Cristiano M Cordeiro

List of Publications by Citations

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	Over 4000 nm bandwidth of mid-IR supercontinuum generation in sub-centimeter segments of highly nonlinear tellurite PCFs. *Optics Express*, **2008**, 16, 7161-8	3.3	325
129	Microstructured-core optical fibre for evanescent sensing applications. *Optics Express*, **2006**, 14, 13056-66	3.3	204
128	Field enhancement within an optical fibre with a subwavelength air core. *Nature Photonics*, **2007**, 1, 115-118	33.9	125
127	Photonic bandgap with an index step of one percent. *Optics Express*, **2005**, 13, 309-14	3.3	120
126	Lateral access to the holes of photonic crystal fibers - selective filling and sensing applications. *Optics Express*, **2006**, 14, 8403-12	3.3	104
125	Tunable localized surface plasmon graphene metasurface for multiband superabsorption and terahertz sensing. *Carbon*, **2020**, 158, 559-567	10.4	97
124	Hybrid photonic crystal fiber. *Optics Express*, **2006**, 14, 926-31	3.3	92
123	Ultrahigh-sensitivity temperature fiber sensor based on multimode interference. *Applied Optics*, **2012**, 51, 3236-42	1.7	91
122	Supercontinuum generation in a water-core photonic crystal fiber. *Optics Express*, **2008**, 16, 9671-6	3.3	84
121	Highly sensitive temperature sensor using a Sagnac loop interferometer based on a side-hole photonic crystal fiber filled with metal. *Applied Optics*, **2017**, 56, 156-162	0.2	83
120	Guidance properties of low-contrast photonic bandgap fibres. *Optics Express*, **2005**, 13, 2503-11	3.3	76
119	Opening up optical fibres. *Optics Express*, **2007**, 15, 11843-8	3.3	69
118	A Hi-Bi Ultra-Sensitive Surface Plasmon Resonance Fiber Sensor. *IEEE Access*, **2019**, 7, 79085-79094	3.5	67
117	Engineering the dispersion of tapered fibers for supercontinuum generation with a 1064 nm pump laser. *Optics Letters*, **2005**, 30, 1980-2	3	65
116	Brillouin scattering self-cancellation. *Nature Communications*, **2016**, 7, 11759	17.4	64
115	Characterisation of a Nafion film by optical fibre Fabry–Perot interferometry for humidity sensing. *Sensors and Actuators B: Chemical*, **2014**, 196, 99-105	8.5	60
114	Ultrahigh-birefringent squeezed lattice photonic crystal fiber with rotated elliptical air holes. *Optics Letters*, **2010**, 35, 544-6	3	57

