

Youqiao

List of Publications by Year in descending order

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papers

2,989
citations

172457

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168389

53
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all docs

90
docs citations

90
times ranked

2305
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | High sensitivity SMS fiber structure based refractometer – analysis and experiment. Optics Express, 2011, 19, 7937. | 3.4 | 387 |
| 2 | Overview of Fiber Optic Sensor Technologies for Strain/Temperature Sensing Applications in Composite Materials. Sensors, 2016, 16, 99. | 3.8 | 255 |
| 3 | High-sensitivity, evanescent field refractometric sensor based on a tapered, multimode fiber interference. Optics Letters, 2011, 36, 2233. | 3.3 | 252 |
| 4 | Fiber refractometer based on a fiber Bragg grating and single-mode–multimode–single-mode fiber structure. Optics Letters, 2011, 36, 2197. | 3.3 | 125 |
| 5 | Use of a Bent Single SMS Fiber Structure for Simultaneous Measurement of Displacement and Temperature Sensing. IEEE Photonics Technology Letters, 2011, 23, 130-132. | 2.5 | 94 |
| 6 | Relative Humidity Sensor Based on an Agarose-Infiltrated Photonic Crystal Fiber Interferometer. IEEE Journal of Selected Topics in Quantum Electronics, 2012, 18, 1553-1559. | 2.9 | 83 |
| 7 | Humidity sensor based on a single-mode hetero-core fiber structure. Optics Letters, 2011, 36, 1752. | 3.3 | 79 |
| 8 | Singlemode-Multimode-Singlemode Fiber Structures for Sensing Applications – A Review. IEEE Sensors Journal, 2021, 21, 12734-12751. | 4.7 | 78 |
| 9 | Fiber-tip high-temperature sensor based on multimode interference. Optics Letters, 2013, 38, 4617. | 3.3 | 70 |
| 10 | High sensitivity refractive index sensor based on a tapered small core single-mode fiber structure. Optics Letters, 2015, 40, 4166. | 3.3 | 70 |
| 11 | Strain sensor based on a pair of single-mode-multimode-single-mode fiber structures in a ratiometric power measurement scheme. Applied Optics, 2010, 49, 536. | 2.1 | 64 |
| 12 | Experimental demonstration of a simple displacement sensor based on a bent single-mode–multimode–single-mode fiber structure. Measurement Science and Technology, 2011, 22, 025203. | 2.6 | 59 |
| 13 | Hollow Core Fiber Based Interferometer for High-Temperature (1000 Å°C) Measurement. Journal of Lightwave Technology, 2018, 36, 1583-1590. | 4.6 | 59 |
| 14 | Magnetic field sensor based on a combination of a microfiber coupler covered with magnetic fluid and a Sagnac loop. Scientific Reports, 2017, 7, 4725. | 3.3 | 57 |
| 15 | High Sensitivity Fiber Refractometer Based on an Optical Microfiber Coupler. IEEE Photonics Technology Letters, 2013, 25, 228-230. | 2.5 | 56 |
| 16 | Use of a single-multiple-single-mode fiber filter for interrogating fiber Bragg grating strain sensors with dynamic temperature compensation. Applied Optics, 2009, 48, 5451. | 2.1 | 48 |
| 17 | Packaged chalcogenide microsphere resonator with high Q-factor. Applied Physics Letters, 2013, 102, . | 3.3 | 47 |
| 18 | High sensitivity optical fiber sensors for simultaneous measurement of methanol and ethanol. Sensors and Actuators B: Chemical, 2018, 271, 1-8. | 7.8 | 45 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 19 | Sub-micrometer resolution liquid level sensor based on a hollow core fiber structure. Optics Letters, 2019, 44, 2125. | 3.3 | 40 |
| 20 | Fiber Optic Hybrid Device for Simultaneous Measurement of Humidity and Temperature. IEEE Sensors Journal, 2013, 13, 1632-1636. | 4.7 | 37 |
| 21 | Highly Sensitive Twist Sensor Based on Partially Silver Coated Hollow Core Fiber Structure. Journal of Lightwave Technology, 2018, 36, 3672-3677. | 4.6 | 37 |
| 22 | Experimental Study and Analysis of a Polymer Fiber Bragg Grating Embedded in a Composite Material. Journal of Lightwave Technology, 2014, 32, 1726-1733. | 4.6 | 36 |
| 23 | A comprehensive analysis verified by experiment of a refractometer based on an SMF28 "small-core singlemode fiber (SCSMF)" SMF28 fiber structure. Journal of Optics (United Kingdom), 2011, 13, 125401. | 2.2 | 35 |
| 24 | Enhanced Refractometer Based on Periodically Tapered Small Core Singlemode Fiber. IEEE Sensors Journal, 2013, 13, 180-185. | 4.7 | 35 |
| 25 | Silica Gel Coated Spherical Micro resonator for Ultra-High Sensitivity Detection of Ammonia Gas Concentration in Air. Scientific Reports, 2018, 8, 1620. | 3.3 | 34 |
| 26 | Optical microfiber coupler based humidity sensor with a polyethylene oxide coating. Microwave and Optical Technology Letters, 2015, 57, 457-460. | 1.4 | 33 |
