

# Luigi Zeni

## List of Publications by Year in descending order

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326  
papers

6,126  
citations

66343

42  
h-index

106344

65  
g-index

332  
all docs

332  
docs citations

332  
times ranked

4089  
citing authors

#	ARTICLE	IF	CITATIONS
1	Quasi-Distributed Refractive Index Sensing by Stimulated Brillouin Scattering in Tapered Optical Fibers. <i>Journal of Lightwave Technology</i> , 2022, 40, 2619-2624.	4.6	13
2	Exploiting Plasmonic Phenomena in Polymer Optical Fibers to Realize a Force Sensor. <i>Sensors</i> , 2022, 22, 2391.	3.8	13
3	An Optical Fiber Sensor System for Uranium Detection in Water. , 2022, 16, .		1
4	A Plasmonic Biosensor Based on Light-Diffusing Fibers Functionalized with Molecularly Imprinted Nanoparticles for Ultralow Sensing of Proteins. <i>Nanomaterials</i> , 2022, 12, 1400.	4.1	12
5	Effects of Magnetic Stimulation on Dental Implant Osseointegration: A Scoping Review. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 4496.	2.5	7
6	A Review of Apta-POF-Sensors: The Successful Coupling between Aptamers and Plastic Optical Fibers for Biosensing Applications. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 4584.	2.5	4
7	A Temperature Sensor Exploiting Plasmonic Phenomena Changes in Multimode POFs. <i>IEEE Sensors Journal</i> , 2022, 22, 12900-12905.	4.7	4
8	Molecularly Imprinted Polymers and Inkjet-Printer technology to develop Optical-Chemical Sensors. , 2022, , .		2
9	Magnetic Field Detection by an SPR Plastic Optical Fiber Sensor and Ferrofluids. <i>Lecture Notes in Electrical Engineering</i> , 2021, , 63-68.	0.4	0
10	Green LSPR Sensors Based on Thin Bacterial Cellulose Waveguides for Disposable Biosensor Implementation. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021, 70, 1-8.	4.7	4
11	SPR-Optical Fiber-Molecularly Imprinted Polymer Sensor for the Detection of Furfural in Wine. <i>Biosensors</i> , 2021, 11, 72.	4.7	37
12	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.	7.8	61
13	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.	3.8	70
14	Automatic traffic monitoring by $\mu$ -OTDR data and Hough transform in a real-field environment. <i>Applied Optics</i> , 2021, 60, 3579.	1.8	26
15	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.	3.8	14
16	Biosensors exploiting unconventional platforms: The case of plasmonic light-diffusing fibers. <i>Sensors and Actuators B: Chemical</i> , 2021, 337, 129771.	7.8	16
17	A Nanoplasmonic-Based Biosensing Approach for Wide-Range and Highly Sensitive Detection of Chemicals. <i>Nanomaterials</i> , 2021, 11, 1961.	4.1	8
18	Distributed Static and Dynamic Strain Measurements in Polymer Optical Fibers by Rayleigh Scattering. <i>Sensors</i> , 2021, 21, 5049.	3.8	5

