

Cristiano M Cordeiro

List of Publications by Year in descending order

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165
papers

4,551
citations

109137

35
h-index

110170

64
g-index

165
all docs

165
docs citations

165
times ranked

3429
citing authors

#	ARTICLE	IF	CITATIONS
1	Over 4000 nm bandwidth of mid-IR supercontinuum generation in sub-centimeter segments of highly nonlinear tellurite PCFs. Optics Express, 2008, 16, 7161.	1.7	424
2	Microstructured-core optical fibre for evanescent sensing applications. Optics Express, 2006, 14, 13056.	1.7	254
3	Tunable localized surface plasmon graphene metasurface for multiband superabsorption and terahertz sensing. Carbon, 2020, 158, 559-567.	5.4	218
4	Photonic bandgap with an index step of one percent. Optics Express, 2005, 13, 309.	1.7	165
5	Field enhancement within an optical fibre with a subwavelength air core. Nature Photonics, 2007, 1, 115-118.	15.6	162
6	Lateral access to the holes of photonic crystal fibers "selective filling and sensing applications. Optics Express, 2006, 14, 8403.	1.7	132
7	Hybrid photonic crystal fiber. Optics Express, 2006, 14, 926.	1.7	125
8	Supercontinuum generation in a water-core photonic crystal fiber. Optics Express, 2008, 16, 9671.	1.7	123
9	Ultrahigh-sensitivity temperature fiber sensor based on multimode interference. Applied Optics, 2012, 51, 3236.	0.9	116
10	A Hi-Bi Ultra-Sensitive Surface Plasmon Resonance Fiber Sensor. IEEE Access, 2019, 7, 79085-79094.	2.6	116
11	Terahertz optical fibers [Invited]. Optics Express, 2020, 28, 16089.	1.7	108
12	Guidance properties of low-contrast photonic bandgap fibres. Optics Express, 2005, 13, 2503.	1.7	105
13	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
14	Opening up optical fibres. Optics Express, 2007, 15, 11843.	1.7	92
15	Characterisation of a Nafion film by optical fibre Fabry-Pérot interferometry for humidity sensing. Sensors and Actuators B: Chemical, 2014, 196, 99-105.	4.0	88
16	Brillouin scattering self-cancellation. Nature Communications, 2016, 7, 11759.	5.8	85
17	Engineering the dispersion of tapered fibers for supercontinuum generation with a 1064 nm pump laser. Optics Letters, 2005, 30, 1980.	1.7	81
18	Tellurite photonic crystal fiber made by a stack-and-draw technique. Journal of Non-Crystalline Solids, 2006, 352, 3423-3428.	1.5	78

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19	3D Printed Hollow-Core Terahertz Fibers. <i>Fibers</i> , 2018, 6, 43.	1.8	76
20	Multimode interference tapered fiber refractive index sensors. <i>Applied Optics</i> , 2012, 51, 5941.	0.9	70
21	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.	1.4	69
22	Ultra-high-birefringent squeezed lattice photonic crystal fiber with rotated elliptical air holes. <i>Optics Letters</i> , 2010, 35, 544.	1.7	69
23	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.	1.4	62
24	Liquid-core, liquid-cladding photonic crystal fibers. <i>Optics Express</i> , 2007, 15, 11207.	1.7	59
25	Experimental Study on Glass and Polymers: Determining the Optimal Material for Potential Use in Terahertz Technology. <i>IEEE Access</i> , 2020, 8, 97204-97214.	2.6	56
26	Strain-Temperature Discrimination Using Multimode Interference in Tapered Fiber. <i>IEEE Photonics Technology Letters</i> , 2013, 25, 155-158.	1.3	53
27	Effect of ZnO on spectroscopic properties of Sm ³⁺ doped zinc phosphate glasses. <i>Physica B: Condensed Matter</i> , 2015, 459, 79-87.	1.3	52
28	Mid-IR Hollow-core microstructured fiber drawn from a 3D printed PETG preform. <i>Scientific Reports</i> , 2018, 8, 8113.	1.6	49
29	Bragg gratings in surface-core fibers: Refractive index and directional curvature sensing. <i>Optical Fiber Technology</i> , 2017, 34, 86-90.	1.4	41
30	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.	4.0	39
31	Depletion region in thermally poled fused silica. <i>Applied Physics Letters</i> , 2000, 76, 2496-2498.	1.5	38
32	All-fiber devices based on photonic crystal fibers with integrated electrodes. <i>Optics Express</i> , 2009, 17, 1660.	1.7	38
33	Multiparameter POF Sensing Based on Multimode Interference and Fiber Bragg Grating. <i>Journal of Lightwave Technology</i> , 2017, 35, 3-9.	2.7	38
34	Optical Fiber Specklegram Chemical Sensor Based on a Concatenated Multimode Fiber Structure. <i>Journal of Lightwave Technology</i> , 2019, 37, 5041-5047.	2.7	37
35	Curvature and Temperature Discrimination Using Multimode Interference Fiber Optic Structures—A Proof of Concept. <i>Journal of Lightwave Technology</i> , 2012, 30, 3569-3575.	2.7	36
36	Surface-Enhanced Resonance Raman Scattering (SERRS) Using Au Nanohole Arrays on Optical Fiber Tips. <i>Plasmonics</i> , 2013, 8, 1113-1121.	1.8	36

