

Luigi Zeni

List of Publications by Year in descending order

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326
papers

6,126
citations

66234

42
h-index

106150

65
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332
all docs

332
docs citations

332
times ranked

4089
citing authors

#	ARTICLE	IF	CITATIONS
1	Low Cost Sensors Based on SPR in a Plastic Optical Fiber for Biosensor Implementation. <i>Sensors</i> , 2011, 11, 11752-11760.	2.1	261
2	Dynamic strain measurement in optical fibers by stimulated Brillouin scattering. <i>Optics Letters</i> , 2009, 34, 2613.	1.7	229
3	High selectivity and sensitivity sensor based on MIP and SPR in tapered plastic optical fibers for the detection of l-nicotine. <i>Sensors and Actuators B: Chemical</i> , 2014, 191, 529-536.	4.0	168
4	Sensors based on surface plasmon resonance in a plastic optical fiber for the detection of trinitrotoluene. <i>Sensors and Actuators B: Chemical</i> , 2013, 188, 221-226.	4.0	119
5	Response of fiber Bragg gratings to longitudinal ultrasonic waves. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2005, 52, 304-312.	1.7	114
6	Distributed Sensing at Centimeter-Scale Spatial Resolution by BOFDA: Measurements and Signal Processing. <i>IEEE Photonics Journal</i> , 2012, 4, 48-56.	1.0	110
7	Silicon electro-optic modulator based on a three terminal device integrated in a low-loss single-mode SOI waveguide. <i>Journal of Lightwave Technology</i> , 1997, 15, 505-518.	2.7	104
8	An easy way to realize SPR aptasensor: A multimode plastic optical fiber platform for cancer biomarkers detection. <i>Talanta</i> , 2015, 140, 88-95.	2.9	102
9	Performance Comparison of Two Sensors Based on Surface Plasmon Resonance in a Plastic Optical Fiber. <i>Sensors</i> , 2013, 13, 721-735.	2.1	98
10	Microfluidic sensor based on integrated optical hollow waveguides. <i>Optics Letters</i> , 2004, 29, 1894.	1.7	97
11	SARS-CoV-2 spike protein detection through a plasmonic D-shaped plastic optical fiber aptasensor. <i>Talanta</i> , 2021, 233, 122532.	2.9	91
12	Distributed Temperature Sensing in Polymer Optical Fiber by BOFDA. <i>IEEE Photonics Technology Letters</i> , 2014, 26, 387-390.	1.3	89
13	An innovative plastic optical fiber-based biosensor for new bio/applications. The case of celiac disease. <i>Sensors and Actuators B: Chemical</i> , 2013, 176, 1008-1014.	4.0	85
14	A Novel Chordin-like Protein Inhibitor for Bone Morphogenetic Proteins Expressed Preferentially in Mesenchymal Cell Lineages. <i>Developmental Biology</i> , 2001, 232, 372-387.	0.9	82
15	A portable optical-fibre-based surface plasmon resonance biosensor for the detection of therapeutic antibodies in human serum. <i>Scientific Reports</i> , 2020, 10, 11154.	1.6	82
16	A Simple Technique for Reducing Pump Depletion in Long-Range Distributed Brillouin Fiber Sensors. <i>IEEE Sensors Journal</i> , 2009, 9, 633-634.	2.4	81
17	Determination of Disulfide Structure in Agouti-Related Protein (AGRP) by Stepwise Reduction and Alkylation. <i>Biochemistry</i> , 1998, 37, 12172-12177.	1.2	77
18	Brillouin optical time-domain analysis for geotechnical monitoring. <i>Journal of Rock Mechanics and Geotechnical Engineering</i> , 2015, 7, 458-462.	3.7	73

