

# Pedro Jorge

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

127  
papers

2,241  
citations

27  
h-index

43  
g-index

203  
ext. papers

2,765  
ext. citations

3.6  
avg, IF

4.97  
L-index

#	Paper	IF	Citations
127	A Plasmonic Biosensor Based on Light-Diffusing Fibers Functionalized with Molecularly Imprinted Nanoparticles for Ultralow Sensing of Proteins.. <i>Nanomaterials</i> , <b>2022</b> , 12,	5.4	4
126	Optical Biosensor for the Detection of Hydrogen Peroxide in Milk <b>2021</b> , 5,		1
125	Hydroponics Monitoring through UV-Vis Spectroscopy and Artificial Intelligence: Quantification of Nitrogen, Phosphorous and Potassium. <i>Chemistry Proceedings</i> , <b>2021</b> , 5, 88		3
124	Classification of optically trapped particles: A comparison between optical fiber tweezers and conventional setups. <i>Results in Optics</i> , <b>2021</b> , 100178	1	1
123	X-ray Fluorescence and Laser-Induced Breakdown Spectroscopy Analysis of Li-Rich Minerals in Veins from Argemela Tin Mine, Central Portugal. <i>Minerals (Basel, Switzerland)</i> , <b>2021</b> , 11, 1169	2.4	2
122	Biosensors for Biogenic Amines: A Review. <i>Biosensors</i> , <b>2021</b> , 11,	5.9	7
121	Turn Around Point Long Period Fiber Gratings With Coupling to Asymmetric Cladding Modes Fabricated by a Femtosecond Laser and Coated With Titanium Dioxide. <i>Journal of Lightwave Technology</i> , <b>2021</b> , 39, 4784-4793	4	3
120	Development of a Long Period Fiber Grating Interrogation System Using A Multimode Laser Diode. <i>Sensors</i> , <b>2021</b> , 21,	3.8	1
119	Spectral Reconstruction and Bayesian Model Framework for Characterization of Long Period Fiber Gratings. <i>IEEE Instrumentation and Measurement Magazine</i> , <b>2021</b> , 24, 56-62	1.4	1
118	Particle Classification through the Analysis of the Forward Scattered Signal in Optical Tweezers. <i>Sensors</i> , <b>2021</b> , 21,	3.8	1
117	iLoF: An intelligent Lab on Fiber Approach for Human Cancer Single-Cell Type Identification. <i>Scientific Reports</i> , <b>2020</b> , 10, 3171	4.9	3
116	Femtosecond laser direct written off-axis fiber Bragg gratings for sensing applications. <i>Optics and Laser Technology</i> , <b>2020</b> , 128, 106227	4.2	4
115	Temperature Stability and Spectral Tuning of Long Period Fiber Gratings Fabricated by Femtosecond Laser Direct Writing. <i>Sensors</i> , <b>2020</b> , 20,	3.8	2
114	Micro-force measurement with pre-curvature long-period fiber grating-based sensor. <i>EPJ Web of Conferences</i> , <b>2020</b> , 238, 12009	0.3	
113	Low-Cost Interrogation System for Long-Period Fiber Gratings Applied to Remote Sensing. <i>Sensors</i> , <b>2019</b> , 19,	3.8	11
112	Optical fiber-based sensing method for nanoparticle detection through supervised back-scattering analysis: a potential contributor for biomedicine. <i>International Journal of Nanomedicine</i> , <b>2019</b> , 14, 2349-2369	7.3	3
111	Alkali-silica reaction in concrete: Mechanisms, mitigation and test methods. <i>Construction and Building Materials</i> , <b>2019</b> , 222, 903-931	6.7	61

