

Paulo Antunes

List of Publications by Year in descending order

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253
papers

5,656
citations

66343

42
h-index

118850

62
g-index

254
all docs

254
docs citations

254
times ranked

3990
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental Investigation on the Possible Effect of Previous Damage, Workmanship and Test Setup on the Out-of-plane Behaviour of Masonry Infill Walls. <i>Journal of Earthquake Engineering</i> , 2022, 26, 5647-5678.	2.5	10
2	Influence of Beam-to-Column Connections in the Seismic Performance of Precast Concrete Industrial Facilities. <i>Structural Engineering International: Journal of the International Association for Bridge and Structural Engineering (IABSE)</i> , 2022, 32, 507-519.	0.8	3
3	Effect of Proportioning of Lateral Stiffness in Orthogonal Directions on Seismic Performance of RC Buildings. <i>Journal of Earthquake Engineering</i> , 2022, 26, 7568-7586.	2.5	2
4	Polymer optical fiber for monitoring human physiological and body function: A comprehensive review on mechanisms, materials, and applications. <i>Optics and Laser Technology</i> , 2022, 147, 107626.	4.6	43
5	Effect of bidirectional excitation on seismic performance of regular RC frame buildings designed for modern codes. <i>Earthquake Spectra</i> , 2022, 38, 950-980.	3.1	9
6	Cyclic behaviour of precast beam-to-column connections with low seismic detailing. <i>Earthquake Engineering and Structural Dynamics</i> , 2022, 51, 1096-1114.	4.4	3
7	Respiratory and heart rate monitoring using an FBG 3D-printed wearable system. <i>Biomedical Optics Express</i> , 2022, 13, 2299.	2.9	32
8	Sensor Cell Network for Pressure, Temperature and Position Detection on Wheelchair Users. <i>International Journal of Environmental Research and Public Health</i> , 2022, 19, 2195.	2.6	3
9	Preface to special issue on numerical modelling of ÅURM buildings: benchmark project. <i>Bulletin of Earthquake Engineering</i> , 2022, 20, 1897-1900.	4.1	1
10	Interactions between Seismic Safety and Energy Efficiency for Masonry Infill Walls: A Shift of the Paradigm. <i>Energies</i> , 2022, 15, 3269.	3.1	5
11	Self-Compacting Earth-Based Composites: Mixture Design and Multi-Performance Characterisation. <i>Buildings</i> , 2022, 12, 612.	3.1	3
12	FBGs Based System for Muscle Effort Monitoring in Wheelchair Users. <i>IEEE Sensors Journal</i> , 2022, 22, 12886-12893.	4.7	8
13	Instrumented Office Chair With Low-Cost Plastic Optical Fiber Sensors for Posture Control and Work Conditions Optimization. <i>IEEE Access</i> , 2022, 10, 69063-69071.	4.2	5
14	Hybrid intrinsic optical fiber sensor fabricated by femtosecond laser with enhanced sensitivity by Vernier effect. <i>Optics and Laser Technology</i> , 2021, 133, 106520.	4.6	13
15	3D Printed Spirometer for Pulmonary Health Assessment Based on Fiber Bragg Gratings. <i>IEEE Sensors Journal</i> , 2021, 21, 4590-4598.	4.7	4
16	Fiber-Optic Bragg Grating Sensors for Biomechanical Analysis of Fracture Healing. <i>IEEE Sensors Journal</i> , 2021, 21, 24177-24184.	4.7	3
17	Optically Instrumented Insole for Gait Plantar and Shear Force Monitoring. <i>IEEE Access</i> , 2021, 9, 132480-132490.	4.2	8
18	Full-scale cyclic testing of realistic reinforced-concrete beam-column joints. <i>MethodsX</i> , 2021, 8, 101409.	1.6	2

