

# Alessandro Pozzebon

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Combining LoRaWAN and NB-IoT for Edge-to-Cloud Low Power Connectivity Leveraging on Fog Computing. <i>Applied Sciences (Switzerland)</i> , <b>2022</b> , 12, 1497	2.6	2
74	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. <i>Energies</i> , <b>2022</b> , 15, 1635	3.1	0
73	Underwater to above water LoRaWAN networking: Theoretical analysis and field tests. <i>Measurement: Journal of the International Measurement Confederation</i> , <b>2022</b> , 111140	4.6	0
72	Providing Energy Self-Sufficiency to LoRaWAN Nodes by Means of Thermoelectric Generators (TEGs)-Based Energy Harvesting. <i>Energies</i> , <b>2021</b> , 14, 7322	3.1	3
71	Assessment of LoRaWAN Transmission Systems under Temperature and Humidity, Gas and Vibration Ageing Effects within IIoT Contexts. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2021</b> , 1-1	5.2	0
70	A Multi-Layer LoRaWAN Infrastructure for Smart Waste Management. <i>Sensors</i> , <b>2021</b> , 21,	3.8	9
69	Data Transmission from ATEX Boxes by Means of LoRa Technology for Industrial Internet of Things (IIoT) Applications <b>2021</b> ,		1
68	LoRaWAN Transmission System Capability Assessment in Industrial Environment Under Temperature and Humidity Characterization <b>2021</b> ,		1
67	LoPATraN: Low Power Asset Tracking by Means of Narrow Band IoT (NB-IoT) Technology. <i>Sensors</i> , <b>2021</b> , 21,	3.8	2
66	Condition Monitoring with LoRaWAN: Preliminary Tests on Gas Turbine Exciters <b>2021</b> ,		1
65	The Effect of Au Nanoparticle Addition on Humidity Sensing with Ultra-Small TiO <sub>2</sub> Nanoparticles. <i>Chemosensors</i> , <b>2021</b> , 9, 170	4	0
64	LoRaWAN in Motion: Preliminary Tests for Real Time Low Power Data Gathering from Vehicles <b>2021</b> ,		3
63	. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2021</b> , 70, 1-10	5.2	9
62	A LoRaWAN Carbon Monoxide Measurement System With Low-Power Sensor Triggering for the Monitoring of Domestic and Industrial Boilers. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2021</b> , 70, 1-9	5.2	3
61	Battery-Less HF RFID Sensor Tag for Soil Moisture Measurements. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2021</b> , 70, 1-13	5.2	10
60	LoRaWAN vs NB-IoT: Transmission Performance Analysis within Critical Environments. <i>IEEE Internet of Things Journal</i> , <b>2021</b> , 1-1	10.7	10
59	IoT Multi-Hop Facilities via LoRa Modulation and LoRa WanProtocol within Thin Linear Networks <b>2021</b> ,		1

