Francis Berghmans

List of Publications by Year
in descending order

289 papers	3,930 citations	117625 34 h-index	197818 49 g-index
290 all docs	290 docs citations	290 times ranked	2162 citing authors

#	Article	IF	Citations
1	Plasmon-Enhanced Refractometry Through Cladding Mode Excitation by a Fiber Bragg Grating in Photonic Crystal Fiber. Journal of Lightwave Technology, 2022, 40, 1121-1129.	4.6	7
2	Simultaneous modal phase and group velocity matching in microstructured optical fibers for second harmonic generation with ultrashort pulses. Optics Express, 2022, 30, 12026.	3.4	5
3	Practicalities of BVID detection on aerospace-grade CFRP materials with optical fibre sensors. Composite Structures, 2021, 259, 113243.	5.8	29
4	Identification of modal strains in concrete beams at sub-microstrain amplitude excitation using fibre Bragg grating sensors mounted on a strain-amplifying transducer. Structural Health Monitoring, 2021, 20, 1221-1230.	7.5	1
5	Monitoring of Torque Induced Strain in Composite Shafts with Embedded and Surface-Mounted Optical Fiber Bragg Gratings. Sensors, 2021, 21, 2403.	3.8	7
6	Challenges in the Fabrication of Biodegradable and Implantable Optical Fibers for Biomedical Applications. Materials, 2021, 14, 1972.	2.9	13
7	Wide-Field-of-View Longwave Camera for the Characterization of the Earthâ€™s Outgoing Longwave Radiation. Sensors, 2021, 21, 4444.	3.8	6
8	Design and Fabrication of Straight Waveguides, Tapers and S-Bends with Two-Photon Direct Laser Writing. , 2021, , .		0
9	Design and two-photon direct laser writing of low-loss waveguides, tapers and S-bends. JPhys Photonics, 2021, 3, 045001.	4.6	14
10	A global assessment of barely visible impact damage for CFRP sub-components with FBG-based sensors. Composite Structures, 2021, 272, 114025.	5.8	22
11	Compact wide field-of-view camera design for remote sensing of the Earthâ€™s emitted thermal radiation. , 2021, , .		1
12	Highly birefringent photonic crystal fiber for distributed hydrostatic pressure sensing. , 2021, , .		0
13	Optical fiber-based sensors as an experimental tool to assess the weft and warp yarn tension beam-to-roll in rapier weaving machines. Textile Reseach Journal, 2020, 90, 857-865.	2.2	6
14	On the Characterization of Novel Step-Index Biocompatible and Biodegradable poly(D,L-lactic acid) Based Optical Fiber. Journal of Lightwave Technology, 2020, 38, 1905-1914.	4.6	13
15	Spectral Verification of the Mechanisms behind FBG-Based Ultrasonic Guided Wave Detection. Sensors, 2020, 20, 6571.	3.8	9
16	Optical System Design of a Wide Field-of-View Camera for the Characterization of Earthâ€™s Reflected Solar Radiation. Remote Sensing, 2020, 12, 2556.	4.0	8
17	Design and Analysis of a Next-Generation Wide Field-of-View Earth Radiation Budget Radiometer. Remote Sensing, 2020, 12, 425.	4.0	14
18	Selective liquid filling of photonic crystal fibers using two-photon polymerization lithography without post-exposure development. , 2020, , .		1

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19	VACNT versus Black Velvet: a coating analysis for the next-generation Earth Radiation Budget radiometer. , 2020, , .		0
20	Fatigue failure monitoring of 316L stainless steel coupons using optical fibre based distributed strain sensing. Smart Materials and Structures, 2019, 28, 105054.	3.5	4
21	Numerical and Experimental Study on the IR Femtosecond Laser and Phase Mask-Based Grating Inscription in Photonic Crystal Fibers. , 2019, , .		0
22	Anomalous Transparency in Photonic Crystals and its Dependence on the Refractive Index Difference. , 2019, , .		0
