Arnaldo Leal-Junior

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/6738066/publications.pdf Version: 2024-02-01



| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Proof-of-Concept of POF-Based Pressure Sensors Embedded in a Smart Garment for Impact Detection in Perturbation Assessment. Biosystems and Biorobotics, 2022, , 21-25. | 0.3 | 1 |
| 2 | Characterization and analysis of a POF sensor embedded in different materials: Towards wearable systems for stiffness estimation. Optics and Laser Technology, 2022, 145, 107504. | 4.6 | 2 |
| 3 | A simple and high-resolution POF displacement sensor based on face-coupling method. Measurement: Journal of the International Measurement Confederation, 2022, 187, 110285. | 5.0 | 9 |
| 4 | Sensing Applications of Polymer Optical Fiber Fuse. Advanced Photonics Research, 2022, 3, 2100210. | 3.6 | 8 |
| 5 | The Impact of Assembly Configuration on Diaphragm-Embedded Fiber Bragg Gratings Pressure Sensors. IEEE Sensors Journal, 2022, 22, 2237-2243. | 4.7 | 5 |
| 6 | Soft wearable robots. , 2022, , 27-52. | | 1 |
| 7 | Optical fiber materials. , 2022, , 93-118. | | Ο |
| 8 | Optical fiber sensing technologies. , 2022, , 119-148. | | 0 |
| 9 | Wearable robots instrumentation. , 2022, , 151-173. | | 0 |
| 10 | Smart structures and textiles for gait analysis. , 2022, , 175-200. | | 1 |
| 11 | Optical fiber fundaments and overview. , 2022, , 67-91. | | Ο |
| 12 | Soft robotics and compliant actuators instrumentation. , 2022, , 201-219. | | 0 |
| 13 | Wearable multifunctional smart textiles. , 2022, , 223-243. | | Ο |
| 14 | Multifunctional flexible optical waveguide sensor: on the bioinspiration for ultrasensitive sensors development. Opto-Electronic Advances, 2022, 5, 210098-210098. | 13.3 | 71 |
| 15 | Introduction and overview of wearable technologies. , 2022, , 3-26. | | Ο |
| 16 | Gait analysis: overview, trends, and challenges. , 2022, , 53-64. | | 1 |
| 17 | Optical fiber sensors applications for human health. , 2022, , 263-286. | | 1 |
| 18 | Smart walker's instrumentation and development with compliant optical fiber sensors. , 2022, , | | 0 |

18 245-261.

| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Sensors for Vital Signs: Humidity Sensors. , 2022, , 245-261. | | 0 |
| 20 | FBG-Embedded Robotic Manipulator Tool for Structural Integrity Monitoring From Critical Strain-Stress Pair Estimation. IEEE Sensors Journal, 2022, 22, 5695-5702. | 4.7 | 11 |
| 21 | Liquid Level Sensor with Two FBGs Embedded in a PDMS Diaphragm: Analysis of the Linearity and Sensitivity. Sensors, 2022, 22, 1268. | 3.8 | 10 |
| 22 | Temperature sensor based on an erbium-doped fiber Sagnac interferometer. Applied Optics, 2022, 61, 2352. | 1.8 | 8 |
| 23 | Al-enabled photonic smart garment for movement analysis. Scientific Reports, 2022, 12, 4067. | 3.3 | 23 |
| 24 | Diaphragm-assisted impact amplitude and localization measurement system with FBG sensors. Optical Fiber Technology, 2022, 70, 102854. | 2.7 | 2 |
| 25 | Temperature-Insensitive Curvature Sensor With Plane-by-Plane Inscription of Off-Center Tilted Bragg Gratings in CYTOP Fibers. IEEE Sensors Journal, 2022, 22, 11725-11731. | 4.7 | 6 |
| 26 | Polymer Optical Fiber Multimaterial: Flexible and Customizable Approach in Sensors Development. IEEE Photonics Technology Letters, 2022, 34, 611-614. | 2.5 | 2 |
