

Gabriela Statkiewicz-Barabach

List of Publications by Year in descending order

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81
papers

1,231
citations

331670

21
h-index

377865

34
g-index

81
all docs

81
docs citations

81
times ranked

836
citing authors

#	ARTICLE	IF	CITATIONS
1	Highly birefringent microstructured fibers with enhanced sensitivity to hydrostatic pressure. <i>Optics Express</i> , 2010, 18, 15113.	3.4	137
2	Simultaneous measurement of multiparameters using a Sagnac interferometer with polarization maintaining side-hole fiber. <i>Applied Optics</i> , 2008, 47, 4841.	2.1	87
3	How to strengthen or weaken the HRV dependence on heart rate \hat{e} Description of the method and its perspectives. <i>International Journal of Cardiology</i> , 2013, 168, 1660-1663.	1.7	81
4	Measurements of modal birefringence and polarimetric sensitivity of the birefringent holey fiber to hydrostatic pressure and strain. <i>Optics Communications</i> , 2004, 241, 339-348.	2.1	78
5	Temperature and pressure sensitivities of the highly birefringent photonic crystal fiber with core asymmetry. <i>Applied Physics B: Lasers and Optics</i> , 2005, 81, 325-331.	2.2	62
6	Experimental and theoretical investigations of birefringent holey fibers with a triple defect. <i>Applied Optics</i> , 2005, 44, 2652.	2.1	59
7	Fiber Bragg Gratings in Germanium-Doped Highly Birefringent Microstructured Optical Fibers. <i>IEEE Photonics Technology Letters</i> , 2008, 20, 554-556.	2.5	52
8	Sensing characteristics of rocking filter fabricated in microstructured birefringent fiber using fusion arc splicer. <i>Optics Express</i> , 2008, 16, 17249.	3.4	41
9	Measurements of polarimetric sensitivity to hydrostatic pressure, strain and temperature in birefringent dual-core microstructured polymer fiber. <i>Optics Express</i> , 2010, 18, 12076.	3.4	39
10	Control Over the Pressure Sensitivity of Bragg Grating-Based Sensors in Highly Birefringent Microstructured Optical Fibers. <i>IEEE Photonics Technology Letters</i> , 2012, 24, 527-529.	2.5	37
11	Measurements of stress-optic coefficient in polymer optical fibers. <i>Optics Letters</i> , 2010, 35, 2013.	3.3	36
12	How to select patients who will not benefit from ICD therapy by using heart rate and its variability?. <i>International Journal of Cardiology</i> , 2013, 168, 1655-1658.	1.7	35
13	Birefringent photonic crystal fibers with zero polarimetric sensitivity to temperature. <i>Applied Physics B: Lasers and Optics</i> , 2009, 94, 635-640.	2.2	34
14	Measurements of polarimetric sensitivity to temperature in birefringent holey fibres. <i>Measurement Science and Technology</i> , 2007, 18, 3055-3060.	2.6	33
15	Hydrostatic Pressure and Strain Sensitivity of Long Period Grating Fabricated in Polymer Microstructured Fiber. <i>IEEE Photonics Technology Letters</i> , 2013, 25, 496-499.	2.5	28
16	Fabrication of multiple Bragg gratings in microstructured polymer fibers using a phase mask with several diffraction orders. <i>Optics Express</i> , 2013, 21, 8521.	3.4	28
17	Gender differences in the interaction between heart rate and its variability \hat{e} How to use it to improve the prognostic power of heart rate variability. <i>International Journal of Cardiology</i> , 2014, 171, e42-e45.	1.7	28
18	Measurement and modelling of dispersion characteristics of a two-mode birefringent holey fibre. <i>Measurement Science and Technology</i> , 2006, 17, 626-630.	2.6	27

