

Luca Schenato

List of Publications by Year in descending order

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49
papers

980
citations

567281

15
h-index

454955

30
g-index

50
all docs

50
docs citations

50
times ranked

941
citing authors

#	ARTICLE	IF	CITATIONS
1	To Zero or to Hold Control Inputs With Lossy Links?. IEEE Transactions on Automatic Control, 2009, 54, 1093-1099.	5.7	242
2	A Review of Distributed Fibre Optic Sensors for Geo-Hydrological Applications. Applied Sciences (Switzerland), 2017, 7, 896.	2.5	152
3	Distributed optical fibre sensing for early detection of shallow landslides triggering. Scientific Reports, 2017, 7, 14686.	3.3	91
4	A web-based platform for automatic and continuous landslide monitoring: The Rotolon (Eastern Tj ETQq0 0 0 rgBT/Overlock 10 Tf 50 6	4.2	44
5	Distributed optical fiber pressure sensors. Optical Fiber Technology, 2020, 58, 102239.	2.7	43
6	Fiber optic sensor for hydrostatic pressure and temperature measurement in riverbanks monitoring. Optics and Laser Technology, 2016, 82, 57-62.	4.6	35
7	Distributed strain measurements in a CFA pile using high spatial resolution fibre optic sensors. Engineering Structures, 2018, 160, 554-565.	5.3	35
8	Highly Sensitive FBG Pressure Sensor Based on a 3D-Printed Transducer. Journal of Lightwave Technology, 2019, 37, 4784-4790.	4.6	32
9	An Optical Fiber Distributed Pressure Sensing Cable With Pa-Sensitivity and Enhanced Spatial Resolution. IEEE Sensors Journal, 2020, 20, 5900-5908.	4.7	22
10	A Rugged FBG-Based Pressure Sensor for Water Level Monitoring in Dikes. IEEE Sensors Journal, 2021, 21, 13263-13271.	4.7	22
11	Application of a high resolution distributed temperature sensor in a physical model reproducing subsurface water flow. Measurement: Journal of the International Measurement Confederation, 2017, 98, 321-324.	5.0	20
12	Reflectometric measurement of birefringence rotation in single-mode optical fibers. Optics Letters, 2008, 33, 2284.	3.3	19
13	Distributed Polarization-Mode-Dispersion Measurement in Fiber Links by Polarization-Sensitive Reflectometric Techniques. IEEE Photonics Technology Letters, 2008, 20, 1944-1946.	2.5	19
14	Composite Anchors for Slope Stabilisation: Monitoring of their In-Situ Behaviour with Optical Fibre. Geosciences (Switzerland), 2019, 9, 240.	2.2	19
15	An optical fiber-based monitoring system to study the seepage flow below the landside toe of a river levee. Journal of Civil Structural Health Monitoring, 2021, 11, 691-705.	3.9	17
16	New Perspectives in Landslide Displacement Detection Using Sentinel-1 Datasets. Remote Sensing, 2019, 11, 2135.	4.0	16
17	Hands-On Experience of Crowdsourcing for Flood Risks. An Android Mobile Application Tested in Frederikssund, Denmark. International Journal of Environmental Research and Public Health, 2018, 15, 1926.	2.6	15
18	Simplified phenomenological model for randomly birefringent strongly spun fibers. Optics Letters, 2006, 31, 2275.	3.3	14