58	LoRaWAN Underground to Aboveground Data Transmission Performances for Different Soil Compositions. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2021</b> , 70, 1-13	5.2	9
57	LoRaWAN Performances for Underground to Aboveground Data Transmission <b>2020</b> ,		7
56	A LoRaWAN Network Infrastructure for the Remote Monitoring of Offshore Sea Farms <b>2020</b> ,		8
55	A Low-Cost Unmanned Surface Vehicle for Pervasive Water Quality Monitoring. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2020</b> , 69, 1433-1444	5.2	16
54	A Characterization System for Bearing Condition Monitoring Sensors, a Case Study with a Low Power Wireless Triaxial MEMS Based Sensor <b>2020</b> ,		4
53	A Review of Energy Harvesting Techniques for Low Power Wide Area Networks (LPWANs). <i>Energies</i> , <b>2020</b> , 13, 3433	3.1	14
52	Interoperability among Sub-GHz Technologies for Metallic Assets Tracking and Monitoring <b>2020</b> ,		8
51	A geometrical approach for the measurement of the volume of masses of granular material through grid-layout sensor networks. <i>Measurement: Journal of the International Measurement Confederation</i> , <b>2020</b> , 151, 107102	4.6	1
50	Magnetic brakes material characterization under accelerated testing conditions. <i>Reliability Engineering and System Safety</i> , <b>2020</b> , 193, 106614	6.3	2
49	Black Powder Flow Monitoring in Pipelines by Means of Multi-Hop LoRa Networks <b>2019</b> ,		4
48	A Multi-Hop LoRa Linear Sensor Network for the Monitoring of Underground Environments: The Case of the Medieval Aqueducts in Siena, Italy. <i>Sensors</i> , <b>2019</b> , 19,	3.8	39
47	A LoRa-based IoT Sensor Node for Waste Management Based on a Customized Ultrasonic Transceiver <b>2019</b> ,		5
46	Low-cost power gating solution to increase energy efficiency optimising duty cycling in wireless sensor nodes with power-hungry sensors. <i>IET Wireless Sensor Systems</i> , <b>2019</b> , 9, 25-31	1.6	6
45	An Integrated System for Real-Time Water Monitoring Based on Low Cost Unmanned Surface Vehicles <b>2019</b> ,		1
44	Low Power Wide Area Networks (LPWAN) at Sea: Performance Analysis of Offshore Data Transmission by Means of LoRaWAN Connectivity for Marine Monitoring Applications. <i>Sensors</i> , <b>2019</b> , 19,	3.8	22
43	A low power IoT architecture for the monitoring of chemical emissions. <i>Acta IMEKO (2012)</i> , <b>2019</b> , 8, 53	2	8
42	A wearable Low-cost Measurement System for Estimation of Human Exposure to Vibrations <b>2019</b> ,		3
41	Performance Analysis of an AlN Humidity Sensor based on TiO <sub>2</sub> nanoparticles <b>2019</b> ,		3

40	Smart Sensing in Mobility: a LoRaWAN Architecture for Pervasive Environmental Monitoring <b>2019</b> ,		4
39	A city-scale IoT architecture for monumental structures monitoring. <i>Measurement: Journal of the International Measurement Confederation</i> , <b>2019</b> , 131, 349-357	4.6	29
38	Influence of particle shape on pebble transport in a mixed sand and gravel beach during low energy conditions: Implications for nourishment projects. <i>Ocean and Coastal Management</i> , <b>2019</b> , 169, 171-181	3.9	13
37	Target measurements influence on level crossing detection system safety determination. <i>Measurement: Journal of the International Measurement Confederation</i> , <b>2019</b> , 135, 547-554	4.6	4
36	. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2018</b> , 67, 722-730	5.2	39
35	Universal characteristics of particle shape evolution by bed-load chipping. <i>Science Advances</i> , <b>2018</b> , 4, eaao4946	14.3	23
34	A Wireless Sensor Network Framework for Real-Time Monitoring of Height and Volume Variations on Sandy Beaches and Dunes. <i>ISPRS International Journal of Geo-Information</i> , <b>2018</b> , 7, 141	2.9	5
33	A Biochemical Approach to Detect Oxidative Stress in Infertile Women Undergoing Assisted Reproductive Technology Procedures. <i>International Journal of Molecular Sciences</i> , <b>2018</b> , 19,	6.3	25
32	A Low Power IoT Sensor Node Architecture for Waste Management Within Smart Cities Context. <i>Sensors</i> , <b>2018</b> , 18,	3.8	68
31	A Wireless Sensor Network for the Real-Time Remote Measurement of Aeolian Sand Transport on Sandy Beaches and Dunes. <i>Sensors</i> , <b>2018</b> , 18,	3.8	13
30	An IoT Framework for the Pervasive Monitoring of Chemical Emissions in Industrial Plants <b>2018</b> ,		13
29	Augmented Virtuality for Coastal Management: A Holistic Use of In Situ and Remote Sensing for Large Scale Definition of Coastal Dynamics. <i>ISPRS International Journal of Geo-Information</i> , <b>2018</b> , 7, 92	2.9	10
28	Architecture of a hydroelectrically powered wireless sensor node for underground environmental monitoring. <i>IET Wireless Sensor Systems</i> , <b>2017</b> , 7, 123-129	1.6	10
27	Target measurements influence on level crossing detection system safety assessment <b>2017</b> ,		2
26	Distributed UPS control systems reliability analysis. <i>Measurement: Journal of the International Measurement Confederation</i> , <b>2017</b> , 110, 275-283	4.6	4
25	Exploiting Agriculture as an Intangible Cultural Heritage: The Case of the Farfalla Project. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 130-137	0.9	
24	Places Speaking with Their Own Voices. A Case Study from the Gra.fo Archives. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 232-239	0.9	1
23	Heterogeneous Wireless Sensor Network for Real Time Remote Monitoring of Sand Dynamics on Coastal Dunes. <i>IOP Conference Series: Earth and Environmental Science</i> , <b>2016</b> , 44, 042030	0.3	2