| 27 | Fiber-Optic Hydrophone Based on Michelson's Interferometer with Active Stabilization for Liquid Volume Measurement. Sensors, 2022, 22, 4404. | 3.8 | 5 |
| 28 | Strain Measurement in Hyrax Appliances Using FBG Sensors in a 3D-Printed Human Maxillary Model. IEEE Photonics Technology Letters, 2022, 34, 811-814. | 2.5 | 1 |
| 29 | Force-Displacement Analysis in Diaphragm-Embedded Fiber Bragg Grating Sensors. Sensors, 2022, 22, 5355. | 3.8 | 4 |
| 30 | Sleeve for Knee Angle Monitoring: An IMU-POF Sensor Fusion System. IEEE Journal of Biomedical and Health Informatics, 2021, 25, 465-474. | 6.3 | 17 |
| 31 | Highly Sensitive Fiberâ€Optic Intrinsic Electromagnetic Field Sensing. Advanced Photonics Research, 2021, 2, 2000078. | 3.6 | 34 |
| 32 | Wearable and Fully-Portable Smart Garment for Mechanical Perturbation Detection With Nanoparticles Optical Fibers. IEEE Sensors Journal, 2021, 21, 2995-3003. | 4.7 | 27 |
| 33 | Sensors for Vital Signs: Humidity Sensors. , 2021, , 1-17. | | 0 |
| 34 | Photonic smart bandage for wound healing assessment. Photonics Research, 2021, 9, 272. | 7.0 | 76 |
| 35 | Cortisol AuPd plasmonic unclad POF biosensor. Biotechnology Reports (Amsterdam, Netherlands), 2021, 29, e00587. | 4.4 | 76 |
| 36 | FBG-Based Measurement Systems for Density, Specific Heat Capacity and Thermal Conductivity Assessment for Liquids. IEEE Sensors Journal, 2021, 21, 7657-7664. | 4.7 | 11 |

| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Datacenter Thermal Monitoring Without Blind Spots: FBG-Based Quasi-Distributed Sensing. IEEE Sensors Journal, 2021, 21, 9869-9876. | 4.7 | 8 |
| 38 | An enlarge polymer optical fiber linear-displacement sensor based on constructive interference. Optical Fiber Technology, 2021, 63, 102481. | 2.7 | 13 |
| 39 | Polymer Optical Fiber-Embedded Force Sensor System for Assistive Devices With Dynamic Compensation. IEEE Sensors Journal, 2021, 21, 13255-13262. | 4.7 | 4 |
| 40 | Diaphragm-Embedded Optical Fiber Sensors: A Review and Tutorial. IEEE Sensors Journal, 2021, 21, 12719-12733. | 4.7 | 40 |
| 41 | FBG-Based Temperature Sensors for Liquid Identification and Liquid Level Estimation via Random Forest. Sensors, 2021, 21, 4568. | 3.8 | 26 |
| 42 | Optical Fiber-Integrated Smart Structures: Towards Transparent Devices for Healthcare 4.0. IEEE Instrumentation and Measurement Magazine, 2021, 24, 41-49. | 1.6 | 2 |
| 43 | Polymer Optical Fiber-Based Smart Garment for Impact Identification and Balance Assessment. IEEE Sensors Journal, 2021, 21, 20078-20085. | 4.7 | 5 |
| 44 | Machine learning techniques for liquid level estimation using FBG temperature sensor array. Optical Fiber Technology, 2021, 65, 102612. | 2.7 | 27 |
| 45 | Surface Plasmon Resonance-based Optical Fiber Sensors for H2S In Situ detection. Plasmonics, 2021, 16, 787-797. | 3.4 | 15 |
| 46 | FBG-Based Sensor for the Assessment of Heat Transfer Rate of Liquids in a Forced Convective Environment. Sensors, 2021, 21, 6922. | 3.8 | 5 |
| 47 | Influence of Two-Plane Position and Stress on Intensity-Variation-Based Sensors: Towards Shape Sensing in Polymer Optical Fibers. Sensors, 2021, 21, 7848. | 3.8 | 3 |
| 48 | Comparative Study of Î ³ - and e-Radiation-Induced Effects on FBGs Using Different Femtosecond Laser Inscription Methods. Sensors, 2021, 21, 8379. | 3.8 | 6 |
