

# Salvatore Baglio

## List of Publications by Year in descending order

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Version: 2024-02-01

260  
papers

3,870  
citations

147801

31  
h-index

182427

51  
g-index

267  
all docs

267  
docs citations

267  
times ranked

2660  
citing authors

#	ARTICLE	IF	CITATIONS
1	Lead-Free LiNbO <sub>3</sub> Thick Film MEMS Kinetic Cantilever Beam Sensor/Energy Harvester. <i>Sensors</i> , 2022, 22, 559.	3.8	7
2	A Capacitive Sensor, Exploiting a YSZ Functional Layer, for Ammonia Detection. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2022, 71, 1-11.	4.7	5
3	A Measurement Approach to Validate the Predicted Behavior of a Nonlinear Mechanical Energy Harvester. , 2022, , .		0
4	A Methodology for the Development of Low-Cost, Flexible Touch Sensor for Application in Assistive Technology. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021, 70, 1-10.	4.7	5
5	A smart inertial system for fall detection. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2021, 12, 4503-4511.	4.9	2
6	A Ferrofluid-Based Tuning Strategy for Flexible Accelerometers. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021, 70, 1-9.	4.7	1
7	Magnetic Field Detection by an SPR Plastic Optical Fiber Sensor and Ferrofluids. <i>Lecture Notes in Electrical Engineering</i> , 2021, , 63-68.	0.4	0
8	Toward a Self-Powered Vibration Sensor: The Signal Processing Strategy. <i>Energies</i> , 2021, 14, 754.	3.1	4
9	A High-Resolution Fully Inkjet Printed Resonant Mass Sensor. <i>Engineering Proceedings</i> , 2021, 6, 9.	0.4	0
10	A Novel Vision-Based Approach for the Classification of Volcanic Ash Granulometry. <i>Engineering Proceedings</i> , 2021, 6, 28.	0.4	1
11	Investigation of a 100 Åµm Magnetic Wire for Temperature Sensing based on a Time Domain Readout. , 2021, , .		3
12	A Wavelet-Based Methodology for Features Extraction in Postural Instability Analysis. , 2021, , .		5
13	An electromagnetic/magnetolectric transducer based on nonlinear RMSHI circuit for energy harvesting and sensing. <i>Measurement: Journal of the International Measurement Confederation</i> , 2021, 177, 109307.	5.0	8
14	An Integrated Platform of Smart Objects Supporting the Quality of Life of Frail People. , 2021, , .		0
15	A Low Cost Inkjet-Printed Mass Sensor Using a Frequency Readout Strategy. <i>Sensors</i> , 2021, 21, 4878.	3.8	2
16	An Introduction to Indoor Localization Techniques. Case of Study: A Multi-Trilateration-Based Localization System with User-Environment Interaction Feature. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 7392.	2.5	9
17	A Capacitive Readout Strategy for Ammonia Detection: Design Flow, Modeling and Simulation. , 2021, , .		4
18	A Magnetic Field Sensor Based on SPR-POF Platforms and Ferrofluids. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021, 70, 1-10.	4.7	21

