

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	Improved energy harvesting from wideband vibrations by nonlinear piezoelectric converters. <i>Sensors and Actuators A: Physical</i> , 2010, 162, 425-431.	4.1	426
2	Nonlinear mechanism in MEMS devices for energy harvesting applications. <i>Journal of Micromechanics and Microengineering</i> , 2010, 20, 125020.	2.6	164
3	Chua's circuit can be generated by CNN cells. <i>IEEE Transactions on Circuits and Systems Part 1: Regular Papers</i> , 1995, 42, 123-125.	0.1	121
4	Sentinella: Smart Monitoring of Photovoltaic Systems at Panel Level. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2015, 64, 2188-2199.	4.7	108
5	All-Inkjet Printed Strain Sensors. <i>IEEE Sensors Journal</i> , 2013, 13, 4874-4879.	4.7	80
6	A Multisensor Data-Fusion Approach for ADL and Fall classification. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2016, 65, 1960-1967.	4.7	78
7	Improved Energy Harvesting from Wideband Vibrations by Nonlinear Piezoelectric Converters. <i>Procedia Chemistry</i> , 2009, 1, 1203-1206.	0.7	75
8	Inkjet-printed sensors: a useful approach for low cost, rapid prototyping [Instrumentation Notes]. <i>IEEE Instrumentation and Measurement Magazine</i> , 2011, 14, 36-40.	1.6	70
9	Self-organization in a two-layer CNN. <i>IEEE Transactions on Circuits and Systems Part 1: Regular Papers</i> , 1998, 45, 157-162.	0.1	69
10	Hyperchaos from cellular neural networks. <i>Electronics Letters</i> , 1995, 31, 250-251.	1.0	68
11	Low-Cost Inkjet Printing Technology for the Rapid Prototyping of Transducers. <i>Sensors</i> , 2017, 17, 748.	3.8	68
12	Investigation on Mechanically Bistable MEMS Devices for Energy Harvesting From Vibrations. <i>Journal of Microelectromechanical Systems</i> , 2012, 21, 779-790.	2.5	62
13	Emergent oscillations in unidirectionally coupled overdamped bistable systems. <i>Physical Review E</i> , 2004, 70, 036103.	2.1	58
14	A Compliant MEMS Device for Out-of-Plane Displacements With Thermo-Electric Actuation. <i>Journal of Microelectromechanical Systems</i> , 2014, 23, 661-671.	2.5	57
15	“Random Mechanical Switching Harvesting on Inductor” A novel approach to collect and store energy from weak random vibrations with zero voltage threshold. <i>Sensors and Actuators A: Physical</i> , 2013, 198, 35-45.	4.1	52
16	"Residence times difference" fluxgate magnetometers. <i>IEEE Sensors Journal</i> , 2005, 5, 895-904.	4.7	48
17	A Novel Ferrofluidic Inclinator. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2007, 56, 1114-1123.	4.7	48
18	An Event Polarized Paradigm for ADL Detection in AAL Context. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2015, 64, 1814-1825.	4.7	47

