

Vincenzo Marletta

List of Publications by Year in descending order

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Version: 2024-02-01

111
papers

1,118
citations

430874

18
h-index

477307

29
g-index

114
all docs

114
docs citations

114
times ranked

938
citing authors

#	ARTICLE	IF	CITATIONS
1	A bistable buckled beam based approach for vibrational energy harvesting. Sensors and Actuators A: Physical, 2014, 211, 153-161.	4.1	98
2	A Multisensor Data-Fusion Approach for ADL and Fall classification. IEEE Transactions on Instrumentation and Measurement, 2016, 65, 1960-1967.	4.7	78
3	Low-Cost Inkjet Printing Technology for the Rapid Prototyping of Transducers. Sensors, 2017, 17, 748.	3.8	68
4	A Haptic Solution to Assist Visually Impaired in Mobility Tasks. IEEE Transactions on Human-Machine Systems, 2015, 45, 641-646.	3.5	53
5	An Event Polarized Paradigm for ADL Detection in AAL Context. IEEE Transactions on Instrumentation and Measurement, 2015, 64, 1814-1825.	4.7	47
6	A Low-Cost Snap-Through-Buckling Inkjet-Printed Device for Vibrational Energy Harvesting. IEEE Sensors Journal, 2015, 15, 3209-3220.	4.7	41
7	A Sensing Architecture for Mutual User-Environment Awareness Case of Study: A Mobility Aid for the Visually Impaired. IEEE Sensors Journal, 2011, 11, 634-640.	4.7	39
8	A Low-Cost Accelerometer Developed by Inkjet Printing Technology. IEEE Transactions on Instrumentation and Measurement, 2016, 65, 1242-1248.	4.7	39
9	Exploiting Nonlinear Dynamics in Novel Measurement Strategies and Devices: From Theory to Experiments and Applications. IEEE Transactions on Instrumentation and Measurement, 2011, 60, 667-695.	4.7	36
10	A BE-SOI MEMS for Inertial Measurement in Geophysical Applications. IEEE Transactions on Instrumentation and Measurement, 2011, 60, 1901-1908.	4.7	35
11	Investigation of a Nonlinear Energy Harvester. IEEE Transactions on Instrumentation and Measurement, 2017, 66, 1067-1075.	4.7	32
12	Performance Investigation of a Nonlinear Energy Harvester With Random Vibrations and Subthreshold Deterministic Signals. IEEE Transactions on Instrumentation and Measurement, 2017, 66, 992-1001.	4.7	27
13	A Wearable Device to Support the Pull Test for Postural Instability Assessment in Parkinson's Disease. IEEE Transactions on Instrumentation and Measurement, 2018, 67, 218-228.	4.7	23
14	Experimental and Theoretical Investigation of a Nonlinear Vibrational Energy Harvester. Procedia Engineering, 2015, 120, 1024-1027.	1.2	21
15	A Novel Sensing Methodology to Detect Furfural in Water, Exploiting MIPs, and Inkjet-Printed Optical Waveguides. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 1582-1589.	4.7	21
16	A Magnetic Field Sensor Based on SPR-POF Platforms and Ferrofluids. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-10.	4.7	21
17	A double piezo — Snap through buckling device for energy harvesting. , 2013, , .		20
18	An advanced tracking solution fully based on native sensing features of smartphone. , 2014, , .		19

