Gerald Farrell

List of Publications by Year
in descending order

471 papers	7,984 citations	71102 41 h-index	91884 69 g-index
474 all docs	474 docs citations	474 times ranked	4514 citing authors

#	Article	IF	Citations
1	High sensitivity SMS fiber structure based refractometer â€“ analysis and experiment. Optics Express, 2011, 19, 7937.	3.4	387
2	Investigation on Single-Modeâ€“Multimodeâ€“ Single-Mode Fiber Structure. Journal of Lightwave Technology, 2008, 26, 512-519.	4.6	288
3	Overview of Fiber Optic Sensor Technologies for Strain/Temperature Sensing Applications in Composite Materials. Sensors, 2016, 16, 99.	3.8	255
4	All-fiber multimode-interference-based refractometer sensor: proposal and design. Optics Letters, 2006, 31, 317.	3.3	253
5	High-sensitivity, evanescent field refractometric sensor based on a tapered, multimode fiber interference. Optics Letters, 2011, 36, 2233.	3.3	252
6	Theoretical and experimental investigations of macro-bend losses for standard single mode fibers. Optics Express, 2005, 13, 4476.	3.4	129
7	Fiber refractometer based on a fiber Bragg grating and single-modeâ€“multimodeâ€“single-mode fiber structure. Optics Letters, 2011, 36, 2197.	3.3	125
8	Use of a Bent Single SMS Fiber Structure for Simultaneous Measurement of Displacement and Temperature Sensing. IEEE Photonics Technology Letters, 2011, 23, 130-132.	2.5	94
9	Relative Humidity Sensor Based on an Agarose-Infiltrated Photonic Crystal Fiber Interferometer. IEEE Journal of Selected Topics in Quantum Electronics, 2012, 18, 1553-1559.	2.9	83
10	Investigation of single-modeâ€“multimodeâ€“single-mode and single-modeâ€“tapered-multimodeâ€“single-mode fiber structures and their application for refractive index sensing. Journal of the Optical Society of America B: Optical Physics, 2011, 28, 1180.	2.1	82
11	Humidity sensor based on a single-mode hetero-core fiber structure. Optics Letters, 2011, 36, 1752.	3.3	79
12	Singlemode-Multimode-Singlemode Fiber Structures for Sensing Applicationsâ€”A Review. IEEE Sensors Journal, 2021, 21, 12734-12751.	4.7	78
13	Low-cost wavelength measurement based on a macrobending single-mode fiber. Optics Letters, 2006, 31, 1785.	3.3	77
14	Agarose coated spherical micro resonator for humidity measurements. Optics Express, 2016, 24, 21216.	3.4	75
15	Magnetic-field sensor based on whispering-gallery modes in a photonic crystal fiber infiltrated with magnetic fluid. Optics Letters, 2015, 40, 4983.	3.3	74
16	Humidity sensor based on photonic crystal fibre interferometer. Electronics Letters, 2010, 46, 1341.	1.0	71
17	Fiber-tip high-temperature sensor based on multimode interference. Optics Letters, 2013, 38, 4617.	3.3	70
18	High sensitivity refractive index sensor based on a tapered small core single-mode fiber structure. Optics Letters, 2015, 40, 4166.	3.3	70

#	Article	IF	Citations
19	Effect of coating thickness on the sensitivity of a humidity sensor based on an Agarose coated photonic crystal fiber interferometer. Optics Express, 2013, 21, 6313.	3.4	69
20	Strain sensor based on a pair of single-mode-multimode-single-mode fiber structures in a ratiometric power measurement scheme. Applied Optics, 2010, 49, 536.	2.1	64
21	Liquid crystal infiltrated photonic crystal fibers for electric field intensity measurements. Applied Optics, 2011, 50, 2628.	2.1	62
22	A Humidity Sensor Based on a Singlemode-Side Polished Multimodeâ€“Singlemode Optical Fibre Structure Coated with Gelatin. Journal of Lightwave Technology, 2017, 35, 4087-4094.	4.6	61