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19	Modelling, fabrication and characterization of long period gratings inscribed by femtosecond laser. <i>Optik</i> , 2021, 229, 166283.	2.9	1
20	Datacenter Thermal Monitoring Without Blind Spots: FBG-Based Quasi-Distributed Sensing. <i>IEEE Sensors Journal</i> , 2021, 21, 9869-9876.	4.7	8
21	Microscale sensor solution for data collection from fibre-matrix interfaces. <i>Scientific Reports</i> , 2021, 11, 8346.	3.3	5
22	Compact Dual-Strain Sensitivity Polymer Optical Fiber Grating for Multi-Parameter Sensing. <i>Journal of Lightwave Technology</i> , 2021, 39, 2230-2240.	4.6	16
23	A Review of the Performance of Infilled RC Structures in Recent Earthquakes. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 5889.	2.5	17
24	Non-Invasive Wearable Optical Sensors for Full Gait Analysis in E-Health Architecture. <i>IEEE Wireless Communications</i> , 2021, 28, 28-35.	9.0	10
25	Noninvasive Optical Instrumentation for Bone Healing Process Analysis. <i>IEEE Sensors Journal</i> , 2021, 21, 14060-14068.	4.7	5
26	An Optimized Self-Compensated Solution for Temperature and Strain Cross-Sensitivity in FBG Interrogators Based on Edge Filter. <i>Sensors</i> , 2021, 21, 5828.	3.8	4
27	Optical Fiber Fabry-Perot Interferometer Based Spirometer: Design and Performance Evaluation. <i>Photonics</i> , 2021, 8, 336.	2.0	5
28	Chirped POF Bragg grating production utilizing UV cure adhesive coating for multiparameter sensing. <i>Optical Fiber Technology</i> , 2021, 65, 102593.	2.7	17
29	Vernier Effect-Based Optical Fiber Sensor for Humidity and Temperature Monitoring. <i>IEEE Photonics Technology Letters</i> , 2021, 33, 1061-1064.	2.5	13
30	Optical fiber FPI based sensor for arterial pulse waves assessment. , 2021, , .		0
31	Hybrid sensor based on a fiber Bragg grating and cascaded Fabry-Perot interferometers inscribed by a femtosecond laser. , 2021, , .		0
32	Fiber Optic Load Cells with Enhanced Sensitivity by Optical Vernier Effect. <i>Sensors</i> , 2021, 21, 7737.	3.8	3
33	Pulmonary Health Assessment using Fiber Bragg Gratings in a 3D Printed Spirometer. , 2021, , .		0
34	Photonic sensors for non-invasive home monitoring of elders. , 2021, , .		1
35	Effect of the Panel Width Support and Columns Axial Load on the Infill Masonry Walls Out-Of-Plane Behavior. <i>Journal of Earthquake Engineering</i> , 2020, 24, 653-681.	2.5	34
36	Probabilistic Seismic Performance Analysis of RC Bridges. <i>Journal of Earthquake Engineering</i> , 2020, 24, 1704-1728.	2.5	40

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37	Wheelchair Pressure Ulcer Prevention Using FBG Based Sensing Devices. <i>Sensors</i> , 2020, 20, 212.	3.8	26
38	Seismic fragility assessment of revised MRT buildings considering typical construction changes. <i>Frontiers of Structural and Civil Engineering</i> , 2020, 14, 241-266.	2.9	4
39	Bragg gratings and Fabry-Perot interferometers on an Er-MgO-doped optical fiber. <i>Optics and Laser Technology</i> , 2020, 123, 105946.	4.6	6
40	Experimental and numerical dataset of Microbond test using optical fibres for strain. <i>Data in Brief</i> , 2020, 31, 106017.	1.0	2
41	Fiber Bragg Gratings Solution for Gait Assesment. , 2020, , .		4
42	Impact of the Textile Mesh on the Efficiency of TRM Strengthening Solutions to Improve the Infill Walls Out-of-Plane Behaviour. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 8745.	2.5	5
43	Wearable Devices for Remote Physical Rehabilitation Using a Fabry-Perot Optical Fiber Sensor: Ankle Joint Kinematic. <i>IEEE Access</i> , 2020, 8, 109866-109875.	4.2	26
44	Performance Analysis of Scattering-Level Multiplexing (SLMux) in Distributed Fiber-Optic Backscatter Reflectometry Physical Sensors. <i>Sensors</i> , 2020, 20, 2595.	3.8	17
45	Resonant Wavelength Thermal Stability of Fiber Bragg Gratings Produced by Femtosecond Laser. <i>Journal of Lightwave Technology</i> , 2020, 38, 1529-1535.	4.6	1
46	Mechanical properties characterization of different types of masonry infill walls. <i>Frontiers of Structural and Civil Engineering</i> , 2020, 14, 411-434.	2.9	20
47	3D interfacial debonding during microbond testing: Advantages of local strain recording. <i>Composites Science and Technology</i> , 2020, 195, 108163.	7.8	12
48	Polymer optical fibers for mechanical wave monitoring. <i>Optics Letters</i> , 2020, 45, 5057.	3.3	4
49	Adhesive assisted fabrication of chirped POF Bragg grating. , 2020, , .		1
50	eHealth Solution for Cancer Patients Rehabilitation enabled by Optical Fiber Sensors. , 2020, , .		3
51	Fiber Bragg Grating (FBG) Sensors in a High-Scattering Optical Fiber Doped with MgO Nanoparticles for Polarization-Dependent Temperature Sensing. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 3107.	2.5	16
52	Fiber Bragg Based Sensors for Foot Plantar Pressure Analysis. <i>Communications in Computer and Information Science</i> , 2019, , 3-25.	0.5	2
53	Perrogator: A Portable Energy-Efficient Interrogator for Dynamic Monitoring of Wavelength-Based Sensors in Wearable Applications. <i>Sensors</i> , 2019, 19, 2962.	3.8	47
54	Optical Fiber Sensing for Sub-Millimeter Liquid-Level Monitoring: A Review. <i>IEEE Sensors Journal</i> , 2019, 19, 7179-7191.	4.7	67