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19	Hybrid Brillouin/Rayleigh sensor for multiparameter measurements in optical fibers. Optics Express, 2021, 29, 24025.	3.4	15
20	Biochemical sensing exploiting plasmonic sensors based on gold nanogratings and polymer optical fibers. Photonics Research, 2021, 9, 1397.	7.0	16
21	A Simple and Efficient Plasmonic Sensor in Light Diffusive Polymer Fibers. IEEE Sensors Journal, 2021, 21, 16054-16060.	4.7	11
22	Microstructured Surface Plasmon Resonance Sensor Based on Inkjet 3D Printing Using Photocurable Resins with Tailored Refractive Index. Polymers, 2021, 13, 2518.	4.5	19
23	Bovine Serum Albumin Protein Detection by a Removable SPR Chip Combined with a Specific MIP Receptor. Chemosensors, 2021, 9, 218.	3.6	16
24	Chemical and Biological Applications Based on Plasmonic Optical Fiber Sensors. IEEE Instrumentation and Measurement Magazine, 2021, 24, 50-55.	1.6	5
25	Universal tool for surface plasmon resonance sensors realized in waveguides. , 2021, , .		0
26	The Role of Tapered Light-Diffusing Fibers in Plasmonic Sensor Configurations. Sensors, 2021, 21, 6333.	3.8	4
27	SARS-CoV-2 spike protein detection through a plasmonic D-shaped plastic optical fiber aptasensor. Talanta, 2021, 233, 122532.	5.5	91
28	A Magnetic Field Sensor Based on SPR-POF Platforms and Ferrofluids. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-10.	4.7	21
29	Flexible and Ultrathin Metal-Oxide Films for Multiresonance-Based Sensors in Plastic Optical Fibers. ACS Applied Nano Materials, 2021, 4, 10902-10910.	5.0	10
30	Long-Term Monitoring of a Tunnel in a Landslide Prone Area by Brillouin-Based Distributed Optical Fiber Sensors. Sensors, 2021, 21, 7032.	3.8	6
31	(INVITED)Quantitative detection of SARS-CoV-2 virions in aqueous mediums by IoT optical fiber sensors. Results in Optics, 2021, 5, 100177.	2.0	9
32	A Molecularly Imprinted Polymer Based SPR Sensor for 2-Furaldehyde Determination in Oil Matrices. Applied Sciences (Switzerland), 2021, 11, 10390.	2.5	3
33	Distributed Optical Fiber Sensor Applications in Geotechnical Monitoring. Sensors, 2021, 21, 7514.	3.8	13
34	Optical Chemo-Sensors for Specific Markers in Transformer Insulating Oil Exploiting Molecularly Imprinted Polymers and Plasmonic Optical Fibers. Engineering Proceedings, 2021, 11, .	0.4	0
35	Aptamer-Based Plasmonic Plastic Optical Fiber Biosensors: A Focus on Relevant Applications. Engineering Proceedings, 2021, 11, .	0.4	0
36	Surface Plasmon Resonance Sensor Based on Inkjet 3D Printing. , 2021, 11, .		0

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37	High-Resolution Distributed Liquid Level Sensor Based on a Self-Heating Approach. , 2021, 11, .		0
38	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.	4.1	11
39	Distributed Dynamic Strain Sensing Based on Brillouin Scattering in Optical Fibers. <i>Sensors</i> , 2020, 20, 5629.	3.8	14
40	Single drop detection of furfural in wine by an SPR sensor based on molecularly imprinted polymer as biomimetic receptor. , 2020, , .		0
41	Plastic Optical Fiber Sensors and Magnetic Fluids: Plasmonic Tunability and Sensing properties for Measurements. , 2020, , .		0
42	Experimental Characterization of Plasmonic Sensors Based on Lab-Built Tapered Plastic Optical Fibers. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 4389.	2.5	22
43	An LSPR Sensor based on a thin slab waveguide of bacterial cellulose. , 2020, , .		1
44	Frequency dielectric spectroscopy and an innovative optical sensor to assess oil-paper degradation. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2020, 27, 1728-1735.	2.9	5
45	Towards Plastic Optical Fiber Magnetic Field Sensors exploiting Magnetic Fluids and Multimode SPR-POF platforms. , 2020, , .		3
46	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.	4.7	9
47	A C-OTDR Sensor for Liquid Detection Based on Optically Heated Co <sup>2+</sup> -Doped Fibers. <i>IEEE Sensors Journal</i> , 2020, 20, 10154-10158.	4.7	4
48	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.	3.3	82
49	Polymer Optical Fibers for Sensing. <i>Macromolecular Symposia</i> , 2020, 389, 1900074.	0.7	11
50	Deformable molecularly imprinted nanogels permit sensitivity-gain in plasmonic sensing. <i>Biosensors and Bioelectronics</i> , 2020, 156, 112126.	10.1	21
51	A Dual-Wavelength Scheme for Brillouin Temperature Sensing in Optically Heated Co <sup>2+</sup> -Doped Fibers. <i>IEEE Sensors Journal</i> , 2020, 20, 1349-1354.	4.7	4
52	Molecularly Imprinted Polymers and Optical Fiber Sensors for Security Applications. <i>Springer Proceedings in Materials</i> , 2020, , 17-24.	0.3	5
53	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.	4.7	9
54	Environmental Monitoring Exploiting Optical Fiber Biosensors. The Case of Naphthalene Detection in Water. <i>Lecture Notes in Electrical Engineering</i> , 2020, , 65-69.	0.4	1

