76	Intensity liquid level sensor based on multimode interference and fiber Bragg grating. <i>Measurement Science and Technology</i> , 2016 , 27, 125104	2	15
75	Simultaneous measurement of strain, temperature and refractive index based on multimode interference, fiber tapering and fiber Bragg gratings. <i>Measurement Science and Technology</i> , 2016 , 27, 075107	2	33
74	Determination of Young's modulus using optical fiber long-period gratings. <i>Measurement Science and Technology</i> , 2016 , 27, 015102	2	0
73	Bragg Gratings Inscription in Highly Birefringent Microstructured POFs. <i>IEEE Photonics Technology Letters</i> , 2016 , 28, 621-624	2.2	5
72	Study of optical absorption, visible emission and NIR's luminescence spectra of Tm ³⁺ /Yb ³⁺ , Ho ³⁺ /Yb ³⁺ and Tm ³⁺ /Ho ³⁺ /Yb ³⁺ doped tellurite glasses. <i>Journal of Luminescence</i> , 2015 , 166, 8-16	3.8	25
71	Morphology dependent polymeric capillary optical resonator hydrostatic pressure sensor. <i>Optics Express</i> , 2015 , 23, 10643-52	3.3	16
70	Effect of ZnO on spectroscopic properties of Sm ³⁺ doped zinc phosphate glasses. <i>Physica B: Condensed Matter</i> , 2015 , 459, 79-87	2.8	40
69	Surface-core fiber gratings 2015 ,		1
68	Hydrostatic pressure sensing with surface-core fibers 2015 ,		1
67	3D-printed terahertz Bragg fiber 2015 ,		5
66	Strong power transfer between photonic bandgaps of hybrid photonic crystal fibers. <i>Optical Fiber Technology</i> , 2015 , 22, 36-41	2.4	1
65	Temperature sensibility of the birefringence properties in side-hole photonic crystal fiber filled with Indium. <i>Applied Physics Letters</i> , 2014 , 105, 201101	3.4	13
64	Photonic-crystal fiber-based pressure sensor for dual environment monitoring. <i>Applied Optics</i> , 2014 , 53, 3668-72	1.7	28
63	Integrated polarizers based on tapered highly birefringent photonic crystal fibers. <i>Optics Express</i> , 2014 , 22, 17769-75	3.3	3
62	Tapered GRIN fiber microsensors. <i>Optics Express</i> , 2014 , 22, 30432-41	3.3	7
61	Analysis of immersed silica optical microfiber knot resonator and its application as a moisture sensor. <i>Applied Optics</i> , 2014 , 53, 7454-61	0.2	25
60	Characterisation of a Nafion film by optical fibre Fabry-Pérot interferometry for humidity sensing. <i>Sensors and Actuators B: Chemical</i> , 2014 , 196, 99-105	8.5	60

