

# Cristiano M B Cordeiro

## List of Publications by Year in descending order

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67  
papers

2,075  
citations

257450

24  
h-index

233421

45  
g-index

67  
all docs

67  
docs citations

67  
times ranked

1668  
citing authors

#	ARTICLE	IF	CITATIONS
1	Microstructured-core optical fibre for evanescent sensing applications. Optics Express, 2006, 14, 13056.	3.4	254
2	Lateral access to the holes of photonic crystal fibers – selective filling and sensing applications. Optics Express, 2006, 14, 8403.	3.4	132
3	Supercontinuum generation in a water-core photonic crystal fiber. Optics Express, 2008, 16, 9671.	3.4	123
4	Ultrahigh-sensitivity temperature fiber sensor based on multimode interference. Applied Optics, 2012, 51, 3236.	1.8	116
5	Terahertz optical fibers [Invited]. Optics Express, 2020, 28, 16089.	3.4	108
6	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.	2.1	104
7	Opening up optical fibres. Optics Express, 2007, 15, 11843.	3.4	92
8	3D Printed Hollow-Core Terahertz Fibers. Fibers, 2018, 6, 43.	4.0	76
9	Multimode interference tapered fiber refractive index sensors. Applied Optics, 2012, 51, 5941.	1.8	70
10	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.	2.6	69
11	Ultrahigh-birefringent squeezed lattice photonic crystal fiber with rotated elliptical air holes. Optics Letters, 2010, 35, 544.	3.3	69
12	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.	2.6	62
13	Liquid-core, liquid-cladding photonic crystal fibers. Optics Express, 2007, 15, 11207.	3.4	59
14	Experimental Study on Glass and Polymers: Determining the Optimal Material for Potential Use in Terahertz Technology. IEEE Access, 2020, 8, 97204-97214.	4.2	56
15	Mid-IR Hollow-core microstructured fiber drawn from a 3D printed PETG preform. Scientific Reports, 2018, 8, 8113.	3.3	49
16	All-fiber devices based on photonic crystal fibers with integrated electrodes. Optics Express, 2009, 17, 1660.	3.4	38
17	Multiparameter POF Sensing Based on Multimode Interference and Fiber Bragg Grating. Journal of Lightwave Technology, 2017, 35, 3-9.	4.6	38
18	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

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19	Photonic-crystal fiber-based pressure sensor for dual environment monitoring. <i>Applied Optics</i> , 2014, 53, 3668.	1.8	36
20	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.	3.1	31
21	Exploring Low Loss and Single Mode in Antiresonant Tube Lattice Terahertz Fibers. <i>IEEE Access</i> , 2020, 8, 113309-113317.	4.2	31
22	Multimode exposed core fiber specklegram sensor. <i>Optics Letters</i> , 2020, 45, 3212.	3.3	30
23	Integration of bow-tie plasmonic nano-antennas on tapered fibers. <i>Optics Express</i> , 2017, 25, 8986.	3.4	29
24	Analysis of immersed silica optical microfiber knot resonator and its application as a moisture sensor. <i>Applied Optics</i> , 2014, 53, 7454.	2.1	27
25	Ultra-simplified Single-Step Fabrication of Microstructured Optical Fiber. <i>Scientific Reports</i> , 2020, 10, 9678.	3.3	27
26	Second harmonic generation and enhancement in microfibers and loop resonators. <i>Applied Physics Letters</i> , 2013, 102, 201120.	3.3	24
27	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.	3.1	24
28	D-Microfibers. <i>Journal of Lightwave Technology</i> , 2013, 31, 2756-2761.	4.6	22
29	Terahertz Hollow Core Antiresonant Fiber with Metamaterial Cladding. <i>Fibers</i> , 2020, 8, 14.	4.0	18
30	Machine learning for sensing with a multimode exposed core fiber specklegram sensor. <i>Optics Express</i> , 2022, 30, 10443.	3.4	18
31	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.	4.6	17
32	Morphology dependent polymeric capillary optical resonator hydrostatic pressure sensor. <i>Optics Express</i> , 2015, 23, 10643.	3.4	17
33	Temperature sensibility of the birefringence properties in side-hole photonic crystal fiber filled with Indium. <i>Applied Physics Letters</i> , 2014, 105, .	3.3	16
34	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.	4.6	15
35	Broadband Characterization of Glass and Polymer Materials Using THz-TDS. , 2019, , .		15
36	Novel Sealing Technique for Practical Liquid-Core Photonic Crystal Fibers. <i>IEEE Photonics Technology Letters</i> , 2012, 24, 191-193.	2.5	14