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19	SPR-based plastic optical fibre biosensor for the detection of C-reactive protein in serum. <i>Journal of Biophotonics</i> , 2016, 9, 1077-1084.	1.1	73
20	Phorbol 12, myristate 13, acetate potentiates the respiratory burst while inhibits phosphoinositide hydrolysis and calcium mobilization by formyl-methionyl-leucyl-phenylalanine in human neutrophils. <i>Biochemical and Biophysical Research Communications</i> , 1986, 135, 556-565.	1.0	72
21	Proposal of Brillouin optical frequency-domain reflectometry (BOFDR). <i>Optics Express</i> , 2016, 24, 29994.	1.7	72
22	Proof of Concept for a Quick and Highly Sensitive On-Site Detection of SARS-CoV-2 by Plasmonic Optical Fibers and Molecularly Imprinted Polymers. <i>Sensors</i> , 2021, 21, 1681.	2.1	70
23	A Molecularly Imprinted Polymer on a Plasmonic Plastic Optical Fiber to Detect Perfluorinated Compounds in Water. <i>Sensors</i> , 2018, 18, 1836.	2.1	69
24	A reconstruction technique for long-range stimulated Brillouin scattering distributed fibre-optic sensors: experimental results. <i>Measurement Science and Technology</i> , 2005, 16, 900-908.	1.4	66
25	Monitoring of Low Levels of Furfural in Power Transformer Oil with a Sensor System Based on a POF-MIP Platform. <i>Sensors</i> , 2015, 15, 8499-8511.	2.1	66
26	Sensitive detection of 2,4,6-trinitrotoluene by tridimensional monitoring of molecularly imprinted polymer with optical fiber and five-branched gold nanostars. <i>Sensors and Actuators B: Chemical</i> , 2015, 208, 291-298.	4.0	63
27	Localized Surface Plasmon Resonance with Five-Branched Gold Nanostars in a Plastic Optical Fiber for Bio-Chemical Sensor Implementation. <i>Sensors</i> , 2013, 13, 14676-14686.	2.1	62
28	Neutron measurements around medical electron accelerators by active and passive detection techniques. <i>Medical Physics</i> , 1991, 18, 54-60.	1.6	61
29	Bridge Monitoring Using Brillouin Fiber-Optic Sensors. <i>IEEE Sensors Journal</i> , 2012, 12, 145-150.	2.4	61
30	A review on simple and highly sensitive plastic optical fiber probes for bio-chemical sensing. <i>Sensors and Actuators B: Chemical</i> , 2021, 331, 129393.	4.0	61
31	Refractive Index Sensing with D-Shaped Plastic Optical Fibers for Chemical and Biochemical Applications. <i>Sensors</i> , 2016, 16, 2119.	2.1	59
32	ARROW optical waveguides based sensors. <i>Sensors and Actuators B: Chemical</i> , 2004, 100, 143-146.	4.0	58
33	Real-time monitoring of railway traffic using slope-assisted Brillouin distributed sensors. <i>Applied Optics</i> , 2013, 52, 3770.	0.9	58
34	A High Sensitivity Biosensor to detect the presence of perfluorinated compounds in environment. <i>Talanta</i> , 2018, 178, 955-961.	2.9	57
35	Silicon micromachined hollow optical waveguides for sensing applications. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2002, 8, 106-110.	1.9	56
36	Markers Detection in Transformer Oil by Plasmonic Chemical Sensor System Based on POF and MIPs. <i>IEEE Sensors Journal</i> , 2016, 16, 7663-7670.	2.4	56