| 49 | Optical Fiber Specklegram Sensors for Mechanical Measurements: A Review. IEEE Sensors Journal, 2020, 20, 569-576. | 4.7 | 69 |
| 50 | Polymer Optical Fiber Sensor System for Multi Plane Bending Angle Assessment. IEEE Sensors Journal, 2020, 20, 2518-2525. | 4.7 | 5 |
| 51 | Transmission–Reflection Analysis in high scattering optical fibers: A comparison with single-mode optical fiber. Optical Fiber Technology, 2020, 58, 102303. | 2.7 | 30 |
| 52 | Perfluorinated fiber material properties following femtosecond laser inscription. Optical Materials, 2020, 109, 110412. | 3.6 | 3 |
| 53 | Smart textiles for multimodal wearable sensing using highly stretchable multiplexed optical fiber system. Scientific Reports, 2020, 10, 13867. | 3.3 | 111 |
| 54 | Highly Stretchable Polymer Optical Fiber for Mechanical Sensing in Artificial Tendons: Towards Novel Sensors for Soft Robotics. Actuators, 2020, 9, 125. | 2.3 | 10 |

| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 55 | Thermal and Mechanical Analyses of Fiber Bragg Gratings-Embedded Polymer Diaphragms. IEEE Photonics Technology Letters, 2020, 32, 623-626. | 2.5 | 20 |
| 56 | Polymer Optical Fiber-Based Integrated Instrumentation in a Robot-Assisted Rehabilitation Smart Environment: A Proof of Concept. Sensors, 2020, 20, 3199. | 3.8 | 12 |
| 57 | Low-cost Fiberoptic Probe for Ammonia Early Detection in Fish Farms. Remote Sensing, 2020, 12, 1439. | 4.0 | 27 |
| 58 | FPI-POFBG Angular Movement Sensor Inscribed in CYTOP Fibers With Dynamic Angle Compensator. IEEE Sensors Journal, 2020, 20, 5962-5969. | 4.7 | 21 |
| 59 | Bragg Gratings Inscribed in Solid-Core Microstructured Single-Mode Polymer Optical Fiber Drawn From a 3D-Printed Polycarbonate Preform. IEEE Sensors Journal, 2020, 20, 12744-12757. | 4.7 | 13 |
| 60 | Development and Characterization of UV-Resin Coated Fiber Bragg Gratings. Sensors, 2020, 20, 3026. | 3.8 | 10 |
| 61 | High Sensitive Ammonia Detection in Water With Fabry-Perot Interferometers. IEEE Photonics Technology Letters, 2020, 32, 863-866. | 2.5 | 14 |
| 62 | A fiber Bragg gratings pair embedded in a polyurethane diaphragm: Towards a temperature-insensitive pressure sensor. Optics and Laser Technology, 2020, 131, 106440. | 4.6 | 41 |
| 63 | Optimizing Linearity and Sensitivity of 3D-Printed Diaphragms With Chirped FBGs in CYTOP Fibers. IEEE Access, 2020, 8, 31983-31991. | 4.2 | 28 |
| 64 | Performance Analysis of a Lower Limb Multi Joint Angle Sensor Using CYTOP Fiber: Influence of Light Source Wavelength and Angular Velocity Compensation. Sensors, 2020, 20, 326. | 3.8 | 8 |
| 65 | A machine learning approach for simultaneous measurement of magnetic field position and intensity with fiber Bragg grating and magnetorheological fluid. Optical Fiber Technology, 2020, 56, 102184. | 2.7 | 68 |
| 66 | Low-cost and high-resolution pressure sensors using highly stretchable polymer optical fibers. Materials Letters, 2020, 271, 127810. | 2.6 | 27 |
| 67 | Polymer optical fibers for mechanical wave monitoring. Optics Letters, 2020, 45, 5057. | 3.3 | 4 |
| 68 | Femtosecond laser-written long period grating in a multimode CYTOP polymer fibre. , 2020, , . | | 2 |