#	ARTICLE	IF	CITATIONS
55	Optical Chemical Sensing Exploiting Inkjet Printing Technology and Molecularly Imprinted Polymers. Lecture Notes in Electrical Engineering, 2020, , 71-74.	0.4	0
56	Long-Term Monitoring of a Tunnel in a Landslide Prone Area by Distributed Optical Fiber Sensors. , 2020, , .		0
57	High-Pass Filtering for Accuracy Enhancement in Dark-Pulse Brillouin Optical Time Domain Analysis. IEEE Photonics Technology Letters, 2019, 31, 1213-1216.	2.5	3
58	Toward an optical monitoring of chemical markers in transformers insulating oil. , 2019, , .		1
59	Effect of the photoresist aging in D-shaped POF SPR Sensors for biochemical applications. , 2019, , .		1
60	D-Shaped POF Sensors for Refractive Index Sensingâ€”The Importance of Surface Roughness. Sensors, 2019, 19, 2476.	3.8	30
61	A Novel Approach to Realizing Low-Cost Plasmonic Optical Fiber Sensors: Light-Diffusing Fibers Covered by Thin Metal Films. Fibers, 2019, 7, 34.	4.0	13
62	An Fiber Bragg Grating-Based Monitoring System for Slope Deformation Studies in Geotechnical Centrifuges. Sensors, 2019, 19, 1591.	3.8	11
63	Long-Term Monitoring with Fiber Optics Distributed Temperature Sensing at Campi Flegrei: The Campi Flegrei Deep Drilling Project. Sensors, 2019, 19, 1009.	3.8	11
64	An Experimental Investigation on the Progressive Failure of Unsaturated Granular Slopes. Geosciences (Switzerland), 2019, 9, 63.	2.2	17
65	Sensing by Molecularly Imprinted Polymer: Evaluation of the Binding Properties with Different Techniques. Sensors, 2019, 19, 1344.	3.8	17
66	A Novel Sensing Methodology to Detect Furfural in Water, Exploiting MIPs, and Inkjet-Printed Optical Waveguides. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 1582-1589.	4.7	21
67	Exploiting Several Buffer Layers in SPR D-Shaped POF Sensors Based on Gold Film for Different Applications. Proceedings (mdpi), 2019, 15, 47.	0.2	0
68	Novel Approaches to Realize Plasmonic Intrinsic and Extrinsic Optical Fiber Sensors with High Sensitivity. , 2019, , .		1
69	Sensing of Furfural by Molecularly Imprinted Polymers on Plasmonic and Electrochemical Platforms. Proceedings (mdpi), 2019, 15, 48.	0.2	1
70	Water monitoring in smart cities exploiting plastic optical fibers and molecularly imprinted polymers. The case of PFBS detection. , 2019, , .		7
71	An Eco-Friendly Disposable Plasmonic Sensor Based on Bacterial Cellulose and Gold. Sensors, 2019, 19, 4894.	3.8	16
72	A Green Slab Waveguide for Plasmonic Sensors Based on Bacterial Cellulose. Proceedings (mdpi), 2019, 15, 36.	0.2	2

