# Jesus Corres

List of Publications by Year
in descending order

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|---|---|---|---|
| 106 papers | 2,783 citations | 172457 29 h-index | 189892 50 g-index |
| 107 all docs | 107 docs citations | 107 times ranked | 2213 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Optical sensors based on lossy-mode resonances. Sensors and Actuators B: Chemical, 2017, 240, 174-185. | 7.8 | 182 |
| 2 | Fluorescent Sensors for the Detection of Heavy Metal Ions in Aqueous Media. Sensors, 2019, 19, 599. | 3.8 | 180 |
| 3 | Recent Developments in Fiber Optics Humidity Sensors. Sensors, 2017, 17, 893. | 3.8 | 178 |
| 4 | Sensitivity optimization of tapered optical fiber humidity sensors by means of tuning the thickness of nanostructured sensitive coatings. Sensors and Actuators B: Chemical, 2007, 122, 442-449. | 7.8 | 120 |
| 5 | Design of Humidity Sensors Based on Tapered Optical Fibers. Journal of Lightwave Technology, 2006, 24, 4329-4336. | 4.6 | 118 |
| 6 | High sensitivity humidity sensor based on cladding-etched optical fiber and lossy mode resonances. Sensors and Actuators B: Chemical, 2016, 233, 7-16. | 7.8 | 94 |
| 7 | Vibration Detection Using Optical Fiber Sensors. Journal of Sensors, 2010, 2010, 1-12. | 1.1 | 93 |
| 8 | Fiber-optic pH-sensors in long-period fiber gratings using electrostatic self-assembly. Optics Letters, 2007, 32, 29. | 3.3 | 78 |
| 9 | Design of pH Sensors in Long-Period Fiber Gratings Using Polymeric Nanocoatings. IEEE Sensors Journal, 2007, 7, 455-463. | 4.7 | 75 |
| 10 | Optical Fiber Humidity Sensors Using Nanostructured Coatings of SiO$_{2}$ Nanoparticles. IEEE Sensors Journal, 2008, 8, 281-285. | 4.7 | 70 |
| 11 | Optical Fiber Humidity Sensors Using PVdF Electrospun Nanowebs. IEEE Sensors Journal, 2011, 11, 2383-2387. | 4.7 | 69 |
| 12 | Sensitivity optimization with cladding-etched long period fiber gratings at the dispersion turning point. Optics Express, 2016, 24, 17680. | 3.4 | 58 |
| 13 | Tapered optical fiber biosensor for the detection of anti-gliadin antibodies. Sensors and Actuators B: Chemical, 2008, 135, 166-171. | 7.8 | 54 |
| 14 | A fibre optic humidity sensor based on a long-period fibre grating coated with a thin film of SiO<sub>2</sub>nanospheres. Measurement Science and Technology, 2009, 20, 034002. | 2.6 | 54 |
| 15 | Fiber-optic biosensor based on lossy mode resonances. Sensors and Actuators B: Chemical, 2012, 174, 263-269. | 7.8 | 54 |
| 16 | Evanescent Field Fiber-Optic Sensors for Humidity Monitoring Based on Nanocoatings. IEEE Sensors Journal, 2007, 7, 89-95. | 4.7 | 53 |
| 17 | Nonadiabatic tapered single-mode fiber coated with humidity sensitive nanofilms. IEEE Photonics Technology Letters, 2006, 18, 935-937. | 2.5 | 49 |
| 18 | Spectral width reduction in lossy mode resonance-based sensors by means of tapered optical fibre structures. Sensors and Actuators B: Chemical, 2014, 200, 53-60. | 7.8 | 48 |