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37	Photonic-crystal fiber-based pressure sensor for dual environment monitoring. <i>Applied Optics</i> , 2014, 53, 3668.	0.9	36
38	Agarose-based structured optical fibre. <i>Scientific Reports</i> , 2020, 10, 7035.	1.6	36
39	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.	2.0	34
40	Polymer optical fiber specklegram strain sensor with extended dynamic range. <i>Optical Engineering</i> , 2018, 57, 1.	0.5	33
41	Simplifying the design of microstructured optical fibre pressure sensors. <i>Scientific Reports</i> , 2017, 7, 2990.	1.6	32
42	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.	1.5	31
43	Exploring Low Loss and Single Mode in Antiresonant Tube Lattice Terahertz Fibers. <i>IEEE Access</i> , 2020, 8, 113309-113317.	2.6	31
44	Multimode exposed core fiber specklegram sensor. <i>Optics Letters</i> , 2020, 45, 3212.	1.7	30
45	Integration of bow-tie plasmonic nano-antennas on tapered fibers. <i>Optics Express</i> , 2017, 25, 8986.	1.7	29
46	Single-design-parameter microstructured optical fiber for chromatic dispersion tailoring and evanescent field enhancement. <i>Optics Letters</i> , 2007, 32, 3324.	1.7	27
47	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
48	Study of optical absorption, visible emission and NIR-vis 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.	1.5	27
49	Ultra-simplified Single-Step Fabrication of Microstructured Optical Fiber. <i>Scientific Reports</i> , 2020, 10, 9678.	1.6	27
50	Nonlinear interaction between two different photonic bandgaps of a hybrid photonic crystal fiber. <i>Optics Letters</i> , 2008, 33, 2080.	1.7	24
51	Second harmonic generation and enhancement in microfibers and loop resonators. <i>Applied Physics Letters</i> , 2013, 102, 201120.	1.5	24
52	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.	2.0	24
53	D-Microfibers. <i>Journal of Lightwave Technology</i> , 2013, 31, 2756-2761.	2.7	22
54	Intensity liquid level sensor based on multimode interference and fiber Bragg grating. <i>Measurement Science and Technology</i> , 2016, 27, 125104.	1.4	22

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55	Intensity curvature sensor based on photonic crystal fiber with three coupled cores. Optics Communications, 2012, 285, 5128-5131.	1.0	21
56	Macrobending SMS fiber-optic anemometer and flow sensor. Optical Fiber Technology, 2019, 52, 101981.	1.4	18
57	Terahertz Hollow Core Antiresonant Fiber with Metamaterial Cladding. Fibers, 2020, 8, 14.	1.8	18
58	Machine learning for sensing with a multimode exposed core fiber specklegram sensor. Optics Express, 2022, 30, 10443.	1.7	18
59	Pressure Sensing Based on Nonconventional Air-Guiding Transmission Windows in Hollow-Core Photonic Crystal Fibers. Journal of Lightwave Technology, 2009, 27, 1605-1609.	2.7	17
60	Morphology dependent polymeric capillary optical resonator hydrostatic pressure sensor. Optics Express, 2015, 23, 10643.	1.7	17
61	Embedding optical Fiber Bragg Grating (FBG) sensors in 3D printed casings. Optical Fiber Technology, 2019, 53, 102015.	1.4	17
62	Temperature sensibility of the birefringence properties in side-hole photonic crystal fiber filled with Indium. Applied Physics Letters, 2014, 105, .	1.5	16
63	Agarose-Based Fluorescent Waveguide with Embedded Silica Nanoparticleâ€“Carbon Nanodot Hybrids for pH Sensing. ACS Applied Nano Materials, 2021, 4, 9738-9751.	2.4	16
64	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.	2.7	15
65	Broadband Characterization of Glass and Polymer Materials Using THz-TDS. , 2019, , .		15
66	Novel Sealing Technique for Practical Liquid-Core Photonic Crystal Fibers. IEEE Photonics Technology Letters, 2012, 24, 191-193.	1.3	14
67	High sensitivity LPG Machâ€“Zehnder sensor for real-time fuel conformity analysis. Measurement Science and Technology, 2013, 24, 015102.	1.4	14
68	Optical sensor based on two in-series birefringent optical fibers. Applied Optics, 2013, 52, 4915.	0.9	14
69	Measurement of phase differences between the diffracted orders of deep relief gratings. Optics Letters, 2003, 28, 683.	1.7	13
70	Metal-Filled Embedded-Core Capillary Fibers as Highly Sensitive Temperature Sensors. , 2018, 2, 1-4.		13
71	Gasoline Quality Sensor Based on Tilted Fiber Bragg Gratings. Photonics, 2019, 6, 51.	0.9	13
72	3D printed microstructured optical fibers. , 2017, , .		11