#	ARTICLE	IF	CITATIONS
19	Diode-less mechanical H-bridge rectifier for "zero threshold" vibration energy harvesters. Sensors and Actuators A: Physical, 2013, 201, 246-253.	4.1	44
20	A Low-Cost Snap-Through-Buckling Inkjet-Printed Device for Vibrational Energy Harvesting. IEEE Sensors Journal, 2015, 15, 3209-3220.	4.7	41
21	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
22	A Low-Cost Accelerometer Developed by Inkjet Printing Technology. IEEE Transactions on Instrumentation and Measurement, 2016, 65, 1242-1248.	4.7	39
23	Magnetic Fluids and Their Use in Transducers. IEEE Instrumentation and Measurement Magazine, 2006, 9, 44-47.	1.6	37
24	Complex behavior in driven unidirectionally coupled overdamped Duffing elements. Physical Review E, 2006, 73, 066121.	2.1	37
25	Modeling and design of novel photo-thermo-mechanical microactuators. Sensors and Actuators A: Physical, 2002, 101, 185-193.	4.1	36
26	Design and characterization of a microwire fluxgate magnetometer. Sensors and Actuators A: Physical, 2009, 151, 145-153.	4.1	36
27	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
28	A BE-SOI MEMS for Inertial Measurement in Geophysical Applications. IEEE Transactions on Instrumentation and Measurement, 2011, 60, 1901-1908.	4.7	35
29	A Ferrofluidic Inclinometer in the Resonant Configuration. IEEE Transactions on Instrumentation and Measurement, 2010, 59, 558-564.	4.7	33
30	Autonomous sensors: From standard to advanced solutions [Instrumentation notes. IEEE Instrumentation and Measurement Magazine, 2010, 13, 33-37.	1.6	33
31	Numerical and experimental investigation on contactless resonant sensors. Sensors and Actuators A: Physical, 2010, 162, 329-335.	4.1	32
32	Investigation of a Nonlinear Energy Harvester. IEEE Transactions on Instrumentation and Measurement, 2017, 66, 1067-1075.	4.7	32
33	A smart wireless sensor network for AAL. , 2011, , .		30
34	Design, Fabrication, and Characterization of BESOI-Accelerometer Exploiting Photonic Bandgap Materials. IEEE Transactions on Instrumentation and Measurement, 2014, 63, 702-710.	4.7	30
35	Flexible Microwire Residence Times Difference Fluxgate Magnetometer. IEEE Transactions on Instrumentation and Measurement, 2017, 66, 559-568.	4.7	30
36	Ferrofluidic Pumps: A Valuable Implementation Without Moving Parts. IEEE Transactions on Instrumentation and Measurement, 2009, 58, 3232-3237.	4.7	28

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37	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
38	Exploiting Benefits of a Periodically-Forced Nonlinear Oscillator for Energy Harvesting from Ambient Vibrations. Procedia Engineering, 2011, 25, 819-822.	1.2	27
39	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
40	RESIMA: An Assistive Paradigm to Support Weak People in Indoor Environments. IEEE Transactions on Instrumentation and Measurement, 2014, 63, 2522-2528.	4.7	26
41	Membership function shape and the dynamic behaviour of fuzzy systems. International Journal of Adaptive Control and Signal Processing, 1994, 8, 369-377.	4.1	25
42	Tactile measuring systems for the recognition of unknown surfaces. IEEE Transactions on Instrumentation and Measurement, 2002, 51, 522-531.	4.7	25
43	Development of novel optoelectromechanical systems based on "transparent metals" PBG structures. IEEE Sensors Journal, 2001, 1, 288-295.	4.7	24
44	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
45	Measurements of sandy bed scour processes in an oscillating flow by using structured light. Measurement: Journal of the International Measurement Confederation, 2000, 28, 159-174.	5.0	23
46	The "One drop" ferrofluidic pump with analog control. Sensors and Actuators A: Physical, 2009, 156, 251-256.	4.1	23
47	A Ferrofluidic Inertial Sensor Exploiting the Rosensweig Effect. IEEE Transactions on Instrumentation and Measurement, 2010, 59, 1471-1476.	4.7	23
48	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
49	Optimal improvement in bistable measurement device performance via stochastic resonance. International Journal of Electronics, 1999, 86, 791-806.	1.4	22
50	Effects of Driving Mode and Optimal Material Selection on a Residence Times Difference-Based Fluxgate Magnetometer. IEEE Transactions on Instrumentation and Measurement, 2005, 54, 1366-1373.	4.7	22
51	RTD Fluxgate performance for application in magnetic label-based bioassay: preliminary results. , 2006, 2006, 5060-3.		22
52	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
53	Measurements of the 3-D scour process around a pile in an oscillating flow through a stereo vision approach. Measurement: Journal of the International Measurement Confederation, 2001, 30, 145-160.	5.0	21
54	"Residence times difference" fluxgate. Measurement: Journal of the International Measurement Confederation, 2005, 38, 89-112.	5.0	21

