

# Antonio Quintela

## List of Publications by Year in descending order

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52  
papers

1,014  
citations

1040056

9  
h-index

580821

25  
g-index

52  
all docs

52  
docs citations

52  
times ranked

1252  
citing authors

#	ARTICLE	IF	CITATIONS
1	Fiber Optic Sensors in Structural Health Monitoring. Journal of Lightwave Technology, 2011, 29, 587-608.	4.6	636
2	Modification of the refractive index response of long period gratings using thin film overlays. Sensors and Actuators B: Chemical, 2005, 107, 738-741.	7.8	80
3	A quasi-distributed level sensor based on a bent side-polished plastic optical fibre cable. Measurement Science and Technology, 2007, 18, 2261-2267.	2.6	59
4	Uniform fiber Bragg grating first- and second-order diffraction wavelength experimental characterization for strain-temperature discrimination. IEEE Photonics Technology Letters, 2001, 13, 696-698.	2.5	39
5	Curvature Sensor Based on In-Fiber Mach-Zehnder Interferometer Inscribed With Femtosecond Laser. Journal of Lightwave Technology, 2017, 35, 4624-4628.	4.6	36
6	Stability Comparison of Two Ring Resonator Structures for Multiwavelength Fiber Lasers Using Highly Doped Er-Fibers. Journal of Lightwave Technology, 2009, 27, 2563-2569.	4.6	30
7	Interrogation unit for fiber Bragg grating sensors that uses a slanted fiber grating. Optics Letters, 2004, 29, 676.	3.3	25
8	Embedded temperature-strain fibre Bragg grating sensor system validation for concrete structures. Journal of Optics, 2002, 4, S387-S390.	1.5	12
9	Torsion-induced effects on UV long-period fiber gratings. , 2004, , .		12
10	Fabrication of FBCs With an Arbitrary Spectrum. IEEE Sensors Journal, 2008, 8, 1287-1291.	4.7	9
11	Fiber optic civil structure monitoring system. Optical Engineering, 2005, 44, 044401.	1.0	8
12	Embedded spectroscopic fiber sensor for on-line arc-welding analysis. Applied Optics, 2007, 46, 3215.	2.1	8
13	Interrogation of interferometric sensors with a tilted fiber Bragg grating. Optics Express, 2004, 12, 5646.	3.4	6
14	Optically Tunable Long-Period Fiber Grating on an Er <sup>3+</sup> Fiber. IEEE Photonics Technology Letters, 2007, 19, 732-734.	2.5	6
15	Bragg Gratings Written in Tapered Solid-Core Photonic Crystal Fibers. IEEE Photonics Technology Letters, 2010, 22, 1048-1050.	2.5	6
16	Fiber optics in structural health monitoring. , 2010, , .		4
17	30cm of spatial resolution using pre-excitation pulse BOTDA technique. Proceedings of SPIE, 2011, , .	0.8	4
18	Efficient temperature and strain discrimination with a single type I fiber Bragg grating transducer. , 0, , .		3

#	ARTICLE	IF	CITATIONS
19	Experimental characterization of tilted fiber Bragg gratings. , 0, , .		3
20	High Temperature Long Period Grating Thermo-Mechanically Written. Sensors, 2009, 9, 5649-5654.	3.8	3
21	Angle transducer based on fiber Bragg gratings able for tunnel auscultation. Proceedings of SPIE, 2010, , .	0.8	3
22	Experimental characterization of the spectral effective index dependence of index-guided photonic crystal fibers. Measurement Science and Technology, 2010, 21, 055111.	2.6	3
23	In-fiber Mach-Zehnder interferometer inscribed with femtosecond laser for high temperature sensing. Proceedings of SPIE, 2017, , .	0.8	3
24	<title>Concrete beam curing process and flexural test with fiber-Bragg-grating based transducers</title>. , 2002, 4694, 271.		2
25	Optical fiber sensor based on a chaotic fiber ring resonator. , 0, , .		2
26	Hyperspectral data processing algorithm combining principal component analysis and K nearest neighbours. Proceedings of SPIE, 2008, , .	0.8	2
27	Quasi distributed hybrid Brillouin fiber laser sensor system. Measurement Science and Technology, 2012, 23, 085202.	2.6	2
28	Strain and temperature transducer on one fiber Bragg grating. , 2001, 4328, 192.		1
29	Experimental feasibility demonstration of steel structures monitoring using Fiber Bragg Grating technology. , 0, , .		1
30	Interrogation of interferometric sensors with a tilted fiber Bragg grating. , 2004, 5502, 60.		1
31	Quasi-distributed liquid level measurement with adaptable optical fiber transducers. Proceedings of SPIE, 2007, , .	0.8	1
32	Tunable fiber laser using concatenated non-adiabatic single-mode fiber tapers. Proceedings of SPIE, 2008, , .	0.8	1
33	Refractometric sensor based on induced losses in the region of transition from a curved side-polished POF fiber. Proceedings of SPIE, 2008, , .	0.8	1
34	Quasidistributed fiber sensor for precast concrete structures monitoring. , 2012, , .		1
35	Sensor System Based on a Brillouin Fiber Laser for Remote in Series Fiber Bragg Gratings Interrogation. IEEE Sensors Journal, 2012, 12, 3480-3482.	4.7	1
36	<title>Experimental validation of fiber Bragg grating sensors for steel girder strain characterization</title>. , 2002, , .		0

#	ARTICLE	IF	CITATIONS
37	<title>Embedded fiber Bragg grating transducer for concrete structures</title>. , 2003, , .		0
38	<title>Bridge sensing using a fiber Bragg grating quasi-distributed transducer: in-field results</title>. , 2003, , .		0
39	Photonic Engineering Group of the University of Cantabria: Recent R&D Contributions in Photonic Sensing Technology. Fiber and Integrated Optics, 2004, 23, 207-229.	2.5	0
40	Civil engineering transducer's interrogation unit. , 2004, 5272, 332.		0
41	Strain and temperature remote sensing of concrete structures using photonic sensors. , 2004, , .		0
42	Arbitrary chirped fiber bragg grating fabrication technique. , 0, , .		0
43	Technique of FBG fabrication with an arbitrary spectrum. Proceedings of SPIE, 2007, , .	0.8	0
44	Optical properties of photonic crystal fibers with the strain. , 2007, , .		0
45	Successful Fiber Sensing Technologies and Hot Topics for the Near Future. AIP Conference Proceedings, 2008, , .	0.4	0
46	Unsupervised grouping of industrial textile dyes using K-means algorithm and optical fibre spectroscopy. , 2010, , .		0
47	Long integral temperature Brillouin sensor for off- shore wind energy power supply lines. , 2011, , .		0
48	Optimal design and implementation of a temperature and strain optical transducer using FBGs and fiber taper hybrid structure. , 2011, , .		0
49	Smart material using fiber Bragg grating transducers and shape memory alloy actuators. , 2012, , .		0
50	Temperature level optical fiber sensor using shape memory alloy wires. Proceedings of SPIE, 2012, , .	0.8	0
51	Temperature and pressure transducer based on FBG for large diameter water pipes. Proceedings of SPIE, 2014, , .	0.8	0
52	Fiber Bragg grating regeneration temperature in standard fibers. , 2015, , .		0