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73	Tapered GRIN fiber microsensors. <i>Optics Express</i> , 2014, 22, 30432.	1.7	10
74	Vibration and Magnetic Field Sensing Using a Long-Period Grating. <i>IEEE Sensors Journal</i> , 2017, 17, 6615-6621.	2.4	10
75	Optical Fiber Anemometer Based on a Multi-FBG Curvature Sensor. <i>IEEE Sensors Journal</i> , 2019, 19, 8727-8732.	2.4	10
76	Photonic crystal in-fiber devices. <i>Optical Engineering</i> , 2005, 44, 125003.	0.5	9
77	Borosilicate glass for photonics applications. <i>Optical Materials</i> , 2008, 30, 1816-1821.	1.7	9
78	Analysis and optimization of an all-fiber device based on photonic crystal fiber with integrated electrodes. <i>Optics Express</i> , 2010, 18, 2842.	1.7	9
79	Broadband dispersion compensation using inner cladding modes in photonic crystal fibers. <i>Optics Express</i> , 2012, 20, 3467.	1.7	9
80	Spectral bandwidth analysis of high sensitivity refractive index sensor based on multimode interference fiber device. <i>Proceedings of SPIE</i> , 2012, , .	0.8	9
81	Magnetic field sensor with Terfenol-D thin-film coated FBG. <i>Proceedings of SPIE</i> , 2012, , .	0.8	9
82	3D-printed terahertz Bragg fiber. , 2015, , .		8
83	Azimuthally asymmetric tubular lattice hollow-core optical fiber. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2021, 38, F23.	0.9	8
84	Ultrahigh-sensitivity temperature fiber sensor based on multimode interference. <i>Applied Optics</i> , 2012, 51, 2542.	2.1	8
85	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.	1.5	7
86	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, 28981.	1.7	7
87	Exploring THz hollow-core fiber designs manufactured by 3D printing. , 2017, , .		7
88	All-Optical Fiber Anemometer Based on the Pitot-Static Tube. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2020, 69, 1805-1811.	2.4	7
89	Distributed Pressure Sensing Using an Embedded-Core Capillary Fiber and Optical Frequency Domain Reflectometry. <i>IEEE Sensors Journal</i> , 2021, 21, 360-365.	2.4	7
90	Angle-Resolved Hollow-Core Fiber-Based Curvature Sensing Approach. <i>Fibers</i> , 2021, 9, 72.	1.8	7