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37	Low distortion Brillouin slow light in optical fibers using AM modulation. Optics Express, 2006, 14, 5866.	1.7	52
38	A Simple Small Size and Low Cost Sensor Based on Surface Plasmon Resonance for Selective Detection of Fe(III). Sensors, 2014, 14, 4657-4671.	2.1	51
39	An electrically controlled Bragg reflector integrated in a rib silicon on insulator waveguide. Applied Physics Letters, 1997, 71, 199-201.	1.5	48
40	Cytotoxicity Investigation on Cultured Human Blood Cells Treated with Single-Wall Carbon Nanotubes. Sensors, 2008, 8, 488-499.	2.1	48
41	The Role of Pulse Repetition Rate in nsPEF-Induced Electroporation: A Biological and Numerical Investigation. IEEE Transactions on Biomedical Engineering, 2015, 62, 2234-2243.	2.5	44
42	D-shaped plastic optical fibre aptasensor for fast thrombin detection in nanomolar range. Scientific Reports, 2019, 9, 18740.	1.6	43
43	Integrated silicon optofluidic ring resonator. Applied Physics Letters, 2010, 97, 131110.	1.5	42
44	Distributed Fiber Optic Sensors for the Monitoring of a Tunnel Crossing a Landslide. Remote Sensing, 2018, 10, 1291.	1.8	42
45	Transverse mode analysis of a laser beam by near- and far-field intensity measurements. Applied Optics, 1995, 34, 7974.	2.1	41
46	A Simple and Low-Cost Optical Fiber Intensity-Based Configuration for Perfluorinated Compounds in Water Solution. Sensors, 2018, 18, 3009.	2.1	38
47	Planar Waveguides for Fluorescence-Based Biosensing: Optimization and Analysis. IEEE Sensors Journal, 2006, 6, 1218-1226.	2.4	37
48	Experimental and numerical study on stimulated Brillouin scattering in a graded-index multimode fiber. Optics Express, 2014, 22, 17480.	1.7	37
49	SPR-Optical Fiber-Molecularly Imprinted Polymer Sensor for the Detection of Furfural in Wine. Biosensors, 2021, 11, 72.	2.3	37
50	Integrated optofluidic Mach-Zehnder interferometer based on liquid core waveguides. Applied Physics Letters, 2008, 93, .	1.5	36
51	A Laboratory Study on the Use of Optical Fibers for Early Detection of Pre-Failure Slope Movements in Shallow Granular Soil Deposits. Geotechnical Testing Journal, 2017, 40, 20160107.	0.5	36
52	Development and characterization of an integrated silicon micro flow cytometer. Analytical and Bioanalytical Chemistry, 2006, 386, 1267-1272.	1.9	34
53	Long-range distributed Brillouin fiber sensors by use of an unbalanced double sideband probe. Optics Express, 2011, 19, 23845.	1.7	34
54	An Optical Fiber Chemical Sensor for the Detection of Copper(II) in Drinking Water. Sensors, 2019, 19, 5246.	2.1	34

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55	Investigation of Freestream Plasma Flow Produced by Inductively Coupled Plasma Wind Tunnel. Journal of Thermophysics and Heat Transfer, 2014, 28, 381-393.	0.9	32
56	Long term structural health monitoring by Brillouin fibre-optic sensing: a real case. Journal of Geophysics and Engineering, 2012, 9, S64-S69.	0.7	31
57	SPR Sensor Platform Based on a Novel Metal Bilayer Applied on D-shaped Plastic Optical Fibers for Refractive Index Measurements in the Range 1.38-1.42. IEEE Sensors Journal, 2016, 16, 4822-4827.	2.4	31
58	Identification of defects and strain error estimation for bending steel beams using time domain Brillouin distributed optical fiber sensors. Smart Materials and Structures, 2006, 15, 612-622.	1.8	30
59	Liquid Core ARROW Waveguides by Atomic Layer Deposition. IEEE Photonics Technology Letters, 2010, 22, 616-618.	1.3	30
60	A Blumlein-type, nanosecond pulse generator with interchangeable transmission lines for bioelectrical applications. IEEE Transactions on Dielectrics and Electrical Insulation, 2013, 20, 1224-1230.	1.8	30
61	D-Shaped POF Sensors for Refractive Index Sensing - The Importance of Surface Roughness. Sensors, 2019, 19, 2476.	2.1	30
62	Stimulated Brillouin scattering frequency-domain analysis in a single-mode optical fiber for distributed sensing. Optics Letters, 2004, 29, 1977.	1.7	29
63	Stimulated Brillouin scattering modeling for high-resolution, time-domain distributed sensing. Optics Express, 2007, 15, 10397.	1.7	29
64	Kilovolt Blumlein pulse generator with variable pulse duration and polarity. Review of Scientific Instruments, 2008, 79, 044301.	0.6	28
65	Accuracy Enhancement in Brillouin Distributed Fiber-Optic Temperature Sensors Using Signal Processing Techniques. IEEE Photonics Technology Letters, 2004, 16, 1143-1145.	1.3	27
66	High-visibility optofluidic Mach-Zehnder interferometer. Optics Letters, 2010, 35, 1584.	1.7	27
67	Accurate high-resolution fiber-optic distributed strain measurements for structural health monitoring. Sensors and Actuators A: Physical, 2007, 134, 389-395.	2.0	26
68	Automatic traffic monitoring by OTDR data and Hough transform in a real-field environment. Applied Optics, 2021, 60, 3579.	0.9	26
69	Reconstruction technique for stimulated Brillouin scattering distributed fiber-optic sensors. Optical Engineering, 2002, 41, 2186.	0.5	25
70	Vectorial dislocation monitoring of pipelines by use of Brillouin-based fiber-optics sensors. Smart Materials and Structures, 2008, 17, 015006.	1.8	25
71	Numerical analysis of single pulse and differential pulse-width pair BOTDA systems in the high spatial resolution regime. Optics Express, 2011, 19, 19233.	1.7	25
72	Slab Waveguide and Optical Fibers for Novel Plasmonic Sensor Configurations. Sensors, 2017, 17, 1488.	2.1	25