110	Spectral Tuning of Long Period Fiber Gratings Fabricated by Femtosecond Laser Micromachining through Thermal Annealing. <i>Proceedings (mdpi)</i> , <b>2019</b> , 15, 4	0.3	0
109	Optical Fiber Anemometer Based on a Multi-FBG Curvature Sensor. <i>IEEE Sensors Journal</i> , <b>2019</b> , 19, 8727-8732	4.7	6
108	Fabrication of periodic structures in optical fibers by femtosecond laser micromachining for sensing applications <b>2019</b> ,		1
107	Metbots: Metabolomics Robots for Precision Viticulture. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 156-166	6.9	2
106	Optical Sensing of Nitrogen, Phosphorus and Potassium: A Spectrophotometrical Approach Toward Smart Nutrient Deployment. <i>Chemosensors</i> , <b>2019</b> , 7, 51	4	12
105	Dissolved Carbon Dioxide Sensing Platform for Freshwater and Saline Water Applications: Characterization and Validation in Aquaculture Environments. <i>Sensors</i> , <b>2019</b> , 19,	3.8	3
104	The last frontier: Coupling technological developments with scientific challenges to improve hazard assessment of deep-sea mining. <i>Science of the Total Environment</i> , <b>2018</b> , 627, 1505-1514	10.2	11
103	Alternative SNP detection platforms, HRM and biosensors, for varietal identification in <i>Vitis vinifera</i> L. using F3H and LDOX genes. <i>Scientific Reports</i> , <b>2018</b> , 8, 5850	4.9	8
102	Optical fiber tips for biological applications: From light confinement, biosensing to bioparticles manipulation. <i>Biochimica Et Biophysica Acta - General Subjects</i> , <b>2018</b> , 1862, 1209-1246	4	25
101	Real-Time Early Warning Strategies for Corrosion Mitigation in Harsh Environments. <i>Journal of Lightwave Technology</i> , <b>2018</b> , 36, 1152-1158	4	3
100	Single Particle Differentiation through 2D Optical Fiber Trapping and Back-Scattered Signal Statistical Analysis: An Exploratory Approach. <i>Sensors</i> , <b>2018</b> , 18,	3.8	9
99	Fabrication of Multimode-Single Mode Polymer Fiber Tweezers for Single Cell Trapping and Identification with Improved Performance. <i>Sensors</i> , <b>2018</b> , 18,	3.8	7
98	Plasmonic Optical Fiber Sensor Based on Double Step Growth of Gold Nano-Islands. <i>Sensors</i> , <b>2018</b> , 18,	3.8	6
97	Vibration and Magnetic Field Sensing Using a Long-Period Grating. <i>IEEE Sensors Journal</i> , <b>2017</b> , 17, 6615-6621	6.2	7
96	Fabrication of Fresnel plates on optical fibres by FIB milling for optical trapping, manipulation and detection of single cells. <i>Scientific Reports</i> , <b>2017</b> , 7, 4485	4.9	37
95	Towards a Uniform Metrological Assessment of Grating-Based Optical Fiber Sensors: From Refractometers to Biosensors. <i>Biosensors</i> , <b>2017</b> , 7,	5.9	171
94	2D Computational Modeling of Optical Trapping Effects on Malaria-infected Red Blood Cells <b>2017</b> ,		2
93	Novel optical current sensor for metering and protection in high power applications. <i>Instrumentation Science and Technology</i> , <b>2016</b> , 44, 148-162	1.4	7

92	Biosensor for label-free DNA quantification based on functionalized LPGs. <i>Biosensors and Bioelectronics</i> , <b>2016</b> , 84, 30-6	11.8	27
91	Aptamer-based fiber sensor for thrombin detection. <i>Journal of Biomedical Optics</i> , <b>2016</b> , 21, 87005	3.5	22
90	Hydrogen Optical Metamaterial Sensor Based on Pd Dendritic Nanostructures. <i>ChemistrySelect</i> , <b>2016</b> , 1, 3854-3860	1.8	0
89	Curvature and Vibration Sensing Based on Core Diameter Mismatch Structures. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2016</b> , 65, 2120-2128	5.2	13
88	MarinEye DA tool for marine monitoring <b>2016</b> ,		1
87	Hydrogen sensing via anomalous optical absorption of palladium-based metamaterials. <i>Nanotechnology</i> , <b>2016</b> , 27, 185501	3.4	6
86	Compact solutions for optical fiber tweezers using Fresnel zone and phase lenses fabricated using FIB milling <b>2016</b> ,		2
85	Hybrid Microfluidic Platform for Multifactorial Analysis Based on Electrical Impedance, Refractometry, Optical Absorption and Fluorescence. <i>Micromachines</i> , <b>2016</b> , 7,	3.3	3
84	Label-free optical biosensor for direct complex DNA detection using <i>Vitis vinifera</i> L.. <i>Sensors and Actuators B: Chemical</i> , <b>2016</b> , 234, 92-97	8.5	7
83	Optical fibers as beam shapers: from Gaussian beams to optical vortices. <i>Optics Letters</i> , <b>2016</b> , 41, 2137-40		23
82	The efficiency of fiber optical tweezers for cell manipulation using distinct fabrication methods <b>2015</b> ,		5
81	. <i>Journal of Lightwave Technology</i> , <b>2015</b> , 33, 3394-3405	4	42
80	Fiber optic displacement sensor based on a double-reflecting OTDR technique. <i>Microwave and Optical Technology Letters</i> , <b>2015</b> , 57, 1312-1315	1.2	4
79	Passive interferometric interrogation of a magnetic field sensor using an erbium doped fiber optic laser with magnetostrictive transducer. <i>Sensors and Actuators A: Physical</i> , <b>2015</b> , 235, 227-233	3.9	7
78	Fiber-Optic Cavity Ring Down Using an Added-Signal for Curvature Sensing. <i>IEEE Photonics Technology Letters</i> , <b>2015</b> , 27, 2079-2082	2.2	7
77	Calibration of the Numerical Model of a Short-span Masonry Railway Bridge Based on Experimental Modal Parameters. <i>Procedia Engineering</i> , <b>2015</b> , 114, 846-853		12
76	Modal Filtering for Optimized Surface Plasmon Resonance Sensing in Multimode Plastic Optical Fibers. <i>IEEE Sensors Journal</i> , <b>2015</b> , 15, 6306-6312	4	13
75	Wine fingerprinting using a bio-geochemical approach. <i>BIO Web of Conferences</i> , <b>2015</b> , 5, 02021	0.4	8