113	Tellurite photonic crystal fiber made by a stack-and-draw technique. *Journal of Non-Crystalline Solids*, **2006**, 352, 3423-3428	3.9	56
112	Towards practical liquid and gas sensing with photonic crystal fibres: side access to the fibre microstructure and single-mode liquid-core fibre. *Measurement Science and Technology*, **2007**, 18, 3075-3081	2	53
111	Liquid-core, liquid-cladding photonic crystal fibers. *Optics Express*, **2007**, 15, 11207-12	3.3	52
110	Multimode interference tapered fiber refractive index sensors. *Applied Optics*, **2012**, 51, 5941-5	1.7	51
109	Terahertz optical fibers [Invited]. *Optics Express*, **2020**, 28, 16089-16117	3.3	48
108	Effect of ZnO on spectroscopic properties of Sm3+ doped zinc phosphate glasses. *Physica B: Condensed Matter*, **2015**, 459, 79-87	2.8	40
107	Strain-Temperature Discrimination Using Multimode Interference in Tapered Fiber. *IEEE Photonics Technology Letters*, **2013**, 25, 155-158	2.2	39
106	3D Printed Hollow-Core Terahertz Fibers. *Fibers*, **2018**, 6, 43	3.7	38
105	Simultaneous measurement of strain, temperature and refractive index based on multimode interference, fiber tapering and fiber Bragg gratings. *Measurement Science and Technology*, **2016**, 27, 075107	2	33
104	Surface-Enhanced Resonance Raman Scattering (SERRS) Using Au Nanohole Arrays on Optical Fiber Tips. *Plasmonics*, **2013**, 8, 1113-1121	2.4	32
103	Mid-IR Hollow-core microstructured fiber drawn from a 3D printed PETG preform. *Scientific Reports*, **2018**, 8, 8113	4.9	32
102	Simultaneous measurement of refractive index and temperature using multimode interference inside a high birefringence fiber loop mirror. *Sensors and Actuators B: Chemical*, **2013**, 177, 717-723	8.5	31
101	Curvature and Temperature Discrimination Using Multimode Interference Fiber Optic Structures—A Proof of Concept. *Journal of Lightwave Technology*, **2012**, 30, 3569-3575	4	30
100	All-fiber devices based on photonic crystal fibers with integrated electrodes. *Optics Express*, **2009**, 17, 1660-5	3.3	30
99	Bragg gratings in surface-core fibers: Refractive index and directional curvature sensing. *Optical Fiber Technology*, **2017**, 34, 86-90	2.4	29
98	Photonic-crystal fiber-based pressure sensor for dual environment monitoring. *Applied Optics*, **2014**, 53, 3668-72	1.7	28
97	Depletion region in thermally poled fused silica. *Applied Physics Letters*, **2000**, 76, 2496-2498	3.4	27
96	Study of optical absorption, visible emission and NIR—is luminescence spectra of Tm3+/Yb3+, Ho3+/Yb3+ and Tm3+/Ho3+/Yb3+ doped tellurite glasses. *Journal of Luminescence*, **2015**, 166, 8-16	3.8	25

95	Analysis of immersed silica optical microfiber knot resonator and its application as a moisture sensor. *Applied Optics*, **2014**, 53, 7454-61	0.2	25
94	Experimental Study on Glass and Polymers: Determining the Optimal Material for Potential Use in Terahertz Technology. *IEEE Access*, **2020**, 8, 97204-97214	3.5	24
93	Simultaneous detection of humidity and temperature through an adhesive based Fabry-Pérot cavity combined with polymer fiber Bragg grating. *Optics and Lasers in Engineering*, **2019**, 114, 37-43	4.6	23
92	Simplifying the design of microstructured optical fibre pressure sensors. *Scientific Reports*, **2017**, 7, 2990	4.9	22
91	Single-design-parameter microstructured optical fiber for chromatic dispersion tailoring and evanescent field enhancement. *Optics Letters*, **2007**, 32, 3324-6	3	21
90	Integration of bow-tie plasmonic nano-antennas on tapered fibers. *Optics Express*, **2017**, 25, 8986-8996	3.3	20
89	Multiparameter POF Sensing Based on Multimode Interference and Fiber Bragg Grating. *Journal of Lightwave Technology*, **2017**, 35, 3-9	4	19
88	Intensity curvature sensor based on photonic crystal fiber with three coupled cores. *Optics Communications*, **2012**, 285, 5128-5131	2	18
87	Nonlinear interaction between two different photonic bandgaps of a hybrid photonic crystal fiber. *Optics Letters*, **2008**, 33, 2080-2	3	18
86	Polymer optical fiber specklegram strain sensor with extended dynamic range. *Optical Engineering*, **2018**, 57, 1	1.1	18
85	D-Microfibers. *Journal of Lightwave Technology*, **2013**, 31, 2756-2761	4	17
84	Optical Fiber Specklegram Chemical Sensor Based on a Concatenated Multimode Fiber Structure. *Journal of Lightwave Technology*, **2019**, 37, 5041-5047	4	16
83	Morphology dependent polymeric capillary optical resonator hydrostatic pressure sensor. *Optics Express*, **2015**, 23, 10643-52	3.3	16
82	Second harmonic generation and enhancement in microfibers and loop resonators. *Applied Physics Letters*, **2013**, 102, 201120	3.4	16
81	Terahertz Hollow Core Antiresonant Fiber with Metamaterial Cladding. *Fibers*, **2020**, 8, 14	3.7	15
80	Intensity liquid level sensor based on multimode interference and fiber Bragg grating. *Measurement Science and Technology*, **2016**, 27, 125104	2	15
79	Agarose-based structured optical fibre. *Scientific Reports*, **2020**, 10, 7035	4.9	14
78	Pressure Sensing Based on Nonconventional Air-Guiding Transmission Windows in Hollow-Core Photonic Crystal Fibers. *Journal of Lightwave Technology*, **2009**, 27, 1605-1609	4	14