#	ARTICLE	IF	CITATIONS
19	Conception of a Temperature Sensor Based on 100- $\hat{\text{I}}\frac{1}{4}\text{m}$ CoFeSiB Ferromagnetic Wire. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-8.	4.7	4
20	A Vision-Based Approach for the Analysis of Core Characteristics of Volcanic Ash. Sensors, 2021, 21, 7180.	3.8	3
21	Characterization of a PiezoMUMPs Microsensor for Contactless Measurements of DC Electrical Current. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 1387-1396.	4.7	3
22	An Assistive Technology Solution for User Activity Monitoring Exploiting Passive RFID. Sensors, 2020, 20, 4954.	3.8	5
23	Characterization of a smart transducer for axial force measurements in vibrating environments. Measurement: Journal of the International Measurement Confederation, 2020, 166, 108157.	5.0	5
24	Exploitation of Temperature Effect in 100 $\hat{\text{A}}\mu\text{m}$ Ferromagnetic Wire. , 2020, , .		3
25	Plastic Optical Fiber Sensors and Magnetic Fluids: Plasmonic Tunability and Sensing properties for Measurements. , 2020, , .		0
26	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
27	A PPG-ECG Combo System for the Monitoring of the Aging State of Arteries. , 2020, , .		0
28	Towards Plastic Optical Fiber Magnetic Field Sensors exploiting Magnetic Fluids and Multimode SPR-POF platforms. , 2020, , .		3
29	A Magnetic Fluid-Based Inclinator Embedding an Optical Readout Strategy: Modeling and Characterization. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 5922-5929.	4.7	8
30	RTD-Fluxgate magnetometers for detecting iron accumulation in the brain. IEEE Instrumentation and Measurement Magazine, 2020, 23, 7-13.	1.6	5
31	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
32	Piezoelectric Beams, Magnets and Stoppers as Fundamental Blocks for Transducers and Autonomous Sensors. Lecture Notes in Electrical Engineering, 2020, , 305-308.	0.4	0
33	Optical Chemical Sensing Exploiting Inkjet Printing Technology and Molecularly Imprinted Polymers. Lecture Notes in Electrical Engineering, 2020, , 71-74.	0.4	0
34	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
35	Advanced Solutions Aimed at the Monitoring of Falls and Human Activities for the Elderly Population. Technologies, 2019, 7, 59.	5.1	3
36	NATIFLife-A Smart Sensor Network for Assistive Domotics. , 2019, , .		8

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37	A sensing platform for postural behavior assessment. , 2019, , .		3
38	Piezo Coaxial Cable for Sensing of Mechanical Vibrations. , 2019, , .		0
39	Virtual biosensors for the estimation of medical precursors. , 2019, , .		3
40	Self-generating Microsensor with Meander Architecture for Performance Enhancement in Inertial Systems. , 2019, , .		1
41	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
42	Dynamic Spatial Measurements based on a Bimorph Artificial Whisker and RTD-Fluxgate Magnetometer. , 2019, , .		1
43	Low Cost Inkjet Printed Sensors: From Physical to Chemical Sensors. Lecture Notes in Electrical Engineering, 2019, , 297-308.	0.4	1
44	Smart Transducers for Energy Scavenging and Sensing in Vibrating Environments. Lecture Notes in Electrical Engineering, 2019, , 591-598.	0.4	1
45	Measurements and Investigations of Helicopter-Induced Vibrations for Kinetic Energy Harvesters. , 2019, , .		3
46	Analysis of a Hybrid Micro-Electro-Mechanical Sensor Based on Graphene Oxide/Polyvinyl Alcohol for Humidity Measurements. Sensors, 2019, 19, 1720.	3.8	4
47	Piezoelectric Cantilevers, Magnets and Stoppers as Building Blocks for a Family of Devices Performing in Vibrationally Noisy Environments. Understanding Complex Systems, 2019, , 61-71.	0.6	1
48	Direct Printing of a Multi-Layer Sensor on Pet Substrate for CO2 Detection. Energies, 2019, 12, 557.	3.1	13
49	An Embedded Localization System for the SUMMIT IoT Multi-platform. Lecture Notes in Electrical Engineering, 2019, , 377-384.	0.4	1
50	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
51	Thermal Analysis of a Microsensor based on GO/Polyvinyl Alcohol for Humidity Measurements. , 2019, , .		2
52	Smart Nonlinear Energy Harvesting. , 2019, , .		2
53	A Nonlinear Harvester to Scavenge Energy from Rotational Motion. , 2019, , .		1
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	Modeling a Nonlinear Harvester for Low Energy Vibrations. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 1619-1627.	4.7	10
56	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
57	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
58	Fluxgate Magnetometer and Performance for Measuring Iron Compounds. Lecture Notes in Electrical Engineering, 2019, , 509-517.	0.4	0
59	A Smart Inertial Pattern for the SUMMIT IoT Multi-platform. Lecture Notes in Electrical Engineering, 2019, , 311-319.	0.4	0
60	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
61	A smart energy harvester for axial-force measurements in vibrating environments. , 2018, , .		1
62	Special Section on Sensor Applications Symposium. IEEE Transactions on Instrumentation and Measurement, 2018, 67, 734-734.	4.7	0
63	Measurements of Iron Compound Content in the Brain Using a Flexible Core Fluxgate Magnetometer at Room Temperature. IEEE Transactions on Instrumentation and Measurement, 2018, 67, 971-980.	4.7	14
64	Modeling Investigation of a Nonlinear Vibrational Energy Harvester. Lecture Notes in Electrical Engineering, 2018, , 249-257.	0.4	0
65	A Wearable Device to Support the Pull Test for Postural Instability Assessment in Parkinsonâ€™s Disease. IEEE Transactions on Instrumentation and Measurement, 2018, 67, 218-228.	4.7	23
66	Hybrid Micro Electro Mechanical Sensor Based on Graphene Oxide/Polyvinyl Alcohol for Humidity Measurements. Proceedings (mdpi), 2018, 2, .	0.2	1
67	Investigation of a Nonlinear Vibrational Energy Harvester in the Stochastic Resonance Regime. Proceedings (mdpi), 2018, 2, 1092.	0.2	1
68	An Optical Inclinometer Exploiting Magnetic Fluids. Proceedings (mdpi), 2018, 2, 764.	0.2	1
69	A Smart Sensing Architecture for Misalignment Measurements. , 2018, , .		0
70	Non-Destructive Transmissive Inductive Thickness Sensor for IoT Applications. , 2018, , .		0
71	Measurements and Analysis of Induced Vibrations in Optical Telescopes. , 2018, , .		1
72	Nonlinear electromagnetic vibration converter with bistable RMSHI for power harvesting from ambient vibration. , 2018, , 117-124.		0