#	ARTICLE	IF	CITATIONS
19	A Nonlinear Electric Field Sensor That Exploits Coupled Oscillator Dynamics: The Charge Collection Mechanism. IEEE Transactions on Instrumentation and Measurement, 2013, 62, 1326-1333.	4.7	18
20	A Low-Threshold Bistable Device for Energy Scavenging From Wideband Mechanical Vibrations. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 280-290.	4.7	18
21	A Measurement Strategy to Assess the Optimal Design of an RFID-Based Navigation Aid. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 2356-2362.	4.7	18
22	A Measurement System to Monitor Postural Behavior: Strategy Assessment and Classification Rating. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 8020-8031.	4.7	18
23	A wireless sensor node powered by nonlinear energy harvester. , 2014, , .		15
24	Innovative Smart Sensing Solutions for the Visually Impaired. , 2011, , 60-74.		15
25	An All-Inkjet Printed Bending Actuator with Embedded Sensing Feature and an Electromagnetic Driving Mechanism. Actuators, 2016, 5, 21.	2.3	14
26	Direct Printing of a Multi-Layer Sensor on Pet Substrate for CO2 Detection. Energies, 2019, 12, 557.	3.1	13
27	A Ferroelectric-Capacitor-Based Approach to Quasistatic Electric Field Sensing. IEEE Transactions on Instrumentation and Measurement, 2010, 59, 641-652.	4.7	12
28	RESIMA: A new WSN based paradigm to assist weak people in indoor environment. , 2013, , .		12
29	Selective Measurement of Volcanic Ash Flow-Rate. IEEE Transactions on Instrumentation and Measurement, 2014, 63, 1356-1363.	4.7	10
30	Modeling a Nonlinear Harvester for Low Energy Vibrations. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 1619-1627.	4.7	10
31	A smart multisensor system for volcanic ash fall-out monitoring. Sensors and Actuators A: Physical, 2013, 202, 13-22.	4.1	9
32	A contactless inkjet printed passive touch sensor. , 2014, , .		9
33	Measurement of Wave Near-Bed Velocity and Bottom Shear Stress by Ferrofluids. IEEE Transactions on Instrumentation and Measurement, 2015, 64, 1224-1231.	4.7	9
34	An Introduction to Indoor Localization Techniques. Case of Study: A Multi-Trilateration-Based Localization System with User-Environment Interaction Feature. Applied Sciences (Switzerland), 2021, 11, 7392.	2.5	9
35	NATIFLife-A Smart Sensor Network for Assistive Domotics. , 2019, , .		8
36	A Magnetic Fluid-Based Inclinometer Embedding an Optical Readout Strategy: Modeling and Characterization. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 5922-5929.	4.7	8

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37	A multi-user assistive system for the user safety monitoring in care facilities. , 2015, , .		7
38	A Measurement Methodology for the Characterization of a Compensated Nonlinear Energy Harvester for Vertical Operation. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 3032-3041.	4.7	7
39	A Nonlinear Energy Harvester Operated in the Stochastic Resonance Regime for Signal Detection/Measurement Applications. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 5930-5940.	4.7	7
40	E-field ferroelectric sensors: Modeling and simulation [Instrumentation Notes]. IEEE Instrumentation and Measurement Magazine, 2009, 12, 31-37.	1.6	6
41	An inkjet printed seismic sensor. , 2015, , .		6
42	A ferrofluid-based sensor to measure bottom shear stresses under currents and waves. Journal of Hydraulic Research/De Recherches Hydrauliques, 2018, 56, 630-647.	1.7	6
43	A Short-Range Inertial Sensor Exploiting Magnetic Levitation and an Inductive Readout Strategy. IEEE Transactions on Instrumentation and Measurement, 2018, 67, 1238-1245.	4.7	6
44	Life after graduation: IoT: Forecasts, challenges and opportunities. IEEE Instrumentation and Measurement Magazine, 2019, 22, 76-77.	1.6	6
45	A mixed inertial & RF-ID orientation tool for the visually impaired. , 2009, , .		5
46	A Fluxgate-Based Approach for Ion Beam Current Measurement in ECRIS Beamline: Design and Preliminary Investigations. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 1477-1484.	4.7	5
47	An Assistive Technology Solution for User Activity Monitoring Exploiting Passive RFID. Sensors, 2020, 20, 4954.	3.8	5
48	A Methodology for the Development of Low-Cost, Flexible Touch Sensor for Application in Assistive Technology. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-10.	4.7	5
49	A Wavelet-Based Methodology for Features Extraction in Postural Instability Analysis. , 2021, , .		5
50	A distributed sensor network approach for orientation tasks. , 2009, , .		4
51	RESIMA: Adaptive paradigms for the user localization in indoor environments. , 2015, , .		4
52	Nonlinear Snap-Through-Buckling Devices for Energy Harvesting from Vibrations. Lecture Notes in Electrical Engineering, 2015, , 409-413.	0.4	4
53	All Inkjet-Printed B Field Sensor. Proceedings (mdpi), 2017, 1, 621.	0.2	4
54	Polymeric Transducers: An Inkjet Printed B-Field Sensor with Resistive Readout Strategy. Sensors, 2019, 19, 5318.	3.8	4