77	Exploring Low Loss and Single Mode in Antiresonant Tube Lattice Terahertz Fibers. *IEEE Access*, **2020**, 8, 113309-113317	3.5	13
76	Temperature sensibility of the birefringence properties in side-hole photonic crystal fiber filled with Indium. *Applied Physics Letters*, **2014**, 105, 201101	3.4	13
75	High sensitivity LPG Mach-Zehnder sensor for real-time fuel conformity analysis. *Measurement Science and Technology*, **2013**, 24, 015102	2	13
74	Ultra-simplified Single-Step Fabrication of Microstructured Optical Fiber. *Scientific Reports*, **2020**, 10, 9678	4.9	12
73	Biomechanical behaviour of bulk-fill resin composites in class II restorations. *Journal of the Mechanical Behavior of Biomedical Materials*, **2019**, 98, 255-261	4.1	12
72	Macrobending SMS fiber-optic anemometer and flow sensor. *Optical Fiber Technology*, **2019**, 52, 101981	2.4	11
71	Optical sensor based on two in-series birefringent optical fibers. *Applied Optics*, **2013**, 52, 4915-21	1.7	11
70	Gasoline Quality Sensor Based on Tilted Fiber Bragg Gratings. *Photonics*, **2019**, 6, 51	2.2	9
69	Embedding optical Fiber Bragg Grating (FBG) sensors in 3D printed casings. *Optical Fiber Technology*, **2019**, 53, 102015	2.4	9
68	Broadband Characterization of Glass and Polymer Materials Using THz-TDS **2019**,		9
67	Novel Sealing Technique for Practical Liquid-Core Photonic Crystal Fibers. *IEEE Photonics Technology Letters*, **2012**, 24, 191-193	2.2	9
66	Strain Sensitivity Enhancement of a Sensing Head Based on ZEONEX Polymer FBG in Series With Silica Fiber. *Journal of Lightwave Technology*, **2018**, 36, 5106-5112	4	9
65	Metal-Filled Embedded-Core Capillary Fibers as Highly Sensitive Temperature Sensors **2018**, 2, 1-4		8
64	3D printed microstructured optical fibers **2017**,		8
63	Broadband dispersion compensation using inner cladding modes in photonic crystal fibers. *Optics Express*, **2012**, 20, 3467-72	3.3	8
62	Multimode exposed core fiber specklegram sensor. *Optics Letters*, **2020**, 45, 3212-3215	3	8
61	Vibration and Magnetic Field Sensing Using a Long-Period Grating. *IEEE Sensors Journal*, **2017**, 17, 6615-6621	4	7
60	Tapered GRIN fiber microsensor. *Optics Express*, **2014**, 22, 30432-41	3.3	7