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73	An Optical Fiber Chemical Sensor for the Detection of Copper(II) in Drinking Water. <i>Sensors</i> , 2019, 19, 5246.	3.8	34
74	D-shaped plastic optical fibre aptasensor for fast thrombin detection in nanomolar range. <i>Scientific Reports</i> , 2019, 9, 18740.	3.3	43
75	Detection of naphthalene in sea-water by a label-free plasmonic optical fiber biosensor. <i>Talanta</i> , 2019, 194, 289-297.	5.5	25
76	Extrinsic plasmonic optical fiber sensors based on POFs and bacterial cellulose slab waveguides. , 2019, , .		1
77	A Novel Intensity-Based Sensor Platform for Refractive Index Sensing. <i>Lecture Notes in Electrical Engineering</i> , 2019, , 269-273.	0.4	0
78	A Molecularly Imprinted Polymer on a Novel Surface Plasmon Resonance Sensor. <i>Lecture Notes in Electrical Engineering</i> , 2019, , 259-262.	0.4	0
79	High spatial resolution physical and chemical sensing based on BOFDA. , 2019, , .		2
80	Brillouin sensing in optically heated Co <sup>2+</sup> -doped fibers. , 2019, , .		1
81	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.	4.7	19
82	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.	4.7	9
83	Moisture Measurement in Masonry Materials Using Active Distributed Optical Fiber Sensors. <i>Lecture Notes in Electrical Engineering</i> , 2018, , 149-154.	0.4	1
84	Chemical Sensors Based on Surface Plasmon Resonance in a Plastic Optical Fiber for Multianalyte Detection in Oil-Filled Power Transformer. <i>Lecture Notes in Electrical Engineering</i> , 2018, , 128-134.	0.4	1
85	A High Sensitivity Biosensor to detect the presence of perfluorinated compounds in environment. <i>Talanta</i> , 2018, 178, 955-961.	5.5	57
86	Numerical Results on the Exploitation of Gold Nanostructures in Plastic Optical Fibers Based Plasmonic Sensors. <i>Lecture Notes in Electrical Engineering</i> , 2018, , 127-134.	0.4	0
87	A Simple and Low-Cost Optical Fiber Intensity-Based Configuration for Perfluorinated Compounds in Water Solution. <i>Sensors</i> , 2018, 18, 3009.	3.8	38
88	Plasmonic Chemical and Biological Sensors based on plastic optical fibers. , 2018, , .		1
89	Distributed Fiber Optic Sensors for the Monitoring of a Tunnel Crossing a Landslide. <i>Remote Sensing</i> , 2018, 10, 1291.	4.0	42
90	[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.	4.6	21

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91	A novel chemical optical sensor based on molecularly imprinted polymer, optical fibers and inkjet printing technology. , 2018, , .		2
92	A Molecularly Imprinted Polymer on a Plasmonic Plastic Optical Fiber to Detect Perfluorinated Compounds in Water. Sensors, 2018, 18, 1836.	3.8	69
93	Refractive index sensing by Brillouin scattering in side-polished optical fibers. Optics Letters, 2018, 43, 2280.	3.3	21
94	Optical chemical fiber sensor for the detection of perfluorinated compounds in water. , 2018, , .		2
95	Refractive Index Sensing through Surface Plasmon Resonance in Light-Diffusing Fibers. Applied Sciences (Switzerland), 2018, 8, 1172.	2.5	23
96	Surface Plasmon Resonance Sensor in Plastic Optical Fibers. Influence of the Mechanical Support Geometry on the Performances. Lecture Notes in Electrical Engineering, 2018, , 135-141.	0.4	0
97	Dual Wavelength Botda for Strain/Temperature Discrimination. Lecture Notes in Electrical Engineering, 2018, , 25-28.	0.4	1
98	Integrated System SPR Array Sensors based on Side Glow MMA Fibers. , 2018, , .		0
99	Towards the development of cascaded surface plasmon resonance POF sensors exploiting gold films and synthetic recognition elements for detection of contaminants in transformer oil. Sensing and Bio-Sensing Research, 2017, 13, 128-135.	4.2	11
100	Simultaneous Strain and Temperature Measurements by Dual Wavelength Brillouin Sensors. IEEE Sensors Journal, 2017, 17, 3714-3719.	4.7	11
101	Comparison of different photoresist buffer layers in SPR sensors based on D-shaped POF and gold film. , 2017, , .		5
102	Simultaneous strain and temperature measurements using dual-wavelength BOTDA. Proceedings of SPIE, 2017, , .	0.8	1
103	Sweep BOTDA for fast distributed sensing. , 2017, , .		1
104	Experimental demonstration of a Brillouin optical frequency-domain reflectometry (BOFDR) sensor. , 2017, , .		2
105	An optical temperature sensor based on silicone and plastic optical fibers for biomedical applications. , 2017, , .		4
106	Intensity-based plastic optical fiber sensor with molecularly imprinted polymer sensitive layer. Sensors and Actuators B: Chemical, 2017, 241, 534-540.	7.8	23
107	Analysis of SPR Sensors in d-Shaped POF Realized by Hand and Mechanical Polishing. Proceedings (mdpi), 2017, 1, 767.	0.2	0
108	Slab Waveguide and Optical Fibers for Novel Plasmonic Sensor Configurations. Sensors, 2017, 17, 1488.	3.8	25

