Andrea Galtarossa

List of Publications by Year in Descending Order

32 papers	337 citations	13 h-index	17 g-index
39 ext. papers	461 ext. citations	3.1 avg, IF	3.56 L-index

#	Paper	IF	Citations
32	Unified coupled-mode theory for geometric and material perturbations in optical waveguides. *Journal of Lightwave Technology*, **2022**, 1-1	4	0
31	The Characterization of Optical Fibers for Distributed Cryogenic Temperature Monitoring. *Sensors*, **2022**, 22, 4009	3.8	0
30	Model-Aware Deep Learning Method for Raman Amplification in Few-Mode Fibers. *Journal of Lightwave Technology*, **2021**, 39, 1371-1380	4	5
29	Experimental characterization of group and phase delays induced by bending and twisting in multi-core fibers. *Optics Letters*, **2021**, 46, 2674-2677	3	1
28	A Rugged FBG-Based Pressure Sensor for Water Level Monitoring in Dikes. *IEEE Sensors Journal*, **2021**, 21, 13263-13271	4	7
27	An Optical Fiber Distributed Pressure Sensing Cable With Pa-Sensitivity and Enhanced Spatial Resolution. *IEEE Sensors Journal*, **2020**, 20, 5900-5908	4	13
26	. *Journal of Lightwave Technology*, **2020**, 38, 4843-4849	4	2
25	Distributed optical fiber pressure sensors. *Optical Fiber Technology*, **2020**, 58, 102239	2.4	15
24	Highly Sensitive FBG Pressure Sensor Based on a 3D-Printed Transducer. *Journal of Lightwave Technology*, **2019**, 37, 4784-4790	4	16
23	Design and field testing of a fiber optic pressure sensor for underground water level monitoring **2019**,		2
22	High-frequency high-resolution distributed acoustic sensing by optical frequency domain reflectometry. *Optics Express*, **2019**, 27, 13923-13933	3.3	12
21	Robustness of the projection method for an asymmetrically deformed planar antenna array. *Microwave and Optical Technology Letters*, **2019**, 61, 167-172	1.2	1
20	Main Lobe Control of a Beam Tilting Antenna Array Laid on a Deformable Surface. *International Journal of Antennas and Propagation*, **2018**, 2018, 1-6	1.2	4
19	On the use of OFDR for high-spatial resolution strain measurements in mechanical and geotechnical engineering **2018**,		2
18	Distributed Characterization of Few-Mode Fibers Based on Optical Frequency Domain Reflectometry **2018**,		1
17	Distributed optical fibre sensing for early detection of shallow landslides triggering. *Scientific Reports*, **2017**, 7, 14686	4.9	53
16	Fiber optic sensor for hydrostatic pressure and temperature measurement in riverbanks monitoring. *Optics and Laser Technology*, **2016**, 82, 57-62	4.2	26

List of Publications

15	Cryogenic-temperature profiling of high-power superconducting lines using local and distributed optical-fiber sensors. *Optics Letters*, **2015**, 40, 4424-7	3	23
14	Distributed Polarization-Sensitive Reflectometry in Nonreciprocal Single-Mode Optical Fibers. *Journal of Lightwave Technology*, **2011**, 29, 3178-3184	4	23
13	Spin-profile characterization in randomly birefringent spun fibers by means of frequency-domain reflectometry. *Optics Letters*, **2009**, 34, 1078-80	3	15
12	Accurate Characterization of Twist-Induced Optical Activity in Single-Mode Fibers by Means of Polarization-Sensitive Reflectometry. *IEEE Photonics Technology Letters*, **2009**, 21, 1713-1715	2.2	16
11	Reflectometric measurement of birefringence rotation in single-mode optical fibers. *Optics Letters*, **2008**, 33, 2284-6	3	13
10	Distributed Polarization-Mode-Dispersion Measurement in Fiber Links by Polarization-Sensitive Reflectometric Techniques. *IEEE Photonics Technology Letters*, **2008**, 20, 1944-1946	2.2	12
9	Polarized Backward Raman Amplification in Unidirectionally Spun Fibers. *IEEE Photonics Technology Letters*, **2008**, 20, 27-29	2.2	7
8	About the Differential Group Delay of Spun Fibers. *Journal of Lightwave Technology*, **2008**, 26, 3660-3668	4	4
7	Reflectometric Characterization of Hinges in Fiber Optic Links **2008**,		1
6	Influence of the birefringence autocorrelation function on the polarization mode dispersion of constantly spun fibers. *Optics Letters*, **2007**, 32, 3236-8	3	3
5	Simplified phenomenological model for randomly birefringent strongly spun fibers. *Optics Letters*, **2006**, 31, 2275-7	3	13
4	Polarization Mode Dispersion Management Using Unidirectionally Spun Fibers. *Journal of Lightwave Technology*, **2006**, 24, 3976-3981	4	2
3	Polarized Backward Raman Amplification in Randomly Birefringent Fibers. *Journal of Lightwave Technology*, **2006**, 24, 4055-4063	4	20
2	Low-PMD spun fibers. *Journal of Optical and Fiber Communications Research*, **2004**, 1, 32-62		4
1	Polarization mode dispersion properties of constantly spun randomly birefringent fibers. *Optics Letters*, **2003**, 28, 1639-41	3	21