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19	Sensing characteristics of the rocking filters in microstructured fibers optimized for hydrostatic pressure measurements. <i>Optics Express</i> , 2012, 20, 23320.	3.4	27
20	Measurements of sensitivity to hydrostatic pressure and temperature in highly birefringent photonic crystal fibers. <i>Optical and Quantum Electronics</i> , 2007, 39, 481-489.	3.3	23
21	Some considerations on the transmissivity of thin metal films. <i>Optics Express</i> , 2008, 16, 17258.	3.4	22
22	Fabry-Perot cavity based on polymer FBG as refractive index sensor. <i>Optics Communications</i> , 2017, 394, 37-40.	2.1	21
23	Measurements of birefringence and its sensitivity to hydrostatic pressure and elongation in photonic bandgap hollow core fiber with residual core ellipticity. <i>Optics Communications</i> , 2005, 255, 175-183.	2.1	19
24	Highly birefringent dual-mode microstructured fiber with enhanced polarimetric strain sensitivity of the second order mode. <i>Optics Express</i> , 2012, 20, 26996.	3.4	19
25	Microstructured polymer optical fiber for long period gratings fabrication using an ultraviolet laser beam. <i>Optics Letters</i> , 2014, 39, 2242.	3.3	19
26	Intermodal interferometer for strain and temperature sensing fabricated in birefringent boron doped microstructured fiber. <i>Applied Optics</i> , 2011, 50, 3742.	2.1	18
27	Photonic crystal fibers: new opportunities for sensing. <i>Proceedings of SPIE</i> , 2007, , .	0.8	13
28	Conversion of LP ₁₁ modes to vortex modes in a gradually twisted highly birefringent optical fiber. <i>Optics Letters</i> , 2021, 46, 4446.	3.3	12
29	Measurement of birefringence and ellipticity of polarization eigenmodes in spun highly birefringent fibers using spectral interferometry and lateral point-force method. <i>Optics Express</i> , 2018, 26, 34185.	3.4	12
30	Bragg grating-based Fabry-Perot interferometer fabricated in a polymer fiber for sensing with improved resolution. <i>Journal of Optics (United Kingdom)</i> , 2017, 19, 015609.	2.2	9
31	Hydrostatic Pressure and Temperature Measurements Using an In-Line Mach-Zehnder Interferometer Based on a Two-Mode Highly Birefringent Microstructured Fiber. <i>Sensors</i> , 2017, 17, 1648.	3.8	9
32	Measurements of stress-optic coefficient and Young's modulus in PMMA fibers drawn under different conditions. <i>Proceedings of SPIE</i> , 2010, , .	0.8	8
33	Comparison of growth dynamics and temporal stability of Bragg gratings written in polymer fibers of different types. <i>Journal of Optics (United Kingdom)</i> , 2015, 17, 085606.	2.2	8
34	Birefringence in microstructure fiber with elliptical GeO ₂ highly doped inclusion in the core. <i>Optics Letters</i> , 2008, 33, 2764.	3.3	7
35	Polarimetric Sensitivity to Torsion in Spun Highly Birefringent Fibers. <i>Sensors</i> , 2019, 19, 1639.	3.8	6
36	Twist Induced Mode Confinement in Partially Open Ring of Holes. <i>Journal of Lightwave Technology</i> , 2020, 38, 1372-1381.	4.6	6

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37	Polarizing photonic crystal fiber with low index inclusion in the core. Journal of Optics (United Kingdom), 2014, 15, 073001. doi:10.1088/1751-8751/15/7/073001	2.25	5
38	Higher-order rocking filters induced mechanically in fibers with different birefringence dispersion. Applied Optics, 2014, 53, 1258.	1.8	5
39	The Influence of Germanium Concentration in the Fiber Core on Temperature Sensitivity in Rayleigh Scattering-Based OFDR. IEEE Sensors Journal, 2021, 21, 20036-20044.	4.7	5
40	Polarizing Properties of Photonic Crystal Fibers. , 2006, , .		4
41	Very high polarimetric sensitivity to strain of second order mode of highly birefringent microstructured fibre. , 2011, , .		4
42	Long period gratings and rocking filters written with a CO2 laser in highly-birefringent boron-doped photonic crystal fibers for sensing applications. Optics Communications, 2012, 285, 264-268.	2.1	4
43	Inscription of long period gratings using an ultraviolet laser beam in the diffusion-doped microstructured polymer optical fiber. Applied Optics, 2015, 54, 6327.	2.1	4
44	Sensing with photonic crystal fibres. , 2007, , .		3
45	Photonic crystal fibers for sensing applications. , 2008, , .		3
46	Analysis of birefringent doped-core holey fibers for Bragg gratings. , 2005, 5855, 351.		2
47	Sensing properties of Bragg grating in highly birefringent and single mode photonic crystal fiber. , 2007, , .		2
48	Highly birefringent microstructured fibers for sensing applications. , 2008, , .		2
49	Method for increasing coupling efficiency between helical-core and standard single-mode fibers. Optics Express, 2021, 29, 5343.	3.4	2
50	Sensing characteristics of rocking filter fabricated in microstructured birefringent fiber using fusion arc splicer. Optics Express, 2008, 16, 17258-68.	3.4	2
51	<title>Sensing applications of photonic crystal fibres</title>. , 2007, , .		1
52	The Fiber Connection Method Using a Tapered Silica Fiber Tip for Microstructured Polymer Optical Fibers. Fibers, 2018, 6, 4.	4.0	1
53	Fiber-based vortex beam source operating in a broadband or tunable mode. Optics Express, 0, , .	3.4	1
54	Ceramic surface relief gratings imprinted on an optical fiber tip. Applied Optics, 2022, 61, 6128.	1.8	1