23	Poly(D,L-Lactic Acid) (PDLLA) Biodegradable and Biocompatible Polymer Optical Fiber. Journal of Lightwave Technology, 2019, 37, 1916-1923.	4.6	36
24	Aerospace-grade surface mounted optical fibre strain sensor for structural health monitoring on composite structures evaluated against in-flight conditions. Smart Materials and Structures, 2019, 28, 065008.	3.5	60
25	Distributed Hydrostatic Pressure Measurement Using Phase-OTDR in a Highly Birefringent Photonic Crystal Fiber. Journal of Lightwave Technology, 2019, 37, 4496-4500.	4.6	25
26	Radiation-Induced Effects on Fiber Bragg Gratings Inscribed in Highly Birefringent Photonic Crystal Fiber. IEEE Transactions on Nuclear Science, 2019, 66, 120-124.	2.0	3
27	Effect of hydrogen gas on FBG-based optical fiber sensors for downhole pressure and temperature monitoring. Optics Express, 2019, 27, 5487.	3.4	12
28	Anomalous transparency in photonic crystals and its application to point-by-point grating inscription in photonic crystal fibers. Scientific Reports, 2018, 8, 5470.	3.3	10
29	Distributed hydrostatic pressure measurement using phase-OTDR in a highly birefringent photonic crystal fibre. , 2018, , .		0
30	Phase mask-based IR femtosecond grating inscription in a photonic crystal fiber with short focal length cylindrical lens. , 2018, , .		0
31	IR femtosecond pulsed laser-based fiber Bragg grating inscription in a photonic crystal fiber using a phase mask and a short focal length lens. Optics Express, 2018, 26, 14741.	3.4	6
32	Packaged FBG based optical fiber sensor for simultaneous pressure and temperature monitoring. , 2018, , .		6
33	Aerospace-grade compatible surface mounted optical fibre sensor for structural health monitoring of composite structures. , 2018, , .		2
34	Optical Fiber Bragg Grating Sensors for Torque Induced Strain Monitoring in Filament Wound Composite Shafts. , 2018, , .		0
35	Highly birefringent photonic crystal fiber compatible with IR femtosecond grating inscription methods. , 2018, , .		0
36	Instrumentation of a Lead-Bismuth Eutectic Cooled Nuclear Fuel Assembly Using Fibre Bragg Gratings for Characterizing the Flow-Induced Vibrations. , 2018, , .		0

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37	Micro-structured fiber Bragg grating based pressure sensors in a downhole-like hydrogen rich environment. , 2018, , .		0
38	Fiber Bragg grating sensors written by femtosecond laser pulses in micro-structured fiber for downhole pressure monitoring. , 2017, , .		0
39	Fibre optic sensor based measurements of flow-induced vibration in a liquid metal cooled nuclear reactor set-up. , 2017, , .		0
40	Mechanical strain-amplifying transducer for fiber Bragg grating sensors with applications in structural health monitoring. , 2017, , .		1
41	Development of a mechanical strain amplifying transducer with Bragg grating sensor for low-amplitude strain sensing. Smart Materials and Structures, 2017, 26, 075006.	3.5	11
42	Dynamic 3D strain measurements with embedded micro-structured optical fiber Bragg grating sensors during impact on a CFRP coupon. , 2017, , .		0
43	Identification of modal strains using sub-microstrain FBG data and a novel wavelength-shift detection algorithm. Mechanical Systems and Signal Processing, 2017, 86, 58-74.	8.0	33
44	FBGs written in specialty fiber for high pressure/high temperature measurement. Optics Express, 2017, 25, 17936.	3.4	35
45	Fibre Bragg Gratings in Embedded Microstructured Optical Fibres Allow Distinguishing between Symmetric and Anti-Symmetric Lamb Waves in Carbon Fibre Reinforced Composites. Sensors, 2017, 17, 1948.	3.8	9