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73	Development of a Smart Acceleration Measurement Unit for Industry 4.0. , 2018, , .		3
74	A novel chemical optical sensor based on molecularly imprinted polymer, optical fibers and inkjet printing technology. , 2018, , .		2
75	Electromagnetic transducer with bistable-RMSHI for energy harvesting from very weak kinetic sources. , 2018, , .		9
76	Measurements and analysis of body induced movements for kinetic energy harvesters. , 2018, , .		1
77	A low cost multi-sensor system for investigating the structural response of buildings. Annals of Geophysics, 2018, 61, .	1.0	5
78	Investigation of a Nonlinear Energy Harvester. IEEE Transactions on Instrumentation and Measurement, 2017, 66, 1067-1075.	4.7	32
79	Flexible Microwire Residence Times Difference Fluxgate Magnetometer. IEEE Transactions on Instrumentation and Measurement, 2017, 66, 559-568.	4.7	30
80	Sensors for Kinetic Energy Measurement Operating on "Zero-Current Standby". IEEE Transactions on Instrumentation and Measurement, 2017, 66, 812-820.	4.7	20
81	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
82	A PZT-based energy sensor able to store energy and transmit data. , 2017, , .		6
83	Magnetic Beads Compatibility as DNA Hybridization Labels in Integrated Thermal-Magnetic Biosensor. BioNanoScience, 2017, 7, 485-491.	3.5	0
84	Guest Editorial: Special Section on Sensor Applications Symposium. IEEE Transactions on Instrumentation and Measurement, 2017, 66, 582-582.	4.7	0
85	Inductive Integrated Biosensor With Extended Operative Range for Detection of Magnetic Beads for Magnetic Immunoassay. IEEE Transactions on Instrumentation and Measurement, 2017, 66, 348-359.	4.7	11
86	Performance Measurement Methodologies and Metrics for Vibration Energy Scavengers. IEEE Transactions on Instrumentation and Measurement, 2017, 66, 3327-3339.	4.7	8
87	A Nonlinear Energy Harvesting with Asymmetry Compensation. Proceedings (mdpi), 2017, 1, .	0.2	2
88	All Inkjet-Printed B Field Sensor. Proceedings (mdpi), 2017, 1, 621.	0.2	4
89	Low-Cost Inkjet Printing Technology for the Rapid Prototyping of Transducers. Sensors, 2017, 17, 748.	3.8	68
90	A Tilt Compensated Haptic Cane for Obstacle Detection. Lecture Notes in Electrical Engineering, 2017, , 141-151.	0.4	2