74	Bent optical fiber taper for refractive index measurements with tunable sensitivity. <i>Microwave and Optical Technology Letters</i> , <b>2015</b> , 57, 921-924	1.2	7
73	Optical Fiber Tweezers Fabricated by Guided Wave Photo-Polymerization. <i>Photonics</i> , <b>2015</b> , 2, 634-645	2.2	13
72	On the anodic aluminium oxide refractive index of nanoporous templates. <i>Journal Physics D: Applied Physics</i> , <b>2015</b> , 48, 455105	3	12
71	Intensity-Modulated Optical Fiber Sensor for AC Magnetic Field Detection. <i>IEEE Photonics Technology Letters</i> , <b>2015</b> , 27, 2461-2464	2.2	3
70	Fiber Loop Mirror Sensors Interrogated and Multiplexed by OTDR. <i>Journal of Lightwave Technology</i> , <b>2015</b> , 33, 2580-2584	4	4
69	Evanescent wave DNA-aptamer biosensor based on long period gratings for the specific recognition of E. coli outer membrane proteins. <i>Biosensors and Bioelectronics</i> , <b>2014</b> , 62, 227-33	11.8	38
68	Long period grating-based fiber coupler to whispering gallery mode resonators. <i>Optics Letters</i> , <b>2014</b> , 39, 6525-8	3	27
67	TEC4SEA A modular platform for research, test and validation of technologies supporting a sustainable blue economy <b>2014</b> ,		7
66	Interrogation and multiplexing system for fiber loop mirror coupled intensity sensors using OTDR. <i>Microwave and Optical Technology Letters</i> , <b>2014</b> , 56, 2860-2864	1.2	2
65	Analysis of a fibre optic sensor design based on SPR in nanowire metamaterial films <b>2014</b> ,		2
64	SPR sensors in POF: a new experimental configuration for extended refractive index range and better SNR <b>2014</b> ,		1
63	DNA-Aptamer optical biosensors based on a LPG-SPR optical fiber platform for point-of-care diagnostic <b>2014</b> ,		1
62	Characterisation of a Nafion film by optical fibre FabryPerot interferometry for humidity sensing. <i>Sensors and Actuators B: Chemical</i> , <b>2014</b> , 196, 99-105	8.5	60
61	Fabrication of a spun elliptically birefringent photonic crystal fiber and its characterization as an electrical current sensor <b>2013</b> ,		3
60	Effective medium theory of subwavelength arrays of metallic nanowires: a numerical approach based on modal propagation method <b>2013</b> ,		1
59	Exciting the optical response of nanowire metamaterial films on the tip of optical fibres. <i>Physica Status Solidi - Rapid Research Letters</i> , <b>2013</b> , 7, 664-667	2.5	5
58	Computational models for new fiber optic tweezers. <i>Photonic Sensors</i> , <b>2013</b> , 3, 57-60	2.3	3
57	Experimental and theoretical analysis of an optical current sensor for high power systems. <i>Photonic Sensors</i> , <b>2013</b> , 3, 26-34	2.3	25