46	Characterizing Flow-Induced Vibrations of Fuel Assemblies for Future Liquid Metal Cooled Nuclear Reactors Using Quasi-Distributed Fibre-Optic Sensors. Applied Sciences (Switzerland), 2017, 7, 864.	2.5	12
47	Point-by-point fiber Bragg grating inscription in a dedicated multi-ring hexagonal lattice photonic crystal fiber. , 2017, , .		0
48	Vibration Monitoring Using Fiber Optic Sensors in a Lead-Bismuth Eutectic Cooled Nuclear Fuel Assembly. Sensors, 2016, 16, 571.	3.8	21
49	A numerical study on the importance of non-uniform index modification during femtosecond grating inscription in microstructured optical fibers. , 2016, , .		0
50	Inverse Abel transform algorithms to determine the radial profile of the photoelastic coefficient of glass optical fibers. , 2016, , .		0
51	Understanding the influence of the structured cladding on the reflectivity of femtosecond laser written gratings in photonic crystal fibers. , 2016, , .		0
52	Determination of the radial profile of the photoelastic coefficient of polymer optical fibers. , 2016, , .		0
53	Thermal effects on the photoelastic coefficient of polymer optical fibers. Optics Letters, 2016, 41, 2517.	3.3	14
54	Temperature monitoring using fibre optic sensors in a lead-bismuth eutectic cooled nuclear fuel assembly. Nuclear Engineering and Design, 2016, 297, 54-59.	1.7	5

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55	Photonic Crystal Fibers for Femtosecond Laser Point-by-Point Grating Inscription. , 2016, , .		1
56	The novel potential for embedded strain measurements offered by micro-structured optical fiber Bragg gratings. , 2015, , 529-535.		0
57	Operational modal analysis of flow-induced vibration of nuclear fuel rods in a turbulent axial flow. Nuclear Engineering and Design, 2015, 284, 19-26.	1.7	25
58	Microstructured optical fibre-based sensors for structural health monitoring applications. , 2015, , 139-174.		0
59	The role of highly non-linear index change mechanism during femtosecond grating writing in microstructured optical fibers. , 2015, , .		0
60	A Micro-Computed Tomography Technique to Study the Quality of Fibre Optics Embedded in Composite Materials. Sensors, 2015, 15, 10852-10871.	3.8	13
61	Microstructured optical fiber Bragg grating as an internal three-dimensional strain sensor for composite laminates. Smart Materials and Structures, 2015, 24, 055003.	3.5	27
62	Opportunities for designing microstructured optical fibers for efficient femtosecond laser grating inscription. , 2015, , .		0
63	Numerical modeling of femtosecond laser inscribed IR gratings in photonic crystal fibers. Optics Express, 2015, 23, 709.	3.4	12
64	Algorithms for determining the radial profile of the photoelastic coefficient in glass and polymer optical fibers. Optics Express, 2015, 23, 18943.	3.4	4
65	Signal-to-Noise Ratio Evaluation of Fibre Bragg Gratings for Dynamic Strain Sensing at Elevated Temperatures in a Liquid Metal Environment. Journal of Lightwave Technology, 2015, 33, 2378-2385.	4.6	8
66	Influence of Fiber Bragg Grating Spectrum Degradation on the Performance of Sensor Interrogation Algorithms. Sensors, 2014, 14, 24258-24277.	3.8	28
67	On a possible method to measure the radial profile of the photoelastic constant in step-index optical fiber. , 2014, , .		1
68	Peak detection in fiber Bragg grating using a fast phase correlation algorithm. , 2014, , .		6
69	Internal strain monitoring in composite materials with embedded photonic crystal fiber Bragg gratings. Proceedings of SPIE, 2014, , .	0.8	1
70	Plastic Optical Fibers for Sensing Applications. , 2014, , .		4
71	Microstructured optical fiber Bragg grating-based strain and temperature sensing in the concrete buffer of the Belgian supercontainer concept. Proceedings of SPIE, 2014, , .	0.8	4