| 69 | Mechanical analysis of microstructured polymer optical fibres with different drawing pressures. Electronics Letters, 2020, 56, 1128-1130. | 1.0 | 1 |
| 70 | Fibre Bragg grating sensors for sutural expansion assessment in rapid palatal expanders: an exâ€vivo validation. IET Optoelectronics, 2020, 14, 337-342. | 3.3 | 2 |
| 71 | Detection of water, oil and oil contamination in water using chirped fiber Bragg gratings inscribed in CYTOP fibers. , 2020, , . | | 1 |
| 72 | Polymer optical fiber-based sensor for simultaneous measurement of breath and heart rate under dynamic movements. Optics and Laser Technology, 2019, 109, 429-436. | 4.6 | 105 |

| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 73 | Fiber Bragg Based Sensors for Foot Plantar Pressure Analysis. Communications in Computer and Information Science, 2019, , 3-25. | 0.5 | 2 |
| 74 | 3D-Printing Techniques on the Development of Multiparameter Sensors Using One FBC. Sensors, 2019, 19, 3514. | 3.8 | 19 |
| 75 | POF Smart Carpet: A Multiplexed Polymer Optical Fiber-Embedded Smart Carpet for Gait Analysis. Sensors, 2019, 19, 3356. | 3.8 | 33 |
| 76 | Fabry–Perot Curvature Sensor With Cavities Based on UV-Curable Resins: Design, Analysis, and Data Integration Approach. IEEE Sensors Journal, 2019, 19, 9798-9805. | 4.7 | 37 |
| 77 | Perrogator: A Portable Energy-Efficient Interrogator for Dynamic Monitoring of Wavelength-Based Sensors in Wearable Applications. Sensors, 2019, 19, 2962. | 3.8 | 47 |
| 78 | Polymer Optical Fiber Sensors in Healthcare Applications: A Comprehensive Review. Sensors, 2019, 19, 3156. | 3.8 | 139 |
| 79 | Smartphone Integrated Polymer Optical Fiber Humidity Sensor: Towards a Fully Portable Solution for Healthcare. , 2019, 3, 1-4. | | 4 |
| 80 | Analysis of viscoelastic properties influence on strain and temperature responses of Fabry-Perot cavities based on UV-curable resins. Optics and Laser Technology, 2019, 120, 105743. | 4.6 | 40 |
| 81 | Plane-by-Plane Written, Low-Loss Polymer Optical Fiber Bragg Grating Arrays for Multiparameter Sensing in a Smart Walker. IEEE Sensors Journal, 2019, 19, 9221-9228. | 4.7 | 22 |
| 82 | Optical Fiber Sensing for Sub-Millimeter Liquid-Level Monitoring: A Review. IEEE Sensors Journal, 2019, 19, 7179-7191. | 4.7 | 67 |
| 83 | Large-Range Polymer Optical-Fiber Strain-Gauge Sensor for Elastic Tendons in Wearable Assistive Robots. Materials, 2019, 12, 1443. | 2.9 | 21 |
| 84 | Quasi-Distributed Torque and Displacement Sensing on a Series Elastic Actuator's Spring Using FBG Arrays Inscribed in CYTOP Fibers. IEEE Sensors Journal, 2019, 19, 4054-4061. | 4.7 | 70 |
| 85 | 3D-printed POF insole: Development and applications of a low-cost, highly customizable device for plantar pressure and ground reaction forces monitoring. Optics and Laser Technology, 2019, 116, 256-264. | 4.6 | 48 |
| 86 | A Comparative Study of Markerless Systems Based on Color-Depth Cameras, Polymer Optical Fiber Curvature Sensors, and Inertial Measurement Units: Towards Increasing the Accuracy in Joint Angle Estimation. Electronics (Switzerland), 2019, 8, 173. | 3.1 | 21 |
| 87 | Toward Commercial Polymer Fiber Bragg Grating Sensors: Review and Applications. Journal of Lightwave Technology, 2019, 37, 2605-2615. | 4.6 | 185 |
| 88 | Simultaneous measurement of pressure and temperature with a single FBG embedded in a polymer diaphragm. Optics and Laser Technology, 2019, 112, 77-84. | 4.6 | 91 |