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91	Micromachined "Random Mechanical Switching Harvester on Inductor" to recovery energy from very low-amplitude vibrations with zero-voltage threshold. , 2016, , .		3
92	Guest Editorial Special Section on Sensor Applications Symposium. IEEE Transactions on Instrumentation and Measurement, 2016, 65, 734-735.	4.7	0
93	Fabrication and Characterization of an MOEMS Gyroscope Based on Photonic Bandgap Materials. IEEE Transactions on Instrumentation and Measurement, 2016, 65, 2840-2852.	4.7	9
94	A Multisensor Data-Fusion Approach for ADL and Fall classification. IEEE Transactions on Instrumentation and Measurement, 2016, 65, 1960-1967.	4.7	78
95	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
96	A Low-Cost Accelerometer Developed by Inkjet Printing Technology. IEEE Transactions on Instrumentation and Measurement, 2016, 65, 1242-1248.	4.7	39
97	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
98	A Low-Cost Snap-Through-Buckling Inkjet-Printed Device for Vibrational Energy Harvesting. IEEE Sensors Journal, 2015, 15, 3209-3220.	4.7	41
99	A distributed monitoring systems for structural early warning. , 2015, , .		1
100	A novel silicon based mags-biosensor for nucleic acid detection by magnetoelectronic transduction. Sensing and Bio-Sensing Research, 2015, 6, 85-89.	4.2	7
101	Sentinella: Smart Monitoring of Photovoltaic Systems at Panel Level. IEEE Transactions on Instrumentation and Measurement, 2015, 64, 2188-2199.	4.7	108
102	Nonlinear Snap-Through-Buckling Devices for Energy Harvesting from Vibrations. Lecture Notes in Electrical Engineering, 2015, , 409-413.	0.4	4
103	An Event Polarized Paradigm for ADL Detection in AAL Context. IEEE Transactions on Instrumentation and Measurement, 2015, 64, 1814-1825.	4.7	47
104	Ferrofluid measurements of bottom velocities and shear stresses. Journal of Hydrodynamics, 2015, 27, 150-158.	3.2	3
105	Intelligent Prodder: Implementation of Measurement Methodologies for Material Recognition and Classification With Humanitarian Demining Applications. IEEE Transactions on Instrumentation and Measurement, 2015, 64, 2217-2226.	4.7	12
106	A novel inclinometer exploiting magnetic fluids and an IR readout strategy. , 2015, , .		4
107	Seismic and gas monitoring of volcanic sites. , 2015, , .		1
108	Fall & ADL Detection Methodologies for AAL. Lecture Notes in Electrical Engineering, 2015, , 427-431.	0.4	3