56	Simultaneous measurement of refractive index and temperature using multimode interference inside a high birefringence fiber loop mirror. <i>Sensors and Actuators B: Chemical</i> , <b>2013</b> , 177, 717-723	8.5	31
55	High resolution temperature independent refractive index measurement using differential white light interferometry. <i>Sensors and Actuators B: Chemical</i> , <b>2013</b> , 188, 1212-1217	8.5	38
54	High sensitivity LPG Mach-Zehnder sensor for real-time fuel conformity analysis. <i>Measurement Science and Technology</i> , <b>2013</b> , 24, 015102	2	13
53	Chemical sensing by differential thermal analysis with a digitally controlled fiber optic interferometer. <i>Review of Scientific Instruments</i> , <b>2013</b> , 84, 015002	1.7	2
52	Characterization of a novel dissolved CO <sub>2</sub> sensor for utilization in environmental monitoring and aquaculture industry <b>2013</b> ,		4
51	Fabry-Pérot cavities based on chemical etching for high temperature and strain measurement. <i>Optics Communications</i> , <b>2012</b> , 285, 1159-1162	2	28
50	Optical Current Sensors for High Power Systems: A Review. <i>Applied Sciences (Switzerland)</i> , <b>2012</b> , 2, 602-628		95
49	Digital Control of a White Light Interrogation System for Optical Fiber Interferometers. <i>IEEE Sensors Journal</i> , <b>2012</b> , 12, 201-206	4	1
48	Fabry-Pérot Cavity Based on a High-Birefringent Fiber Bragg Grating for Refractive Index and Temperature Measurement. <i>IEEE Sensors Journal</i> , <b>2012</b> , 12, 17-21	4	28
47	Nonadiabatic tapered optical fiber for biosensor applications. <i>Photonic Sensors</i> , <b>2012</b> , 2, 340-356	2.3	43
46	Curvature and Temperature Discrimination Using Multimode Interference Fiber Optic Structures: A Proof of Concept. <i>Journal of Lightwave Technology</i> , <b>2012</b> , 30, 3569-3575	4	30
45	Intrinsic Fabry-Pérot Cavity Sensor Based on Etched Multimode Graded Index Fiber for Strain and Temperature Measurement. <i>IEEE Sensors Journal</i> , <b>2012</b> , 12, 8-12	4	50
44	Fiber optic-based refractive index sensing at INESC Porto. <i>Sensors</i> , <b>2012</b> , 12, 8371-89	3.8	17
43	Magnetic field sensor with Terfenol-D thin-film coated FBG <b>2012</b> ,		6
42	Intensity curvature sensor based on photonic crystal fiber with three coupled cores. <i>Optics Communications</i> , <b>2012</b> , 285, 5128-5131	2	18
41	Simultaneous measurement of partial pressure of O <sub>2</sub> and CO <sub>2</sub> with a hybrid interferometer. <i>Optics Letters</i> , <b>2012</b> , 37, 3063-5	3	15
40	Ultrahigh-sensitivity temperature fiber sensor based on multimode interference. <i>Applied Optics</i> , <b>2012</b> , 51, 3236-42	1.7	91
39	LPG based fiber optic sensor for carbon dioxide <b>2012</b> ,		1

38	Sensing characteristics of tapered high-birefringent optical fiber <b>2012</b> ,		2
37	Controlling the Sensitivity of Refractive Index Measurement Using a Tapered Fiber Loop Mirror. <i>IEEE Photonics Technology Letters</i> , <b>2011</b> , 23, 1219-1221	2.2	17
36	Fiber optic hot-wire flowmeter based on a metallic coated hybrid long period grating/fiber Bragg grating structure. <i>Applied Optics</i> , <b>2011</b> , 50, 2738-43	0.2	54
35	Cladding modes FBG curvature sensor based on a core misaligned splice <b>2011</b> ,		2
34	Interferometric optical fiber inclinometer with dynamic FBG based interrogation <b>2011</b> ,		3
33	Fiber optic intensity sensor referenced with a virtual delay line. <i>Optics Communications</i> , <b>2011</b> , 284, 5665-5668		3
32	Microcystin-LR detection in water by the Fabry-Pérot interferometer using an optical fibre coated with a sol-gel imprinted sensing membrane. <i>Biosensors and Bioelectronics</i> , <b>2011</b> , 26, 3932-7	11.8	31
31	Temperature-Independent Curvature Sensor Using FBG Cladding Modes Based on a Core Misaligned Splice. <i>IEEE Photonics Technology Letters</i> , <b>2011</b> , 23, 804-806	2.2	57
30	Rapid Fabrication of Dual Analyte Luminescent Optrodes by Self-Guiding Photo-Polymerization. <i>IEEE Photonics Technology Letters</i> , <b>2011</b> , 23, 492-494	2.2	3
29	Optimization of Ormosil Glasses for Luminescence Based Dissolved Oxygen Sensors. <i>Solid State Phenomena</i> , <b>2010</b> , 161, 1-11	0.4	2
28	Luminol-Doped Nanostructured Composite Materials for Chemiluminescent Sensing of Hydrogen Peroxide. <i>Analytical Letters</i> , <b>2010</b> , 43, 2762-2772	2.2	0
27	Intrinsic Fabry-Pérot cavity sensor based on chemical etching of a multimode graded index fiber spliced to a single mode fiber <b>2010</b> ,		1
26	Optical Fiber Sensing System Based on Long-Period Gratings for Remote Refractive Index Measurement in Aqueous Environments. <i>Fiber and Integrated Optics</i> , <b>2010</b> , 29, 160-169	0.8	11
25	Wavelength encoded analytical imaging and fiber optic sensing with pH sensitive CdTe quantum dots. <i>Talanta</i> , <b>2010</b> , 80, 1932-8	6.2	34
24	Optical cavity fibre sensor for detection of microcystin-LR in water <b>2010</b> ,		2
23	Dynamic interrogation of long period gratings with modulated fibre Bragg gratings <b>2010</b> ,		1
22	Interrogation of microresonators using multimode fibers <b>2010</b> ,		3
21	Fibre-optic SPR sensor with a FBG interrogation scheme for readout enhancement. <i>Sensors and Actuators B: Chemical</i> , <b>2010</b> , 144, 226-231	8.5	16