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109	Wind Turbine Blade Monitoring with Brillouin-Based Fiber-Optic Sensors. <i>Journal of Sensors</i> , 2017, 2017, 1-5.	1.1	17
110	SPR Chemosensors Based on D-Shaped POFs and MIPs: Investigation on Optimal Thickness of the Buffer Layer. <i>Proceedings (mdpi)</i> , 2017, 1, .	0.2	0
111	A Laboratory Study on the Use of Optical Fibers for Early Detection of Pre-Failure Slope Movements in Shallow Granular Soil Deposits. <i>Geotechnical Testing Journal</i> , 2017, 40, 20160107.	1.0	36
112	SPR based hybrid electro-optic biosensor for $\beta$ -lactam antibiotics determination in water. , 2017, , .		3
113	Brillouin Optical Time Domain Analysis Sensor for Active Vibration Control of a Cantilever Beam. <i>Journal of Sensors</i> , 2016, 2016, 1-6.	1.1	0
114	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.	4.0	15
115	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.	3.8	23
116	Refractive Index Sensing with D-Shaped Plastic Optical Fibers for Chemical and Biochemical Applications. <i>Sensors</i> , 2016, 16, 2119.	3.8	59
117	Cost-effective method for fast Brillouin optical time-domain analysis. <i>Optics Express</i> , 2016, 24, 25424.	3.4	11
118	Proposal of Brillouin optical frequency-domain reflectometry (BOFDR). <i>Optics Express</i> , 2016, 24, 29994.	3.4	72
119	SPR-based plastic optical fibre biosensor for the detection of C-reactive protein in serum. <i>Journal of Biophotonics</i> , 2016, 9, 1077-1084.	2.3	73
120	Optimization of an Evanescent Field Sensor based on D-Shaped Plastic Optical Fiber for Chemical and Biochemical Sensing. <i>Procedia Engineering</i> , 2016, 168, 810-813.	1.2	4
121	Design of Surface Plasmon Resonance Sensor in Plastic Optical Fibers Based on Nano-antenna Arrays. <i>Procedia Engineering</i> , 2016, 168, 880-883.	1.2	6
122	Novel Optical Chemical Sensor Based on Molecularly Imprinted Polymer Inside a Trench Micro-machined in Double Plastic Optical Fiber. <i>Procedia Engineering</i> , 2016, 168, 363-366.	1.2	1
123	Brillouin Optical Time Domain Analysis in Silica Fibers at 850-nm Wavelength. <i>IEEE Photonics Technology Letters</i> , 2016, 28, 2577-2580.	2.5	6
124	Performance of Ground Anchors Built in a Flysch Deposit. <i>Procedia Earth and Planetary Science</i> , 2016, 16, 71-80.	0.6	0
125	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. <i>IEEE Sensors Journal</i> , 2016, 16, 4822-4827.	4.7	31
126	Markers Detection in Transformer Oil by Plasmonic Chemical Sensor System Based on POF and MIPs. <i>IEEE Sensors Journal</i> , 2016, 16, 7663-7670.	4.7	56