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109	ADL Detection for the Active Ageing of Elderly People. Biosystems and Biorobotics, 2015, , 287-294.	0.3	4
110	RESIMA: An Assistive System for Visual Impaired in Indoor Environment. Biosystems and Biorobotics, 2015, , 179-187.	0.3	3
111	An Electronic Cane with a Haptic Interface for Mobility Tasks. Biosystems and Biorobotics, 2015, , 189-200.	0.3	4
112	Design, Fabrication, and Characterization of BESOI-Accelerometer Exploiting Photonic Bandgap Materials. IEEE Transactions on Instrumentation and Measurement, 2014, 63, 702-710.	4.7	30
113	Selective Measurement of Volcanic Ash Flow-Rate. IEEE Transactions on Instrumentation and Measurement, 2014, 63, 1356-1363.	4.7	10
114	Low Cost Inkjet Printed Sensors. Lecture Notes in Electrical Engineering, 2014, , 31-36.	0.4	3
115	A diode-less mechanical voltage multiplier: A novel transducer for vibration energy harvesting. Sensors and Actuators A: Physical, 2014, 212, 34-41.	4.1	22
116	Injection Locking in Coupled Core Fluxgate Magnetometers: Exploiting Nonlinearity to Enhance Sensitivity to Weak, Low Frequency, Target Magnetic Fields. IEEE Sensors Journal, 2014, 14, 554-562.	4.7	7
117	An inkjet printed sensor for load measurement. , 2014, , .		2
118	A Compliant MEMS Device for Out-of-Plane Displacements With Thermo-Electric Actuation. Journal of Microelectromechanical Systems, 2014, 23, 661-671.	2.5	57
119	An advanced tracking solution fully based on native sensing features of smartphone. , 2014, , .		19
120	A low cost multi-sensor approach for early warning in structural monitoring of buildings and structures. , 2014, , .		9
121	RESIMA: An Assistive Paradigm to Support Weak People in Indoor Environments. IEEE Transactions on Instrumentation and Measurement, 2014, 63, 2522-2528.	4.7	26
122	A Novel Tracking System for AAL Based on Smartphone Technology. , 2014, , 243-250.		1
123	A Smart Multi-Sensor Approach to Monitoring Weak People in Indoor Environments. Journal of Sensor Technology, 2014, 04, 24-35.	1.0	5
124	Intelligent Sensing Solutions for AAL. Lecture Notes in Electrical Engineering, 2014, , 321-324.	0.4	3
125	Diode-less mechanical H-bridge rectifier for "zero threshold" vibration energy harvesters. Sensors and Actuators A: Physical, 2013, 201, 246-253.	4.1	44
126	"Random Mechanical Switching Harvesting on Inductor" A novel approach to collect and store energy from weak random vibrations with zero voltage threshold. Sensors and Actuators A: Physical, 2013, 198, 35-45.	4.1	52



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127	A Low-Cost, Disposable, and Contactless Resonant Mass Sensor. IEEE Transactions on Instrumentation and Measurement, 2013, 62, 246-252.	4.7	6
128	A Seismic Sensor Based on IPMC Combined With Ferrofluids. IEEE Transactions on Instrumentation and Measurement, 2013, 62, 1292-1298.	4.7	12
129	SENTINELLA: A WSN for a smart monitoring of PV systems at module level. , 2013, , .		9
130	All-Inkjet Printed Strain Sensors. IEEE Sensors Journal, 2013, 13, 4874-4879.	4.7	80
131	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
132	RESIMA: A new WSN based paradigm to assist weak people in indoor environment. , 2013, , .		12
133	A seismic sensor based on IPMC combined with ferrofluids. , 2012, , .		2
134	A Smart Multisensor System for the Ash Fall-Out Monitoring. Procedia Engineering, 2012, 47, 766-769.	1.2	3
135	Path driving of ferrofluid samples for bio-sensing applications. , 2012, , .		3
136	Energy Harvesting from weak random vibrations: Bistable strategies and architectures for MEMS devices. , 2012, , .		2
137	Investigation on Mechanically Bistable MEMS Devices for Energy Harvesting From Vibrations. Journal of Microelectromechanical Systems, 2012, 21, 779-790.	2.5	62
138	A Low-Cost Inertial Sensor Based on Shaped Magnetic Fluids. IEEE Transactions on Instrumentation and Measurement, 2012, 61, 1231-1236.	4.7	13
139	Adaptive Modeling of Hysteretic Magnetometers. IEEE Transactions on Instrumentation and Measurement, 2012, 61, 1361-1367.	4.7	9
140	An IR Methodology to Assess the Behavior of Ferrofluidic Transducersâ€™ Case of Study: A Contactless Driven Pump. IEEE Sensors Journal, 2011, 11, 93-98.	4.7	11
141	All inkjet printed system for strain measurement. , 2011, , .		20
142	A smart wireless sensor network for AAL. , 2011, , .		30
143	A flow sensor exploiting magnetic fluids. Procedia Engineering, 2011, 25, 559-562.	1.2	3
144	Exploiting Benefits of a Periodically-Forced Nonlinear Oscillator for Energy Harvesting from Ambient Vibrations. Procedia Engineering, 2011, 25, 819-822.	1.2	27