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|---|---|---|---|
| 19 | Micro and Nanostructured Materials for the Development of Optical Fibre Sensors. Sensors, 2017, 17, 2312. | 3.8 | 48 |
| 20 | Lossy mode resonance sensors based on lateral light incidence in nanocoated planar waveguides. Scientific Reports, 2019, 9, 8882. | 3.3 | 43 |
| 21 | Unbalance and harmonics detection in induction motors using an optical fiber sensor. IEEE Sensors Journal, 2006, 6, 605-612. | 4.7 | 41 |
| 22 | Two-Layer Nanocoatings in Long-Period Fiber Gratings for Improved Sensitivity of Humidity Sensors. IEEE Nanotechnology Magazine, 2008, 7, 394-400. | 2.0 | 40 |
| 23 | Optimized Strain Long-Period Fiber Grating (LPFG) Sensors Operating at the Dispersion Turning Point. Journal of Lightwave Technology, 2018, 36, 2240-2247. | 4.6 | 40 |
| 24 | Wavelength and Phase Detection Based SMS Fiber Sensors Optimized With Etching and Nanodeposition. Journal of Lightwave Technology, 2017, 35, 3743-3749. | 4.6 | 39 |
| 25 | Tapered Single-Mode Optical Fiber pH Sensor Based on Lossy Mode Resonances Generated by a Polymeric Thin-Film. IEEE Sensors Journal, 2012, 12, 2598-2603. | 4.7 | 36 |
| 26 | Sensitivity enhancement in a multimode interference-based SMS fibre structure coated with a thin-film: Theoretical and experimental study. Sensors and Actuators B: Chemical, 2014, 190, 363-369. | 7.8 | 36 |
| 27 | Label-free wavelength and phase detection based SMS fiber immunosensors optimized with cladding etching. Sensors and Actuators B: Chemical, 2018, 265, 10-19. | 7.8 | 36 |
| 28 | Mode transition in complex refractive index coated single-modeâ€“multimodeâ€“single-mode structure. Optics Express, 2013, 21, 12668. | 3.4 | 34 |
| 29 | Refractometric sensors based on multimode interference in a thin-film coated single-modeâ€“multimodeâ€“single-mode structure with reflection configuration. Applied Optics, 2014, 53, 3913. | 1.8 | 34 |
| 30 | An antibacterial submicron fiber mat with in situ synthesized silver nanoparticles. Journal of Applied Polymer Science, 2012, 126, 1228-1235. | 2.6 | 26 |
| 31 | Fiber-optic Lossy Mode Resonance Sensors. Procedia Engineering, 2014, 87, 3-8. | 1.2 | 26 |
| 32 | Optimization of Sensors Based on Multimode Interference in Single-Modeâ€“Multimodeâ€“Single-Mode Structure. Journal of Lightwave Technology, 2013, 31, 3460-3468. | 4.6 | 25 |
| 33 | Fiber-Optic Immunosensor Based on an Etched SMS Structure. IEEE Journal of Selected Topics in Quantum Electronics, 2017, 23, 314-321. | 2.9 | 25 |
| 34 | Nanofilms on hollow core fiber-based structures: an optical study. Journal of Lightwave Technology, 2006, 24, 2100-2107. | 4.6 | 24 |
| 35 | Generation of lossy mode resonances with different nanocoatings deposited on coverslips. Optics Express, 2020, 28, 288. | 3.4 | 24 |
| 36 | Optical Fiber Current Transducer Using Lossy Mode Resonances for High Voltage Networks. Journal of Lightwave Technology, 2015, 33, 2504-2510. | 4.6 | 23 |

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| 37 | Sensitivity Enhancement in Low Cutoff Wavelength Long-Period Fiber Gratings by Cladding Diameter Reduction. Sensors, 2017, 17, 2094. | 3.8 | 23 |
| 38 | Tunable electro-optic wavelength filter based on lossy-guided mode resonances. Optics Express, 2013, 21, 31668. | 3.4 | 22 |
| 39 | Temperature Compensated Strain Sensor Based on Long-Period Gratings and Microspheres. IEEE Photonics Technology Letters, 2018, 30, 67-70. | 2.5 | 22 |
| 40 | Dual-Cavity Fiber Fabry-Perot Interferometer Coated With SnO<sub>2</sub> for Relative Humidity and Temperature Sensing. IEEE Sensors Journal, 2020, 20, 14195-14201. | 4.7 | 22 |
| 41 | Dually nanocoated planar waveguides towards multi-parameter sensing. Scientific Reports, 2021, 11, 3669. | 3.3 | 22 |
| 42 | Spectral evolution with incremental nanocoating of long period fiber gratings. Optics Express, 2006, 14, 11972. | 3.4 | 21 |
| 43 | Vibration monitoring in electrical engines using an in-line fiber etalon. Sensors and Actuators A: Physical, 2006, 132, 506-515. | 4.1 | 21 |
| 44 | Generation of Lossy Mode Resonances in Planar Waveguides Toward Development of Humidity Sensors. Journal of Lightwave Technology, 2019, 37, 2300-2306. | 4.6 | 21 |
| 45 | Temperature sensor based on a hybrid ITO-silica resonant cavity. Optics Express, 2015, 23, 1930. | 3.4 | 20 |
| 46 | Fiber optic glucose sensor based on bionanofilms. Sensors and Actuators B: Chemical, 2008, 131, 633-639. | 7.8 | 19 |
| 47 | Optical fiber sensors based on Layer-by-Layer nanostructured films. Procedia Engineering, 2010, 5, 1087-1090. | 1.2 | 19 |
| 48 | Humidity Sensor Based on Bragg Gratings Developed on the End Facet of an Optical Fiber by Sputtering of One Single Material. Sensors, 2017, 17, 991. | 3.8 | 19 |
| 49 | Fiber optic glucose biosensor. Optical Engineering, 2006, 45, 104401. | 1.0 | 17 |
| 50 | Encapsulated Quantum Dot Nanofilms Inside Hollow Core Optical Fibers for Temperature Measurement. IEEE Sensors Journal, 2008, 8, 1368-1374. | 4.7 | 17 |
| 51 | Study and Optimization of Self-Assembled Polymeric Multilayer Structures with Neutral Red for pH Sensing Applications. Journal of Sensors, 2008, 2008, 1-7. | 1.1 | 17 |
| 52 | Influence of Waist Length in Lossy Mode Resonances Generated With Coated Tapered Single-Mode Optical Fibers. IEEE Photonics Technology Letters, 2011, 23, 1579-1581. | 2.5 | 17 |
| 53 | Increasing the Sensitivity of an Optic Level Sensor With a Wavelength and Phase Sensitive Single-Mode Multimode Single-Mode Fiber Structure. IEEE Sensors Journal, 2017, 17, 5515-5522. | 4.7 | 17 |
| 54 | Lossy mode resonances dependence on the geometry of a tapered monomode optical fiber. Sensors and Actuators A: Physical, 2012, 180, 25-31. | 4.1 | 16 |