72	Disbond monitoring in adhesive joints using shear stress optical fiber sensors. Smart Materials and Structures, 2014, 23, 075006.	3.5	27

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73	Reflective polarimetric vibration sensor based on temperature-independent FBG in HiBi microstructured optical fiber. , 2014, , .		3
74	Microstructured optical fiber Bragg grating-based shear stress sensing in adhesive bonds. , 2014, , .		0
75	Self-centering fiber alignment structures for high-precision field installable single-mode fiber connectors. Proceedings of SPIE, 2014, , .	0.8	3
76	Signal-to-noise ratio evaluation with draw tower fibre Bragg gratings (DTGs) for dynamic strain sensing at elevated temperatures and corrosive environment. Proceedings of SPIE, 2014, , .	0.8	3
77	Fiber Bragg grating-based shear strain sensors for adhesive bond monitoring. Proceedings of SPIE, 2014, , .	0.8	1
78	Challenges in the fabrication of fibre Bragg gratings in silica and polymer microstructured optical fibres. Laser and Photonics Reviews, 2014, 8, 27-52.	8.7	63
79	A novel fast phase correlation algorithm for peak wavelength detection of fiber Bragg grating sensors. Optics Express, 2014, 22, 7099.	3.4	63
80	Mechanical Strength of Microstructured Optical Fibers. Journal of Lightwave Technology, 2014, 32, 2193-2201.	4.6	8
81	Photonic crystal lenses for transverse focusing of laser illumination in microstructured optical fibers. , 2014, , .		0
82	Microstructured fibers optimized for transverse load and pressure sensing. , 2014, , .		0
83	Embedded fiber Bragg gratings in photonic crystal fiber for cure cycle monitoring of carbon fiber-reinforced polymer materials. Proceedings of SPIE, 2013, , .	0.8	2
84	Benchmarking of deformation and vibration measurement techniques for nuclear fuel pins. Measurement: Journal of the International Measurement Confederation, 2013, 46, 3647-3653.	5.0	26
85	Shear stress sensing with Bragg grating-based sensors in microstructured optical fibers. Optics Express, 2013, 21, 20404.	3.4	46
86	Influence of measurement noise on the determination of the radial profile of the photoelastic coefficient in step-index optical fibers. Applied Optics, 2013, 52, 8451.	1.8	6
87	Photonic Crystal Mikaelian Lenses and Their Potential Use as Transverse Focusing Elements in Microstructured Fibers. IEEE Photonics Journal, 2013, 5, 7100512-7100512.	2.0	13
88	Experimental investigation of bending properties of large mode area photonic crystal fibre with double lattice constant structure. , 2013, , .		0
89	On the influence of hexagonal lattice photonic crystal fiber parameters on femtosecond grating inscription. Proceedings of SPIE, 2012, , .	0.8	1
90	Temperature-insensitive polarimetric vibration sensor based on HiBi microstructured optical fiber. Applied Optics, 2012, 51, 6130.	1.8	21

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91	Sensing characteristics of the rocking filters in microstructured fibers optimized for hydrostatic pressure measurements. Optics Express, 2012, 20, 23320.	3.4	27
92	Towards flexible photonic sensing skins with optical fiber sensors. , 2012, , .		0
93	Rocking filter in microstructured fiber for high resolution hydrostatic pressure measurements. , 2012, , .		0
94	Microstructure-assisted grating inscription in photonic crystal fibers. , 2012, , .		2
95	Supercontinuum generation in all-solid photonic crystal fiber with low index core. Laser Physics, 2012, 22, 784-790.	1.2	12
96	Mechanical reliability of microstructured optical fibers: a comparative study of tensile and bending strength. Proceedings of SPIE, 2012, , .	0.8	2