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55	IoToF: A Long-Reach Fully Passive Low-Rate Upstream PHY for IoT over Fiber. Electronics (Switzerland), 2019, 8, 359.	3.1	13
56	Biaxial Optical Accelerometer Based on Ultra-High Numerical Aperture Fiber. IEEE Sensors Journal, 2019, 19, 3690-3697.	4.7	12
57	Low-Cost and High-Performance Optical Fiber-Based Sensor for Liquid Level Monitoring. IEEE Sensors Journal, 2019, 19, 4882-4888.	4.7	15
58	Wearable eHealth System for Physical Rehabilitation: Ankle Plantar-Dorsi-Flexion Monitoring. , 2019, , .		9
59	Fiber Bragg Gratings as e-Health Enablers: An Overview for Gait Analysis Applications. , 2019, , .		3
60	High Rate Dynamic Monitoring with Fabry-Perot Interferometric Sensors: An Alternative Interrogation Technique Targeting Biomedical Applications. Sensors, 2019, 19, 4744.	3.8	21
61	Structural Degradation Assessment of RC Buildings: Calibration and Comparison of Semeiotic-Based Methodology for Decision Support System. Journal of Performance of Constructed Facilities, 2019, 33, 04018109.	2.0	22
62	Combined Bending and Torsion Sensing by Induced Birefringence in Distributed Bragg Reflector Laser. Journal of Lightwave Technology, 2019, 37, 861-867.	4.6	11
63	Insole Optical Fiber Sensor Architecture for Remote Gait Analysis—An e-Health Solution. IEEE Internet of Things Journal, 2019, 6, 207-214.	8.7	76
64	Optical fibre fuse effect based sensor for magnetic field monitoring. , 2019, , .		3
65	Inscription of Bragg gratings in undoped PMMA mPOF with Nd:YAG laser at 266-nm wavelength. Optics Express, 2019, 27, 38039.	3.4	29
66	Highly sensitive fiber optic temperature and strain sensor based on an intrinsic Fabry-Perot interferometer fabricated by a femtosecond laser. Optics Letters, 2019, 44, 4833.	3.3	103
67	Nonlinear Static Analysis by Finite Elements of a Fujian Hakka Tulou. IABSE Symposium Report, 2019, , .	0.0	0
68	Temperature cross-sensitivity compensation in liquid level sensor using Mach-Zehnder interferometers. , 2019, , .		1
69	Low-cost intrinsic optical fiber FPI sensor for knee kinematic gait analysis and e-Health architecture. , 2019, , .		1
70	Bioinspired optical fiber sensor for simultaneous shear and vertical forces monitoring. , 2019, , .		1
71	Cost-effective high rate interrogation architecture for Fabry-Perot interferometric sensors. , 2019, , .		0
72	High-resolution strain and temperature Fabry-Perot interferometer sensor based on Vernier effect and produced by a femtosecond laser. , 2019, , .		1