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|---|---|---|---|
| 55 | Fabrication of Optical Fiber Sensors for Measuring Ageing Transformer Oil in Wavelength. IEEE Sensors Journal, 2016, 16, 4798-4802. | 4.7 | 15 |
| 56 | Analysis of lossy mode resonances on thin-film coated cladding removed plastic fiber. Optics Letters, 2015, 40, 4867. | 3.3 | 14 |
| 57 | Interdigital concept in photonic sensors based on an array of lossy mode resonances. Scientific Reports, 2021, 11, 13228. | 3.3 | 13 |
| 58 | Generation of lossy mode resonances in a broadband range with multilayer coated coverslips optimized for humidity sensing. Sensors and Actuators B: Chemical, 2020, 325, 128795. | 7.8 | 13 |
| 59 | Improving the width of lossy mode resonances in a reflection configuration D-shaped fiber by nanocoating laser ablation. Optics Letters, 2020, 45, 4738. | 3.3 | 13 |
| 60 | Sensors Based on Thin-Film Coated Cladding Removed Multimode Optical Fiber and Single-Mode Multimode Single-Mode Fiber: A Comparative Study. Journal of Sensors, 2015, 2015, 1-7. | 1.1 | 10 |
| 61 | Single-modeâ€"multimodeâ€"single-mode and lossy mode resonance-based devices: a comparative study for sensing applications. Microsystem Technologies, 2016, 22, 1633-1638. | 2.0 | 10 |
| 62 | Fabrication of Long Period Gratings by Periodically Removing the Coating of Cladding-Etched Single Mode Optical Fiber Towards Optical Fiber Sensor Development. Sensors, 2018, 18, 1866. | 3.8 | 9 |
| 63 | Simultaneous Generation of Surface Plasmon and Lossy Mode Resonances in the Same Planar Platform. Sensors, 2022, 22, 1505. | 3.8 | 9 |
| 64 | Fiber optic temperature sensor depositing quantum dots inside hollow core fibers using the layer by layer technique. Proceedings of SPIE, 2007, , . | 0.8 | 8 |
| 65 | Multichannel Refractometer Based on Lossy Mode Resonances. IEEE Sensors Journal, 2022, 22, 3181-3187. | 4.7 | 8 |
| 66 | Optical fiber humidity sensor based on a tapered fiber asymmetrically coated with indium tin oxide. , 2014, , . | | 7 |
| 67 | Optical Fibre Humidity Sensors Using Nano-films. Lecture Notes in Electrical Engineering, 2008, , 153-177. | 0.4 | 6 |
| 68 | Fabrication of Bragg Gratings on the End Facet of Standard Optical Fibers by Sputtering the Same Material. Journal of Lightwave Technology, 2017, 35, 212-219. | 4.6 | 6 |
| 69 | Enhanced Sensitivity in Humidity Sensors based on Long Period Fiber Gratings. , 2006, , . | | 5 |
| 70 | Etched LPFGs in Reflective Configuration for Sensitivity and Attenuation Band Depth Increase. IEEE Photonics Technology Letters, 2016, 28, 1077-1080. | 2.5 | 5 |
| 71 | Optical Fiber Immunosensors Optimized with Cladding Etching and ITO Nanodeposition. , 2018, , . | | 5 |
| 72 | Optical Fiber Vacuum Sensor Based on Etched SMS Structure and PDMS Coating. IEEE Sensors Journal, 2021, 21, 9698-9705. | 4.7 | 5 |