#	ARTICLE	IF	CITATIONS
19	Polarization properties of randomly-birefringent spun fibers. <i>Optical Fiber Technology</i> , 2006, 12, 205-216.	2.7	13
20	Polarized Backward Raman Amplification in Unidirectionally Spun Fibers. <i>IEEE Photonics Technology Letters</i> , 2008, 20, 27-29.	2.5	11
21	Fundamental and Random Birefringence Limitations to Delay in Slow Light Fiber Parametric Amplification. <i>Journal of Lightwave Technology</i> , 2008, 26, 3721-3726.	4.6	10
22	Repeated ETRTs in a Complex Stratified Geological Setting: High-Resolution Thermal Conductivity Identification by Multiple Linear Regression. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2022, 148, .	3.0	9
23	Reflectometric Characterization of Hinges in Optical Fiber Links. <i>IEEE Photonics Technology Letters</i> , 2008, 20, 854-856.	2.5	7
24	On the use of OFDR for high-spatial resolution strain measurements in mechanical and geotechnical engineering. , 2018, , .		6
25	Soil thermal conductivity from early TRT logs using an active hybrid optic fibre system. , 2018, , .		6
26	About the Differential Group Delay of Spun Fibers. <i>Journal of Lightwave Technology</i> , 2008, 26, 3660-3668.	4.6	5
27	Single-Pump Parametric Amplification in Randomly Birefringent Unidirectionally Spun Fibers. <i>IEEE Photonics Technology Letters</i> , 2010, 22, 73-75.	2.5	5
28	Multidisciplinary Analysis and Modelling of a River Embankment Affected by Piping. <i>Lecture Notes in Civil Engineering</i> , 2019, , 234-244.	0.4	5
29	A Monitoring Network to Map and Assess Landslide Activity in a Highly Anthropized Area. <i>Geosciences (Switzerland)</i> , 2016, 6, 40.	2.2	4
30	Drive-by-Wi-Fi: Model-Based Control Over Wireless at 1 kHz. <i>IEEE Transactions on Control Systems Technology</i> , 2022, 30, 1078-1089.	5.2	4
31	Distributed acoustic sensing of debris flows in a physical model. , 2021, , .		4
32	Polarization Mode Dispersion Management Using Unidirectionally Spun Fibers. <i>Journal of Lightwave Technology</i> , 2006, 24, 3976-3981.	4.6	3
33	Influence of the birefringence autocorrelation function on the polarization mode dispersion of constantly spun fibers. <i>Optics Letters</i> , 2007, 32, 3236.	3.3	3
34	Characterization of a novel dual-core elliptical hollow optical fiber with wavelength decreasing differential group delay. <i>Optics Express</i> , 2010, 18, 20344.	3.4	3
35	Design and field testing of a fiber optic pressure sensor for underground water level monitoring. , 2019, , .		3
36	The Role of Anisotropy in Few-Mode Optical Fibers. , 2013, , .		3

#	ARTICLE	IF	CITATIONS
37	Distributed fiber optics strain sensors: from long to short distance. Comptes Rendus - Geoscience, 2022, 354, 161-183.	1.2	3
38	Narrow Band Optical Parametric Amplification for Slow Light in Randomly Birefringent Fibers. , 2008, , .		2
39	Unidirectionally spun fibers for efficient narrow-band parametric amplification. , 2009, , .		2
40	Design, estimation and experimental validation of optical Polarization Mode Dispersion Compensator in 40 Gbit/s NRZ and RZ optical systems. Optical Fiber Technology, 2009, 15, 242-250.	2.7	2
41	Rockfall precursor detection based on rock fracturing monitoring by means of optical fibre sensors. International Journal of Sustainable Materials and Structural Systems, 2013, 1, 123.	0.1	2
42	An optical fibre cable for distributed pressure sensing: a proof of concept. , 2019, , .		2
43	1 kHz Remote Control of a Balancing Robot with Wi-Fi-in-the-Loop. IFAC-PapersOnLine, 2020, 53, 2614-2619.	0.9	2
44	Fundamental limit of the achievable time delay in Slow-light NB-OPA. , 2008, , .		1
45	Polarization control for slow and fast light in fiber optical, Raman-assisted, parametric amplification. Comptes Rendus Physique, 2009, 10, 980-990.	0.9	1
46	Improving the sensitivity of an interferometric fiber optic sensor for acoustic detection in rockfalls. , 2014, , .		1
47	Semi-auxetic optical fibre distributed load sensor. , 2016, , .		0
48	Distributed Sensing in Geotechnical and Hydrological Applications. , 2018, , .		0
49	Monitoring the Foundation Soil of an Existing Levee Using Distributed Temperature Fiber Optic Sensors. Springer Series in Geomechanics and Geoen지니어ing, 2018, , 677-680.	0.1	0