

Bruno Ando'

List of Publications by Year in descending order

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Version: 2024-02-01

72
papers

1,333
citations

304743

22
h-index

377865

34
g-index

72
all docs

72
docs citations

72
times ranked

1108
citing authors

#	ARTICLE	IF	CITATIONS
1	A Capacitive Sensor, Exploiting a YSZ Functional Layer, for Ammonia Detection. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-11.	4.7	5
2	A Measurement Approach to Validate the Predicted Behavior of a Nonlinear Mechanical Energy Harvester. , 2022, , .		0
3	Molecularly Imprinted Polymers and Inkjet-Printer technology to develop Optical-Chemical Sensors. , 2022, , .		2
4	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
5	A Ferrofluid-Based Tuning Strategy for Flexible Accelerometers. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-9.	4.7	1
6	Magnetic Field Detection by an SPR Plastic Optical Fiber Sensor and Ferrofluids. Lecture Notes in Electrical Engineering, 2021, , 63-68.	0.4	0
7	Toward a Self-Powered Vibration Sensor: The Signal Processing Strategy. Energies, 2021, 14, 754.	3.1	4
8	An Introduction to Patterns for the Internet of Robotic Things in the Ambient Assisted Living Scenario. Robotics, 2021, 10, 56.	3.5	5
9	A High-Resolution Fully Inkjet Printed Resonant Mass Sensor. Engineering Proceedings, 2021, 6, 9.	0.4	0
10	A Novel Vision-Based Approach for the Classification of Volcanic Ash Granulometry. Engineering Proceedings, 2021, 6, 28.	0.4	1
11	A Low Cost Inkjet-Printed Mass Sensor Using a Frequency Readout Strategy. Sensors, 2021, 21, 4878.	3.8	2
12	An Introduction to Indoor Localization Techniques. Case of Study: A Multi-Trilateration-Based Localization System with Userâ€™Environment Interaction Feature. Applied Sciences (Switzerland), 2021, 11, 7392.	2.5	9
13	A Capacitive Readout Strategy for Ammonia Detection: Design Flow, Modeling and Simulation. , 2021, , .		4
14	A Magnetic Field Sensor Based on SPR-POF Platforms and Ferrofluids. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-10.	4.7	21
15	A Vision-Based Approach for the Analysis of Core Characteristics of Volcanic Ash. Sensors, 2021, 21, 7180.	3.8	3
16	Plastic Optical Fiber Sensors and Magnetic Fluids: Plasmonic Tunability and Sensing properties for Measurements. , 2020, , .		0
17	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
18	A PPG-ECG Combo System for the Monitoring of the Aging State of Arteries. , 2020, , .		0

#	ARTICLE	IF	CITATIONS
19	Towards Plastic Optical Fiber Magnetic Field Sensors exploiting Magnetic Fluids and Multimode SPR-POF platforms. , 2020, , .		3
20	A Magnetic Fluid-Based Incliner Embedding an Optical Readout Strategy: Modeling and Characterization. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 5922-5929.	4.7	8
21	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
22	Special Section on Sensors Applications Symposium. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 1431-1432.	4.7	0
23	Optical Chemical Sensing Exploiting Inkjet Printing Technology and Molecularly Imprinted Polymers. Lecture Notes in Electrical Engineering, 2020, , 71-74.	0.4	0
24	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
25	Advanced Solutions Aimed at the Monitoring of Falls and Human Activities for the Elderly Population. Technologies, 2019, 7, 59.	5.1	3
26	NATIFLife-A Smart Sensor Network for Assistive Domotics. , 2019, , .		8
27	A sensing platform for postural behavior assessment. , 2019, , .		3
28	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
29	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
30	A Nonlinear Harvester to Scavenge Energy from Rotational Motion. , 2019, , .		1
31	Polymeric Transducers: An Inkjet Printed B-Field Sensor with Resistive Readout Strategy. Sensors, 2019, 19, 5318.	3.8	4
32	Modeling a Nonlinear Harvester for Low Energy Vibrations. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 1619-1627.	4.7	10
33	Low-order Nonlinear Finite-Impulse Response Soft Sensors for Ionic Electroactive Actuators Based on Deep Learning. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 1637-1646.	4.7	41
34	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
35	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
36	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