59	Analysis and optimization of an all-fiber device based on photonic crystal fiber with integrated electrodes. *Optics Express*, **2010**, 18, 2842-8	3.3	7
58	Borosilicate glass for photonics applications. *Optical Materials*, **2008**, 30, 1816-1821	3.3	7
57	Measurement of phase differences between the diffracted orders of deep relief gratings. *Optics Letters*, **2003**, 28, 683-5	3	7
56	Optical Fiber Anemometer Based on a Multi-FBG Curvature Sensor. *IEEE Sensors Journal*, **2019**, 19, 8727-8732	4	6
55	Magnetic field sensor with Terfenol-D thin-film coated FBG **2012**,		6
54	Spectral bandwidth analysis of high sensitivity refractive index sensor based on multimode interference fiber device **2012**,		6
53	Ultrahigh-sensitivity temperature fiber sensor based on multimode interference **2012**, 51, 2542		6
52	Hollow Core Inhibited Coupled Antiresonant Terahertz Fiber: A Numerical and Experimental Study. *IEEE Transactions on Terahertz Science and Technology*, **2021**, 11, 245-260	3.4	6
51	Bragg Gratings Inscription in Highly Birefringent Microstructured POFs. *IEEE Photonics Technology Letters*, **2016**, 28, 621-624	2.2	5
50	3D-printed terahertz Bragg fiber **2015**,		5
49	Multimode interference in tapered single mode-multimode-single mode fiber structures for strain sensing applications **2012**,		5
48	Luminescence of PbS quantum dots spread on the core surface of a silica microstructured optical fiber. *Journal of Non-Crystalline Solids*, **2010**, 356, 2397-2401	3.9	5
47	Selectively coupling core pairs in multicore photonic crystal fibers: optical couplers, filters and polarization splitters for space-division-multiplexed transmission systems. *Optics Express*, **2012**, 20, 28981-8	3.3	5
46	Progress on holographic techniques to measure real-time phase and amplitude gratings in photosensitive materials. *Journal of Optics*, **2003**, 5, S170-S174		5
45	All-Optical Fiber Anemometer Based on the Pitot-Static Tube. *IEEE Transactions on Instrumentation and Measurement*, **2020**, 69, 1805-1811	5.2	5
44	Tunable Single-Polarization Single-Mode Microstructured Polymer Optical Fiber. *Journal of Lightwave Technology*, **2011**, 29, 2372-2378	4	4
43	Photonic crystal in-fiber devices. *Optical Engineering*, **2005**, 44, 125003	1.1	4
42	Characterizing Slow Photochemical Reaction Kinetics by Enhanced Sampling of Rare Events with Capillary Optical Fibers and Kramers' Theory. *ACS Omega*, **2017**, 2, 2719-2727	3.9	3

41	Fabrication of a spun elliptically birefringent photonic crystal fiber and its characterization as an electrical current sensor **2013**,		3
40	Exploring THz hollow-core fiber designs manufactured by 3D printing **2017**,		3
39	Integrated polarizers based on tapered highly birefringent photonic crystal fibers. *Optics Express*, **2014**, 22, 17769-75	3.3	3
38	Interferometric measurements of ionic diffusion in soda□me glasses. *Journal of Non-Crystalline Solids*, **1999**, 247, 183-188	3.9	3
37	Distributed Pressure Sensing Using an Embedded-Core Capillary Fiber and Optical Frequency Domain Reflectometry. *IEEE Sensors Journal*, **2021**, 21, 360-365	4	3
36	Agarose-Based Fluorescent Waveguide with Embedded Silica Nanoparticle□arbon Nanodot Hybrids for pH Sensing. *ACS Applied Nano Materials*, **2021**, 4, 9738-9751	5.6	3
35	Exposed-core fiber multimode interference sensor. *Results in Optics*, **2021**, 5, 100125	1	3
34	3D Printing Technology for Tapered Optical Fiber Protection With Gas Sensing Possibilities. *Photonic Sensors*, **2020**, 10, 298-305	2.3	2
33	Sealed liquid-core photonic crystal fibers for practical nonlinear optics, nanophotonics, and sensing applications **2010**,		2
32	Fabrication and Postprocessing of Ge-Doped Nanoweb Fibers. *AIP Conference Proceedings*, **2008**,	0	2
31	Recent Advances on Optical Sensing Using Photonic Crystal Fibers. *AIP Conference Proceedings*, **2008**,	0	2
30	Reusable polymer optical fiber strain sensor with memory capability based on ABS crazing. *Applied Optics*, **2019**, 58, 9870-9875	1.7	2
29	Optical Fiber Chemical Sensor Based on the Analysis of Fiber Specklegrams Characteristics **2018**,		2
28	Optical sensing with antiresonant capillary fibers **2017**,		1
27	Sensitivity of a PMMA polymer capillary microresonator for measuring relative humidity.. *Journal of Physics: Conference Series*, **2017**, 792, 012050	0.3	1
26	Surface-core fiber gratings **2015**,		1
25	Hydrostatic pressure sensing with surface-core fibers **2015**,		1
24	Strong power transfer between photonic bandgaps of hybrid photonic crystal fibers. *Optical Fiber Technology*, **2015**, 22, 36-41	2.4	1