23	Macrobending single-mode fiber-based refractometer. Applied Optics, 2009, 48, 6044.	2.1	59
24	Experimental demonstration of a simple displacement sensor based on a bent single-modeâ€“multimodeâ€“single-mode fiber structure. Measurement Science and Technology, 2011, 22, 025203.	2.6	59
25	Strain sensor based on gourd-shaped single-mode-multimode-single-mode hybrid optical fibre structure. Optics Express, 2017, 25, 18885.	3.4	59
26	Hollow Core Fiber Based Interferometer for High-Temperature (1000 Â°C) Measurement. Journal of Lightwave Technology, 2018, 36, 1583-1590.	4.6	59
27	Ultrahigh-sensitivity label-free optical fiber biosensor based on a tapered singlemode- no core-singlemode coupler for Staphylococcus aureus detection. Sensors and Actuators B: Chemical, 2020, 320, 128283.	7.8	58
28	A Curvature Sensor Based on Twisted Single-Modeâ€“Multimodeâ€“Single-Mode Hybrid Optical Fiber Structure. Journal of Lightwave Technology, 2017, 35, 1725-1731.	4.6	57
29	Magnetic field sensor based on a combination of a microfiber coupler covered with magnetic fluid and a Sagnac loop. Scientific Reports, 2017, 7, 4725.	3.3	57
30	High Sensitivity Fiber Refractometer Based on an Optical Microfiber Coupler. IEEE Photonics Technology Letters, 2013, 25, 228-230.	2.5	56
31	A fiber bend based humidity sensor with a wide linear range and fast measurement speed. Sensors and Actuators A: Physical, 2012, 174, 47-51.	4.1	53
32	A miniature optical breathing sensor. Biomedical Optics Express, 2012, 3, 3325.	2.9	49
33	Simultaneous Measurement of Displacement and Temperature Based on a Balloon-Shaped Bent SMF Structure Incorporating an LPG. Journal of Lightwave Technology, 2018, 36, 4960-4966.	4.6	49
34	Use of a single-multiple-single-mode fiber filter for interrogating fiber Bragg grating strain sensors with dynamic temperature compensation. Applied Optics, 2009, 48, 5451.	2.1	48
35	Packaged chalcogenide microsphere resonator with high Q-factor. Applied Physics Letters, 2013, 102, .	3.3	47
36	Mid-Infrared Octave-Spanning Supercontinuum and Frequency Comb Generation in a Suspended Germanium-Membrane Ridge Waveguide. Journal of Lightwave Technology, 2017, 35, 2994-3002.	4.6	46

#	Article	IF	Citations
37	Highly sensitive strain sensor based on composite interference established within S-tapered multimode fiber structure. Optics Express, 2018, 26, 33982.	3.4	46
38	Germanium microsphere high-Q resonator. Optics Letters, 2012, 37, 728.	3.3	45
39	High sensitivity optical fiber sensors for simultaneous measurement of methanol and ethanol. Sensors and Actuators B: Chemical, 2018, 271, 1-8.	7.8	45
40	Polarization dependence of bend loss for a standard singlemode fiber. Optics Express, 2007, 15, 4909.	3.4	43
41	High resolution temperature insensitive interrogation technique for FBG sensors. Optics and Laser Technology, 2010, 42, 653-656.	4.6	42
42	Packaged, high-Q, microsphere-resonator-based addâ€“drop filter. Optics Letters, 2014, 39, 5208.	3.3	40
43	Sub-micrometer resolution liquid level sensor based on a hollow core fiber structure. Optics Letters, 2019, 44, 2125.	3.3	40
44	Multimode-fiber-based edge filter for optical wavelength measurement application and its design. Microwave and Optical Technology Letters, 2006, 48, 900-902.	1.4	39
45	Bent SMS fibre structure for temperature measurement. Electronics Letters, 2010, 46, 1129.	1.0	39
46	Study of transmission response of edge filters employed in wavelength measurements. Applied Optics, 2005, 44, 7789.	2.1	37
