

Luis Coelho

List of Publications by Year in descending order

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129
papers

3,247
citations

201575

27
h-index

149623

56
g-index

133
all docs

133
docs citations

133
times ranked

3951
citing authors

#	ARTICLE	IF	CITATIONS
1	First Results from the XENON10 Dark Matter Experiment at the Gran Sasso National Laboratory. <i>Physical Review Letters</i> , 2008, 100, 021303.	2.9	540
2	Search for Light Dark Matter in XENON10 Data. <i>Physical Review Letters</i> , 2011, 107, 051301.	2.9	386
3	Limits on Spin-Dependent WIMP-Nucleon Cross Sections from the XENON10 Experiment. <i>Physical Review Letters</i> , 2008, 101, 091301.	2.9	164
4	Alkali-silica reaction in concrete: Mechanisms, mitigation and test methods. <i>Construction and Building Materials</i> , 2019, 222, 903-931.	3.2	121
5	A Review of Palladium-Based Fiber-Optic Sensors for Molecular Hydrogen Detection. <i>IEEE Sensors Journal</i> , 2012, 12, 93-102.	2.4	114
6	Design and performance of the XENON10 dark matter experiment. <i>Astroparticle Physics</i> , 2011, 34, 679-698.	1.9	95
7	Constraints on inelastic dark matter from XENON10. <i>Physical Review D</i> , 2009, 80, .	1.6	93
8	Enhanced refractive index sensing characteristics of optical fibre long period grating coated with titanium dioxide thin films. <i>Sensors and Actuators B: Chemical</i> , 2014, 202, 929-934.	4.0	91
9	Fabry-Pérot cavity based on a diaphragm-free hollow-core silica tube. <i>Optics Letters</i> , 2011, 36, 4029.	1.7	90
10	Characterization of zinc oxide coated optical fiber long period gratings with improved refractive index sensing properties. <i>Sensors and Actuators B: Chemical</i> , 2016, 223, 45-51.	4.0	81
11	Intrinsic Fabry-Pérot Cavity Sensor Based on Etched Multimode Graded Index Fiber for Strain and Temperature Measurement. <i>IEEE Sensors Journal</i> , 2012, 12, 8-12.	2.4	63
12	The scintillation and ionization yield of liquid xenon for nuclear recoils. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2009, 601, 339-346.	0.7	60
13	Refractive index sensing of aqueous media based on plasmonic resonance in tapered optical fibres operating in the 1.5-1.7 μm region. <i>Sensors and Actuators B: Chemical</i> , 2010, 146, 195-198.	4.0	60
14	H ₂ Sensing Based on a Pd-Coated Tapered-FBG Fabricated by DUV Femtosecond Laser Technique. <i>IEEE Photonics Technology Letters</i> , 2013, 25, 401-403.	1.3	60
15	Refractometric sensor based on a phase-shifted long-period fiber grating. <i>Applied Optics</i> , 2006, 45, 5066.	2.1	57
16	Sensing Structure Based on Surface Plasmon Resonance in Chemically Etched Single Mode Optical Fibres. <i>Plasmonics</i> , 2015, 10, 319-327.	1.8	56
17	Secondary scintillation yield in pure xenon. <i>Journal of Instrumentation</i> , 2007, 2, P05001-P05001.	0.5	53
18	Effect of ionizing radiation on the properties of arc-induced long-period fiber gratings. <i>Applied Optics</i> , 2005, 44, 6258.	2.1	50