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73	Inscription of a fiber Bragg grating and a Fabry-Pérot interferometer on a MgO-doped optical fiber. , 2019, , .		0
74	Towards a Complete Gait Analysis using Optical Fiber Bragg Gratings. , 2019, , .		1
75	Graphene oxide filled optical fiber micro-cavity based temperature sensor. , 2019, , .		0
76	Bragg grating device fabrication in undoped PMMA mPOF at 266 nm UV waveleng. , 2019, , .		0
77	Long-term monitoring of a damaged historic structure using a wireless sensor network. Engineering Structures, 2018, 161, 108-117.	5.3	27
78	Cost-effective optical fiber pressure sensor based on intrinsic Fabry-Perot interferometric micro-cavities. Optical Fiber Technology, 2018, 42, 56-62.	2.7	58
79	Stochastic collocation-based nonlinear analysis of concrete bridges with uncertain parameters. Structure and Infrastructure Engineering, 2018, 14, 1324-1338.	3.7	12
80	Liquid Level Measurement Based on FBG-Embedded Diaphragms With Temperature Compensation. IEEE Sensors Journal, 2018, 18, 193-200.	4.7	106
81	Seismic behavior of two Portuguese adobe buildings: Part I - in-plane cyclic testing of a full-scale adobe wall. International Journal of Architectural Heritage, 2018, 12, 922-935.	3.1	9
82	Seismic behavior of two Portuguese adobe buildings: part II "numerical modeling and fragility assessment. International Journal of Architectural Heritage, 2018, 12, 936-950.	3.1	11
83	Seismic Assessment of a School Building in Nepal and Analysis of Retrofitting Solutions. International Journal of Civil Engineering, 2018, 16, 1573-1589.	2.0	14
84	On-site full-scale tests of a timber queen-post truss. International Journal of Architectural Heritage, 2018, 12, 545-554.	3.1	0
85	Seismic Analysis of a Portuguese Vernacular Building. Journal of Architectural Engineering, 2018, 24, 05017010.	1.6	6
86	Energy-Aware Wearable E-Health Architecture Using Optical FBG Sensors for Knee Kinematic Monitoring. , 2018, , .		19
87	Employment of optical fibers for RC bond-slip characterization. Procedia Structural Integrity, 2018, 11, 138-144.	0.8	1
88	Comparative study on the seismic performance assessment of existing buildings with and without retrofit strategies. International Journal of Advanced Structural Engineering, 2018, 10, 439-464.	1.3	7
89	Optical Fiber Magnetic Field Sensors Based on Magnetic Fluid: A Review. Sensors, 2018, 18, 4325.	3.8	115
90	Microstructured PMMA POF chirped Bragg gratings for strain sensing. Optical Fiber Technology, 2018, 45, 330-335.	2.7	28

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91	Heterogeneity detection of Portuguese and Brazilian masonries through ultrasonic velocities measurements. <i>Journal of Civil Structural Health Monitoring</i> , 2018, 8, 847-856.	3.9	9
92	Clinical evaluation of an optical fiber-based probe for the assessment of central arterial pulse waves. <i>Hypertension Research</i> , 2018, 41, 904-912.	2.7	11
93	A cost-effective edge-filter based FBG interrogator using catastrophic fuse effect micro-cavity interferometers. <i>Measurement: Journal of the International Measurement Confederation</i> , 2018, 124, 486-493.	5.0	69
94	Experimental Comparison of Novel CFRP Retrofit Schemes for Realistic Full-Scale RC Beam-Column Joints. <i>Journal of Composites for Construction</i> , 2018, 22, .	3.2	28
95	Fast and stable gratings inscription in POFs made of different materials with pulsed 248 nm KrF laser. <i>Optics Express</i> , 2018, 26, 2013.	3.4	63
96	Polymer optical fiber Bragg grating inscription with a single Nd:YAG laser pulse. <i>Optics Express</i> , 2018, 26, 18096.	3.4	32
97	Strain, temperature, moisture, and transverse force sensing using fused polymer optical fibers. <i>Optics Express</i> , 2018, 26, 12939.	3.4	26
98	Design and characterization of a curvature sensor using fused polymer optical fibers. <i>Optics Letters</i> , 2018, 43, 2539.	3.3	22
99	Seismic vulnerability assessment methodology for slender masonry structures. <i>International Journal of Architectural Heritage</i> , 2018, 12, 1297-1326.	3.1	17
100	Optical sensors for bond-slip characterization and monitoring of RC structures. <i>Sensors and Actuators A: Physical</i> , 2018, 280, 332-339.	4.1	23
101	Dynamic mechanical analysis on fused polymer optical fibers: towards sensor applications. <i>Optics Letters</i> , 2018, 43, 1754.	3.3	15
102	Advances on Polymer Optical Fiber Gratings Using a KrF Pulsed Laser System Operating at 248 nm. <i>Fibers</i> , 2018, 6, 13.	4.0	59
103	Gait Shear and Plantar Pressure Monitoring: A Non-Invasive OFS Based Solution for e-Health Architectures. <i>Sensors</i> , 2018, 18, 1334.	3.8	45
104	Non-destructive characterization of ancient clay brick walls by indirect ultrasonic measurements. <i>Journal of Building Engineering</i> , 2018, 19, 172-180.	3.4	34
105	Bragg Gratings Inscription in TS-Doped PMMA POF by Using 248-nm KrF Pulses. <i>IEEE Photonics Technology Letters</i> , 2018, 30, 1609-1612.	2.5	10
106	Biaxial Optical Accelerometer Based on Ultra-High Numerical Aperture Fiber for Structural and Electrical Machines Vibrations Analysis. , 2018, , .		0
107	Dynamic characterization of a heritage construction from 19th century. <i>Revista IBRACON De Estruturas E Materiais</i> , 2018, 11, 52-75.	0.6	4
108	Biaxial optical fiber sensor based in two multiplexed Bragg gratings for simultaneous shear stress and vertical pressure monitoring. , 2018, , .		2