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91	Progress on holographic techniques to measure real-time phase and amplitude gratings in photosensitive materials. <i>Journal of Optics</i> , 2003, 5, S170-S174.	1.5	6
92	Multimode interference in tapered single mode-multimode-single mode fiber structures for strain sensing applications. , 2012, , .		6
93	Exposed-core fiber multimode interference sensor. <i>Results in Optics</i> , 2021, 5, 100125.	0.9	6
94	Reusable polymer optical fiber strain sensor with memory capability based on ABS crazing. <i>Applied Optics</i> , 2019, 58, 9870.	0.9	6
95	Tunable Single-Polarization Single-Mode Microstructured Polymer Optical Fiber. <i>Journal of Lightwave Technology</i> , 2011, 29, 2372-2378.	2.7	5
96	Bragg Gratings Inscription in Highly Birefringent Microstructured POFs. <i>IEEE Photonics Technology Letters</i> , 2016, 28, 621-624.	1.3	5
97	Characterizing Slow Photochemical Reaction Kinetics by Enhanced Sampling of Rare Events with Capillary Optical Fibers and Kramersâ€™ Theory. <i>ACS Omega</i> , 2017, 2, 2719-2727.	1.6	5
98	Interferometric measurements of ionic diffusion in sodaâ€™lime glasses. <i>Journal of Non-Crystalline Solids</i> , 1999, 247, 183-188.	1.5	4
99	Fabrication of a spun elliptically birefringent photonic crystal fiber and its characterization as an electrical current sensor. , 2013, , .		4
100	Integrated polarizers based on tapered highly birefringent photonic crystal fibers. <i>Optics Express</i> , 2014, 22, 17769.	1.7	4
101	Didactic laser speckle experiments with a lensless camera. <i>European Journal of Physics</i> , 2021, 42, 065303.	0.3	4
102	Fabrication and Postprocessing of Ge-Doped Nanoweb Fibers. <i>AIP Conference Proceedings</i> , 2008, , .	0.3	3
103	Sealed liquid-core photonic crystal fibers for practical nonlinear optics, nanophotonics, and sensing applications. , 2010, , .		3
104	Optical sensing with antiresonant capillary fibers. , 2017, , .		3
105	Magnetic and Fiber Bragg Grating Characterization of 3D Printed Magnetic Samples. , 2018, , .		3
106	Optical Fiber Chemical Sensor Based on the Analysis of Fiber Specklegrams Characteristics. , 2018, , .		3
107	Model-Based Design and Simulation of Paraxial Ray Optics Systems. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 8278.	1.3	3
108	3D Printing Technology for Tapered Optical Fiber Protection With Gas Sensing Possibilities. <i>Photonic Sensors</i> , 2020, 10, 298-305.	2.5	3

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109	Numerical and Experimental Studies for a High Pressure Photonic Crystal Fiber Based Sensor. AIP Conference Proceedings, 2008, , .	0.3	2
110	Recent Advances on Optical Sensing Using Photonic Crystal Fibers. AIP Conference Proceedings, 2008, , .	0.3	2
111	Slotted microstructured optical fibers. Proceedings of SPIE, 2008, , .	0.8	2
112	Creating and fixing a metal nanoparticle layer on the holes of microstructured fibers for plasmonic applications. , 2008, , .		2
113	Determination of Young's modulus using optical fiber long-period gratings. Measurement Science and Technology, 2016, 27, 015102.	1.4	2
114	Optofluidic Device based on a 3D Printed Chip and a Sensing Tilted Fiber Bragg Gratings. , 2018, , .		2
115	Using the Smartphone as an Ubiquitous Platform for Implementing Optical Fiber Sensors. , 2019, , .		2
116	Measurement of Multiphase Flow by Tilted Optical Fiber Bragg Grating Sensor. IEEE Sensors Journal, 2021, 21, 1534-1539.	2.4	2
117	Single-Step Tabletop Fabrication for Low Attenuation Terahertz Special Optical Fibers. Advanced Photonics Research, 2021, 2, 2100165.	1.7	2
118	Enhancing the measurement range of laser speckle systems. Microwave and Optical Technology Letters, 0, , .	0.9	2
119	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.	0.8	1
120	Tellurite photonic crystal fiber with Er ³⁺ -Tm ³⁺ for broadband optical amplifier in 1550nm. , 2006, 6116, 20.		1
121	Micro-structured Er ³⁺ -Tm ³⁺ -co-doped tellurite fiber for broadband optical amplifier around 1550nm. , 2006, 6314, 200.		1
122	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
123	Conventional optical fiber current measurements improved by a high accuracy artificial neural network algorithm. Proceedings of SPIE, 2012, , .	0.8	1
124	Enhanced Terahertz transmission through 3D non-spherical terajets. Proceedings of SPIE, 2015, , .	0.8	1
125	Surface-core fiber gratings. , 2015, , .		1
126	Hydrostatic pressure sensing with surface-core fibers. , 2015, , .		1