47	Fiber Optic Hybrid Device for Simultaneous Measurement of Humidity and Temperature. IEEE Sensors Journal, 2013, 13, 1632-1636.	4.7	37
48	Highly Sensitive Twist Sensor Based on Partially Silver Coated Hollow Core Fiber Structure. Journal of Lightwave Technology, 2018, 36, 3672-3677.	4.6	37
49	Highly sensitive temperature sensor using packaged optical microfiber coupler filled with liquids. Optics Express, 2018, 26, 356.	3.4	37
50	Experimental Study and Analysis of a Polymer Fiber Bragg Grating Embedded in a Composite Material. Journal of Lightwave Technology, 2014, 32, 1726-1733.	4.6	36
51	Directional Electric Field Sensitivity of a Liquid Crystal Infiltrated Photonic Crystal Fiber. IEEE Photonics Technology Letters, 2011, 23, 408-410.	2.5	35
52	A fiber-optic voltage sensor based on macrobending structure. Optics and Laser Technology, 2011, 43, 922-925.	4.6	35
53	Improving the sensitivity of a humidity sensor based on fiber bend coated with a hygroscopic coating. Optics and Laser Technology, 2011, 43, 1301-1305.	4.6	35
54	All-fiber polarimetric electric field sensing using liquid crystal infiltrated photonic crystal fibers. Sensors and Actuators A: Physical, 2011, 167, 54-59.	4.1	35

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55	A comprehensive analysis verified by experiment of a refractometer based on an SMF28â€“small-core singlemode fiber (SCSMF)â€“SMF28 fiber structure. Journal of Optics (United Kingdom), 2011, 13, 125401.	2.2	35
56	Enhanced Refractometer Based on Periodically Tapered Small Core Singlemode Fiber. IEEE Sensors Journal, 2013, 13, 180-185.	4.7	35
57	Silica Gel Coated Spherical Micro resonator for Ultra-High Sensitivity Detection of Ammonia Gas Concentration in Air. Scientific Reports, 2018, 8, 1620.	3.3	34
58	Wearable Optical Fiber Sensor Based on a Bend Singlemode-Multimode-Singlemode Fiber Structure for Respiration Monitoring. IEEE Sensors Journal, 2021, 21, 4610-4617.	4.7	34
59	SMS fibre structure for temperature measurement using a simple intensity-based interrogation system. Electronics Letters, 2009, 45, 1069.	1.0	33
60	Optical microfiber coupler based humidity sensor with a polyethylene oxide coating. Microwave and Optical Technology Letters, 2015, 57, 457-460.	1.4	33
61	High Sensitivity Ammonia Gas Sensor Based on a Silica-Gel-Coated Microfiber Coupler. Journal of Lightwave Technology, 2017, 35, 2864-2870.	4.6	33
62	A Review of Multimode Interference in Tapered Optical Fibers and Related Applications. Sensors, 2018, 18, 858.	3.8	33
63	Optical Microfibre Based Photonic Components and Their Applications in Label-Free Biosensing. Biosensors, 2015, 5, 471-499.	4.7	32
64	High sensitivity sol-gel silica coated optical fiber sensor for detection of ammonia in water. Optics Express, 2016, 24, 24179.	3.4	32
65	Optical spectral sweep comb liquid flow rate sensor. Optics Letters, 2018, 43, 751.	3.3	31
66	Measurements of milli-Newton surface tension forces with tilted fiber Bragg gratings. Optics Letters, 2018, 43, 255.	3.3	31
67	Influence of lamination process on optical fiber sensors embedded in composite material. Measurement: Journal of the International Measurement Confederation, 2012, 45, 2275-2280.	5.0	30
68	Hybrid Fiber Optic Sensor System for Measuring the Strain, Temperature, and Thermal Strain of Composite Materials. IEEE Sensors Journal, 2014, 14, 2571-2578.	4.7	30