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19	Detection of biogenic amines in several foods with different sample treatments: An overview. Trends in Food Science and Technology, 2021, 113, 86-96.	7.8	48
20	Analysis of Phase Interrogated SPR Fiber Optic Sensors With Bimetallic Layers. IEEE Sensors Journal, 2014, 14, 3662-3668.	2.4	38
21	Study of adulteration of extra virgin olive oil with peanut oil using FTIR spectroscopy and chemometrics. Cogent Food and Agriculture, 2015, 1, 1018695.	0.6	37
22	Fiber optic hydrogen sensor based on an etched Bragg grating coated with palladium. Applied Optics, 2015, 54, 10342.	2.1	36
23	Aptamer-based fiber sensor for thrombin detection. Journal of Biomedical Optics, 2016, 21, 087005.	1.4	35
24	Biosensors for Biogenic Amines: A Review. Biosensors, 2021, 11, 82.	2.3	32
25	Fiber Optic-Based Refractive Index Sensing at INESC Porto. Sensors, 2012, 12, 8371-8389.	2.1	29
26	Multiplexing of Surface Plasmon Resonance Sensing Devices on Etched Single-Mode Fiber. Journal of Lightwave Technology, 2015, 33, 432-438.	2.7	29
27	Measurement of the photoelectron-collection efficiency in noble gases and methane. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 581, 190-193.	0.7	27
28	Mach-Zehnder Interferometers Based on Long Period Fiber Grating Coated With Titanium Dioxide for Refractive Index Sensing. Journal of Lightwave Technology, 2019, 37, 4584-4589.	2.7	24
29	Fabrication and Characterization of Metal Oxide-Coated Long-Period Fiber Gratings. Journal of Lightwave Technology, 2016, 34, 2533-2539.	2.7	23
30	Advances in Plasmonic Sensing at the NIR: A Review. Sensors, 2021, 21, 2111.	2.1	23
31	Temperature Compensated Strain Sensor Based on Long-Period Gratings and Microspheres. IEEE Photonics Technology Letters, 2018, 30, 67-70.	1.3	22
32	Demodulation of fiber Bragg grating sensors based on dynamic tuning of a multimode laser diode. Applied Optics, 1999, 38, 4751.	2.1	21
33	A Monte Carlo study of photoelectron extraction efficiency from CsI photocathodes into Xe ⁴⁺ and Ne ⁴⁺ mixtures. Journal Physics D: Applied Physics, 2010, 43, 065502.	1.3	20
34	Detection of Extra Virgin Olive Oil Thermal Deterioration Using a Long Period Fibre Grating Sensor Coated with Titanium Dioxide. Food and Bioprocess Technology, 2015, 8, 1211-1217.	2.6	19
35	Modal Filtering for Optimized Surface Plasmon Resonance Sensing in Multimode Plastic Optical Fibers. IEEE Sensors Journal, 2015, 15, 6306-6312.	2.4	19
36	Low-Cost Interrogation System for Long-Period Fiber Gratings Applied to Remote Sensing. Sensors, 2019, 19, 1500.	2.1	19

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37	Simultaneous measurement of partial pressure of O ₂ and CO ₂ with a hybrid interferometer. Optics Letters, 2012, 37, 3063.	1.7	18
38	Measurements of photoelectron extraction efficiency from CsI into mixtures of Ne with CH ₄ , CF ₄ , CO ₂ and N ₂ . Journal of Instrumentation, 2009, 4, P11025-P11025.	0.5	17
39	Long-Period Grating Fiber Sensor With In Situ Optical Source for Remote Sensing. IEEE Photonics Technology Letters, 2010, 22, 1533-1535.	1.3	16
40	An all-fiber Fabry-Pérot interferometer for pressure sensing in different gaseous environments. Measurement: Journal of the International Measurement Confederation, 2014, 47, 418-421.	2.5	16
41	Optical sensor based on hybrid FBG/titanium dioxide coated LPFG for monitoring organic solvents in edible oils. Talanta, 2016, 148, 170-176.	2.9	16
42	Optical Inclinator Based on a Phase-Shifted Bragg Grating in a Taper Configuration. IEEE Photonics Technology Letters, 2014, 26, 405-407.	1.3	15
43	Quantification of Ethanol Concentration in Gasoline Using Cuprous Oxide Coated Long Period Fiber Gratings. IEEE Sensors Journal, 2018, 18, 1493-1500.	2.4	15
44	Xenon GPSC high-pressure operation with large-area avalanche photodiode readout. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 575, 444-448.	0.7	14
45	Post-Processing of Fabry-Pérot Microcavity Tip Sensor. IEEE Photonics Technology Letters, 2013, 25, 1593-1596.	1.3	14
46	Optical fiber sensors based on sol-gel materials: design, fabrication and application in concrete structures. Materials Advances, 2021, 2, 7237-7276.	2.6	14
47	GEM scintillation readout with avalanche photodiodes. Journal of Instrumentation, 2007, 2, P09010-P09010.	0.5	13
48	ECOAL Project "Delivering Solutions for Integrated Monitoring of Coal-Related Fires Supported on Optical Fiber Sensing Technology. Applied Sciences (Switzerland), 2017, 7, 956.	1.3	13
49	Operation of a single-GEM in noble gases at high pressures. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 579, 62-66.	0.7	12
50	A Plasmonic Biosensor Based on Light-Diffusing Fibers Functionalized with Molecularly Imprinted Nanoparticles for Ultralow Sensing of Proteins. Nanomaterials, 2022, 12, 1400.	1.9	12
51	Theoretical Study of Phase-Interrogated Surface Plasmon Resonance Based on Optical Fiber Sensors with Metallic and Oxide Layers. Plasmonics, 2015, 10, 979-987.	1.8	11
52	Gas refractometry based on an all-fiber spatial optical filter. Optics Letters, 2012, 37, 3450.	1.7	10
53	Long-Period Gratings Dynamic Interrogation With Modulated Fiber Bragg Gratings and Optical Amplification. IEEE Sensors Journal, 2012, 12, 179-183.	2.4	10
54	Wine fingerprinting using a bio-geochemical approach. BIO Web of Conferences, 2015, 5, 02021.	0.1	9