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37	High sensitivity LPG Mach-Zehnder sensor for real-time fuel conformity analysis. Measurement Science and Technology, 2013, 24, 015102.	2.6	14
38	Gasoline Quality Sensor Based on Tilted Fiber Bragg Gratings. Photonics, 2019, 6, 51.	2.0	13
39	3D printed microstructured optical fibers. , 2017, , .		11
40	Tapered GRIN fiber microsensors. Optics Express, 2014, 22, 30432.	3.4	10
41	Analysis and optimization of an all-fiber device based on photonic crystal fiber with integrated electrodes. Optics Express, 2010, 18, 2842.	3.4	9
42	Broadband dispersion compensation using inner cladding modes in photonic crystal fibers. Optics Express, 2012, 20, 3467.	3.4	9
43	Azimuthally asymmetric tubular lattice hollow-core optical fiber. Journal of the Optical Society of America B: Optical Physics, 2021, 38, F23.	2.1	8
44	Exploring THz hollow-core fiber designs manufactured by 3D printing. , 2017, , .		7
45	Angle-Resolved Hollow-Core Fiber-Based Curvature Sensing Approach. Fibers, 2021, 9, 72.	4.0	7
46	Tunable Single-Polarization Single-Mode Microstructured Polymer Optical Fiber. Journal of Lightwave Technology, 2011, 29, 2372-2378.	4.6	5
47	Integrated polarizers based on tapered highly birefringent photonic crystal fibers. Optics Express, 2014, 22, 17769.	3.4	4
48	3D Printing Technology for Tapered Optical Fiber Protection With Gas Sensing Possibilities. Photonic Sensors, 2020, 10, 298-305.	5.0	3
49	Recent Advances on Optical Sensing Using Photonic Crystal Fibers. AIP Conference Proceedings, 2008, , .	0.4	2
50	Slotted microstructured optical fibers. Proceedings of SPIE, 2008, , .	0.8	2
51	Measurement of Multiphase Flow by Tilted Optical Fiber Bragg Grating Sensor. IEEE Sensors Journal, 2021, 21, 1534-1539.	4.7	2
52	Single-Step Tabletop Fabrication for Low-Attenuation Terahertz Special Optical Fibers. Advanced Photonics Research, 2021, 2, 2100165.	3.6	2
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	Surface-core fiber gratings. , 2015, , .		1

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55	Sensitivity of a PMMA polymer capillary microresonator for measuring relative humidity.. Journal of Physics: Conference Series, 2017, 792, 012050.	0.4	1
56	Large temperature sensitivity of birefringent side-hole photonic crystal fiber filled with Indium. , 2013, , .		1
57	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.	1.6	1
58	Simple and Temperature-Insensitive Pressure Sensing Based on a Hollow-Core Photonic Crystal Fiber. AIP Conference Proceedings, 2008, , .	0.4	0
59	Modeling Radiation Losses in Microstructured Optical Fibers for Sensing Applications. AIP Conference Proceedings, 2008, , .	0.4	0
60	Theoretical and experimental study of supercontinuum generation in a water-core PCF. AIP Conference Proceedings, 2008, , .	0.4	0
61	Visible to near-infrared continuum generation in a water-core photonic crystal fiber. AIP Conference Proceedings, 2008, , .	0.4	0
62	Multiphysics analysis of an all-photonic crystal fiber device. , 2009, , .		0
63	Broadband emission spectra of a PbS-core colloidal quantum dots on the core surface of a silica microstructured fiber. Proceedings of SPIE, 2010, , .	0.8	0
64	Side-hole photonic crystal fibers. , 2010, , .		0
65	Study of a THz Hollow-core Fiber for Sample Reflectance Analysis. , 2019, , .		0
66	Correction to: "Experimental Study on Glass and Polymers: Determining the Optimal Material for Potential Use in Terahertz Technology" IEEE Access, 2021, 9, 2705-2705.	4.2	0
67	Addendum: Sultana, J., et al. Terahertz Hollow Core Antiresonant Fiber with Metamaterial Cladding. Fibers 2020, 8, 14. Fibers, 2021, 9, 20.	4.0	0