69	A Compact Sagnac Loop Based on a Microfiber Coupler for Twist Sensing. IEEE Photonics Technology Letters, 2015, 27, 2579-2582.	2.5	30
70	Resolution-enhanced all-optical analog-to-digital converter employing cascade optical quantization operation. Optics Express, 2014, 22, 21441.	3.4	29
71	Packaged Optical Add-Drop Filter Based on an Optical Microfiber Coupler and a Microsphere. IEEE Photonics Technology Letters, 2016, 28, 2277-2280.	2.5	29
72	High Degree Picosecond Pulse Compression in Chalcogenide-Silicon Slot Waveguide Taper. Journal of Lightwave Technology, 2016, 34, 3843-3852.	4.6	29

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73	Ultrasensitive biosensor based on magnetic microspheres enhanced microfiber interferometer. Biosensors and Bioelectronics, 2019, 145, 111563.	10.1	29
74	Hollow-Core Negative Curvature Fiber with High Birefringence for Low Refractive Index Sensing Based on Surface Plasmon Resonance Effect. Sensors, 2020, 20, 6539.	3.8	29
75	An Optimized Macrobending-Fiber-Based Edge Filter. IEEE Photonics Technology Letters, 2007, 19, 1136-1138.	2.5	28
76	Investigation of macrobending losses of standard single mode fiber with small bend radii. Microwave and Optical Technology Letters, 2007, 49, 2133-2138.	1.4	28
77	Chalcogenide Microsphere Fabricated From Fiber Tapers Using Contact With a High-Temperature Ceramic Surface. IEEE Photonics Technology Letters, 2012, 24, 1103-1105.	2.5	28
78	The use of a bend singlemodeâ€“multimodeâ€“singlemode (SMS) fibre structure for vibration sensing. Optics and Laser Technology, 2014, 63, 29-33.	4.6	28
79	Singleâ€modeâ€“multimodeâ€“singleâ€mode fiber structures for simultaneous measurement of strain and temperature. Microwave and Optical Technology Letters, 2011, 53, 2181-2185.	1.4	27
80	A High-Temperature Humidity Sensor Based on a Singlemode-Side Polished Multimode-Singlemode Fiber Structure. Journal of Lightwave Technology, 2018, 36, 2730-2736.	4.6	27
81	A high sensitivity temperature sensor based on balloon-shaped bent SMF structure with its original polymer coating. Measurement Science and Technology, 2018, 29, 085104.	2.6	27
82	In-fiber whispering-gallery mode microsphere resonator-based integrated device. Optics Letters, 2018, 43, 3961.	3.3	27
83	Low-temperature sensitivity periodically tapered photonic crystal-fiber-based refractometer. Optics Letters, 2013, 38, 3795.	3.3	26
84	Design and optimization of silicon concentric dual-microring resonators for refractive index sensing. Optics Communications, 2017, 395, 212-216.	2.1	26
85	Simultaneous Measurement of the Refractive Index and Temperature Based on Microdisk Resonator With Two Whispering-Gallery Modes. IEEE Photonics Journal, 2017, 9, 1-13.	2.0	26
86	Magnetic field sensing using whispering-gallery modes in a cylindrical microresonator infiltrated with ferronematic liquid crystal. Optics Express, 2017, 25, 12195.	3.4	26
87	Thermo-optic tuning of a packaged whispering gallery mode resonator filled with nematic liquid crystal. Optics Express, 2018, 26, 8431.	3.4	26
88	Whispering gallery mode micro resonators for multi-parameter sensing applications. Optics Express, 2018, 26, 31829.	3.4	26
89	All-fibre temperature sensor based on macro-bend singlemode fibre loop. Electronics Letters, 2008, 44, 1123.	1.0	25
90	Design on a highly birefringent and highly nonlinear tellurite ellipse core photonic crystal fiber with two zero dispersion wavelengths. Optical Fiber Technology, 2014, 20, 320-324.	2.7	25