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37	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
38	Investigation of a Nonlinear Vibrational Energy Harvester in the Stochastic Resonance Regime. Proceedings (mdpi), 2018, 2, 1092.	0.2	1
39	An Optical Inclinometer Exploiting Magnetic Fluids. Proceedings (mdpi), 2018, 2, 764.	0.2	1
40	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
41	Telemetric Technique for Wireless Strain Measurement From an Inkjet-Printed Resistive Sensor. IEEE Transactions on Instrumentation and Measurement, 2017, 66, 583-591.	4.7	16
42	Low-Cost Inkjet Printing Technology for the Rapid Prototyping of Transducers. Sensors, 2017, 17, 748.	3.8	68
43	A Multisensor Data-Fusion Approach for ADL and Fall classification. IEEE Transactions on Instrumentation and Measurement, 2016, 65, 1960-1967.	4.7	78
44	Investigations into a Planar Inductive Readout Strategy for the Monitoring of Ferrofluid Carriers. IEEE Transactions on Instrumentation and Measurement, 2016, 65, 201-207.	4.7	4
45	A Low-Cost Accelerometer Developed by Inkjet Printing Technology. IEEE Transactions on Instrumentation and Measurement, 2016, 65, 1242-1248.	4.7	39
46	A Low-Cost Snap-Through-Buckling Inkjet-Printed Device for Vibrational Energy Harvesting. IEEE Sensors Journal, 2015, 15, 3209-3220.	4.7	41
47	An Event Polarized Paradigm for ADL Detection in AAL Context. IEEE Transactions on Instrumentation and Measurement, 2015, 64, 1814-1825.	4.7	47
48	Ferrofluid measurements of bottom velocities and shear stresses. Journal of Hydrodynamics, 2015, 27, 150-158.	3.2	3
49	A novel inclinometer exploiting magnetic fluids and an IR readout strategy. , 2015, , .		4
50	Selective Measurement of Volcanic Ash Flow-Rate. IEEE Transactions on Instrumentation and Measurement, 2014, 63, 1356-1363.	4.7	10
51	An advanced tracking solution fully based on native sensing features of smartphone. , 2014, , .		19
52	RESIMA: An Assistive Paradigm to Support Weak People in Indoor Environments. IEEE Transactions on Instrumentation and Measurement, 2014, 63, 2522-2528.	4.7	26
53	Diode-less mechanical H-bridge rectifier for "zero threshold" vibration energy harvesters. Sensors and Actuators A: Physical, 2013, 201, 246-253.	4.1	44
54	A Low-Cost, Disposable, and Contactless Resonant Mass Sensor. IEEE Transactions on Instrumentation and Measurement, 2013, 62, 246-252.	4.7	6

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55	All-Inkjet Printed Strain Sensors. IEEE Sensors Journal, 2013, 13, 4874-4879.	4.7	80
56	A smart wireless sensor network for AAL. , 2011, , .		30
57	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
58	Inkjet-printed sensors: a useful approach for low cost, rapid prototyping [Instrumentation Notes]. IEEE Instrumentation and Measurement Magazine, 2011, 14, 36-40.	1.6	70
59	A BE-SOI MEMS for Inertial Measurement in Geophysical Applications. IEEE Transactions on Instrumentation and Measurement, 2011, 60, 1901-1908.	4.7	35
60	Innovative Smart Sensing Solutions for the Visually Impaired. , 2011, , 60-74.		15
61	A Ferrofluidic Inertial Sensor Exploiting the Rosensweig Effect. IEEE Transactions on Instrumentation and Measurement, 2010, 59, 1471-1476.	4.7	23
62	Multisensor Strategies to Assist Blind People: A Clear-Path Indicator. IEEE Transactions on Instrumentation and Measurement, 2009, 58, 2488-2494.	4.7	53
63	Ferrofluidic Pumps: A Valuable Implementation Without Moving Parts. IEEE Transactions on Instrumentation and Measurement, 2009, 58, 3232-3237.	4.7	28
64	The "One drop" ferrofluidic pump with analog control. Sensors and Actuators A: Physical, 2009, 156, 251-256.	4.1	23
65	A Ferrofluidic Actuator Governed by AC Fields. Sensor Letters, 2009, 7, 356-359.	0.4	6
66	A Novel Ferrofluidic Inclinometer. IEEE Transactions on Instrumentation and Measurement, 2007, 56, 1114-1123.	4.7	48
67	Magnetic Fluids and Their Use in Transducers. IEEE Instrumentation and Measurement Magazine, 2006, 9, 44-47.	1.6	37
68	Coupling-induced cooperative behaviour in dynamic ferromagnetic cores in the presence of a noise floor. Physics Letters, Section A: General, Atomic and Solid State Physics, 2006, 353, 4-10.	2.1	24
69	An advanced video-based system for monitoring active volcanoes. Computers and Geosciences, 2006, 32, 85-91.	4.2	42
70	Complex behavior in driven unidirectionally coupled overdamped Duffing elements. Physical Review E, 2006, 73, 066121.	2.1	37
71	"Residence times difference" fluxgate. Measurement: Journal of the International Measurement Confederation, 2005, 38, 89-112.	5.0	21
72	Optimal improvement in bistable measurement device performance via stochastic resonance. International Journal of Electronics, 1999, 86, 791-806.	1.4	22