Alessandro Pozzebon

List of Publications by Citations

75 papers	677 citations	14 h-index	22 g-index
87 ext. papers	968 ext. citations	3.5 avg, IF	4.78 L-index

#	Paper	IF	Citations
75	A Low Power IoT Sensor Node Architecture for Waste Management Within Smart Cities Context. *Sensors*, **2018**, 18,	3.8	68
74	A Multi-Hop LoRa Linear Sensor Network for the Monitoring of Underground Environments: The Case of the Medieval Aqueducts in Siena, Italy. *Sensors*, **2019**, 19,	3.8	39
73	. *IEEE Transactions on Instrumentation and Measurement*, **2018**, 67, 722-730	5.2	39
72	A city-scale IoT architecture for monumental structures monitoring. *Measurement: Journal of the International Measurement Confederation*, **2019**, 131, 349-357	4.6	29
71	Radio Frequency Identification (RFID) technology applied to the definition of underwater and subaerial coarse sediment movement. *Sedimentary Geology*, **2010**, 228, 140-150	2.8	26
70	A Biochemical Approach to Detect Oxidative Stress in Infertile Women Undergoing Assisted Reproductive Technology Procedures. *International Journal of Molecular Sciences*, **2018**, 19,	6.3	25
69	Universal characteristics of particle shape evolution by bed-load chipping. *Science Advances*, **2018**, 4, eaao4946	14.3	23
68	Low Power Wide Area Networks (LPWAN) at Sea: Performance Analysis of Offshore Data Transmission by Means of LoRaWAN Connectivity for Marine Monitoring Applications. *Sensors*, **2019**, 19,	3.8	22
67	Impressive abrasion rates of marked pebbles on a coarse-clastic beach within a 13-month timespan. *Marine Geology*, **2016**, 381, 175-180	3.3	20
66	On the displacement of marked pebbles on two coarse-clastic beaches during short fair-weather periods (Marina di Pisa and Portonovo, Italy). *Geo-Marine Letters*, **2013**, 33, 463-476	1.9	18
65	Measurement of Angular Vibrations in Rotating Shafts: Effects of the Measurement Setup Nonidealities. *IEEE Transactions on Instrumentation and Measurement*, **2013**, 62, 532-543	5.2	18
64	A 3D virtual tour of the Santa Maria della Scala Museum Complex in Siena, Italy, based on the use of Oculus Rift HMD **2015**,		17
63	Short term displacements of marked pebbles in the swash zone: Focus on particle shape and size. *Marine Geology*, **2015**, 367, 143-158	3.3	16
62	A Low-Cost Unmanned Surface Vehicle for Pervasive Water Quality Monitoring. *IEEE Transactions on Instrumentation and Measurement*, **2020**, 69, 1433-1444	5.2	16
61	A Review of Energy Harvesting Techniques for Low Power Wide Area Networks (LPWANs). *Energies*, **2020**, 13, 3433	3.1	14
60	A Wireless Sensor Network for the Real-Time Remote Measurement of Aeolian Sand Transport on Sandy Beaches and Dunes. *Sensors*, **2018**, 18,	3.8	13
59	An IoT Framework for the Pervasive Monitoring of Chemical Emissions in Industrial Plants **2018**,		13