23	Numerical and Experimental Studies for a High Pressure Photonic Crystal Fiber Based Sensor. *AIP Conference Proceedings*, **2008**,	0	1
22	Effect of Coupling between Fundamental and Cladding Modes on Bending Losses in Single-Polarization Single-Mode Photonic Crystal Fiber. *AIP Conference Proceedings*, **2008**,	0	1
21	Slotted microstructured optical fibers **2008**,		1
20	Creating and fixing a metal nanoparticle layer on the holes of microstructured fibers for plasmonic applications **2008**,		1
19	Phase constraint for the waves diffracted by lossless symmetrical gratings at Littrow mount. *Journal of the Optical Society of America A: Optics and Image Science, and Vision*, **2006**, 23, 166-71	1.8	1
18	Large temperature sensitivity of birefringent side-hole photonic crystal fiber filled with Indium **2013**,		1
17	Using the Smartphone as an Ubiquitous Platform for Implementing Optical Fiber Sensors **2019**,		1
16	. *IEEE Sensors Journal*, **2021**, 21, 1534-1539	4	1
15	Magnetic and Fiber Bragg Grating Characterization of 3D Printed Magnetic Samples **2018**,		1
14	Optofluidic Device based on a 3D Printed Chip and a Sensing Tilted Fiber Bragg Gratings **2018**,		1
13	Azimuthally asymmetric tubular lattice hollow-core optical fiber. *Journal of the Optical Society of America B: Optical Physics*, **2021**, 38, F23	1.7	1
12	Entropy analysis of optical fiber specklegram sensors. *Results in Optics*, **2021**, 5, 100155	1	1
11	Determination of Young modulus using optical fiber long-period gratings. *Measurement Science and Technology*, **2016**, 27, 015102	2	0
10	Tellurite photonic crystal fiber with Er3+-Tm3+for broadband optical amplifier in 1550nm **2006**, 6116, 20		0
9	Micro-structured Er3+-Tm3+co-doped tellurite fiber for broadband optical amplifier around 1550nm **2006**, 6314, 200		0
8	Angle-Resolved Hollow-Core Fiber-Based Curvature Sensing Approach. *Fibers*, **2021**, 9, 72	3.7	0
7	Single-Step Tabletop Fabrication for Low-Attenuation Terahertz Special Optical Fibers. *Advanced Photonics Research*, **2021**, 2, 2100165	1.9	0
6	Model-Based Design and Simulation of Paraxial Ray Optics Systems. *Applied Sciences (Switzerland)*, **2020**, 10, 8278	2.6	0

5	Editorial Special Issue on Photonic Crystal-Based Sensors. *IEEE Sensors Journal*, **2010**, 10, 1167-1168	4
4	Progress on holographic techniques to study photo-chemical reactions in solid state **2003**, 4829, 809	
3	Addendum: Sultana, J., et al. Terahertz Hollow Core Antiresonant Fiber with Metamaterial Cladding. Fibers 2020, 8, 14. *Fibers*, **2021**, 9, 20	3.7
2	Correction to: Experimental Study on Glass and Polymers: Determining the Optimal Material for Potential Use in Terahertz Technology *IEEE Access*, **2021**, 9, 2705-2705	3.5
1	All-optical real-time monitoring of air/vacuum valves in water pipeline systems using fiber Bragg gratings. *Journal of the Brazilian Society of Mechanical Sciences and Engineering*, **2022**, 44, 1	2