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109	Hot water-assisted fabrication of chirped polymer optical fiber Bragg gratings. Optics Express, 2018, 26, 34655.	3.4	9
110	Characterization of a new polymer optical fiber with enhanced sensing capabilities using a Bragg grating. Optics Letters, 2018, 43, 4799.	3.3	66
111	Largely tunable dispersion chirped polymer FBG. Optics Letters, 2018, 43, 5106.	3.3	27
112	Improvement of sonic tests methodology for the characterization of stone masonry. First Break, 2018, 36, 59-63.	0.4	1
113	Optical Fiber Technology for eHealthcare. , 2018, , 1503-1526.		1
114	Foot Plantar Pressure Monitoring with CYTOP Bragg Gratings Sensing System. , 2018, , .		7
115	Thermal stability of fiber Bragg gratings inscribed in microstructured polymer optical fibers with a single UV laser pulse. , 2018, , .		0
116	Chirped mPOF Bragg grating for strain sensing. , 2018, , .		0
117	A cost-effective edge-filter-based FBG strain interrogator using catastrophic fuse effect microcavity interferometers. , 2018, , .		0
118	Arterial pulses assessed with FBG based films: a smart skin approach. , 2018, , .		4
119	Evaluation of different strengthening techniquesâ€™ efficiency for a soft storey building. European Journal of Environmental and Civil Engineering, 2017, 21, 371-388.	2.1	30
120	Insole optical fiber Bragg grating sensors network for dynamic vertical force monitoring. Journal of Biomedical Optics, 2017, 22, 091507.	2.6	55
121	Seismic performance of adobe construction. Sustainable and Resilient Infrastructure, 2017, 2, 8-21.	2.8	9
122	Hazard Disaggregation and Record Selection for Fragility Analysis and Earthquake Loss Estimation. Earthquake Spectra, 2017, 33, 529-549.	3.1	7
123	Chirped Bragg Gratings in PMMA Step-Index Polymer Optical Fiber. IEEE Photonics Technology Letters, 2017, 29, 500-503.	2.5	55
124	Direct measurement of residual strains in CFRP-tungsten hybrids using embedded strain gauges. Materials and Design, 2017, 127, 352-363.	7.0	18
125	Resonant wavelength thermal stability of femtosecond FBGs. Proceedings of SPIE, 2017, , .	0.8	0
126	Acoustic waves in tilted fiber Bragg gratings for sensing applications. , 2017, , .		1