58	. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, **2012**, 5, 1474-1482	4.7	13
57	Influence of particle shape on pebble transport in a mixed sand and gravel beach during low energy conditions: Implications for nourishment projects. *Ocean and Coastal Management*, **2019**, 169, 171-181	3.9	13
56	An RFID Based System for the Underwater Tracking of Pebbles on Artificial Coarse Beaches **2009**,		11
55	Architecture of a hydroelectrically powered wireless sensor node for underground environmental monitoring. *IET Wireless Sensor Systems*, **2017**, 7, 123-129	1.6	10
54	Battery-Less HF RFID Sensor Tag for Soil Moisture Measurements. *IEEE Transactions on Instrumentation and Measurement*, **2021**, 70, 1-13	5.2	10
53	LoRaWAN vs NB-IoT: Transmission Performance Analysis within Critical Environments. *IEEE Internet of Things Journal*, **2021**, 1-1	10.7	10
52	Augmented Virtuality for Coastal Management: A Holistic Use of In Situ and Remote Sensing for Large Scale Definition of Coastal Dynamics. *ISPRS International Journal of Geo-Information*, **2018**, 7, 92	2.9	10
51	Availability modeling of a safe communication system for rolling stock applications **2013**,		9
50	An analysis on the use of LF RFID for the tracking of different typologies of pebbles on beaches **2011**,		9
49	On the safety design of radar based railway level crossing surveillance systems. *Acta IMEKO (2012)*, **2016**, 5, 64	2	9
48	A Multi-Layer LoRaWAN Infrastructure for Smart Waste Management. *Sensors*, **2021**, 21,	3.8	9
47	. *IEEE Transactions on Instrumentation and Measurement*, **2021**, 70, 1-10	5.2	9
46	LoRaWAN Underground to Aboveground Data Transmission Performances for Different Soil Compositions. *IEEE Transactions on Instrumentation and Measurement*, **2021**, 70, 1-13	5.2	9
45	A LoRaWAN Network Infrastructure for the Remote Monitoring of Offshore Sea Farms **2020**,		8
44	A low power IoT architecture for the monitoring of chemical emissions. *Acta IMEKO (2012)*, **2019**, 8, 53	2	8
43	Interoperability among Sub-GHz Technologies for Metallic Assets Tracking and Monitoring **2020**,		8
42	LoRaWAN Performances for Underground to Aboveground Data Transmission **2020**,		7
41	Bringing near field communication under water: short range data exchange in fresh and salt water **2015**,		7

40	Low-cost power gating solution to increase energy efficiency optimising duty cycling in wireless sensor nodes with power-hungry sensors. *IET Wireless Sensor Systems*, **2019**, 9, 25-31	1.6	6
39	A LoRa-based IoT Sensor Node for Waste Management Based on a Customized Ultrasonic Transceiver **2019**,		5
38	A Wireless Sensor Network Framework for Real-Time Monitoring of Height and Volume Variations on Sandy Beaches and Dunes. *ISPRS International Journal of Geo-Information*, **2018**, 7, 141	2.9	5
37	Near Field Communication and Health: Turning a Mobile Phone into an Interactive Multipurpose Assistant in Healthcare Scenarios. *Communications in Computer and Information Science*, **2010**, 356-368	0.3	5
36	Black Powder Flow Monitoring in Pipelines by Means of Multi-Hop LoRa Networks **2019**,		4
35	Distributed UPS control systems reliability analysis. *Measurement: Journal of the International Measurement Confederation*, **2017**, 110, 275-283	4.6	4
34	A Characterization System for Bearing Condition Monitoring Sensors, a Case Study with a Low Power Wireless Triaxial MEMS Based Sensor **2020**,		4
33	Smart Sensing in Mobility: a LoRaWAN Architecture for Pervasive Environmental Monitoring **2019**,		4
32	Target measurements influence on level crossing detection system safety determination. *Measurement: Journal of the International Measurement Confederation*, **2019**, 135, 547-554	4.6	4
31	An Analysis of the Performances of Low Frequency Cylinder Glass Tags for the Underwater Tracking of Pebbles on a Natural Beach **2012**,		3
30	Providing Energy Self-Sufficiency to LoRaWAN Nodes by Means of Thermoelectric Generators (TEGs)-Based Energy Harvesting. *Energies*, **2021**, 14, 7322	3.1	3
29	LoRaWAN in Motion: Preliminary Tests for Real Time Low Power Data Gathering from Vehicles **2021**,		3
28	A wearable Low-cost Measurement System for Estimation of Human Exposure to Vibrations **2019**,		3
27	Performance Analysis of an AlN Humidity Sensor based on TiO2 nanoparticles **2019**,		3
26	A LoRaWAN Carbon Monoxide Measurement System With Low-Power Sensor Triggering for the Monitoring of Domestic and Industrial Boilers. *IEEE Transactions on Instrumentation and Measurement*, **2021**, 70, 1-9	5.2	3
25	Integrating RFID Transponders as Data Loggers in Wireless Sensor Nodes for Outdoor Remote Monitoring Operations. *International Journal of Wireless Information Networks*, **2015**, 22, 399-406	1.9	2
24	Heterogeneous Wireless Sensor Network for Real Time Remote Monitoring of Sand Dynamics on Coastal Dunes. *IOP Conference Series: Earth and Environmental Science*, **2016**, 44, 042030	0.3	2
23	Smart devices for Intangible Cultural Heritage fruition **2015**,		2