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145	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
146	SPICE simulation of coupled core fluxgate magnetometers. , 2011, , .		1
147	Can ferrohydrodynamic instabilities be useful in transducers? [Instrumentation Notes]. IEEE Instrumentation and Measurement Magazine, 2011, 14, 38-45.	1.6	2
148	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
149	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
150	Cascaded "Triple-Bent-Beam" MEMS Sensor for Contactless Temperature Measurements in Nonaccessible Environments. IEEE Transactions on Instrumentation and Measurement, 2011, 60, 1348-1357.	4.7	28
151	A BE-SOI MEMS for Inertial Measurement in Geophysical Applications. IEEE Transactions on Instrumentation and Measurement, 2011, 60, 1901-1908.	4.7	35
152	Lateral cantilever beam in BESOI technology. , 2011, , .		0
153	A inertial sensor exploiting a spike shaped ferrofluid. , 2011, , .		2
154	Innovative Smart Sensing Solutions for the Visually Impaired. , 2011, , 60-74.		15
155	A Ferrofluidic Inclinometer in the Resonant Configuration. IEEE Transactions on Instrumentation and Measurement, 2010, 59, 558-564.	4.7	33
156	A Ferroelectric-Capacitor-Based Approach to Quasistatic Electric Field Sensing. IEEE Transactions on Instrumentation and Measurement, 2010, 59, 641-652.	4.7	12
157	A Ferrofluidic Inertial Sensor Exploiting the Rosensweig Effect. IEEE Transactions on Instrumentation and Measurement, 2010, 59, 1471-1476.	4.7	23
158	RTD Fluxgate behavioral model for circuit simulation. Procedia Engineering, 2010, 5, 1288-1291.	1.2	4
159	Numerical and experimental investigation on contactless resonant sensors. Sensors and Actuators A: Physical, 2010, 162, 329-335.	4.1	32
160	Behavior analysis of ferrofluidic gyroscope performances. Sensors and Actuators A: Physical, 2010, 162, 348-354.	4.1	13
161	Improved energy harvesting from wideband vibrations by nonlinear piezoelectric converters. Sensors and Actuators A: Physical, 2010, 162, 425-431.	4.1	426
162	ROC analysis for RTD Fluxgate magnetometers. , 2010, , .		3