59	Fabrication of a spun elliptically birefringent photonic crystal fiber and its characterization as an electrical current sensor 2013 ,		3
58	Surface-Enhanced Resonance Raman Scattering (SERRS) Using Au Nanohole Arrays on Optical Fiber Tips. <i>Plasmonics</i> , 2013 , 8, 1113-1121	2.4	32
57	Simultaneous measurement of refractive index and temperature using multimode interference inside a high birefringence fiber loop mirror. <i>Sensors and Actuators B: Chemical</i> , 2013 , 177, 717-723	8.5	31
56	High sensitivity LPG Mach-Zehnder sensor for real-time fuel conformity analysis. <i>Measurement Science and Technology</i> , 2013 , 24, 015102	2	13
55	Second harmonic generation and enhancement in microfibers and loop resonators. <i>Applied Physics Letters</i> , 2013 , 102, 201120	3.4	16
54	Strain-Temperature Discrimination Using Multimode Interference in Tapered Fiber. <i>IEEE Photonics Technology Letters</i> , 2013 , 25, 155-158	2.2	39
53	Optical sensor based on two in-series birefringent optical fibers. <i>Applied Optics</i> , 2013 , 52, 4915-21	1.7	11
52	D-Microfibers. <i>Journal of Lightwave Technology</i> , 2013 , 31, 2756-2761	4	17
51	Large temperature sensitivity of birefringent side-hole photonic crystal fiber filled with Indium 2013 ,		1
50	Novel Sealing Technique for Practical Liquid-Core Photonic Crystal Fibers. <i>IEEE Photonics Technology Letters</i> , 2012 , 24, 191-193	2.2	9
49	Curvature and Temperature Discrimination Using Multimode Interference Fiber Optic Structures: A Proof of Concept. <i>Journal of Lightwave Technology</i> , 2012 , 30, 3569-3575	4	30
48	Multimode interference in tapered single mode-multimode-single mode fiber structures for strain sensing applications 2012 ,		5
47	Magnetic field sensor with Terfenol-D thin-film coated FBG 2012 ,		6
46	Intensity curvature sensor based on photonic crystal fiber with three coupled cores. <i>Optics Communications</i> , 2012 , 285, 5128-5131	2	18
45	Broadband dispersion compensation using inner cladding modes in photonic crystal fibers. <i>Optics Express</i> , 2012 , 20, 3467-72	3.3	8
44	Selectively coupling core pairs in multicore photonic crystal fibers: optical couplers, filters and polarization splitters for space-division-multiplexed transmission systems. <i>Optics Express</i> , 2012 , 20, 28983-38		5
43	Ultrahigh-sensitivity temperature fiber sensor based on multimode interference. <i>Applied Optics</i> , 2012 , 51, 3236-42	1.7	91
42	Multimode interference tapered fiber refractive index sensors. <i>Applied Optics</i> , 2012 , 51, 5941-5	1.7	51

41	Spectral bandwidth analysis of high sensitivity refractive index sensor based on multimode interference fiber device 2012,		6
40	Ultra-high-sensitivity temperature fiber sensor based on multimode interference 2012, 51, 2542		6
39	Tunable Single-Polarization Single-Mode Microstructured Polymer Optical Fiber. <i>Journal of Lightwave Technology</i> , 2011, 29, 2372-2378	4	4
38	Analysis and optimization of an all-fiber device based on photonic crystal fiber with integrated electrodes. <i>Optics Express</i> , 2010, 18, 2842-8	3-3	7
37	Ultra-high-birefringent squeezed lattice photonic crystal fiber with rotated elliptical air holes. <i>Optics Letters</i> , 2010, 35, 544-6	3	57
36	Luminescence of PbS quantum dots spread on the core surface of a silica microstructured optical fiber. <i>Journal of Non-Crystalline Solids</i> , 2010, 356, 2397-2401	3-9	5
35	Sealed liquid-core photonic crystal fibers for practical nonlinear optics, nanophotonics, and sensing applications 2010,		2
34	Editorial Special Issue on Photonic Crystal-Based Sensors. <i>IEEE Sensors Journal</i> , 2010, 10, 1167-1168	4	
33	All-fiber devices based on photonic crystal fibers with integrated electrodes. <i>Optics Express</i> , 2009, 17, 1660-5	3-3	30
32	Pressure Sensing Based on Nonconventional Air-Guiding Transmission Windows in Hollow-Core Photonic Crystal Fibers. <i>Journal of Lightwave Technology</i> , 2009, 27, 1605-1609	4	14
31	Nonlinear interaction between two different photonic bandgaps of a hybrid photonic crystal fiber. <i>Optics Letters</i> , 2008, 33, 2080-2	3	18
30	Over 4000 nm bandwidth of mid-IR supercontinuum generation in sub-centimeter segments of highly nonlinear tellurite PCFs. <i>Optics Express</i> , 2008, 16, 7161-8	3-3	325
29	Supercontinuum generation in a water-core photonic crystal fiber. <i>Optics Express</i> , 2008, 16, 9671-6	3-3	84
28	Numerical and Experimental Studies for a High Pressure Photonic Crystal Fiber Based Sensor. <i>AIP Conference Proceedings</i> , 2008,	0	1
27	Effect of Coupling between Fundamental and Cladding Modes on Bending Losses in Single-Polarization Single-Mode Photonic Crystal Fiber. <i>AIP Conference Proceedings</i> , 2008,	0	1
26	Fabrication and Postprocessing of Ge-Doped Nanoweb Fibers. <i>AIP Conference Proceedings</i> , 2008,	0	2
25	Recent Advances on Optical Sensing Using Photonic Crystal Fibers. <i>AIP Conference Proceedings</i> , 2008,	0	2
24	Slotted microstructured optical fibers 2008,		1