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55	Analysis of a plasmonic based optical fiber optrode with phase interrogation. <i>Photonic Sensors</i> , 2016, 6, 221-233.	2.5	9
56	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> , 2021, 39, 4784-4793.	2.7	9
57	Plasmonic Optical Fiber Sensor Based on Double Step Growth of Gold Nano-Islands. <i>Sensors</i> , 2018, 18, 1267.	2.1	8
58	3D Position Sensitive XeTPC for Dark Matter Search. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 2007, 173, 117-120.	0.5	7
59	Photoelectron transmission efficiency in Ar ⁺ CH ₄ and Xe ⁺ CH ₄ mixtures: Experimental results. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2009, 607, 587-590.	0.7	7
60	Investigation of adulteration of sunflower oil with thermally deteriorated oil using Fourier transform mid-infrared spectroscopy and chemometrics. <i>Cogent Food and Agriculture</i> , 2015, 1, 1020254.	0.6	7
61	Dissolved Carbon Dioxide Sensing Platform for Freshwater and Saline Water Applications: Characterization and Validation in Aquaculture Environments. <i>Sensors</i> , 2019, 19, 5513.	2.1	7
62	High-pressure operation of a xenon-GPSC/MSGC hybrid detector for hard X-ray spectrometry. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2006, 569, 796-802.	0.7	6
63	Monitoring of oxidation phases of copper thin films using long period fiber gratings. <i>Sensors and Actuators A: Physical</i> , 2017, 253, 69-74.	2.0	6
64	Temperature Stability and Spectral Tuning of Long Period Fiber Gratings Fabricated by Femtosecond Laser Direct Writing. <i>Sensors</i> , 2020, 20, 3898.	2.1	6
65	Particle Classification through the Analysis of the Forward Scattered Signal in Optical Tweezers. <i>Sensors</i> , 2021, 21, 6181.	2.1	6
66	Differential Refractometric Biosensor for Reliable Human IgG Detection: Proof of Concept. <i>Biosensors</i> , 2022, 12, 515.	2.3	6
67	Dynamic interrogation for optical fibre sensors based on long-period gratings. <i>Measurement Science and Technology</i> , 2011, 22, 065201.	1.4	5
68	Multimode interference in outer cladding large-core, air-clad photonic crystal fiber. <i>Microwave and Optical Technology Letters</i> , 2012, 54, 1009-1011.	0.9	5
69	Hydroponics Monitoring through UV-Vis Spectroscopy and Artificial Intelligence: Quantification of Nitrogen, Phosphorous and Potassium. <i>Chemistry Proceedings</i> , 2021, 5, .	0.1	5
70	Optical refractometer based on multimode interference in a pure silica tube. <i>Optical Engineering</i> , 2011, 50, 100504.	0.5	4
71	Real-Time Early Warning Strategies for Corrosion Mitigation in Harsh Environments. <i>Journal of Lightwave Technology</i> , 2018, 36, 1152-1158.	2.7	4
72	Preliminary Study for Detection of Hydrogen Peroxide Using a Hydroxyethyl Cellulose Membrane. <i>Proceedings (mdpi)</i> , 2019, 15, .	0.2	4