| 27 | High Sensitivity Ammonia Gas Sensor Based on a Silica-Gel-Coated Microfiber Coupler. Journal of Lightwave Technology, 2017, 35, 2864-2870. | 4.6 | 33 |
| 28 | Optical Microfibre Based Photonic Components and Their Applications in Label-Free Biosensing. Biosensors, 2015, 5, 471-499. | 4.7 | 32 |
| 29 | High sensitivity sol-gel silica coated optical fiber sensor for detection of ammonia in water. Optics Express, 2016, 24, 24179. | 3.4 | 32 |
| 30 | A Compact Sagnac Loop Based on a Microfiber Coupler for Twist Sensing. IEEE Photonics Technology Letters, 2015, 27, 2579-2582. | 2.5 | 30 |
| 31 | Ultrasensitive biosensor based on magnetic microspheres enhanced microfiber interferometer. Biosensors and Bioelectronics, 2019, 145, 111563. | 10.1 | 29 |
| 32 | The use of a bend singlemode "multimode" singlemode (SMS) fibre structure for vibration sensing. Optics and Laser Technology, 2014, 63, 29-33. | 4.6 | 28 |
| 33 | A simple optical fiber interferometer based breathing sensor. Measurement Science and Technology, 2017, 28, 035105. | 2.6 | 28 |
| 34 | Single "mode" multimode "single" mode fiber structures for simultaneous measurement of strain and temperature. Microwave and Optical Technology Letters, 2011, 53, 2181-2185. | 1.4 | 27 |
| 35 | Investigation of Humidity and Temperature Response of a Silica Gel Coated Microfiber Coupler. IEEE Photonics Journal, 2016, 8, 1-7. | 2.0 | 25 |
| 36 | A Packaged Whispering Gallery Mode Strain Sensor Based on a Polymer-Wire Cylindrical Micro Resonator. Journal of Lightwave Technology, 2018, 36, 1757-1765. | 4.6 | 25 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Low Loss, High Extinction Ratio and Ultra-Compact Plasmonic Polarization Beam Splitter. IEEE Photonics Technology Letters, 2014, 26, 660-663. | 2.5 | 23 |
| 38 | A Coated Spherical Microresonator for Measurement of Water Vapor Concentration at PPM Levels in Very Low Humidity Environments. Journal of Lightwave Technology, 2018, 36, 2667-2674. | 4.6 | 23 |
| 39 | Ratiometric wavelength monitor based on singlemode-multimode-singlemode fiber structure. Microwave and Optical Technology Letters, 2008, 50, 3036-3039. | 1.4 | 20 |
| 40 | Experimental demonstration of an all-fiber variable optical attenuator based on liquid crystal infiltrated photonic crystal fiber. Microwave and Optical Technology Letters, 2011, 53, 539-543. | 1.4 | 20 |
| 41 | Mid-infrared Raman sources using spontaneous Raman scattering in germanium core optical fibers. Applied Physics Letters, 2013, 102, . | 3.3 | 18 |
| 42 | Magnetic Field Sensor Based on a Tri-Microfiber Coupler Ring in Magnetic Fluid and a Fiber Bragg Grating. Sensors, 2019, 19, 5100. | 3.8 | 18 |
| 43 | High-sensitivity temperature sensor based on anti-resonance in high-index polymer-coated optical fiber interferometers. Optics Letters, 2020, 45, 5385. | 3.3 | 18 |
| 44 | A novel highly sensitive optical fiber microphone based on single mode-multimode-single mode structure. Microwave and Optical Technology Letters, 2011, 53, 442-445. | 1.4 | 17 |
| 45 | Temperature-compensated magnetic field sensing with a dual-ring structure consisting of microfiber coupler-Sagnac loop and fiber Bragg grating-assisted resonant cavity. Applied Optics, 2019, 58, 2334. | 1.8 | 17 |
| 46 | High Sensitivity Refractometer Based on Reflective Smf-Small Diameter No Core Fiber Structure. Sensors, 2017, 17, 1415. | 3.8 | 16 |
| 47 | Simple design technique for a triangular FBG filter based on a linearly chirped grating. Optics Communications, 2010, 283, 985-992. | 2.1 | 15 |
| 48 | Analysis and applications of nanocavity structures used as tunable filters and sensors. Infrared Physics and Technology, 2012, 55, 389-394. | 2.9 | 14 |
| 49 | Anti-resonance, inhibited coupling and mode transition in depressed core fibers. Optics Express, 2020, 28, 16526. | 3.4 | 14 |
| 50 | A voltage sensor based on a singlemode-multimode-singlemode fiber structure. Microwave and Optical Technology Letters, 2010, 52, 1887-1890. | 1.4 | 13 |
| 51 | A Fiber Bragg Grating-Based All-Fiber Sensing System for Telerobotic Cutting Applications. IEEE Sensors Journal, 2010, 10, 1913-1920. | 4.7 | 13 |
| 52 | Lead silicate glass microsphere resonators with absorption-limited Q. Applied Physics Letters, 2011, 98, . | 3.3 | 13 |
| 53 | Fabrication and Characterization of a Magnetized Metal-Encapsulated FBG Sensor for Structural Health Monitoring. IEEE Sensors Journal, 2018, 18, 8739-8746. | 4.7 | 13 |
| 54 | Discrete Self-Imaging in Small-Core Optical Fiber Interferometers. Journal of Lightwave Technology, 2019, 37, 1873-1884. | 4.6 | 12 |