97	Characterisation of Tactile Sensors based on Fibre Bragg gratings Towards Temperature Independent Pressure Sensing. Procedia Engineering, 2012, 47, 1402-1405.	1.2	5
98	Photonic Crystal Fiber With Large Mode Area and Characteristic Bending Properties. IEEE Photonics Technology Letters, 2012, 24, 1409-1411.	2.5	28
99	Control Over the Pressure Sensitivity of Bragg Grating-Based Sensors in Highly Birefringent Microstructured Optical Fibers. IEEE Photonics Technology Letters, 2012, 24, 527-529.	2.5	37
100	Applying optical design methods to the development of application specific photonic crystal fibres. , 2012, , .		2
101	Photonic crystal fiber with large-mode area and low-bending loss for high-power compact lasers and amplifiers. , 2012, , .		0
102	Design of a low-bending-loss large-mode-area photonic crystal fiber. Proceedings of SPIE, 2012, , .	0.8	3
103	Transverse propagation of ultraviolet and infrared femtosecond laser pulses in photonic crystal fibers. Photonics Letters of Poland, 2012, 4, .	0.4	5
104	Towards micro-structured optical fiber sensors for transverse strain sensing in smart composite materials. , 2011, , .		11
105	Low-Loss Patch Cords by Effective Splicing of Various Photonic Crystal Fibers With Standard Single Mode Fiber. Journal of Lightwave Technology, 2011, 29, 2940-2946.	4.6	18
106	Geometrical study of a hexagonal lattice photonic crystal fiber for efficient femtosecond laser grating inscription. Optics Express, 2011, 19, 7705.	3.4	42
107	Large-mode-area photonic crystal fiber with double lattice constant structure and low bending loss. Optics Express, 2011, 19, 22628.	3.4	58
108	Influence of Fiber Orientation on Femtosecond Bragg Grating Inscription in Pure Silica Microstructured Optical Fibers. IEEE Photonics Technology Letters, 2011, 23, 1832-1834.	2.5	22

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109	Photonic crystal fiber Bragg grating based sensors: opportunities for applications in healthcare. Proceedings of SPIE, 2011, , .	0.8	5
110	Microstructured Optical Fiber Sensors Embedded in a Laminate Composite for Smart Material Applications. Sensors, 2011, 11, 2566-2579.	3.8	70
111	Photonic crystal fiber Bragg grating based sensors â€“ opportunities for applications in healthcare. , 2011, , .		1
112	UV Bragg grating inscription in germanium-doped photonic crystal fibers. Proceedings of SPIE, 2010, , .	0.8	1
113	Polymer photonic sensing skin. Proceedings of SPIE, 2010, , .	0.8	1
114	Highly birefringent soft glass rectangular photonic crystal fibers with elliptical holes. Applied Physics B: Lasers and Optics, 2010, 99, 13-17.	2.2	15
115	Development of flexible pressure sensing polymer foils based on embedded fibre Bragg grating sensors. Procedia Engineering, 2010, 5, 272-275.	1.2	13
116	Induced optical absorption of silicate glasses due to gamma irradiation at high temperatures. Fusion Engineering and Design, 2010, 85, 1-6.	1.9	10
117	Polarizing photonic crystal fiber with low index inclusion in the core. Journal of Optics (United) Tj ETQq1 1 0.784314 rgBT /Overlock 1	2.2	5
118	Optical fiber sensors embedded in flexible polymer foils. Proceedings of SPIE, 2010, , .	0.8	6
119	Highly birefringent microstructured fibers with enhanced sensitivity to hydrostatic pressure. Optics Express, 2010, 18, 15113.	3.4	137
120	Extremely large-mode-area photonic crystal fibre with low bending loss. Optics Express, 2010, 18, 15408.	3.4	56
121	Point-by-point fiber Bragg grating inscription in free-standing step-index and photonic crystal fibers using near-IR femtosecond laser. Optics Letters, 2010, 35, 1647.	3.3	78