| 89 | Combined Bending and Torsion Sensing by Induced Birefringence in Distributed Bragg Reflector Laser. Journal of Lightwave Technology, 2019, 37, 861-867. | 4.6 | 11 |
| 90 | Polymer Optical Fiber-Based Sensor System for Smart Walker Instrumentation and Health Assessment. IEEE Sensors Journal, 2019, 19, 567-574. | 4.7 | 20 |

| # | Article | IF | CITATIONS |
|-----|--|-----|-----------|
| 91 | Simultaneous Measurement of Axial Strain, Bending and Torsion With a Single Fiber Bragg Grating in CYTOP Fiber. Journal of Lightwave Technology, 2019, 37, 971-980. | 4.6 | 85 |
| 92 | Polymer optical fiber-embedded, 3D-printed instrumented support for microclimate and human-robot interaction forces assessment. Optics and Laser Technology, 2019, 112, 323-331. | 4.6 | 21 |
| 93 | Multiplexing technique for quasi-distributed sensors arrays in polymer optical fiber intensity variation-based sensors. Optics and Laser Technology, 2019, 111, 81-88. | 4.6 | 75 |
| 94 | Long period grating in a multimode cyclic transparent optical polymer fiber inscribed using a femtosecond laser. Optics Letters, 2019, 44, 5346. | 3.3 | 36 |
| 95 | Development of Polymer Optical Fiber Sensors for Lower Limb Exoskeletons Instrumentation. Biosystems and Biorobotics, 2019, , 155-159. | 0.3 | 4 |
| 96 | Temperature cross-sensitivity compensation in liquid level sensor using Mach-Zehnder interferometers. , 2019, , . | | 1 |
| 97 | Proof-of-concept of a carpet-embedded heterogeneous optical fiber sensor system for gait analysis. , 2019, , . | | 0 |
| 98 | Analysis of the Diaphragm Thickness Influence in a FBG Pressure Sensor Response. , 2019, , . | | 0 |
| 99 | Design and Implementation of a Polymer Optical Fiber Curvature Sensor for Dynamic Robot's Instrumentation. , 2019, , . | | 0 |
| 100 | Polymer Optical Fiber Sensors for Treadmill Instrumentation. , 2019, , . | | 0 |
| 101 | Temperature Cross-Sensitivity Optimization for Mach-Zehnder Interferometers Liquid Level Sensors. , 2019, , . | | 0 |
| 102 | Fiber Bragg gratings sensor for thermal conductivity measurements in liquids. , 2019, , . | | 0 |
| 103 | Instrumentation and validation of polymer optical fiber sensor technology on a knee exoskeleton. , 2019, , . | | 1 |
| 104 | Fiber Bragg Gratings Sensors on Sutural Expansion Assessment: a Pilot Study. , 2019, , . | | 0 |
| 105 | Design and Analysis of a Smartphone-integrated Polymer Optical Fiber Curvature Sensor. , 2019, , . | | 1 |
| 106 | Polymer Optical Fiber for Angle and Torque Measurements of a Series Elastic Actuator's Spring. Journal of Lightwave Technology, 2018, 36, 1698-1705. | 4.6 | 62 |
| 107 | FBG-Embedded Oblong Diaphragms with Extended Dynamic Range. , 2018, 2, 1-4. | | 7 |
| 108 | Liquid Level Measurement Based on FBC-Embedded Diaphragms With Temperature Compensation. IEEE Sensors Journal, 2018, 18, 193-200. | 4.7 | 106 |

| # | Article | IF | CITATIONS |
|-----|---|-----|-----------|
| 109 | Dynamic Mechanical Analysis on a PolyMethyl Methacrylate (PMMA) Polymer Optical Fiber. IEEE Sensors Journal, 2018, 18, 2353-2361. | 4.7 | 60 |
| 110 | Polymer optical fiber strain gauge for human-robot interaction forces assessment on an active knee orthosis. Optical Fiber Technology, 2018, 41, 205-211. | 2.7 | 58 |