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91	Investigation of Humidity and Temperature Response of a Silica Gel Coated Microfiber Coupler. IEEE Photonics Journal, 2016, 8, 1-7.	2.0	25
92	A Packaged Whispering Gallery Mode Strain Sensor Based on a Polymer-Wire Cylindrical Micro Resonator. Journal of Lightwave Technology, 2018, 36, 1757-1765.	4.6	25
93	A Microfiber Knot Incorporating a Tungsten Disulfide Saturable Absorber Based Multi-Wavelength Mode-Locked Erbium-Doped Fiber Laser. Journal of Lightwave Technology, 2018, 36, 5633-5639.	4.6	25
94	Highly sensitive displacement sensor based on composite interference established within a balloon-shaped bent multimode fiber structure. Applied Optics, 2018, 57, 9662.	1.8	25
95	Resolution investigation of a ratiometric wavelength measurement system. Applied Optics, 2007, 46, 6362.	2.1	24
96	High temperature performance of an optical microfibre coupler and its potential use as a sensor. Electronics Letters, 2012, 48, 283.	1.0	24
97	Photonic Crystal Fiber Interferometer for Dew Detection. Journal of Lightwave Technology, 2012, 30, 1150-1155.	4.6	24
98	Polymer micro-fiber Bragg grating. Optics Letters, 2013, 38, 3359.	3.3	24
99	Natural three-dimensional display with smooth motion parallax using active partially pixelated masks. Optics Communications, 2014, 313, 146-151.	2.1	24
100	Experimental demonstration of a high-sensitivity humidity sensor based on an Agarose-coated transmission-type photonic crystal fiber interferometer. Applied Optics, 2013, 52, 3884.	1.8	23
101	Low Loss, High Extinction Ration and Ultra-Compact Plasmonic Polarization Beam Splitter. IEEE Photonics Technology Letters, 2014, 26, 660-663.	2.5	23
102	A Coated Spherical Microresonator for Measurement of Water Vapor Concentration at PPM Levels in Very Low Humidity Environments. Journal of Lightwave Technology, 2018, 36, 2667-2674.	4.6	23
103	High sensitivity temperature sensor based on singlemode-no-core-singlemode fibre structure and alcohol. Sensors and Actuators A: Physical, 2018, 284, 28-34.	4.1	23
104	Photoluminescence of copper ion exchange BK7 glass planar waveguides. Journal of Materials Science, 2008, 43, 7073-7078.	3.7	21
105	Electronic tunability of ferroelectric liquid crystal infiltrated photonic crystal fibre. Electronics Letters, 2009, 45, 617.	1.0	21
106	Misalignment Limits for a Singlemodeâ€“Multimodeâ€“Singlemode Fiber-Based Edge Filter. Journal of Lightwave Technology, 2009, 27, 2482-2488.	4.6	21
107	Highly Efficient Wavelength-Tunable Anti-Stokes Signal Conversion of Femtosecond Pulses in the Fundamental Mode of Photonic Crystal Fiber. IEEE Journal of Quantum Electronics, 2010, 46, 728-733.	1.9	21
108	BOTDR integrated with FBG sensor array for distributed strain measurement. Electronics Letters, 2010, 46, 66.	1.0	21

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109	Tunable RFâ€band optoelectronic oscillator and optoelectronic computerâ€aided design model for its simulation. Microwave and Optical Technology Letters, 2011, 53, 2474-2477.	1.4	21
110	Analysis of Vibration Measurements in a Composite Material Using an Embedded PM-PCF Polarimetric Sensor and an FBG Sensor. IEEE Sensors Journal, 2012, 12, 1365-1371.	4.7	21
111	Hybrid nanowedge plasmonic waveguide for low loss propagation with ultra-deep-subwavelength mode confinement. Optics Letters, 2014, 39, 973.	3.3	21
112	A Hybrid Wedge-To-Wedge Plasmonic Waveguide With Low Loss Propagation and Ultra-Deep-Nanoscale Mode Confinement. Journal of Lightwave Technology, 2015, 33, 3827-3835.	4.6	21