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127	Strong power transfer between photonic bandgaps of hybrid photonic crystal fibers. Optical Fiber Technology, 2015, 22, 36-41.	1.4	1
128	Sensitivity of a PMMA polymer capillary microresonator for measuring relative humidity.. Journal of Physics: Conference Series, 2017, 792, 012050.	0.3	1
129	Optical Fiber 3D Shape Sensor for Motion Capture. , 2019, , .		1
130	Entropy analysis of optical fiber specklegram sensors. Results in Optics, 2021, 5, 100155.	0.9	1
131	Large temperature sensitivity of birefringent side-hole photonic crystal fiber filled with Indium. , 2013, , .		1
132	Pressure Induced Single-Polarization Single-Mode Microstructured Polymer Optical Fiber. , 2010, , .		1
133	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.	0.8	1
134	Progress on holographic techniques to study photo-chemical reactions in solid state. , 2003, 4829, 809.		0
135	Index-Guiding, Single-Mode, Liquid-Core, Liquid-Cladding Photonic Crystal Fibers. , 2007, , .		0
136	Development of soft-glasses photonic crystal fiber made by stacking-and-draw technique. , 2007, , .		0
137	Simple and Temperature-Insensitive Pressure Sensing Based on a Hollow-Core Photonic Crystal Fiber. AIP Conference Proceedings, 2008, , .	0.3	0
138	Opto-Mechanical Response of a Suspended-Slab-Core Optical Fiber. AIP Conference Proceedings, 2008, , .	0.3	0
139	Modeling Radiation Losses in Microstructured Optical Fibers for Sensing Applications. AIP Conference Proceedings, 2008, , .	0.3	0
140	Theoretical and experimental study of supercontinuum generation in a water-core PCF. AIP Conference Proceedings, 2008, , .	0.3	0
141	Visible to near-infrared continuum generation in a water-core photonic crystal fiber. AIP Conference Proceedings, 2008, , .	0.3	0
142	Multiphysics analysis of an all-photonic crystal fiber device. , 2009, , .		0
143	Editorial Special Issue on Photonic Crystal-Based Sensors. IEEE Sensors Journal, 2010, 10, 1167-1168.	2.4	0
144	Supercontinuum generation using small core photonic crystal fibers. Proceedings of SPIE, 2010, , .	0.8	0

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145	Luminescence of PbS quantum dots on a silica microstructured fiber. , 2010, , .		0
146	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
147	Side-hole photonic crystal fibers. , 2010, , .		0
148	Supercontinuum generation by using photonic crystal fibres made from borosilicate glasses. , 2011, , .		0
149	VIS-NIR bend loss sensitive photonic crystal fibers. Proceedings of SPIE, 2011, , .	0.8	0
150	Post-processing multicore photonic crystal fibers for locally coupling selected core pairs. , 2011, , .		0
151	Intensity curvature sensor based on photonic crystal fiber with three coupled cores. , 2012, , .		0
152	Simultaneous measurement of refractive index and temperature based on multimode interference inside a fiber loop mirror. , 2012, , .		0
153	Application of a photonic crystal fiber LPG for vibration monitoring. , 2013, , .		0
154	Generation of Polarizing Sections in Highly Birefringent Photonic Crystal Fibers via Post-Processing. , 2013, , .		0
155	Fabrication and characterization of spun HiBi PCF fibers for current sensing applications. , 2014, , .		0
156	Dual-environment pressure sensor using a photonic-crystal fiber. Proceedings of SPIE, 2014, , .	0.8	0
157	LPG-based sensor for curvature and vibration. Proceedings of SPIE, 2016, , .	0.8	0
158	Nano-antennas on tapered fiber: A new and flexible approach. , 2017, , .		0
159	Minimalist Optical Fiber Design: capillary-like fibers. , 2018, , .		0
160	Minimalist Approach for the Design of Microstructured Optical Fiber Sensors. , 0, , .		0
161	Study of a THz Hollow-core Fiber for Sample Reflectance Analysis. , 2019, , .		0
162	Optical Fiber Specklegram Sensors for Measurement of Liquids : (Invited Paper). , 2019, , .		0

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163	Correction to: "Experimental Study on Glass and Polymers: Determining the Optimal Material for Potential Use in Terahertz Technology" IEEE Access, 2021, 9, 2705-2705.	2.6	0
164	Addendum: Sultana, J., et al. Terahertz Hollow Core Antiresonant Fiber with Metamaterial Cladding. Fibers 2020, 8, 14. Fibers, 2021, 9, 20.	1.8	0
165	Surface-core fibers: plasmonics and sensing. , 2018, , .		0