| 111 | Polymer Optical Fiber for In-Shoe Monitoring of Ground Reaction Forces During the Gait. IEEE Sensors Journal, 2018, 18, 2362-2368. | 4.7 | 54 |
| 112 | Multi-interface level in oil tanks and applications of optical fiber sensors. Optical Fiber Technology, 2018, 40, 82-92. | 2.7 | 72 |
| 113 | POF-IMU sensor system: A fusion between inertial measurement units and POF sensors for low-cost and highly reliable systems. Optical Fiber Technology, 2018, 43, 82-89. | 2.7 | 15 |
| 114 | Viscoelastic features based compensation technique for polymer optical fiber curvature sensors. Optics and Laser Technology, 2018, 105, 35-40. | 4.6 | 47 |
| 115 | Dynamic Compensation Technique for POF Curvature Sensors. Journal of Lightwave Technology, 2018, 36, 1112-1117. | 4.6 | 23 |
| 116 | Sensitive zone parameters and curvature radius evaluation for polymer optical fiber curvature sensors. Optics and Laser Technology, 2018, 100, 272-281. | 4.6 | 68 |
| 117 | Compensation technique for environmental and light source power variations applied in a polymer optical fiber curvature sensor for wearable devices. Research on Biomedical Engineering, 2018, 34, 37-44. | 2.2 | 4 |
| 118 | Fiber Bragg Gratings in CYTOP Fibers Embedded in a 3D-Printed Flexible Support for Assessment of Human–Robot Interaction Forces. Materials, 2018, 11, 2305. | 2.9 | 60 |
| 119 | Application of Additive Layer Manufacturing Technique on the Development of High Sensitive Fiber Bragg Grating Temperature Sensors. Sensors, 2018, 18, 4120. | 3.8 | 68 |
| 120 | Fiber Bragg grating-based sensor for torque and angle measurement in a series elastic actuator's spring. Applied Optics, 2018, 57, 7883. | 1.8 | 19 |
| 121 | Design considerations, analysis, and application of a low-cost, fully portable, wearable polymer optical fiber curvature sensor. Applied Optics, 2018, 57, 6927. | 1.8 | 24 |
| 122 | Mechanical properties characterization of polymethyl methacrylate polymer optical fibers after thermal and chemical treatments. Optical Fiber Technology, 2018, 43, 106-111. | 2.7 | 23 |
| 123 | Influence of the Cladding Structure in PMMA mPOFs Mechanical Properties for Strain Sensors Applications. IEEE Sensors Journal, 2018, 18, 5805-5811. | 4.7 | 10 |
| 124 | Polymer Optical Fiber Sensors in Wearable Devices: Toward Novel Instrumentation Approaches for Gait Assistance Devices. IEEE Sensors Journal, 2018, 18, 7085-7092. | 4.7 | 57 |
| 125 | Fast and stable gratings inscription in POFs made of different materials with pulsed 248 nm KrF laser. Optics Express, 2018, 26, 2013. | 3.4 | 63 |
| 126 | Material features based compensation technique for the temperature effects in a polymer diaphragm-based FBG pressure sensor. Optics Express, 2018, 26, 20590. | 3.4 | 75 |

| # | Article | IF | CITATIONS |
|-----|--|-----|-----------|
| 127 | Dynamic mechanical characterization with respect to temperature, humidity, frequency and strain in mPOFs made of different materials. Optical Materials Express, 2018, 8, 804. | 3.0 | 57 |
| 128 | Polymer-optical-fiber-based sensor system for simultaneous measurement of angle and temperature. Applied Optics, 2018, 57, 1717. | 1.8 | 64 |
| 129 | Strain, temperature, moisture, and transverse force sensing using fused polymer optical fibers. Optics Express, 2018, 26, 12939. | 3.4 | 26 |