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55	Temperature sensitivity in birefringent photonic crystal fiber with triple defect. , 2005, , .		0
56	Experimental characterization of the photonic bandgap holey fiber with residual core ellipticity. , 0, , .		0
57	Measurements of hydrostatic pressure and temperature sensitivity in birefringent holey fibers. , 2006, 6182, 586.		0
58	<title>Dispersion measurements of the birefringent holey fiber by interferometric methods</title>. , 2006, , .		0
59	Experimental and theoretical analysis of dispersion characteristics of two-mode birefringent holey fiber. , 2006, 6182, 519.		0
60	Specialty optical fibers measured by interferometric techniques. , 2007, , .		0
61	Theoretical and experimental analysis of waveguiding in a two-mode birefringent holey fiber. , 2007, , .		0
62	<title>Polarizing photonic crystal fibers for different operation range</title>. Proceedings of SPIE, 2007, , .	0.8	0
63	Highly birefringent holey fibers with zero polarimetric sensitivity to temperature. Proceedings of SPIE, 2008, , .	0.8	0
64	<title>Measurement of the chromatic dispersion in birefringent microstructured fibers by spectral interferometry</title>. , 2008, , .		0
65	Rocking filters fabricated in birefringent photonic crystal fiber. , 2008, , .		0
66	<title>Measurement of modal birefringence and temperature sensitivity of birefringent holey fibers</title>. , 2008, , .		0
67	Sensing characteristics of rocking filters fabricated in microstructured birefringent fibers. , 2009, , .		0
68	Broadband measurement of dispersion in a two-mode birefringent holey fiber by spectral interferometric techniques. Proceedings of SPIE, 2009, , .	0.8	0
69	Birefringence dispersion in elliptical-core fibers measured over a broad wavelength range by interferometric techniques. Proceedings of SPIE, 2009, , .	0.8	0
70	Rocking filter in microstructured birefringent fiber for hydrostatic pressure measurements. , 2010, , .		0
71	Polarimetric sensitivity to hydrostatic pressure and temperature in birefringent dual-core microstructured polymer fiber. , 2010, , .		0
72	Sensing characteristics of long period gratings and rocking filters based on highly birefringent boron-doped photonic crystal fiber and fabricated by a CO 2 laser. , 2010, , .		0

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73	Modal interferometric sensor based in a birefringent boron-doped microstructured fiber. , 2011, , .		0
74	Rocking filter in microstructured fiber for high resolution hydrostatic pressure measurements. , 2012, , .		0
75	Fabrication of higher order Bragg gratings in microstructured polymer fibers. Proceedings of SPIE, 2013, , .	0.8	0
76	Rocking filter induced mechanically in a highly birefringent microstructured polymer fiber. Applied Optics, 2014, 53, 7729.	2.1	0
77	Experimental Analysis of Bragg Reflection Peak Splitting in Gratings Fabricated Using a Multiple Order Phase Mask. Sensors, 2019, 19, 433.	3.8	0
78	<title>High birefringent photonic crystal optical fiber for Bragg gratings inscriptions</title>. Proceedings of SPIE, 2007, , .	0.8	0
79	Refractive index sensor using a Fabry-Perot cavity in polymer fiber. , 2017, , .		0
80	Polymer and tapered silica fiber connection for polymer fiber sensor application. , 2017, , .		0
81	Polarimetric sensitivity to torsion and temperature in highly birefringent spun side-hole fibers. , 2019, , .		0