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127	Chirped polymer optical fiber Bragg grating sensors. Proceedings of SPIE, 2017, , .	0.8	1
128	Structural Health Monitoring Suitable for Airborne Components Using the Speckle Pattern in Plastic Optical Fibers. IEEE Sensors Journal, 2017, 17, 4791-4796.	4.7	24
129	Phase-Shifted Bragg Grating Inscription in PMMA Microstructured POF Using 248-nm UV Radiation. Journal of Lightwave Technology, 2017, 35, 5176-5184.	4.6	30
130	Structural health monitoring of the retrofitting process, characterization and reliability analysis of a masonry heritage construction. Journal of Civil Structural Health Monitoring, 2017, 7, 405-428.	3.9	14
131	Carotid distension waves acquired with a fiber sensor as an alternative to tonometry for central arterial systolic pressure assessment in young subjects. Measurement: Journal of the International Measurement Confederation, 2017, 95, 45-49.	5.0	11
132	Seismic performance of the infill masonry walls and ambient vibration tests after the Ghorka 2015, Nepal earthquake. Bulletin of Earthquake Engineering, 2017, 15, 1185-1212.	4.1	61
133	Refractive index sensor based on tilted fiber Bragg gratings driven by acoustic waves. , 2017, , .		1
134	AMBIENT VIBRATIONAL CHARACTERIZATION OF THE NOSSA SENHORA DAS DORES CHURCH. Engineering Structures and Technologies, 2017, 9, 170-182.	0.1	7
135	Non-Invasive Insole Optical Fiber Sensor Architecture for Monitoring Foot Anomalies. , 2017, , .		3
136	High-quality phase-shifted Bragg grating sensor inscribed with only one laser pulse in a polymer optical fiber. , 2017, , .		2
137	Fast Bragg Grating Inscription in PMMA Polymer Optical Fibres: Impact of Thermal Pre-Treatment of Preforms. Sensors, 2017, 17, 891.	3.8	62
138	Low-Cost Interrogation Technique for Dynamic Measurements with FBG-Based Devices. Sensors, 2017, 17, 2414.	3.8	62
139	POFBG-Embedded Cork Insole for Plantar Pressure Monitoring. Sensors, 2017, 17, 2924.	3.8	75
140	Cost-effective in-line optical fiber Fabry-Perot interferometric pressure sensor. , 2017, , .		0
141	Internal and External Temperature Monitoring of a Li-Ion Battery with Fiber Bragg Grating Sensors. Sensors, 2016, 16, 1394.	3.8	114
142	Simplified macro-model for infill masonry walls considering the out-of-plane behaviour. Earthquake Engineering and Structural Dynamics, 2016, 45, 507-524.	4.4	111
143	Optical fiber sensors for central arterial pressure monitoring. Optical and Quantum Electronics, 2016, 48, 1.	3.3	21
144	Recycling optical fibers for sensing. , 2016, , .		2

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145	<i>In situ</i> Out-of-Plane Cyclic Testing of Original and Strengthened Traditional Stone Masonry Walls Using Airbags. Journal of Earthquake Engineering, 2016, 20, 749-772.	2.5	16
146	Induction Motors Vibration Monitoring Using a Biaxial Optical Fiber Accelerometer. IEEE Sensors Journal, 2016, 16, 8075-8082.	4.7	60
147	[OP.8D.04] COMPARISON STUDY OF CAROTID DISTENSION WAVES MEASURED WITH A NON-INVASIVE OPTICAL FIBRE SENSOR AND AORTIC INVASIVE PRESSURE WAVES. Journal of Hypertension, 2016, 34, e106.	0.5	0
148	Seismic safety assessment of existing masonry infill structures in Nepal. Earthquake Engineering and Engineering Vibration, 2016, 15, 251-268.	2.3	17
149	Numerical modelling of RC strengthened columns under biaxial loading. Innovative Infrastructure Solutions, 2016, 1, 1.	2.2	3
150	Global overview on advances in structural health monitoring platforms. Journal of Civil Structural Health Monitoring, 2016, 6, 461-475.	3.9	49
151	Earthquake loss estimation for the Kathmandu Valley. Bulletin of Earthquake Engineering, 2016, 14, 59-88.	4.1	39
152	A case study of the use of GPR for rehabilitation of a classified Art Deco building: The InovaDomus house. Journal of Applied Geophysics, 2016, 127, 1-13.	2.1	28
153	Seismic fragility analysis of typical pre-1990 bridges due to near- and far-field ground motions. International Journal of Advanced Structural Engineering, 2016, 8, 1-9.	1.3	31
154	Groundwater level monitoring using a plastic optical fiber. Sensors and Actuators A: Physical, 2016, 240, 138-144.	4.1	29
155	Survey of the Facade Walls of Existing Adobe Buildings. International Journal of Architectural Heritage, 2016, 10, 867-886.	3.1	8
156	Relative humidity sensing using micro-cavities produced by the catastrophic fuse effect. Optical and Quantum Electronics, 2016, 48, 1.	3.3	51
157	Cost effective refractive index sensor based on optical fiber micro cavities produced by the catastrophic fuse effect. Measurement: Journal of the International Measurement Confederation, 2016, 77, 265-268.	5.0	22
158	Empirical Formulation for Estimating the Fundamental Frequency of Slender Masonry Structures. International Journal of Architectural Heritage, 2016, 10, 55-66.	3.1	38
159	Structural reliability assessment based on optical monitoring system: case study. Revista IBRACON De Estruturas E Materiais, 2016, 9, 297-305.	0.6	3
160	Enhanced sensitivity high temperature optical fiber FPI sensor created with the catastrophic fuse effect. Microwave and Optical Technology Letters, 2015, 57, 972-974.	1.4	11
161	Corrosion Resistant FBC-Based Quasi-Distributed Sensor for Crude Oil Tank Dynamic Temperature Profile Monitoring. Sensors, 2015, 15, 30693-30703.	3.8	60
162	Liquid level gauge based in plastic optical fiber. Measurement: Journal of the International Measurement Confederation, 2015, 66, 238-243.	5.0	48