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127	Refractometers for different refractive index range by surface plasmon resonance sensors in multimode optical fibers with different metals. Proceedings of SPIE, 2016, , .	0.8	1
128	Thin metal bilayer for surface plasmon resonance sensors in a multimode plastic optical fiber: the case of palladium and gold metal films. , 2016, , .		0
129	Influence of laser phase noise on Brillouin optical time-domain analysis sensors. , 2016, , .		1
130	Surface plasmon resonance in a D-shaped plastic optical fibre: Influence of gold layer thickness in monitoring molecularly imprinted polymers. , 2016, , .		3
131	Practical limitations of the slope assisted BOTDA method in dynamic strain sensing. Proceedings of SPIE, 2016, , .	0.8	1
132	Augmented workplace for SPR sensor application. , 2016, , .		2
133	A thermo-stabilized flow cell for surface plasmon resonance sensors in D-shaped plastic optical fibers. Proceedings of SPIE, 2016, , .	0.8	0
134	Heterodyne slope-assisted Brillouin optical time-domain analysis for dynamic strain measurements. Journal of Optics (United Kingdom), 2016, 18, 025606.	2.2	16
135	Analysis of SNR penalty in Brillouin optical time-domain analysis sensors induced by laser source phase noise. Journal of Optics (United Kingdom), 2016, 18, 025601.	2.2	11
136	Application of an integrated monitoring system for rock failures in the Coroglio tuff cliff (Naples,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 3		
137	Femtosecond stimulated Raman spectroscopy and preliminary steps for nonlinear microscopy. , 2015, , .		0
138	Easy to Use Plastic Optical Fiber-Based Biosensor for Detection of Butanal. PLoS ONE, 2015, 10, e0116770.	2.5	23
139	Brillouin optical time-domain analysis for geotechnical monitoring. Journal of Rock Mechanics and Geotechnical Engineering, 2015, 7, 458-462.	8.1	73
140	Performance of slope behavior indicators in unsaturated pyroclastic soils. Journal of Mountain Science, 2015, 12, 1434-1447.	2.0	24
141	Monitoring of Low Levels of Furfural in Power Transformer Oil with a Sensor System Based on a POF-MIP Platform. Sensors, 2015, 15, 8499-8511.	3.8	66
142	An easy way to realize SPR aptasensor: A multimode plastic optical fiber platform for cancer biomarkers detection. Talanta, 2015, 140, 88-95.	5.5	102
143	The Role of Pulse Repetition Rate in nsPEF-Induced Electroporation: A Biological and Numerical Investigation. IEEE Transactions on Biomedical Engineering, 2015, 62, 2234-2243.	4.2	44
144	Experimental results for characterization of a tapered plastic optical fiber sensor based on SPR. Proceedings of SPIE, 2015, , .	0.8	2