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73	Detection of naphthalene in sea-water by a label-free plasmonic optical fiber biosensor. <i>Talanta</i> , 2019, 194, 289-297.	2.9	25
74	Performance of slope behavior indicators in unsaturated pyroclastic soils. <i>Journal of Mountain Science</i> , 2015, 12, 1434-1447.	0.8	24
75	An optical technique to measure the bulk lifetime and the surface recombination velocity in silicon samples based on a laser diode probe system. <i>Solid-State Electronics</i> , 1998, 42, 1035-1038.	0.8	23
76	All frequency domain distributed fiber-optic Brillouin sensing. <i>IEEE Sensors Journal</i> , 2003, 3, 36-43.	2.4	23
77	Dynamic loading of overhead lines by adaptive learning techniques and distributed temperature sensing. <i>IET Generation, Transmission and Distribution</i> , 2007, 1, 912.	1.4	23
78	Easy to Use Plastic Optical Fiber-Based Biosensor for Detection of Butanal. <i>PLoS ONE</i> , 2015, 10, e0116770.	1.1	23
79	A Complete Optical Sensor System Based on a POF-SPR Platform and a Thermo-Stabilized Flow Cell for Biochemical Applications. <i>Sensors</i> , 2016, 16, 196.	2.1	23
80	Intensity-based plastic optical fiber sensor with molecularly imprinted polymer sensitive layer. <i>Sensors and Actuators B: Chemical</i> , 2017, 241, 534-540.	4.0	23
81	Refractive Index Sensing through Surface Plasmon Resonance in Light-Diffusing Fibers. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 1172.	1.3	23
82	Bend-Induced Brillouin Frequency Shift Variation in a Single-Mode Fiber. <i>IEEE Photonics Technology Letters</i> , 2013, 25, 2362-2364.	1.3	22
83	Experimental Characterization of Plasmonic Sensors Based on Lab-Built Tapered Plastic Optical Fibers. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 4389.	1.3	22
84	D-galactose/D-glucose-binding Protein from <i>Escherichia coli</i> as Probe for a Non-consuming Glucose Implantable Fluorescence Biosensor. <i>Sensors</i> , 2007, 7, 2484-2491.	2.1	21
85	Liquid-core/liquid-cladding integrated silicon ARROW waveguides. <i>Optics Communications</i> , 2008, 281, 2062-2066.	1.0	21
86	[INVITED] Slab plasmonic platforms combined with Plastic Optical Fibers and Molecularly Imprinted Polymers for chemical sensing. <i>Optics and Laser Technology</i> , 2018, 107, 484-490.	2.2	21
87	Refractive index sensing by Brillouin scattering in side-polished optical fibers. <i>Optics Letters</i> , 2018, 43, 2280.	1.7	21
88	A Novel Sensing Methodology to Detect Furfural in Water, Exploiting MIPs, and Inkjet-Printed Optical Waveguides. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2019, 68, 1582-1589.	2.4	21
89	Deformable molecularly imprinted nanogels permit sensitivity-gain in plasmonic sensing. <i>Biosensors and Bioelectronics</i> , 2020, 156, 112126.	5.3	21
90	A Magnetic Field Sensor Based on SPR-POF Platforms and Ferrofluids. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021, 70, 1-10.	2.4	21