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163	Hydrostatic pressure sensor based on micro-cavities developed by the catastrophic fuse effect. , 2015, , .		1
164	Central arterial pressure assessment with intensity POF sensor. Proceedings of SPIE, 2015, , .	0.8	2
165	Liquid Hydrostatic Pressure Optical Sensor Based on Micro-Cavity Produced by the Catastrophic Fuse Effect. IEEE Sensors Journal, 2015, 15, 5654-5658.	4.7	31
166	Lithium batteries temperature and strain fiber monitoring. , 2015, , .		5
167	Analysis of vibrations in electrical machines with an optical fiber accelerometer. , 2015, , .		4
168	Investigation of the characteristics of Portuguese regular moment-frame RC buildings and development of a vulnerability model. Bulletin of Earthquake Engineering, 2015, 13, 1455-1490.	4.1	70
169	A contribution for the improvement in thermal insulation of <i>tabique</i> walls coated with metal corrugated sheets. Building Services Engineering Research and Technology, 2015, 36, 439-454.	1.8	4
170	Seismic vulnerability and loss assessment of the Nepalese Pagoda temples. Bulletin of Earthquake Engineering, 2015, 13, 2197-2223.	4.1	15
171	Development and application of a real-time loss estimation framework for Portugal. Bulletin of Earthquake Engineering, 2015, 13, 2493-2516.	4.1	15
172	Seismic risk assessment and hazard mapping in Nepal. Natural Hazards, 2015, 78, 583-602.	3.4	74
173	Seismic vulnerability of building aggregates through hybrid and indirect assessment techniques. Bulletin of Earthquake Engineering, 2015, 13, 2995-3014.	4.1	83
174	Central arterial pulse waveform acquisition with a portable pen-like optical fiber sensor. Blood Pressure Monitoring, 2015, 20, 43-46.	0.8	19
175	Seismic risk assessment for mainland Portugal. Bulletin of Earthquake Engineering, 2015, 13, 429-457.	4.1	116
176	Cyclic behaviour of interior beamâ€‘column joints reinforced with plain bars. Earthquake Engineering and Structural Dynamics, 2015, 44, 1351-1371.	4.4	30
177	Plastic Optical Fiber Sensor for Noninvasive Arterial Pulse Waveform Monitoring. IEEE Sensors Journal, 2015, 15, 14-18.	4.7	34
178	Experimental study of bondâ€‘slip in RC structural elements with plain bars. Materials and Structures/Materiaux Et Constructions, 2015, 48, 2367-2381.	3.1	32
179	Nonlinear Dynamic Analysis of a Full-Scale Unreinforced Adobe Model. Earthquake Spectra, 2014, 30, 1643-1661.	3.1	25
180	Dynamic structural health monitoring of a civil engineering structure with a POF accelerometer. Sensor Review, 2014, 34, 36-41.	1.8	17

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181	Sensors based on recycled optical fibers destroyed by the catastrophic fuse effect. Proceedings of SPIE, 2014, , .	0.8	0
182	Design Procedures of Reinforced Concrete Framed Buildings in Nepal and its Impact on Seismic Safety. Advances in Structural Engineering, 2014, 17, 1419-1442.	2.4	10
183	Response reduction factor of irregular RC buildings in Kathmandu valley. Earthquake Engineering and Engineering Vibration, 2014, 13, 455-470.	2.3	26
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