23	Creating and fixing a metal nanoparticle layer on the holes of microstructured fibers for plasmonic applications 2008 ,		1
22	Borosilicate glass for photonics applications. <i>Optical Materials</i> , 2008 , 30, 1816-1821	3.3	7
21	Field enhancement within an optical fibre with a subwavelength air core. <i>Nature Photonics</i> , 2007 , 1, 115-118		125
20	Towards practical liquid and gas sensing with photonic crystal fibres: side access to the fibre microstructure and single-mode liquid-core fibre. <i>Measurement Science and Technology</i> , 2007 , 18, 3075-3081		53
19	Single-design-parameter microstructured optical fiber for chromatic dispersion tailoring and evanescent field enhancement. <i>Optics Letters</i> , 2007 , 32, 3324-6	3	21
18	Liquid-core, liquid-cladding photonic crystal fibers. <i>Optics Express</i> , 2007 , 15, 11207-12	3.3	52
17	Opening up optical fibres. <i>Optics Express</i> , 2007 , 15, 11843-8	3.3	69
16	Tellurite photonic crystal fiber with Er ³⁺ -Tm ³⁺ for broadband optical amplifier in 1550nm 2006 , 6116, 20		0
15	Micro-structured Er ³⁺ -Tm ³⁺ -co-doped tellurite fiber for broadband optical amplifier around 1550nm 2006 , 6314, 200		0
14	Phase constraint for the waves diffracted by lossless symmetrical gratings at Littrow mount. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2006 , 23, 166-71	1.8	1
13	Hybrid photonic crystal fiber. <i>Optics Express</i> , 2006 , 14, 926-31	3.3	92
12	Lateral access to the holes of photonic crystal fibers - selective filling and sensing applications. <i>Optics Express</i> , 2006 , 14, 8403-12	3.3	104
11	Microstructured-core optical fibre for evanescent sensing applications. <i>Optics Express</i> , 2006 , 14, 13056-66	3.3	204
10	Tellurite photonic crystal fiber made by a stack-and-draw technique. <i>Journal of Non-Crystalline Solids</i> , 2006 , 352, 3423-3428	3.9	56
9	Photonic bandgap with an index step of one percent. <i>Optics Express</i> , 2005 , 13, 309-14	3.3	120
8	Guidance properties of low-contrast photonic bandgap fibres. <i>Optics Express</i> , 2005 , 13, 2503-11	3.3	76
7	Engineering the dispersion of tapered fibers for supercontinuum generation with a 1064 nm pump laser. <i>Optics Letters</i> , 2005 , 30, 1980-2	3	65
6	Photonic crystal in-fiber devices. <i>Optical Engineering</i> , 2005 , 44, 125003	1.1	4

5 Progress on holographic techniques to study photo-chemical reactions in solid state **2003**, 4829, 809

4 Progress on holographic techniques to measure real-time phase and amplitude gratings in photosensitive materials. *Journal of Optics*, **2003**, 5, S170-S174 5

3 Measurement of phase differences between the diffracted orders of deep relief gratings. *Optics Letters*, **2003**, 28, 683-5 3 7

2 Depletion region in thermally poled fused silica. *Applied Physics Letters*, **2000**, 76, 2496-2498 3.4 27

1 Interferometric measurements of ionic diffusion in soda-lime glasses. *Journal of Non-Crystalline Solids*, **1999**, 247, 183-188 3.9 3