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145	Modal Filtering for Optimized Surface Plasmon Resonance Sensing in Multimode Plastic Optical Fibers. IEEE Sensors Journal, 2015, 15, 6306-6312.	4.7	19
146	An optical platform for furfural detection in transformer oil. , 2015, , .		2
147	Structural Damage Identification in an Aluminum Composite Plate by Brillouin Sensing. IEEE Sensors Journal, 2015, 15, 659-660.	4.7	11
148	Sensitive detection of 2,4,6-trinitrotoluene by tridimensional monitoring of molecularly imprinted polymer with optical fiber and five-branched gold nanostars. Sensors and Actuators B: Chemical, 2015, 208, 291-298.	7.8	63
149	Sensing platforms exploiting surface plasmon resonance in polymeric optical fibers for chemical and biochemical applications. , 2015, , .		1
150	Bio and Chemical Sensors Based on Surface Plasmon Resonance in a Plastic Optical Fiber. , 2014, , .		5
151	Combined Molecularly Imprinted Polymer and Surface Plasmon Resonance Transduction in Plastic Optical Fiber for Monitoring Oil-filled Power Transformers. Procedia Engineering, 2014, 87, 532-535.	1.2	4
152	Fiber optic based inclinometer for remote monitoring of landslides: On site comparison with traditional inclinometers. , 2014, , .		5
153	A Simple Small Size and Low Cost Sensor Based on Surface Plasmon Resonance for Selective Detection of Fe(III). Sensors, 2014, 14, 4657-4671.	3.8	51
154	Experimental and numerical study on stimulated Brillouin scattering in a graded-index multimode fiber. Optics Express, 2014, 22, 17480.	3.4	37
155	Novel Approaches for CM-Scale Resolution and Long-Range Sensing by Stimulated Brillouin Scattering in Optical Fibers. Lecture Notes in Electrical Engineering, 2014, , 333-336.	0.4	0
156	Distributed optical fiber sensors for integrated monitoring of railway infrastructures. , 2014, , .		4
157	SPR sensors in POF: a new experimental configuration for extended refractive index range and better SNR. , 2014, , .		1
158	Brillouin optical frequency domain analysis in polymer optical fiber. , 2014, , .		0
159	High selectivity and sensitivity sensor based on MIP and SPR in tapered plastic optical fibers for the detection of l-nicotine. Sensors and Actuators B: Chemical, 2014, 191, 529-536.	7.8	168
160	Distributed Temperature Sensing in Polymer Optical Fiber by BOFDA. IEEE Photonics Technology Letters, 2014, 26, 387-390.	2.5	89
161	Investigation of Freestream Plasma Flow Produced by Inductively Coupled Plasma Wind Tunnel. Journal of Thermophysics and Heat Transfer, 2014, 28, 381-393.	1.6	32
162	Modal analysis of an aluminum rectangular plate by use of the balanced-detection DPP-BOTDA method. , 2014, , .		0

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163	Optical chemical sensor for oil-filled power transformer. , 2014, , .		2
164	Analysis of the Brillouin gain spectrum in a graded-index multimode fiber. , 2014, , .		2
165	High-Spatial Resolution DPP-BOTDA by Real-Time Balanced Detection. IEEE Photonics Technology Letters, 2014, 26, 1251-1254.	2.5	12
166	Distributed optical fiber sensors for integrated monitoring of railway infrastructures. Structural Monitoring and Maintenance, 2014, 1, 173-182.	1.7	4
167	Numerical and Experimental Characterization of a Ferrule-Top Cantilever Optical Fiber Sensor for Flow Velocity Measurements. Lecture Notes in Electrical Engineering, 2014, , 337-341.	0.4	0
168	Optofluidics: a new tool for sensing. , 2013, , .		4
169	A Blumlein-type, nanosecond pulse generator with interchangeable transmission lines for bioelectrical applications. IEEE Transactions on Dielectrics and Electrical Insulation, 2013, 20, 1224-1230.	2.9	30
170	Bend-Induced Brillouin Frequency Shift Variation in a Single-Mode Fiber. IEEE Photonics Technology Letters, 2013, 25, 2362-2364.	2.5	22
171	An innovative plastic optical fiber-based biosensor for new bio/applications. The case of celiac disease. Sensors and Actuators B: Chemical, 2013, 176, 1008-1014.	7.8	85
172	Sensors based on surface plasmon resonance in a plastic optical fiber for the detection of trinitrotoluene. Sensors and Actuators B: Chemical, 2013, 188, 221-226.	7.8	119
173	Railway traffic monitoring using Brillouin distributed sensors. , 2013, , .		3
174	Real-time monitoring of railway traffic using slope-assisted Brillouin distributed sensors. Applied Optics, 2013, 52, 3770.	1.8	58
175	Performance Comparison of Two Sensors Based on Surface Plasmon Resonance in a Plastic Optical Fiber. Sensors, 2013, 13, 721-735.	3.8	98
176	Localized Surface Plasmon Resonance with Five-Branched Gold Nanostars in a Plastic Optical Fiber for Bio-Chemical Sensor Implementation. Sensors, 2013, 13, 14676-14686.	3.8	62
177	Detection of trinitrotoluene based on SPR in molecularly imprinted polymer on plastic optical fiber. Proceedings of SPIE, 2013, , .	0.8	5
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