113	Ultra-high-resolution detection of Pb²⁺ ions using a black phosphorus functionalized microfiber coil resonator. Photonics Research, 2019, 7, 622.	7.0	21
114	All-optical timing extraction with frequency division using a twin-section laser diode. IEEE Photonics Technology Letters, 1993, 5, 718-721.	2.5	20
115	Ratiometric wavelength monitor based on singlemodeâ€multimodeâ€singlemode fiber structure. Microwave and Optical Technology Letters, 2008, 50, 3036-3039.	1.4	20
116	Temperature dependence of macrobending loss in all-fiber bend loss edge filter. Optics Communications, 2008, 281, 4312-4316.	2.1	20
117	Highly Efficient and Broadband Cherenkov Radiation at the Visible Wavelength in the Fundamental Mode of Photonic Crystal Fiber. IEEE Photonics Technology Letters, 2011, 23, 786-788.	2.5	20
118	Experimental demonstration of an allâ€fiber variable optical attenuator based on liquid crystal infiltrated photonic crystal fiber. Microwave and Optical Technology Letters, 2011, 53, 539-543.	1.4	20
119	A Photonic Crystal Fiber and Fiber Bragg Grating-Based Hybrid Fiber-Optic Sensor System. IEEE Sensors Journal, 2012, 12, 39-43.	4.7	20
120	Microfiber coupler based label-free immunosensor. Optics Express, 2014, 22, 8150.	3.4	20
121	Mid-infrared self-similar compression of picosecond pulse in an inversely tapered silicon ridge waveguide. Optics Express, 2017, 25, 33439.	3.4	20
122	Novel Microfiber Sensor and Its Biosensing Application for Detection of hCG Based on a Singlemode-Tapered Hollow Core-Singlemode Fiber Structure. IEEE Sensors Journal, 2020, 20, 9071-9078.	4.7	20
123	Design of integrated wavelength monitor based on a Y-branch with an S-bend waveguide. Sensors and Actuators A: Physical, 2007, 134, 405-409.	4.1	19
124	Widely Wavelength-Tunable Two-Colored Solitons and Small Spectral Component for Broadband Mid-Infrared Wavelength Generation in a Highly Birefringent Photonic Crystal Fiber. IEEE Photonics Technology Letters, 2012, 24, 670-672.	2.5	19
125	Composite materials with embedded photonic crystal fiber interferometric sensors. Sensors and Actuators A: Physical, 2012, 182, 57-67.	4.1	19
126	Measurement of thermal elongation induced strain of a composite material using a polarization maintaining photonic crystal fiber sensor. Sensors and Actuators A: Physical, 2013, 190, 44-51.	4.1	19

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127	Miniature Fabryâ€“Perot interferometer based on a movable microsphere reflector. Optics Letters, 2020, 45, 787.	3.3	19
128	A macrobending singlemode fiber refractive index sensor for low refractive index liquids. Photonics Letters of Poland, 2010, 2, .	0.4	19
129	Effective index method for planar lightwave circuits containing directional couplers. Optics Communications, 2006, 259, 133-136.	2.1	18
130	Temperature dependence of a macrobending edge filter based on a high-bend loss fiber. Optics Letters, 2008, 33, 2470.	3.3	18
131	A liquid crystal coated tapered photonic crystal fiber interferometer. Journal of Optics (United) Tj ETQq1 1 0.784314 rgBT /Overlock 1	2.2	18
132	Mid-infrared Raman sources using spontaneous Raman scattering in germanium core optical fibers. Applied Physics Letters, 2013, 102, .	3.3	18
133	Photonic crystal fiber half-taper probe based refractometer. Optics Letters, 2014, 39, 2076.	3.3	18
134	Impact of Spectral Filtering on Multipulsing Instability in Mode-Locked Fiber Lasers. IEEE Journal of Selected Topics in Quantum Electronics, 2018, 24, 1-9.	2.9	18