| 130 | Design and characterization of a curvature sensor using fused polymer optical fibers. Optics Letters, 2018, 43, 2539. | 3.3 | 22 |
| 131 | Dynamic mechanical analysis on fused polymer optical fibers: towards sensor applications. Optics Letters, 2018, 43, 1754. | 3.3 | 15 |
| 132 | Advances on Polymer Optical Fiber Gratings Using a KrF Pulsed Laser System Operating at 248 nm. Fibers, 2018, 6, 13. | 4.0 | 59 |
| 133 | Polymer Optical Fiber Bragg Gratings in CYTOP Fibers for Angle Measurement with Dynamic Compensation. Polymers, 2018, 10, 674. | 4.5 | 76 |
| 134 | A Polymer Optical Fiber Temperature Sensor Based on Material Features. Sensors, 2018, 18, 301. | 3.8 | 77 |
| 135 | Measurement of Temperature and Relative Humidity with Polymer Optical Fiber Sensors Based on the Induced Stress-Optic Effect. Sensors, 2018, 18, 916. | 3.8 | 62 |
| 136 | Thermal Treatments and Compensation Techniques for the Improved Response of FBG Sensors in POFs. Journal of Lightwave Technology, 2018, 36, 3611-3617. | 4.6 | 15 |
| 137 | Compensation Method for Temperature Cross-Sensitivity in Transverse Force Applications With FBG Sensors in POFs. Journal of Lightwave Technology, 2018, 36, 3660-3665. | 4.6 | 74 |
| 138 | FBG-Embedded 3-D Printed ABS Sensing Pads: The Impact of Infill Density on Sensitivity and Dynamic Range in Force Sensors. IEEE Sensors Journal, 2018, 18, 8381-8388. | 4.7 | 74 |
| 139 | Fabrication and Characterization of Bragg Grating in CYTOP POF at 600-nm Wavelength. , 2018, 2, 1-4. | | 265 |
| 140 | Characterization of a new polymer optical fiber with enhanced sensing capabilities using a Bragg grating. Optics Letters, 2018, 43, 4799. | 3.3 | 66 |
| 141 | Water-oil interface level sensor based on FBC-embedded multi-diaphragms system. , 2018, , . | | 0 |
| 142 | Analytical model for a polymer optical fiber under dynamic bending. Optics and Laser Technology, 2017, 93, 92-98. | 4.6 | 65 |
| 143 | Hysteresis compensation technique for POF curvature sensors. Proceedings of SPIE, 2017, , . | 0.8 | 2 |
| 144 | Hysteresis compensation technique applied to polymer optical fiber curvature sensor for lower limb exoskeletons. Measurement Science and Technology, 2017, 28, 125103. | 2.6 | 29 |

| # | Article | IF | CITATIONS |
|-----|--|-----|-----------|
| 145 | Polymethyl methacrylate (PMMA) recycling for the production of optical fiber sensor systems. Optics Express, 2017, 25, 30051. | 3.4 | 58 |
| 146 | Low-Cost Interrogation Technique for Dynamic Measurements with FBG-Based Devices. Sensors, 2017, 17, 2414. | 3.8 | 62 |
| 147 | POFBG-Embedded Cork Insole for Plantar Pressure Monitoring. Sensors, 2017, 17, 2924. | 3.8 | 75 |
| 148 | Interrogation of optical fiber based on the fusion of OFDR and TRA techniques. Optical and Quantum Electronics, 2016, 48, 1. | 3.3 | 2 |
| 149 | Envelope-based technique for liquid level sensors using an in-line fiber Mach–Zehnder interferometer. Applied Optics, 2016, 55, 9803. | 2.1 | 31 |
| 150 | Corrosion Resistant FBG-Based Quasi-Distributed Sensor for Crude Oil Tank Dynamic Temperature Profile Monitoring. Sensors, 2015, 15, 30693-30703. | 3.8 | 60 |
| 151 | Simulation of FBG Temperature Sensor Array for Oil Identification via Random Forest Classification. , 0, , . | | 1 |