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73	Analysis of the Relative Humidity Response of Hydrophilic Polymers for Optical Fiber Sensing. <i>Polymers</i> , 2022, 14, 439.	2.0	4
74	Zinc oxide coated optical fiber long period gratings for sensing of volatile organic compounds. <i>Proceedings of SPIE</i> , 2016, , .	0.8	3
75	Phase-interrogated SPR sensing structures based on tapered and tip optrode optical fiber configurations with bimetallic layers. <i>Measurement Science and Technology</i> , 2017, 28, 095203.	1.4	3
76	Development of a Long Period Fiber Grating Interrogation System Using a Multimode Laser Diode. <i>Sensors</i> , 2021, 21, 749.	2.1	3
77	Effect of Low-Doses of Gamma Radiation on Electric Arc-Induced Long Period Fiber Gratings. <i>Sensors</i> , 2021, 21, 2318.	2.1	3
78	Single Fiber Reflectance Spectroscopy for the Monitoring of Cement Paste. <i>Chemosensors</i> , 2021, 9, 312.	1.8	3
79	Simple Optical Fiber Interferometer for Dynamic Measurement of Refractive Index and Thickness of Polymer Films. <i>IEEE Sensors Journal</i> , 2022, 22, 11732-11739.	2.4	3
80	XENON. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 2007, 173, 113-116.	0.5	2
81	Interrogation Sensing Scheme Based on a Figure-of-Eight Fiber Loop Mirror. <i>IEEE Photonics Technology Letters</i> , 2013, 25, 745-748.	1.3	2
82	Sensing structure based on surface plasmonic resonance in single mode optical fibers chemically etched. , 2013, , .		2
83	Analysis of phase interrogation in SPR-based sensing supported by tapered optical fibres. <i>Proceedings of SPIE</i> , 2013, , .	0.8	2
84	New developments on fibre optic colorimetric sensors for dissolved CO ₂ in aquatic environments. , 2017, , .		2
85	Optical fiber sensor for early warning of corrosion of metal structures. , 2017, , .		2
86	Optical Biosensor for the Detection of Hydrogen Peroxide in Milk. , 2021, 5, .		2
87	Dynamic interrogation of long period gratings with modulated fibre Bragg gratings. , 2010, , .		1
88	SPR sensing with bimetallic layers in optical fibers and phase interrogation. , 2013, , .		1
89	SPR sensors in POF: a new experimental configuration for extended refractive index range and better SNR. , 2014, , .		1
90	DNA-Aptamer optical biosensors based on a LPG-SPR optical fiber platform for point-of-care diagnostic. <i>Proceedings of SPIE</i> , 2014, , .	0.8	1