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91	An Instrumented Flume to Investigate the Mechanics of Rainfall-Induced Landslides in Unsaturated Granular Soils. <i>Geotechnical Testing Journal</i> , 2009, 32, 101366.	0.5	20
92	Characterization of the transverse modes in a laser beam: analysis and application to a Q-switched Nd:YAG laser. <i>Applied Optics</i> , 1992, 31, 2722.	2.1	19
93	A telomerase enzymatic assay that does not use polymerase chain reaction, radioactivity, or electrophoresis. <i>Analytical Biochemistry</i> , 2004, 331, 230-234.	1.1	19
94	Modal analysis of a cantilever beam by use of Brillouin based distributed dynamic strain measurements. <i>Smart Materials and Structures</i> , 2012, 21, 125022.	1.8	19
95	Modal Filtering for Optimized Surface Plasmon Resonance Sensing in Multimode Plastic Optical Fibers. <i>IEEE Sensors Journal</i> , 2015, 15, 6306-6312.	2.4	19
96	Plasmonic Sensing in D-Shaped POFs With Fluorescent Optical Fibers as Light Sources. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2018, 67, 754-759.	2.4	19
97	Microstructured Surface Plasmon Resonance Sensor Based on Inkjet 3D Printing Using Photocurable Resins with Tailored Refractive Index. <i>Polymers</i> , 2021, 13, 2518.	2.0	19
98	An accurate high-resolution technique for distributed sensing based on frequency-domain Brillouin scattering. <i>IEEE Photonics Technology Letters</i> , 2006, 18, 280-282.	1.3	18
99	Numerical study of a ferrule-top cantilever optical fiber sensor for wind-tunnel applications and comparison with experimental results. <i>Sensors and Actuators A: Physical</i> , 2012, 178, 17-25.	2.0	18
100	All-optical multiwavelength technique for the simultaneous measurement of bulk recombination lifetimes and front/rear surface recombination velocity in single crystal silicon samples. <i>Journal of Applied Physics</i> , 2003, 93, 3407-3413.	1.1	17
101	Hybrid Silicon-PDMS Optofluidic ARROW Waveguide. <i>IEEE Photonics Technology Letters</i> , 2012, 24, 1307-1309.	1.3	17
102	Wind Turbine Blade Monitoring with Brillouin-Based Fiber-Optic Sensors. <i>Journal of Sensors</i> , 2017, 2017, 1-5.	0.6	17
103	An Experimental Investigation on the Progressive Failure of Unsaturated Granular Slopes. <i>Geosciences (Switzerland)</i> , 2019, 9, 63.	1.0	17
104	Sensing by Molecularly Imprinted Polymer: Evaluation of the Binding Properties with Different Techniques. <i>Sensors</i> , 2019, 19, 1344.	2.1	17
105	DNA Electrophoretic Migration Patterns Change after Exposure of Jurkat Cells to a Single Intense Nanosecond Electric Pulse. <i>PLoS ONE</i> , 2011, 6, e28419.	1.1	17
106	Heterodyne slope-assisted Brillouin optical time-domain analysis for dynamic strain measurements. <i>Journal of Optics (United Kingdom)</i> , 2016, 18, 025606.	1.0	16
107	An Eco-Friendly Disposable Plasmonic Sensor Based on Bacterial Cellulose and Gold. <i>Sensors</i> , 2019, 19, 4894.	2.1	16
108	Biosensors exploiting unconventional platforms: The case of plasmonic light-diffusing fibers. <i>Sensors and Actuators B: Chemical</i> , 2021, 337, 129771.	4.0	16