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| 73 | Nanofilms on a hollow core fiber. Optical Engineering, 2006, 45, 050503. | 1.0 | 3 |
| 74 | Tapered Optical Fiber Biosensor for the Detection of Anti-Gliadin Antibodies. , 2007, , . | | 3 |
| 75 | Magnetic field optical sensor based on Lossy Mode Resonances. , 2016, , . | | 3 |
| 76 | Fiber-optic immunosensor based on lossy mode resonances induced by indium tin oxide thin-films. , 2016, , . | | 3 |
| 77 | High Sensitivity Optical Structures for Relative Humidity Sensing. Smart Sensors, Measurement and Instrumentation, 2017, , 55-79. | 0.6 | 3 |
| 78 | Unbalance Detection in Electrical Engines Using an In-Line Fiber Etalon. , 2005, , . | | 2 |
| 79 | High sensitivity optical fiber pH sensor using poly(acrylic acid) nanofibers. , 2013, , . | | 2 |
| 80 | Low voltage transducer based on the changes in the wavelength of the attenuation band. , 2014, , . | | 2 |
| 81 | Nanocoated optical fibre for lossy mode resonance (LMR) sensors and filters. , 2015, , . | | 2 |
| 82 | Magnetic field sensor based on a single mode-multimode-single mode optical fiber structure. , 2015, , . | | 2 |
| 83 | A comparative study between SMS interferometers and lossy mode resonace optical fiber devices for sensing applications. Proceedings of SPIE, 2015, , . | 0.8 | 2 |
| 84 | Competition oriented learning experience in electronics: Robot fabrication from scratch. , 2016, , . | | 2 |
| 85 | Monitoring the Etching Process in LPFGs towards Development of Highly Sensitive Sensors. Proceedings (mdpi), 2017, 1, . | 0.2 | 2 |
| 86 | Etched and Nanocoated SMS Fiber Sensor for Detection of Salinity Concentration. Proceedings (mdpi), 2017, 1, . | 0.2 | 2 |
| 87 | [INVITED] Nanofabrication of phase-shifted Bragg gratings on the end facet of multimode fiber towards development of optical filters and sensors. Optics and Laser Technology, 2018, 101, 49-56. | 4.6 | 2 |
| 88 | Simultaneous Measurement of Refractive Index and Temperature using LMR on planar waveguide. , 2020, , . | | 2 |
| 89 | Humidity sensor based on a long-period fiber grating coated with a SiO 2 -nanosphere film. , 2008, , . | | 1 |
| 90 | Experimental results of antigliadin antibodies detection using long period fiber grating. Proceedings of SPIE, 2008, , . | 0.8 | 1 |

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|---|---|---|---|
| 91 | Humidity sensor based on lossy mode resonances on an etched single mode fiber. , 2015, , . | | 1 |
| 92 | Cladding etched single mode optical fiber refractometer based on Lossy Mode Resonances. , 2016, , . | | 1 |
| 93 | Magnetic Field Sensors Based on Optical Fiber. Smart Sensors, Measurement and Instrumentation, 2017, , 269-299. | 0.6 | 1 |
| 94 | Lossy Mode Resonances Generated in Planar Configuration for Two-Parameter Sensing. IEEE Sensors Journal, 2022, 22, 11264-11270. | 4.7 | 1 |
| 95 | A new speed observer with guaranteed bounds using interval arithmetic. , 0, , . | | 0 |
| 96 | Electrical machine failure detection using an in-line fiber etalon. , 2005, 5855, 715. | | 0 |
| 97 | Celiac disease biodetection using lossy-mode resonances generated in tapered single-mode optical fibers. , 2014, , . | | 0 |
| 98 | Optical fiber current transducer using lossy mode resonances for high voltage networks. Proceedings of SPIE, 2014, , . | 0.8 | 0 |
| 99 | Asymmetrically and symmetrically coated tapered optical fiber for sensing applications. , 2015, , . | | 0 |
| 100 | SnO2-MOF-Fabry-Perot humidity optical sensor system based on fast Fourier transform technique. , 2016, , . | | 0 |
| 101 | Refractive index sensing performance of a Bragg grating built up on the tip of an optical fiber by reactive sputtering. , 2017, , . | | 0 |
| 102 | Study of ammonia and nitric oxide sensing performance of a Fabry-Perot interferometer. , 2017, , . | | 0 |
| 103 | Optical fiber vacuum sensor based on modal interferometer and PDMS coating. , 2019, , . | | 0 |
| 104 | Intrusive Passive Optical Tapping Device. IEEE Access, 2021, 9, 31627-31637. | 4.2 | 0 |
| 105 | STUDY OF SUPERHYDROPHILIC NANOPARTICLE-BASED ULTRA-THIN FILMS TOWARDS THE DEVELOPMENT OF OPTICAL FIBER HUMIDITY SENSORS. International Journal on Smart Sensing and Intelligent Systems, 2009, 2, 63-74. | 0.7 | 0 |
| 106 | Fiber optic sensors based on lossy mode resonances. , 2014, , . | | 0 |