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|----|--|-----|-----------|
| 55 | A study of the effect of the position of an edge filter within a ratiometric wavelength measurement system. <i>Measurement Science and Technology</i> , 2010, 21, 094013. | 2.6 | 10 |
| 56 | High-Q Bismuth-Silicate Nonlinear Glass Microsphere Resonators. <i>IEEE Photonics Journal</i> , 2012, 4, 1013-1020. | 2.0 | 10 |
| 57 | High Sensitive Z-Shaped Fiber Interferometric Refractive Index Sensor: Simulation and Experiment. <i>IEEE Photonics Technology Letters</i> , 2018, 30, 1131-1134. | 2.5 | 10 |
| 58 | A simple all-fiber comb filter based on the combined effect of multimode interference and Mach-Zehnder interferometer. <i>Scientific Reports</i> , 2018, 8, 11803. | 3.3 | 10 |
| 59 | A Low Polarization Sensitivity All-Fiber Wavelength Measurement System. <i>IEEE Photonics Technology Letters</i> , 2008, 20, 1464-1466. | 2.5 | 9 |
| 60 | Temperature-Induced Instabilities in Macro-Bend Fiber Based Wavelength Measurement Systems. <i>Journal of Lightwave Technology</i> , 2009, 27, 1355-1361. | 4.6 | 9 |
| 61 | Optical microfiber-loaded surface plasmonic TE-pass polarizer. <i>Optics and Laser Technology</i> , 2016, 78, 101-105. | 4.6 | 9 |
| 62 | A bend loss-based singlemode fiber microdisplacement sensor. <i>Microwave and Optical Technology Letters</i> , 2010, 52, 2231-2235. | 1.4 | 8 |
| 63 | Evanescent field coupling between two parallel close contact SMS fiber structures. <i>Optics Express</i> , 2012, 20, 3098. | 3.4 | 8 |
| 64 | Novel Dielectric-Loaded Plasmonic Waveguide for Tight-Confined Hybrid Plasmon Mode. <i>Plasmonics</i> , 2013, 8, 1259-1263. | 3.4 | 8 |
| 65 | Negative Curvature Hollow Core Fiber Based All-Fiber Interferometer and Its Sensing Applications to Temperature and Strain. <i>Sensors</i> , 2020, 20, 4763. | 3.8 | 8 |
| 66 | Enhanced refractive index sensor using a combination of a long period fiber grating and a small core singlemode fiber structure. <i>Measurement Science and Technology</i> , 2013, 24, 094002. | 2.6 | 7 |
| 67 | A comprehensive experimental study of whispering gallery modes in a cylindrical microresonator excited by a tilted fiber taper. <i>Microwave and Optical Technology Letters</i> , 2018, 60, 1495-1504. | 1.4 | 7 |
| 68 | SNS optical fiber sensor for direct detection of phase transitions in C18H38 n-alkane material. <i>Experimental Thermal and Fluid Science</i> , 2019, 109, 109854. | 2.7 | 7 |
| 69 | Strain independent twist sensor based on uneven platinum coated hollow core fiber structure. <i>Optics Express</i> , 2019, 27, 19726. | 3.4 | 7 |
| 70 | Effect of SNR of input signal on the accuracy of a ratiometric wavelength measurement system. <i>Microwave and Optical Technology Letters</i> , 2007, 49, 1022-1024. | 1.4 | 6 |
| 71 | Spectral dependence of transmission losses in high-index polymer coated no-core fibers. <i>Journal of Lightwave Technology</i> , 2020, , 1-1. | 4.6 | 6 |
| 72 | High sensitivity liquid level sensor for microfluidic applications using a hollow core fiber structure. <i>Sensors and Actuators A: Physical</i> , 2021, 332, 113134. | 4.1 | 6 |