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109	Biochemical sensing exploiting plasmonic sensors based on gold nanogratings and polymer optical fibers. <i>Photonics Research</i> , 2021, 9, 1397.	3.4	16
110	Bovine Serum Albumin Protein Detection by a Removable SPR Chip Combined with a Specific MIP Receptor. <i>Chemosensors</i> , 2021, 9, 218.	1.8	16
111	Automated and Cost Effective Maintenance for Railway (ACEMâ€™Rail). <i>Procedia, Social and Behavioral Sciences</i> , 2012, 48, 1058-1067.	0.5	15
112	Distributed-Temperature-Sensing Using Optical Methods: A First Application in the Offshore Area of Campi Flegrei Caldera (Southern Italy) for Volcano Monitoring. <i>Remote Sensing</i> , 2016, 8, 674.	1.8	15
113	Hybrid Brillouin/Rayleigh sensor for multiparameter measurements in optical fibers. <i>Optics Express</i> , 2021, 29, 24025.	1.7	15
114	The Odorant-Binding Protein from <i>Canis familiaris</i> : Purification, Characterization and New Perspectives in Biohazard Assessment. <i>Protein and Peptide Letters</i> , 2006, 13, 349-352.	0.4	14
115	Theoretical and Experimental Analysis of Brillouin Scattering in Single-Mode Optical Fiber Excited by an Intensity- and Phase-Modulated Pump. <i>Journal of Lightwave Technology</i> , 2010, 28, 193-200.	2.7	14
116	Distributed Dynamic Strain Sensing Based on Brillouin Scattering in Optical Fibers. <i>Sensors</i> , 2020, 20, 5629.	2.1	14
117	A Surface Plasmon Resonance Plastic Optical Fiber Biosensor for the Detection of Pancreatic Amylase in Surgically-Placed Drain Effluent. <i>Sensors</i> , 2021, 21, 3443.	2.1	14
118	Two silicon optical modulators realizable with a fully compatible bipolar process. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 1998, 4, 1003-1010.	1.9	13
119	Frequency-domain approach to distributed fiber-optic Brillouin sensing. <i>Optics Letters</i> , 2002, 27, 288.	1.7	13
120	Design and analysis of an integrated antiresonant reflecting optical waveguide refractive-index sensor. <i>Applied Optics</i> , 2002, 41, 70.	2.1	13
121	Damage detection in bending beams through Brillouin distributed optic-fibre sensor. <i>Bridge Structures</i> , 2005, 1, 355-363.	0.2	13
122	Volatile organic compounds detection using porphyrin-based metal-cladding leaky waveguides. <i>Sensors and Actuators B: Chemical</i> , 2007, 127, 231-236.	4.0	13
123	Pulsing the Probe Wave to Reduce Nonlocal Effects in Brillouin Optical Time-Domain Analysis (BOTDA) Sensors. <i>IEEE Sensors Journal</i> , 2011, 11, 1067-1068.	2.4	13
124	A Novel Approach to Realizing Low-Cost Plasmonic Optical Fiber Sensors: Light-Diffusing Fibers Covered by Thin Metal Films. <i>Fibers</i> , 2019, 7, 34.	1.8	13
125	Distributed Optical Fiber Sensor Applications in Geotechnical Monitoring. <i>Sensors</i> , 2021, 21, 7514.	2.1	13
126	Quasi-Distributed Refractive Index Sensing by Stimulated Brillouin Scattering in Tapered Optical Fibers. <i>Journal of Lightwave Technology</i> , 2022, 40, 2619-2624.	2.7	13

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127	Exploiting Plasmonic Phenomena in Polymer Optical Fibers to Realize a Force Sensor. <i>Sensors</i> , 2022, 22, 2391.	2.1	13
128	Reconstruction of doping profiles in semiconductor materials using optical tomography. <i>Solid-State Electronics</i> , 1999, 43, 761-769.	0.8	12
129	Planar antiresonant reflecting optical waveguides as integrated optical refractometer. <i>IEEE Sensors Journal</i> , 2003, 3, 652-657.	2.4	12
130	Integrated silicon optical sensors based on hollow core waveguide. , 2007, , .		12
131	High-Spatial Resolution DPP-BOTDA by Real-Time Balanced Detection. <i>IEEE Photonics Technology Letters</i> , 2014, 26, 1251-1254.	1.3	12
132	A Plasmonic Biosensor Based on Light-Diffusing Fibers Functionalized with Molecularly Imprinted Nanoparticles for Ultralow Sensing of Proteins. <i>Nanomaterials</i> , 2022, 12, 1400.	1.9	12
133	Modified Blumlein Pulse-Forming Networks for Bioelectrical Applications. <i>Journal of Membrane Biology</i> , 2010, 236, 55-60.	1.0	11
134	Structural Damage Identification in an Aluminum Composite Plate by Brillouin Sensing. <i>IEEE Sensors Journal</i> , 2015, 15, 659-660.	2.4	11
135	Cost-effective method for fast Brillouin optical time-domain analysis. <i>Optics Express</i> , 2016, 24, 25424.	1.7	11
136	Analysis of SNR penalty in Brillouin optical time-domain analysis sensors induced by laser source phase noise. <i>Journal of Optics (United Kingdom)</i> , 2016, 18, 025601.	1.0	11
137	Towards the development of cascaded surface plasmon resonance POF sensors exploiting gold films and synthetic recognition elements for detection of contaminants in transformer oil. <i>Sensing and Bio-Sensing Research</i> , 2017, 13, 128-135.	2.2	11
138	Simultaneous Strain and Temperature Measurements by Dual Wavelength Brillouin Sensors. <i>IEEE Sensors Journal</i> , 2017, 17, 3714-3719.	2.4	11
139	An Fiber Bragg Grating-Based Monitoring System for Slope Deformation Studies in Geotechnical Centrifuges. <i>Sensors</i> , 2019, 19, 1591.	2.1	11
140	Long-Term Monitoring with Fiber Optics Distributed Temperature Sensing at Campi Flegrei: The Campi Flegrei Deep Drilling Project. <i>Sensors</i> , 2019, 19, 1009.	2.1	11
141	Polymer Optical Fibers for Sensing. <i>Macromolecular Symposia</i> , 2020, 389, 1900074.	0.4	11
142	A Simple and Efficient Plasmonic Sensor in Light Diffusive Polymer Fibers. <i>IEEE Sensors Journal</i> , 2021, 21, 16054-16060.	2.4	11
143	On the Effect of Soft Molecularly Imprinted Nanoparticles Receptors Combined to Nanoplasmonic Probes for Biomedical Applications. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 801489.	2.0	11
144	Contactless characterization of the recombination process in silicon wafers: Separation between bulk and surface contribution. <i>Solid-State Electronics</i> , 1996, 39, 1165-1172.	0.8	10