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91	Study of corrosion using long period fiber gratings coated with iron exposed to salty water. , 2017, , .		1
92	LPFG based fiber optic sensor for magnetic field measurement. Proceedings of SPIE, 2017, , .	0.8	1
93	Low temperature oxidation in air of iron thin films monitored with long period fiber gratings. Proceedings of SPIE, 2017, , .	0.8	1
94	Spectral Tuning of Long Period Fiber Gratings Fabricated by Femtosecond Laser Micromachining through Thermal Annealing. Proceedings (mdpi), 2019, 15, .	0.2	1
95	Spectral Reconstruction and Bayesian Model Framework for Characterization of Long Period Fiber Gratings. IEEE Instrumentation and Measurement Magazine, 2021, 24, 56-62.	1.2	1
96	Development of a New System for Real-Time Detection of Radon Using Scintillating Optical Fibers. , 2018, , .		1
97	Femtosecond laser-written long period fibre gratings coated with titanium dioxide for improved sensitivity. , 2020, , .		1
98	Characterization and Comparison of the Relative Humidity Response of Hydromorphic Polymers in Long-Period Fiber Grating Structures. Chemistry Proceedings, 2021, 5, 42.	0.1	1
99	Long-Period Fiber Gratings Coated with Poly(ethylene glycol) as Relative Humidity Sensors. U Porto Journal of Engineering, 2022, 8, 2-6.	0.2	1
100	Fibre optic remote sensing based on long period gratings with in situ optical source. Proceedings of SPIE, 2010, , .	0.8	0
101	Optical fibre pressure sensors for small scale studies of groundwater flow. , 2011, , .		0
102	Optical fibre hydrogen sensors based on palladium coatings. Proceedings of SPIE, 2011, , .	0.8	0
103	Simultaneous measurement of partial pressure of O₂ and CO₂ using hybrid interferometer. , 2012, , .		0
104	Hydrogen pressure sensor based on a tapered-FBG written by DUV femtosecond laser technique. , 2012, , .		0
105	Interferometer based on a D-shape chaotic optical fiber for measurement of multiparameters. Photonic Sensors, 2012, 2, 381-384.	2.5	0
106	Pressure sensor based on an all-fiber Fabry-Pérot interferometer for different gaseous environments. , 2013, , .		0
107	Optical Sensing Based in Plasmonics and the Metamaterials Enhancement Factor. , 2014, , .		0
108	Analysis of phase interrogation of SPR fiber optic sensors with characteristics tailored by the application of different metal-dielectric overlays. , 2014, , .		0

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109	Analysis of phase interrogated SPR fiber optic sensors with different bimetallic combinations. Proceedings of SPIE, 2014, , .	0.8	0
110	Real time monitoring oxidation of transition metals with long period fiber gratings. , 2015, , .		0
111	Phase interrogated plasmonic optical fiber optrode with bimetallic layers. , 2015, , .		0
112	Monitoring of high refractive index edible oils using coated long period fiber grating sensors. , 2015, , .		0
113	Improved long period fibre gratings sensing devices coated with thin films. , 2017, , .		0
114	Photoelectron extraction efficiency into Ar-CF4 and Xe-CF4 gas mixtures. Journal of Instrumentation, 2018, 13, P09001-P09001.	0.5	0
115	Colorimetric Fiber Optic Based Probe for Real-Time Monitoring of Dissolved CO2 in Aquaculture Systems. Proceedings (mdpi), 2019, 15, .	0.2	0
116	A Simple Spectral Interrogation System for Optical Fiber Sensors. Proceedings (mdpi), 2019, 15, .	0.2	0
117	New spatial optical filters for gas refractometry. , 2012, , .		0
118	Low-Cost Interrogation System for Long Period Fiber Gratings as Sensing Devices. , 2018, , .		0
119	Optical Fiber Sensor Mach-Zehnder Interferometer Based on TiO2 Coated Long Period Fiber Grating. , 2018, , .		0
120	Plasmonic Optical Fiber Sensor Based on Double Step Growth of Gold Nano-Islands. , 2018, , .		0
121	Optimization of interrogation methods for sensors based on optical microbubble resonators. , 2019, , .		0
122	Preliminary assessment on the detection of putrescine using long period fiber gratings coated with titanium dioxide and poly(ethylene-co-vinyl acetate). , 2020, , .		0
123	Femtosecond Laser Direct Writing of Turn Around Point Long Period Fiber Gratings Coated with Titanium Dioxide for Improved Sensitivity. , 2021, , .		0
124	Characterization of Femtosecond Laser Direct Written Mach-Zehnder Interferometers Based on Titanium Dioxide Coated Long Period Fiber Gratings. , 2021, , .		0
125	Femtosecond laser micromachining of Fabry-Perot interferometers in SMF-28 fiber for pressure sensing (Conference Presentation). , 2020, , .		0
126	Colorimetry-based System for Gaseous Carbon Dioxide Detection. U Porto Journal of Engineering, 2020, 6, 59-69.	0.2	0

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127	Label-Free Anti-Human IgG Biosensor Based on Chemical Modification of a Long Period Fiber Grating Surface. , 2021, 5, .		0
128	MMI Sensor for Diameter Measurement. , 2021, 10, .		0
129	Study of LSPR Spectral Analysis Techniques on SPR Optical Fiber Sensors. U Porto Journal of Engineering, 2022, 8, 12-17.	0.2	0