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55	A review of vibrational energy harvesters underpinned by a flexible snap-through buckling beam. IEEE Instrumentation and Measurement Magazine, 2020, 23, 34-41.	1.6	4
56	Toward a Self-Powered Vibration Sensor: The Signal Processing Strategy. Energies, 2021, 14, 754.	3.1	4
57	ADL Detection for the Active Ageing of Elderly People. Biosystems and Biorobotics, 2015, , 287-294.	0.3	4
58	An Electronic Cane with a Haptic Interface for Mobility Tasks. Biosystems and Biorobotics, 2015, , 189-200.	0.3	4
59	A Smart Multisensor System for the Ash Fall-Out Monitoring. Procedia Engineering, 2012, 47, 766-769.	1.2	3
60	A smart multisensor system for volcanic ash fall-out monitoring. Sensors and Actuators A: Physical, 2013, 194, 52.	4.1	3
61	Ferrofluid measurements of bottom velocities and shear stresses. Journal of Hydrodynamics, 2015, 27, 150-158.	3.2	3
62	Advanced Solutions Aimed at the Monitoring of Falls and Human Activities for the Elderly Population. Technologies, 2019, 7, 59.	5.1	3
63	A sensing platform for postural behavior assessment. , 2019, , .		3
64	Towards Plastic Optical Fiber Magnetic Field Sensors exploiting Magnetic Fluids and Multimode SPR-POF platforms. , 2020, , .		3
65	Fall & ADL Detection Methodologies for AAL. Lecture Notes in Electrical Engineering, 2015, , 427-431.	0.4	3
66	Intelligent Sensing Solutions for AAL. Lecture Notes in Electrical Engineering, 2014, , 321-324.	0.4	3
67	RESIMA"An Assistive System for Visual Impaired in Indoor Environment. Biosystems and Biorobotics, 2015, , 179-187.	0.3	3
68	A Vision-Based Approach for the Analysis of Core Characteristics of Volcanic Ash. Sensors, 2021, 21, 7180.	3.8	3
69	An inkjet printed sensor for load measurement. , 2014, , .		2
70	A Nonlinear Energy Harvesting with Asymmetry Compensation. Proceedings (mdpi), 2017, 1, .	0.2	2
71	Design and Characterization of a Pressure Sensor Based on FBG on Steel Substrate. Proceedings (mdpi), 2019, 15, .	0.2	2
72	A smart inertial system for fall detection. Journal of Ambient Intelligence and Humanized Computing, 2021, 12, 4503-4511.	4.9	2

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73	A Low Cost Inkjet-Printed Mass Sensor Using a Frequency Readout Strategy. <i>Sensors</i> , 2021, 21, 4878.	3.8	2
74	A Tilt Compensated Haptic Cane for Obstacle Detection. <i>Lecture Notes in Electrical Engineering</i> , 2017, , 141-151.	0.4	2
75	Molecularly Imprinted Polymers and Inkjet-Printer technology to develop Optical-Chemical Sensors. , 2022, , .		2
76	A BE-SOI MEMS for inertial measurement in geophysical applications. , 2010, , .		1
77	Effects of charge collectors in ferroelectric E-field sensors. , 2012, , .		1
78	Smart homecare technologies for the visually impaired: recent advances. <i>Smart Homecare Technology and Telehealth</i> , 2014, , 9.	0.3	1
79	A multisensor data fusion approach for the volcanic ash granulometry classification. , 2014, , .		1
80	Measurement of bottom velocities and shear stresses by ferrofluids at the sea bottom. , 2014, , .		1
81	Investigation of a Nonlinear Vibrational Energy Harvester in the Stochastic Resonance Regime. <i>Proceedings (mdpi)</i> , 2018, 2, 1092.	0.2	1
82	An Optical Inclinometer Exploiting Magnetic Fluids. <i>Proceedings (mdpi)</i> , 2018, 2, 764.	0.2	1
83	No fear! [After Life Graduation]. <i>IEEE Instrumentation and Measurement Magazine</i> , 2018, 21, 60-61.	1.6	1
84	A Nonlinear Harvester to Scavenge Energy from Rotational Motion. , 2019, , .		1
85	Life after graduation: The answer from the measurement sector. <i>IEEE Instrumentation and Measurement Magazine</i> , 2020, 23, 33-34.	1.6	1
86	A Ferrofluid-Based Tuning Strategy for Flexible Accelerometers. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021, 70, 1-9.	4.7	1
87	A Novel Vision-Based Approach for the Classification of Volcanic Ash Granulometry. <i>Engineering Proceedings</i> , 2021, 6, 28.	0.4	1
88	A Novel Tracking System for AAL Based on Smartphone Technology. , 2014, , 243-250.		1
89	A Time Domain Readout strategy flow sensor. , 2014, , .		0
90	Strategies for the optimal classification of volcanic ash granulometry. , 2015, , .		0