122	Bragg Grating Inscription in GeO -Doped Microstructured Optical Fibers. Journal of Lightwave Technology, 2010, 28, 1459-1467.	4.6	41
123	Development of silicate hollow core photonic crystal fiber. Photonics Letters of Poland, 2010, 2, .	0.4	0
124	Ultra flat supercontinuum generation in silicate dual core microstructured fiber. Laser Physics Letters, 2009, 6, 575-581.	1.4	34
125	Birefringent photonic crystal fibers with zero polarimetric sensitivity to temperature. Applied Physics B: Lasers and Optics, 2009, 94, 635-640.	2.2	34
126	Transverse UV-laser irradiation-induced defects and absorption in a single-mode erbium-doped optical fiber. Optical Materials, 2009, 31, 1296-1299.	3.6	3

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127	Radiation Sensitivity of EDFAs Based on Highly Er-Doped Fibers. Journal of Lightwave Technology, 2009, 27, 1540-1545.	4.6	29
128	Transversal Load Sensing With Fiber Bragg Gratings in Microstructured Optical Fibers. IEEE Photonics Technology Letters, 2009, 21, 6-8.	2.5	83
129	Response of FBGs in Microstructured and Bow Tie Fibers Embedded in Laminated Composite. IEEE Photonics Technology Letters, 2009, 21, 1290-1292.	2.5	37
130	Guidelines for the characterization and use of fibre optic sensors: basic definitions and a proposed standard for FBG-based strain sensors. , 2009, , .		6
131	Fiber Bragg gratings in microstructured optical fibers for stress monitoring. Proceedings of SPIE, 2009, , .	0.8	0
132	Photonic skins for optical sensing: highlights of the PHOSFOS Project. , 2009, , .		2
133	Supercontinuum generation with microstructured fibers made of soft glass. Photonics Letters of Poland, 2009, 1, .	0.4	0
134	An Introduction to Radiation Effects on Optical Components and Fiber Optic Sensors. , 2008, , 127-165.		35
135	Effect of the Fiber Coating on the Radiation Sensitivity of Type I FBGs. IEEE Photonics Technology Letters, 2008, 20, 1802-1804.	2.5	28
136	Fiber Bragg Gratings in Germanium-Doped Highly Birefringent Microstructured Optical Fibers. IEEE Photonics Technology Letters, 2008, 20, 554-556.	2.5	52
137	Highly birefringent holey fibers with zero polarimetric sensitivity to temperature. Proceedings of SPIE, 2008, , .	0.8	0
138	Photonic crystal fibers for sensing applications. , 2008, , .		3
139	Effect of Ionizing Radiation on the Performance of Volume Holographic Elements. IEEE Transactions on Nuclear Science, 2008, 55, 2248-2251.	2.0	1
140	Stabilization of Fiber Bragg Gratings Against Gamma Radiation. IEEE Transactions on Nuclear Science, 2008, 55, 2205-2212.	2.0	35
141	Gamma-irradiation tests of IR optical fibres for ITER thermographyâ€"a case study. AIP Conference Proceedings, 2008, , .	0.4	0
142	Core Versus Cladding Effects of Proton Irradiation on Erbium-Doped Optical Fiber: Micro-Luminescence Study. IEEE Transactions on Nuclear Science, 2008, 55, 2223-2228.	2.0	18
143	<title>Soft glass photonic crystal fibers for supercontinuum generation</title>. , 2008, , .		0
144	The fabrication and characterization of fiber Bragg gratings in highly birefringent photonic crystal fibers for sensing applications. Proceedings of SPIE, 2008, , .	0.8	1

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145	Characterization of all-glass photonic band gap fiber. Proceedings of SPIE, 2008, , .	0.8	0
146	Influence of the coating type on the radiation sensitivity of FBGs. , 2008, , .		5
147	Broadband supercontinuum generation with photonic crystal fibers made of soft glass. , 2008, , .		0
148	Investigations of bending loss oscillations in large mode area photonic crystal fibers. Proceedings of SPIE, 2008, , .	0.8	1
149	Toward supercontinuum generation with non-symmetric double core microstructured fibers. , 2008, , .		2
