Alessandro Pozzebon

List of Publications by Year
in descending order

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86	1,242	361388	454934
papers	citations	20 h-index	30 g-index

87	87	87	1128
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A Low Power IoT Sensor Node Architecture for Waste Management Within Smart Cities Context. Sensors, 2018, 18, 1282.	3.8	107
2	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, 402.	3.8	74
3	A Low-Cost Unmanned Surface Vehicle for Pervasive Water Quality Monitoring. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 1433-1444.	4.7	55
4	Quartz-Crystal Microbalance Gas Sensors Based on TiO₂Nanoparticles. IEEE Transactions on Instrumentation and Measurement, 2018, 67, 722-730.	4.7	52
5	A Biochemical Approach to Detect Oxidative Stress in Infertile Women Undergoing Assisted Reproductive Technology Procedures. International Journal of Molecular Sciences, 2018, 19, 592.	4.1	39
6	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, 3239.	3.8	38
7	A city-scale IoT architecture for monumental structures monitoring. Measurement: Journal of the International Measurement Confederation, 2019, 131, 349-357.	5.0	38
8	Radio Frequency Identification (RFID) technology applied to the definition of underwater and subaerial coarse sediment movement. Sedimentary Geology, 2010, 228, 140-150.	2.1	37
9	LoRaWAN Versus NB-IoT: Transmission Performance Analysis Within Critical Environments. IEEE Internet of Things Journal, 2022, 9, 1068-1081.	8.7	33
10	Universal characteristics of particle shape evolution by bed-load chipping. Science Advances, 2018, 4, eaao4946.	10.3	32
11	A Review of Energy Harvesting Techniques for Low Power Wide Area Networks (LPWANs). Energies, 2020, 13, 3433.	3.1	31
12	Short term displacements of marked pebbles in the swash zone: Focus on particle shape and size. Marine Geology, 2015, 367, 143-158.	2.1	27
13	A 3D virtual tour of the Santa Maria della Scala Museum Complex in Siena, Italy, based on the use of Oculus Rift HMD. , 2015, , .		26
14	Battery-Less HF RFID Sensor Tag for Soil Moisture Measurements. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-13.	4.7	26
15	A Multi-Layer LoRaWAN Infrastructure for Smart Waste Management. Sensors, 2021, 21, 2600.	3.8	26
16	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.	1.1	25
17	Impressive abrasion rates of marked pebbles on a coarse-clastic beach within a 13-month timespan. Marine Geology, 2016, 381, 175-180.	2.1	25
18	LoRaWAN Underground to Aboveground Data Transmission Performances for Different Soil Compositions. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-13.	4.7	23

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19	An RFID-Based Toolbox for the Study of Under- and Outside-Water Movement of Pebbles on Coarse-Grained Beaches. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2012, 5, 1474-1482.	4.9	22
20	Measurement of Angular Vibrations in Rotating Shafts: Effects of the Measurement Setup Nonidealities. IEEE Transactions on Instrumentation and Measurement, 2013, 62, 532-543.	4.7	22
21	A Wireless Sensor Network for the Real-Time Remote Measurement of Aeolian Sand Transport on Sandy Beaches and Dunes. Sensors, 2018, 18, 820.	3.8	21
22	Offshore LoRaWAN Networking: Transmission Performances Analysis Under Different Environmental Conditions. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-10.	4.7	20
23	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.	4.4	19
24	A LoRaWAN Network Infrastructure for the Remote Monitoring of Offshore Sea Farms. , 2020, , .		19
25	An IoT Framework for the Pervasive Monitoring of Chemical Emissions in Industrial Plants. , 2018, , .		18
26	An RFID Based System for the Underwater Tracking of Pebbles on Artificial Coarse Beaches. , 2009, , .		16
27	A LoRa-based IoT Sensor Node for Waste Management Based on a Customized Ultrasonic Transceiver. , 2019, , .		16
28	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	14
29	An analysis on the use of LF RFID for the tracking of different typologies of pebbles on beaches. , 2011, , .		13
30	Availability modeling of a safe communication system for rolling stock applications. , 2013, , .		13
31	Interoperability among Sub-GHz Technologies for Metallic Assets Tracking and Monitoring. , 2020, , .		13
32	LoRaWAN Performances for Underground to Aboveground Data Transmission. , 2020, , .		13
33	A wearable Low-cost Measurement System for Estimation of Human Exposure to Vibrations. , 2019, , .		12
34	On the safety design of radar based railway level crossing surveillance systems. Acta IMEKO (2012), 2016, 5, 64.	0.7	12
35	Designing a Reliable and Low-Latency LoRaWAN Solution for Environmental Monitoring in Factories at Major Accident Risk. Sensors, 2022, 22, 2372.	3.8	12
36	Bringing near field communication under water: short range data exchange in fresh and salt water. , 2015, , .		11