22	Target measurements influence on level crossing detection system safety assessment **2017**,		2
21	Combining LoRaWAN and NB-IoT for Edge-to-Cloud Low Power Connectivity Leveraging on Fog Computing. *Applied Sciences (Switzerland)*, **2022**, 12, 1497	2.6	2
20	LoPATraN: Low Power Asset Tracking by Means of Narrow Band IoT (NB-IoT) Technology. *Sensors*, **2021**, 21,	3.8	2
19	Magnetic brakes material characterization under accelerated testing conditions. *Reliability Engineering and System Safety*, **2020**, 193, 106614	6.3	2
18	Places Speaking with Their Own Voices. A Case Study from the Gra.fo Archives. *Lecture Notes in Computer Science*, **2016**, 232-239	0.9	1
17	An Integrated System for Real-Time Water Monitoring Based on Low Cost Unmanned Surface Vehicles **2019**,		1
16	A wireless waterproof RFID reader for marine sediment localization and tracking **2014**,		1
15	Possible configurations and geometries of long range HF RFID antenna gates **2009**,		1
14	Pervasive Wireless Sensor Networks for the Monitoring of Large Monumental Structures: The Case of the Ancient City Walls of Siena. *Lecture Notes in Computer Science*, **2016**, 669-678	0.9	1
13	Data Transmission from ATEX Boxes by Means of LoRa Technology for Industrial Internet of Things (IIoT) Applications **2021**,		1
12	LoRaWAN Transmission System Capability Assessment in Industrial Environment Under Temperature and Humidity Characterization **2021**,		1
11	Condition Monitoring with LoRaWAN: Preliminary Tests on Gas Turbine Exciters **2021**,		1
10	Vulnerability Assessment of a Coastal Dune System at São Francisco do Sul Island, Santa Catarina, Brazil. *IOP Conference Series: Earth and Environmental Science*, **2016**, 44, 052028	0.3	1
9	Watermill principle applied to energy harvesting for sensor nodes in underground environments **2016**,		1
8	A geometrical approach for the measurement of the volume of masses of granular material through grid-layout sensor networks. *Measurement: Journal of the International Measurement Confederation*, **2020**, 151, 107102	4.6	1
7	IoT Multi-Hop Facilities via LoRa Modulation and LoRa WanProtocol within Thin Linear Networks **2021**,		1
6	Assessment of LoRaWAN Transmission Systems under Temperature and Humidity, Gas and Vibration Ageing Effects within IIoT Contexts. *IEEE Transactions on Instrumentation and Measurement*, **2021**, 1-1	5.2	0
5	Project and Realization of a Wide-Range High-Frequency RFID Gate Allowing Omnidirectional Detection of Transponders. *ISRN Communications and Networking*, **2012**, 2012, 1-11		0

4	The Effect of Au Nanoparticle Addition on Humidity Sensing with Ultra-Small TiO2 Nanoparticles. *Chemosensors*, **2021**, 9, 170	4	0
3	Development of a Self-Sufficient LoRaWAN Sensor Node with Flexible and Glass Dye-Sensitized Solar Cell Modules Harvesting Energy from Diffuse Low-Intensity Solar Radiation. *Energies*, **2022**, 15, 1635	3.1	0
2	Underwater to above water LoRaWAN networking: Theoretical analysis and field tests. *Measurement: Journal of the International Measurement Confederation*, **2022**, 111140	4.6	0
1	Exploiting Agriculture as an Intangible Cultural Heritage: The Case of the Farfalla Project. *Lecture Notes in Computer Science*, **2016**, 130-137	0.9	