#	ARTICLE	IF	CITATIONS
91	The SECESTA project: an overview. , 2015, , .		0
92	Modeling Investigation of a Nonlinear Vibrational Energy Harvester. Lecture Notes in Electrical Engineering, 2018, , 249-257.	0.4	0
93	An Unknown Territory to Explore!. IEEE Instrumentation and Measurement Magazine, 2018, 21, 32-32.	1.6	0
94	Life after graduation: Whatever country you visit, (common) I&M applications you will find. IEEE Instrumentation and Measurement Magazine, 2019, 22, 60-61.	1.6	0
95	Life after graduation: The new SI is here!. IEEE Instrumentation and Measurement Magazine, 2019, 22, 48-49.	1.6	0
96	Life after graduation: Development of an automatic measurement system: A lab experience. IEEE Instrumentation and Measurement Magazine, 2019, 22, 59-60.	1.6	0
97	Brief thoughts about the I&M in cars. IEEE Instrumentation and Measurement Magazine, 2019, 22, 17-18.	1.6	0
98	Life after graduation: Experiences with polymers. IEEE Instrumentation and Measurement Magazine, 2019, 22, 73-74.	1.6	0
99	Plastic Optical Fiber Sensors and Magnetic Fluids: Plasmonic Tunability and Sensing properties for Measurements. , 2020, , .		0
100	Life after graduation: Instrumentation and measurements and human care. IEEE Instrumentation and Measurement Magazine, 2020, 23, 77-78.	1.6	0
101	A PPG-ECG Combo System for the Monitoring of the Aging State of Arteries. , 2020, , .		0
102	Life after graduation: Nonlinear dynamics can be useful. IEEE Instrumentation and Measurement Magazine, 2020, 23, 64-65.	1.6	0
103	Magnetic Field Detection by an SPR Plastic Optical Fiber Sensor and Ferrofluids. Lecture Notes in Electrical Engineering, 2021, , 63-68.	0.4	0
104	A High-Resolution Fully Inkjet Printed Resonant Mass Sensor. Engineering Proceedings, 2021, 6, 9.	0.4	0
105	An Integrated Platform of Smart Objects Supporting the Quality of Life of Frail People. , 2021, , .		0
106	A "Multisensor Guide System" to Assist Visually Impaired in Unfamiliar Environments. , 2009, , .		0
107	A Disposable Ammonia Sensor by Low-Cost Ink-Jet Printing Technology. Lecture Notes in Electrical Engineering, 2014, , 133-137.	0.4	0
108	A Smart Inertial Pattern for the SUMMIT IoT Multi-platform. Lecture Notes in Electrical Engineering, 2019, , 311-319.	0.4	0

#	ARTICLE	IF	CITATIONS
109	Life After Graduation. IEEE Instrumentation and Measurement Magazine, 2020, 23, 65-66.	1.6	0
110	Optical Chemical Sensing Exploiting Inkjet Printing Technology and Molecularly Imprinted Polymers. Lecture Notes in Electrical Engineering, 2020, , 71-74.	0.4	0
111	A Measurement Approach to Validate the Predicted Behavior of a Nonlinear Mechanical Energy Harvester. , 2022, , .		0