150	An Introduction to Reliability of Optical Components and Fiber Optic Sensors. , 2008, , 73-100.		6
151	Effect of ionizing radiation on the performance of volume holographic elements. , 2007, , .		0
152	Measurements of polarimetric sensitivity to temperature in birefringent holey fibres. Measurement Science and Technology, 2007, 18, 3055-3060.	2.6	33
153	Fibre-optic gamma-flux monitoring in a fission reactor by means of Cerenkov radiation. Measurement Science and Technology, 2007, 18, 3257-3262.	2.6	34
154	Sensing with photonic crystal fibres. , 2007, , .		3
155	Stabilization of fiber Bragg gratings against gamma radiation. , 2007, , .		3
156	Photonic crystal fibers: new opportunities for sensing. Proceedings of SPIE, 2007, , .	0.8	13
157	Radiation-induced transmission degradation of borosilicate crown optical glass from four different manufacturers. Optical Engineering, 2007, 46, 043004.	1.0	9
158	Investigations of birefringence of the fundamental and the higher order modes in index guiding photonic crystal fiber. , 2007, , .		0
159	<title>Sensing applications of photonic crystal fibres</title>. , 2007, , .		1
160	<title>Polarizing photonic crystal fibers for different operation range</title>. Proceedings of SPIE, 2007, , .	0.8	0
161	Sensing properties of Bragg grating in highly birefringent and single mode photonic crystal fiber. , 2007, , .		2
162	Gamma radiation and low-temperature effect on a low-birefringence fibre for current sensing application in plasma burning reactors. Proceedings of SPIE, 2007, , .	0.8	1

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163	Experimental investigations of bending loss oscillations in large mode area photonic crystal fibers. Optics Express, 2007, 15, 13547.	3.4	40
164	Assessment of space radiation effects on solid-state Brillouin phase conjugate mirrors. Applied Optics, 2007, 46, 5329.	2.1	4
165	Reduction of the radiation-induced absorption in hydrogenated pure silica core fibres irradiated in situ with Î³-rays. Journal of Non-Crystalline Solids, 2007, 353, 466-472.	3.1	39
166	Gamma radiation induced loss in erbium doped optical fibers. Journal of Non-Crystalline Solids, 2007, 353, 477-480.	3.1	19
167	Proton- and Gamma-Induced Effects on Erbium-Doped Optical Fibers. IEEE Transactions on Nuclear Science, 2007, 54, 2426-2434.	2.0	68
168	Proton and gamma radiation of 0.13 µm 200 GHz NPN SiGe:C HBTs featuring an airgap deep trench isolation. , 2007, , .		3
169	Comparison of gamma and proton-induced radiation damage in long-wavelength VCSELs. , 2007, , .		3
170	Design and Assessment of a Circuit and Layout Level Radiation Hardened CMOS VCSEL Driver. IEEE Transactions on Nuclear Science, 2007, 54, 1055-1060.	2.0	13
171	Radial distribution of proton-induced effects in erbium-doped optical fibers: micro-luminescence study. , 2007, , .		2
172	Effect of simulated space radiation on solid-state Brillouin phase conjugate mirrors. , 2007, , .		0
173	Pulsed X-Ray and Continuous Gamma Radiation Effects on Erbium Doped Optical Fibers Properties. IEEE Transactions on Nuclear Science, 2007, 54, 2598-2603.	2.0	8
174	Analytical evaluation of bending loss oscillations in photonic crystal fibers. Optics Communications, 2007, 269, 261-270.	2.1	21
175	An active vacuum general-purpose radiation test facility for assessment of ceramic insulators and diagnostic components. Fusion Engineering and Design, 2007, 82, 2531-2535.	1.9	2
176	Experimental developments towards an ITER thermography diagnostic. Journal of Nuclear Materials, 2007, 363-365, 1466-1471.	2.7	8