20	Hg(II) sensing based on functionalized carbon dots obtained by direct laser ablation. <i>Sensors and Actuators B: Chemical</i> , <b>2010</b> , 145, 702-707	8.5	210
19	Simultaneous Measurement of Refractive Index and Temperature Using a Hybrid Fiber Bragg Grating/Long-Period Fiber Grating Configuration. <i>Fiber and Integrated Optics</i> , <b>2009</b> , 28, 440-449	0.8	20
18	Geometrical effects on the refractive index sensitivity of Mach-Zehnder fibre modal interferometers based on long-period gratings. <i>Measurement Science and Technology</i> , <b>2009</b> , 20, 075201	2	9
17	Measurement of acetic acid using a fibre Bragg grating interferometer. <i>Measurement Science and Technology</i> , <b>2009</b> , 20, 125201	2	3
16	Optical fibre sensing networks <b>2009</b> ,		3
15	Effect of fiber tapering in LPG-based Mach-Zehnder modal interferometers for refractive-index sensing <b>2009</b> ,		3
14	Interferometric fibre-optic sensor for acetic acid measurement <b>2009</b> ,		1
13	Fiber modal Michelson interferometers with coherence addressing and heterodyne interrogation. <i>Optical Engineering</i> , <b>2008</b> , 47, 044401	1.1	12
12	Dual sensing of oxygen and temperature using quantum dots and a ruthenium complex. <i>Analytica Chimica Acta</i> , <b>2008</b> , 606, 223-9	6.6	34
11	High birefringence D-type fibre loop mirror used as refractometer. <i>Sensors and Actuators B: Chemical</i> , <b>2008</b> , 135, 108-111	8.5	36
10	Fiber optic lifetime pH sensing based on ruthenium(II) complexes with dicarboxybipyridine. <i>Analytica Chimica Acta</i> , <b>2008</b> , 626, 62-70	6.6	33
9	Optical Fiber Sensing Using Quantum Dots. <i>Sensors</i> , <b>2007</b> , 7, 3489-3534	3.8	95
8	Quantum dots as self-referenced optical fibre temperature probes for luminescent chemical sensors. <i>Measurement Science and Technology</i> , <b>2006</b> , 17, 1032-1038	2	42
7	Applications of quantum dots in optical fiber luminescent oxygen sensors. <i>Applied Optics</i> , <b>2006</b> , 45, 3760-7	1.7	29
6	Self-referenced intensity based optical fiber temperature probes for luminescent chemical sensors using quantum dots <b>2005</b> ,		2
5	Intensity based luminescent optical fiber oxygen sensor using quantum dots <b>2005</b> ,		2
4	Luminescence-Based Optical Fiber Chemical Sensors. <i>Fiber and Integrated Optics</i> , <b>2005</b> , 24, 201-225	0.8	19
3	Optical fiber probes for fluorescence based oxygen sensing. <i>Sensors and Actuators B: Chemical</i> , <b>2004</b> , 103, 290-299	8.5	77



- 2      Optical temperature measurement configuration for fluorescence-based oxygen sensors **2004**, 1
- 1      Analysis of the flyback effects on the serrodyne interferometric demodulation of fiber optic Bragg grating sensors. *Optical Engineering*, **2000**, 39, 1399 1.1    6