135	Ultrabroadband mid-infrared emission from Cr2+-doped infrared transparent chalcogenide glass ceramics embedded with thermally grown ZnS nanorods. Journal of the European Ceramic Society, 2019, 39, 3373-3379.	5.7	18
136	High-sensitivity temperature sensor based on anti-resonance in high-index polymer-coated optical fiber interferometers. Optics Letters, 2020, 45, 5385.	3.3	18
137	In-fiber temperature sensor based on green up-conversion luminescence in an Er³⁺-Yb³⁺co-doped tellurite glass microsphere. Optics Letters, 2019, 44, 3214.	3.3	18
138	A novel highly sensitive optical fiber microphone based on single modeâ€“multimodeâ€“single mode structure. Microwave and Optical Technology Letters, 2011, 53, 442-445.	1.4	17
139	Efficient and broadband parametric wavelength conversion in a vertically etched silicon grating without dispersion engineering. Optics Express, 2014, 22, 6257.	3.4	17
140	Integrated label-free optical biochemical sensor with a large measurement range based on an angular grating-microring resonator. Applied Optics, 2016, 55, 4784.	2.1	17
141	Dissipative soliton generation in Er-doped fibre laser using SnS₂ as a saturable absorber. Applied Physics Express, 2019, 12, 102008.	2.4	17
142	Enhancing the Visibility of Vernier Effect in a Tri-Microfiber Coupler Fiber Loop Interferometer for Ultrasensitive Refractive Index and Temperature Sensing. Journal of Lightwave Technology, 2021, 39, 1523-1529.	4.6	17
143	Temperature-compensated magnetic field sensing with a dual-ring structure consisting of microfiber coupler-Sagnac loop and fiber Bragg grating-assisted resonant cavity. Applied Optics, 2019, 58, 2334.	1.8	17
144	Intense mid-infrared emission at 3.9â€‰â€‰Âµm in Ho³⁺-doped ZBYA glasses for potential use as a fiber laser. Optics Letters, 2020, 45, 4272.	3.3	17

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145	LIQUID CRYSTAL BASED OPTICAL SWITCHES. Molecular Crystals and Liquid Crystals, 2004, 413, 385-398.	0.9	16
146	The influence of thermal expansion of a composite material on embedded polarimetric sensors. Smart Materials and Structures, 2011, 20, 125002.	3.5	16
147	Sensitivity enhancement for a multimode fiber sensor with an axisymmetric metal grating layer. Photonics and Nanostructures - Fundamentals and Applications, 2014, 12, 69-74.	2.0	16
148	A comprehensive theoretical model for on-chip microring-based photonic fractional differentiators. Scientific Reports, 2015, 5, 14216.	3.3	16
149	CMOS-compatible 2-bit optical spectral quantization scheme using a silicon-nanocrystal-based horizontal slot waveguide. Scientific Reports, 2015, 4, 7177.	3.3	16
150	High Sensitivity Refractometer Based on Reflective Smf-Small Diameter No Core Fiber Structure. Sensors, 2017, 17, 1415.	3.8	16
151	Chalcogenide glasses with embedded ZnS nanocrystals: Potential midâ€infrared laser host for divalent transition metal ions. Journal of the American Ceramic Society, 2018, 101, 666-673.	3.8	16
152	NiS2 as a broadband saturable absorber for ultrafast pulse lasers. Optics and Laser Technology, 2020, 132, 106492.	4.6	16
153	Simultaneous measurement of displacement and temperature based on two cascaded balloon-like bent fibre structures. Optical Fiber Technology, 2020, 58, 102277.	2.7	16
154	Investigation of a novel SMS fiber based planar multimode waveguide and its sensing performance. Optics Express, 2018, 26, 26534.	3.4	16