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163	Nonlinear mechanism in MEMS devices for energy harvesting applications. Journal of Micromechanics and Microengineering, 2010, 20, 125020.	2.6	164
164	Nonlinear Dynamics, Materials and Integrated Devices for Energy Harvesting in Wearable Sensors. Lecture Notes in Electrical Engineering, 2010, , 97-113.	0.4	1
165	Autonomous sensors: From standard to advanced solutions [Instrumentation notes. IEEE Instrumentation and Measurement Magazine, 2010, 13, 33-37.	1.6	33
166	Magnetic Fluids for Bio-medical Application. Lecture Notes in Electrical Engineering, 2010, , 16-28.	0.4	2
167	A mixed inertial & RF-ID orientation tool for the visually impaired. , 2009, , .		5
168	Hybrid telemetric MEMS for high temperature measurements into harsh industrial environments. , 2009, , .		17
169	Experimental investigations on the spatial resolution in RTD-Fluxgates. , 2009, , .		9
170	Ferrofluids for a novel approach to the measurement of velocity profiles and shear stresses in boundary layers. , 2009, , .		3
171	A novel non-invasive implementation of pumping mechanism in pre-existing capillary. , 2009, , .		3
172	A distributed sensor network approach for orientation tasks. , 2009, , .		4
173	Innovative ferrofluidic inertial sensor exploiting the Rosensweig effect. , 2009, , .		4
174	Quantifying Response in a Class of Nonlinear Sensors with a Noise-Floor. , 2009, , .		0
175	Ferrofluidic Pumps: A Valuable Implementation Without Moving Parts. IEEE Transactions on Instrumentation and Measurement, 2009, 58, 3232-3237.	4.7	28
176	Behavior Analysis of a Ferrofluidic Gyroscope Performances. Procedia Chemistry, 2009, 1, 116-119.	0.7	4
177	Improved Energy Harvesting from Wideband Vibrations by Nonlinear Piezoelectric Converters. Procedia Chemistry, 2009, 1, 1203-1206.	0.7	75
178	Numerical and Experimental Investigation on Contactless Resonant Sensors. Procedia Chemistry, 2009, 1, 1391-1394.	0.7	1
179	The "One drop" ferrofluidic pump with analog control. Sensors and Actuators A: Physical, 2009, 156, 251-256.	4.1	23
180	Design and characterization of a microwire fluxgate magnetometer. Sensors and Actuators A: Physical, 2009, 151, 145-153.	4.1	36

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181	Time domain quantification of the performance of a nonlinear dynamic device in the presence of a noise floor. European Physical Journal B, 2009, 69, 109-118.	1.5	4
182	E-field ferroelectric sensors: Modeling and simulation [Instrumentation Notes]. IEEE Instrumentation and Measurement Magazine, 2009, 12, 31-37.	1.6	6
183	A Ferrofluidic Actuator Governed by AC Fields. Sensor Letters, 2009, 7, 356-359.	0.4	6
184	A "Multisensor Guide System" to Assist Visually Impaired in Unfamiliar Environments. , 2009, , .		0
185	Towards an optimal readout of a residence times difference (RTD) Fluxgate magnetometer. Sensors and Actuators A: Physical, 2008, 142, 73-79.	4.1	15
186	PCB Fluxgate Magnetometers With a Residence Times Difference Readout Strategy: The Effects of Noise. IEEE Transactions on Instrumentation and Measurement, 2008, 57, 19-24.	4.7	16
187	Optimal design of Photovoltaic systems for Wireless Sensor Networks. , 2008, , .		3
188	"Bent beam" MEMS Temperature Sensors for Contactless Measurements in Harsh Environments. , 2008, , .		21
189	Residence Times Difference Fluxgate Magnetometer for Magnetic Biosensing. AIP Conference Proceedings, 2008, , .	0.4	19
190	Exploiting nonlinear dynamics in a coupled-core fluxgate magnetometer. Measurement Science and Technology, 2008, 19, 075203.	2.6	20
191	A novel measurement strategy for volcanic ash fallout estimation based on RTD Fluxgate magnetometers. , 2008, , .		21
192	Exploiting nonlinearity in an advanced dynamic magnetometer for UGS and MDA applications. , 2008, , .		0
193	Oscillations in Coupled Systems: Response to a Noise-Contaminated Signal. AIP Conference Proceedings, 2007, , .	0.4	0
194	A novel architecture to implement low-cost ferrofluidic pumps. Conference Record - IEEE Instrumentation and Measurement Technology Conference, 2007, , .	0.0	5
195	Resonant Ferrofluidic Inclometers. , 2007, , .		14
196	Tunable absorption resonance in electromechanical one-dimensional metallodielectric photonic band gap structures. Journal of Applied Physics, 2007, 102, 073531.	2.5	5
197	A smart color sensor based on a multi-Fuzzy Inference strategy. Conference Record - IEEE Instrumentation and Measurement Technology Conference, 2007, , .	0.0	0
198	Microinductive Signal Conditioning With Resonant Differential Filters: High-Sensitivity Biodetection Applications. IEEE Transactions on Instrumentation and Measurement, 2007, 56, 1590-1595.	4.7	9

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