177	Measurements of sensitivity to hydrostatic pressure and temperature in highly birefringent photonic crystal fibers. Optical and Quantum Electronics, 2007, 39, 481-489.	3.3	23
178	Dynamic characteristics of nonlinear Bragg gratings in photonic crystal fibres. Optical and Quantum Electronics, 2007, 39, 455-467.	3.3	2
179	Radiation assessment of hydrogen-loaded aluminium-coated pure silica core fibres for ITER plasma diagnostic applications. Fusion Engineering and Design, 2007, 82, 2451-2455.	1.9	33
180	Single-Polarization Single-Mode Photonic Band Gap Fiber. Acta Physica Polonica A, 2007, 111, 239-245.	0.5	10

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181	<title>High birefringent photonic crystal optical fiber for Bragg gratings inscriptions</title>. Proceedings of SPIE, 2007, , .	0.8	0
182	Measurements of hydrostatic pressure and temperature sensitivity in birefringent holey fibers. , 2006, 6182, 586.		0
183	Chemical composition fiber gratings in a high mixed gamma neutron radiation field. IEEE Transactions on Nuclear Science, 2006, 53, 1607-1613.	2.0	19
184	Mechanical reliability studies of optical fibres under high-dose gamma radiation. , 2006, , .		1
185	SPICE Modelling of a Discrete COTS SiGe HBT for Digital Applications up to MGy Dose Levels. IEEE Transactions on Nuclear Science, 2006, 53, 1945-1949.	2.0	7
186	Transient optical absorption in pulsed-X-ray-irradiated pure-silica-core optical fibers: Influence of self-trapped holes. Journal of Non-Crystalline Solids, 2006, 352, 2637-2642.	3.1	42
187	Kinetic approach to the decomposition of radiation-induced absorption spectra. Journal of Non-Crystalline Solids, 2006, 352, 3343-3349.	3.1	3
188	Reliability studies of microoptical components in NEMO. , 2006, , .		0
189	Technology of high-birefringent photonic crystal fibers for sensing applications. , 2006, , .		1
190	Polarizing Properties of Photonic Crystal Fibers. , 2006, , .		4
191	Numerical Analysis of Highly Birefringent Photonic Crystal Fibers with Bragg Reflectors. Optical and Quantum Electronics, 2006, 38, 535-545.	3.3	5
192	Use of the polarization properties of fiber Bragg gratings for sensing purposes. , 2006, 6189, 516.		1
193	High-Vacuum Gamma Irradiation Facilities for Synergistic Effects Testing on Optoelectronic Components and Materials. IEEE Transactions on Nuclear Science, 2006, 53, 3726-3730.	2.0	8
194	Comparative Study of Pulsed X-Ray and$gamma$-Ray Radiation-Induced Effects in Pure-Silica-Core Optical Fibers. IEEE Transactions on Nuclear Science, 2006, 53, 1756-1763.	2.0	14
195	Design and Assessment of a High Gamma-Dose Tolerant VCSEL Driver With Discrete SiGe HBTs. IEEE Transactions on Nuclear Science, 2006, 53, 2033-2039.	2.0	9
196	Reliability of components for fiber optic sensors (Invited Paper). , 2005, , .		1
197	Reliability of optical fibers and components (Invited Paper). , 2005, , .		6
198	Theoretical investigations of birefringent holey fiber of new construction. , 2005, , .		0

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199	Investigation of highly birefringent microstructured fibres for Bragg gratings inscription. , 2005, , .		0
200	Application of microinterferometric tomography as an evaluation tool for phase micro-objects. , 2005, 5776, 596.		4
201	Gamma dosimetry using commercial PMMA optical fibres for nuclear environments. , 2005, 5855, 499.		6
202	Application of the microinterferometric tomography setup to the reliability tests of the fiber sensors exposed to cumulated gamma radiation. , 2005, , .		1
203	Analysis of birefringent doped-core holey fibers for Bragg gratings. , 2005, 5855, 351.		2
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