22	On the safety design of radar based railway level crossing surveillance systems. <i>Acta IMEKO (2012)</i> , <b>2016</b> , 5, 64	2	9
21	Pervasive Wireless Sensor Networks for the Monitoring of Large Monumental Structures: The Case of the Ancient City Walls of Siena. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 669-678	0.9	1
20	Vulnerability Assessment of a Coastal Dune System at Sã Francisco do Sul Island, Santa Catarina, Brazil. <i>IOP Conference Series: Earth and Environmental Science</i> , <b>2016</b> , 44, 052028	0.3	1
19	Impressive abrasion rates of marked pebbles on a coarse-clastic beach within a 13-month timespan. <i>Marine Geology</i> , <b>2016</b> , 381, 175-180	3.3	20
18	Watermill principle applied to energy harvesting for sensor nodes in underground environments <b>2016</b> ,		1
17	Integrating RFID Transponders as Data Loggers in Wireless Sensor Nodes for Outdoor Remote Monitoring Operations. <i>International Journal of Wireless Information Networks</i> , <b>2015</b> , 22, 399-406	1.9	2
16	Smart devices for Intangible Cultural Heritage fruition <b>2015</b> ,		2
15	Short term displacements of marked pebbles in the swash zone: Focus on particle shape and size. <i>Marine Geology</i> , <b>2015</b> , 367, 143-158	3.3	16
14	Bringing near field communication under water: short range data exchange in fresh and salt water <b>2015</b> ,		7
13	A 3D virtual tour of the Santa Maria della Scala Museum Complex in Siena, Italy, based on the use of Oculus Rift HMD <b>2015</b> ,		17
12	A wireless waterproof RFID reader for marine sediment localization and tracking <b>2014</b> ,		1
11	On the displacement of marked pebbles on two coarse-clastic beaches during short fair-weather periods (Marina di Pisa and Portonovo, Italy). <i>Geo-Marine Letters</i> , <b>2013</b> , 33, 463-476	1.9	18
10	Measurement of Angular Vibrations in Rotating Shafts: Effects of the Measurement Setup Nonidealities. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2013</b> , 62, 532-543	5.2	18
9	Availability modeling of a safe communication system for rolling stock applications <b>2013</b> ,		9
8	An Analysis of the Performances of Low Frequency Cylinder Glass Tags for the Underwater Tracking of Pebbles on a Natural Beach <b>2012</b> ,		3
7	. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , <b>2012</b> , 5, 1474-1482	4.7	13
6	Project and Realization of a Wide-Range High-Frequency RFID Gate Allowing Omnidirectional Detection of Transponders. <i>ISRN Communications and Networking</i> , <b>2012</b> , 2012, 1-11		0
5	An analysis on the use of LF RFID for the tracking of different typologies of pebbles on beaches <b>2011</b> ,		9

4	Radio Frequency Identification (RFID) technology applied to the definition of underwater and subaerial coarse sediment movement. <i>Sedimentary Geology</i> , <b>2010</b> , 228, 140-150	2.8	26
3	Near Field Communication and Health: Turning a Mobile Phone into an Interactive Multipurpose Assistant in Healthcare Scenarios. <i>Communications in Computer and Information Science</i> , <b>2010</b> , 356-368	0.3	5
2	An RFID Based System for the Underwater Tracking of Pebbles on Artificial Coarse Beaches <b>2009</b> ,		11
1	Possible configurations and geometries of long range HF RFID antenna gates <b>2009</b> ,		1