155	Temperature-insensitive refractometer based on an RI-modulated singlemode-multimode-singlemode fibre structure. Optics Express, 2019, 27, 13754.	3.4	16
156	Design of Integrated Polarization Beam Splitter With Liquid Crystal. IEEE Journal of Selected Topics in Quantum Electronics, 2006, 12, 1349-1353.	2.9	15
157	Modeling liquid-crystal devices with the three-dimensional full-vector beam propagation method. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2006, 23, 2014.	1.5	15
158	Macrobending fibre loss filter, ratiometric wavelength measurement and application. Measurement Science and Technology, 2007, 18, 3082-3088.	2.6	15
159	Generalized design process for fiber-bend-loss-based edge filters for a wavelength measurement system. Applied Optics, 2009, 48, 3055.	2.1	15
160	Simple design technique for a triangular FBG filter based on a linearly chirped grating. Optics Communications, 2010, 283, 985-992.	2.1	15
161	Lead-silicate glass optical microbubble resonator. Applied Physics Letters, 2015, 106, .	3.3	15
162	Analysis and applications of nanocavity structures used as tunable filters and sensors. Infrared Physics and Technology, 2012, 55, 389-394.	2.9	14

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163	Investigation of Temperature Dependence of Microfiber Coil Resonators. Journal of Lightwave Technology, 2018, 36, 4887-4893.	4.6	14
164	Crystal-field engineering of ultrabroadband mid-infrared emission in Co2+-doped nano-chalcogenide glass composites. Journal of the European Ceramic Society, 2020, 40, 103-107.	5.7	14
165	Nanosecond passively Q-switched fibre laser using a NiS2 based saturable absorber. Optics Express, 2019, 27, 19843.	3.4	14
166	Anti-resonance, inhibited coupling and mode transition in depressed core fibers. Optics Express, 2020, 28, 16526.	3.4	14
167	Ultra-compact in-core-parallel-written FBG and Machâ€“Zehnder interferometer for simultaneous measurement of strain and temperature. Optics Letters, 2021, 46, 5595.	3.3	14
168	Comparison of self-pulsation in multisection lasers with distributed feedback and intracavity saturable absorbers. IEE Proceedings: Optoelectronics, 1994, 141, 114-118.	0.8	13
169	A voltage sensor based on a singlemodeâ€“multimodeâ€“singlemode fiber structure. Microwave and Optical Technology Letters, 2010, 52, 1887-1890.	1.4	13
170	Experimental analysis and demonstration of a low cost fibre optic temperature sensor system for engineering applications. Sensors and Actuators A: Physical, 2010, 163, 88-95.	4.1	13
171	A Fiber Bragg Grating-Based All-Fiber Sensing System for Telerobotic Cutting Applications. IEEE Sensors Journal, 2010, 10, 1913-1920.	4.7	13
172	Highly Efficient Anti-Stokes Signal Conversion by Pumping in the Normal and Anomalous Dispersion Regions in the Fundamental Mode of Photonic Crystal Fiber. Journal of Lightwave Technology, 2011, 29, 2920-2926.	4.6	13
173	Lead silicate glass microsphere resonators with absorption-limited Q. Applied Physics Letters, 2011, 98, .	3.3	13
174	Efficient and broadband Stokes wave generation by degenerate four-wave mixing at the mid-infrared wavelength in a silica photonic crystal fiber. Optics Letters, 2013, 38, 5288.	3.3	13
175	Fabrication and Characterization of a Magnetized Metal-Encapsulated FBG Sensor for Structural Health Monitoring. IEEE Sensors Journal, 2018, 18, 8739-8746.	4.7	13
176	Compound Glass Microsphere Resonator Devices. Micromachines, 2018, 9, 356.	2.9	13
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