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|----|---|-----|-----------|
| 73 | Modeling and Analysis of the Effect of Noise on an Edge Filter Based Ratiometric Wavelength Measurement System. Journal of Lightwave Technology, 2008, 26, 3434-3442. | 4.6 | 5 |
| 74 | Experimental Study on the Frequency Dependence of the Liquid Crystal Infiltrated Photonic Crystal Fibers. IEEE Sensors Journal, 2012, 12, 1018-1024. | 4.7 | 5 |
| 75 | Optical fibre sensors for monitoring phase transitions in phase changing materials. Smart Materials and Structures, 2018, 27, 105021. | 3.5 | 5 |
| 76 | A method to measure reference strain in FBG strain sensor interrogation system involving actuators. Microwave and Optical Technology Letters, 2007, 49, 2658-2661. | 1.4 | 4 |
| 77 | Study of the effect of source signal bandwidth on ratiometric wavelength measurement. Applied Optics, 2010, 49, 5626. | 2.1 | 4 |
| 78 | A miniature optical humidity sensor. , 2011, , . | | 4 |
| 79 | Demodulation Algorithm Using the Hilbert Transform for a Dynamic Polarimetric Optical Fiber Sensor. IEEE Sensors Journal, 2015, 15, 6664-6670. | 4.7 | 4 |
| 80 | High-directionality spin-selective routing of photons in plasmonic nanocircuits. Nanoscale, 2022, 14, 428-432. | 5.6 | 3 |
| 81 | A Macrobending Fiber Based Micro-Displacement Sensor. , 2010, , . | | 2 |
| 82 | Numerical investigation on a laser based localised joining with a glass frit intermediate layer. Microsystem Technologies, 2012, 18, 87-95. | 2.0 | 2 |
| 83 | A miniaturized flexible surface attachable interrogator for hybrid optical fiber sensing. Microwave and Optical Technology Letters, 2014, 56, 1167-1174. | 1.4 | 2 |
| 84 | Low cost disposable reflective optical fiber microphone. Microwave and Optical Technology Letters, 2010, 52, 1504-1507. | 1.4 | 1 |
| 85 | Refractive index sensor based on a silica microsphere whispering gallery mode resonator. , 2015, , . | | 1 |
| 86 | Mode Transition in Conventional Step-Index Optical Fibers. , 2019, , . | | 1 |
| 87 | Investigation of polarizationâ€dependent loss for a macrobending loss sensitive singleâ€mode fiber. Microwave and Optical Technology Letters, 2009, 51, 1460-1464. | 1.4 | 0 |
| 88 | Corrections to â€Low Loss, High Extinction Ration and Ultra-Compact Plasmonic Polarization Beam Splitterâ€[Apr 1 2014 660-663]. IEEE Photonics Technology Letters, 2014, 26, 2413-2413. | 2.5 | 0 |
| 89 | Investigation on stress/strain sensing characteristics for magnetorheological smart composite material by a SMS fiber structure. , 2015, , . | | 0 |
| 90 | Sol-gel silica coated optical fiber sensor for ammonia gas detection. , 2016, , . | | 0 |