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37	Architecture of a hydroelectrically powered wireless sensor node for underground environmental monitoring. IET Wireless Sensor Systems, 2017, 7, 123-129.	1.7	11
38	A Characterization System for Bearing Condition Monitoring Sensors, a Case Study with a Low Power Wireless Triaxial MEMS Based Sensor. , 2020, , .		11
39	Combining LoRaWAN and NB-IoT for Edge-to-Cloud Low Power Connectivity Leveraging on Fog Computing. Applied Sciences (Switzerland), 2022, 12, 1497.	2.5	11
40	Black Powder Flow Monitoring in Pipelines by Means of Multi-Hop LoRa Networks. , 2019, , .		10
41	Smart Sensing in Mobility: a LoRaWAN Architecture for Pervasive Environmental Monitoring. , 2019, , .		10
42	Distributed UPS control systems reliability analysis. Measurement: Journal of the International Measurement Confederation, 2017, 110, 275-283.	5.0	9
43	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	9
44	Quasi-Real Time Remote Video Surveillance Unit for LoRaWAN-based Image Transmission. , 2021, , .		9
45	A low power IoT architecture for the monitoring of chemical emissions. Acta IMEKO (2012), 2019, 8, 53.	0.7	9
46	LoPATraN: Low Power Asset Tracking by Means of Narrow Band IoT (NB-IoT) Technology. Sensors, 2021, 21, 3772.	3.8	8
47	IoT Multi-Hop Facilities via LoRa Modulation and LoRa WanProtocol within Thin Linear Networks. , 2021, , .		8
48	Lowâ€cost power gating solution to increase energy efficiency optimising duty cycling in wireless sensor nodes with powerâ€hungry sensors. IET Wireless Sensor Systems, 2019, 9, 25-31.	1.7	7
49	LoRaWAN in Motion: Preliminary Tests for Real Time Low Power Data Gathering from Vehicles. , 2021, , .		7
50	Providing Energy Self-Sufficiency to LoRaWAN Nodes by Means of Thermoelectric Generators (TEGs)-Based Energy Harvesting. Energies, 2021, 14, 7322.	3.1	7
51	Autonomous IoT Monitoring Matching Spectral Artificial Light Manipulation for Horticulture. Sensors, 2022, 22, 4046.	3.8	7
52	An Analysis of the Performances of Low Frequency Cylinder Glass Tags for the Underwater Tracking of Pebbles on a Natural Beach. , 2012, , .		6
53	Performance Analysis of an AlN Humidity Sensor based on TiO₂ nanoparticles. , 2019, , .		6
54	Using the I2C bus to set up Long Range Wired Sensor and Actuator Networks in Smart Buildings. , 2019, , .		6

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55	Target measurements influence on level crossing detection system safety determination. Measurement: Journal of the International Measurement Confederation, 2019, 135, 547-554.	5.0	6
56	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.	4.7	6
57	The Effect of Au Nanoparticle Addition on Humidity Sensing with Ultra-Small TiO2 Nanoparticles. Chemosensors, 2021, 9, 170.	3.6	6
58	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.	0.5	6
59	Underwater to above water LoRaWAN networking: Theoretical analysis and field tests. Measurement: Journal of the International Measurement Confederation, 2022, 196, 111140.	5.0	6
60	Possible configurations and geometries of long range HF RFID antenna gates. , 2009, , .		5
61	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	5
62	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.	5.0	5
63	LoRaWAN Transmission System Capability Assessment in Industrial Environment Under Temperature and Humidity Characterization. , 2021, , .		5
64	Assessment of LoRaWAN Transmission Systems Under Temperature and Humidity, Gas, and Vibration Aging Effects Within IIoT Contexts. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-11.	4.7	5
65	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.	2.7	4
66	Smart devices for Intangible Cultural Heritage fruition. , 2015, , .		3
67	An Integrated System for Real-Time Water Monitoring Based on Low Cost Unmanned Surface Vehicles. , 2019, , .		3
68	Magnetic brakes material characterization under accelerated testing conditions. Reliability Engineering and System Safety, 2020, 193, 106614.	8.9	3
69	Pilot Analysis on Soil Moisture Impact on Underground to Aboveground LoRaWAN Transmissions for IoUT Contexts. , 2021, , .		3
70	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	3
71	A wireless waterproof RFID reader for marine sediment localization and tracking. , 2014, , .		2
72	Places Speaking with Their Own Voices. A Case Study from the Gra.fo Archives. Lecture Notes in Computer Science, 2016, , 232-239.	1.3	2

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73	Target measurements influence on level crossing detection system safety assessment. , 2017, , .		2
74	The PITAGORA project: Near field communication to improve passenger experience in airports. , 2017, , .		2
75	Solar energy harvesting for LoRaWAN-based pervasive environmental monitoring. Acta IMEKO (2012), 2021, 10, 111.	0.7	2
76	Vulnerability Assessment of a Coastal Dune System at SÃ£o Francisco do Sul Island, Santa Catarina, Brazil. IOP Conference Series: Earth and Environmental Science, 2016, 44, 052028.	0.3	1
77	Watermill principle applied to energy harvesting for sensor nodes in underground environments. , 2016, , .		1
78	Data Transmission from ATEX Boxes by Means of LoRa Technology for Industrial Internet of Things (IIoT) Applications. , 2021, , .		1
79	Condition Monitoring with LoRaWAN: Preliminary Tests on Gas Turbine Exciters. , 2021, , .		1
80	Polycrystalline silicon photovoltaic harvesting for indoor IoT systems under red- far red artificial light. , 2021, , .		1
81	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.	1.3	1
82	Project and Realization of a Wide-Range High-Frequency RFID Gate Allowing Omnidirectional Detection of Transponders. ISRN Communications and Networking, 2012, 2012, 1-11.	0.5	1
83	Exploiting Agriculture as an Intangible Cultural Heritage: The Case of the Farfalla Project. Lecture Notes in Computer Science, 2016, , 130-137.	1.3	0
84	Madmenâ€™s Voices: Discovering Former Psychiatric Hospitals via Mobile Application. , 2018, , .		0
85	Long Range (LoRa) Transmission Through Ice: Preliminary Results. , 2021, , .		0
86	Health monitoring and wellness for all, a multichannel approach through innovative interfaces and systems. , 2012, , .		0