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145	Distributed fiber-optic frequency-domain Brillouin sensing. <i>Sensors and Actuators A: Physical</i> , 2005, 123-124, 337-342.	2.0	10
146	Distributed Strain Measurement along a Concrete Beam via Stimulated Brillouin Scattering in Optical Fibers. <i>International Journal of Geophysics</i> , 2011, 2011, 1-5.	0.4	10
147	Flexible and Ultrathin Metal-Oxide Films for Multiresonance-Based Sensors in Plastic Optical Fibers. <i>ACS Applied Nano Materials</i> , 2021, 4, 10902-10910.	2.4	10
148	Measurements of the waist and the power distribution across the transverse modes of a laser beam. <i>Optical and Quantum Electronics</i> , 1992, 24, S963-S971.	1.5	9
149	Blumlein configuration for variable length high-voltage pulse generation by simultaneous switch control. <i>Electronics Letters</i> , 2006, 42, 205.	0.5	9
150	2-D MMI Devices Based on Integrated Hollow ARROW Waveguides. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2007, 13, 194-201.	1.9	9
151	Stimulated Brillouin scattering in highly birefringent microstructure fiber: experimental analysis. <i>Optics Letters</i> , 2008, 33, 2329.	1.7	9
152	Experimental modal analysis of an aluminum rectangular plate by use of the slope-assisted BOTDA method. <i>Smart Materials and Structures</i> , 2013, 22, 125035.	1.8	9
153	High-Pass Filtering for Accurate Reconstruction of the Brillouin Frequency Shift Profile From Brillouin Optical Frequency Domain Analysis Data. <i>IEEE Sensors Journal</i> , 2018, 18, 185-192.	2.4	9
154	Toward Smart Selective Sensors Exploiting a Novel Approach to Connect Optical Fiber Biosensors in Internet. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2020, 69, 8009-8019.	2.4	9
155	Measurement of MIPs Responses Deposited on Two SPR-POF Sensors Realized by Different Photoresist Buffer Layers. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2020, 69, 1464-1473.	2.4	9
156	(INVITED) Quantitative detection of SARS-CoV-2 virions in aqueous mediums by IoT optical fiber sensors. <i>Results in Optics</i> , 2021, 5, 100177.	0.9	9
157	Interferometric measurement of electron-hole pair recombination lifetime as a function of the injection level. <i>IEEE Electron Device Letters</i> , 1993, 14, 487-489.	2.2	8
158	Parametric description of the effect of electron irradiation on recombination lifetime in silicon layers: an experimental approach. <i>IEEE Transactions on Power Electronics</i> , 1999, 14, 117-123.	5.4	8
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160	Temperature Measurements of the Air Plasma Flow Using Optical Emission Spectroscopy. <i>Journal of Thermophysics and Heat Transfer</i> , 2011, 25, 354-360.	0.9	8
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