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55	"Bent beam" MEMS Temperature Sensors for Contactless Measurements in Harsh Environments. , 2008, , .		21
56	A novel measurement strategy for volcanic ash fallout estimation based on RTD Fluxgate magnetometers. , 2008, , .		21
57	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
58	A Magnetic Field Sensor Based on SPR-POF Platforms and Ferrofluids. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-10.	4.7	21
59	Exploiting nonlinear dynamics in a coupled-core fluxgate magnetometer. Measurement Science and Technology, 2008, 19, 075203.	2.6	20
60	All inkjet printed system for strain measurement. , 2011, , .		20
61	Sensors for Kinetic Energy Measurement Operating on "Zero-Current Standby" IEEE Transactions on Instrumentation and Measurement, 2017, 66, 812-820.	4.7	20
62	Residence Times Difference Fluxgate Magnetometer for Magnetic Biosensing. AIP Conference Proceedings, 2008, , .	0.4	19
63	An advanced tracking solution fully based on native sensing features of smartphone. , 2014, , .		19
64	Models for air quality management and assessment. IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews, 2000, 30, 358-363.	2.9	18
65	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
66	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
67	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
68	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
69	How state controlled CNN cells generate the dynamics of the Colpitts-like oscillator. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 1996, 43, 602-605.	0.1	17
70	Hybrid telemetric MEMS for high temperature measurements into harsh industrial environments. , 2009, , .		17
71	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
72	Measurements of parameters influencing the optimal noise level in stochastic systems. IEEE Transactions on Instrumentation and Measurement, 2000, 49, 1137-1143.	4.7	15

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73	Towards an optimal readout of a residence times difference (RTD) Fluxgate magnetometer. Sensors and Actuators A: Physical, 2008, 142, 73-79.	4.1	15
74	Innovative Smart Sensing Solutions for the Visually Impaired. , 2011, , 60-74.		15
75	RTD fluxgate: a low-power nonlinear device to sense weak magnetic fields. IEEE Instrumentation and Measurement Magazine, 2005, 8, 64-73.	1.6	14
76	Resonant Ferrofluidic Inclinerometers. , 2007, , .		14
77	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
78	Design of fuzzy iterators to generate chaotic time series with assigned Lyapunov exponent. Electronics Letters, 1996, 32, 292.	1.0	13
79	Integrated inductive sensors for the detection of magnetic microparticles. IEEE Sensors Journal, 2005, 5, 372-384.	4.7	13
80	Behavior analysis of ferrofluidic gyroscope performances. Sensors and Actuators A: Physical, 2010, 162, 348-354.	4.1	13
81	A Low-Cost Inertial Sensor Based on Shaped Magnetic Fluids. IEEE Transactions on Instrumentation and Measurement, 2012, 61, 1231-1236.	4.7	13
82	Direct Printing of a Multi-Layer Sensor on Pet Substrate for CO2 Detection. Energies, 2019, 12, 557.	3.1	13
83	Development of Novel Ferrofluidic Pumps. , 2006, 2006, 2828-31.		12
84	A Ferroelectric-Capacitor-Based Approach to Quasistatic Electric Field Sensing. IEEE Transactions on Instrumentation and Measurement, 2010, 59, 641-652.	4.7	12
85	A Seismic Sensor Based on IPMC Combined With Ferrofluids. IEEE Transactions on Instrumentation and Measurement, 2013, 62, 1292-1298.	4.7	12
86	RESIMA: A new WSN based paradigm to assist weak people in indoor environment. , 2013, , .		12
87	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
88	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
89	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
90	Selective Measurement of Volcanic Ash Flow-Rate. IEEE Transactions on Instrumentation and Measurement, 2014, 63, 1356-1363.	4.7	10

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91	Modeling a Nonlinear Harvester for Low Energy Vibrations. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 1619-1627.	4.7	10
92	Simplified scheme for realisation of Chua oscillator by using SC-CNN cells. Electronics Letters, 1995, 31, 1794-1795.	1.0	9
93	Novel Ferrofluidic Inertial Sensors. , 2006, , .		9
94	Microinductive Signal Conditioning With Resonant Differential Filters: High-Sensitivity Biodetection Applications. IEEE Transactions on Instrumentation and Measurement, 2007, 56, 1590-1595.	4.7	9
95	Experimental investigations on the spatial resolution in RTD-Fluxgates. , 2009, , .		9
96	Adaptive Modeling of Hysteretic Magnetometers. IEEE Transactions on Instrumentation and Measurement, 2012, 61, 1361-1367.	4.7	9
97	SENTINELLA: A WSN for a smart monitoring of PV systems at module level. , 2013, , .		9
98	A low cost multi-sensor approach for early warning in structural monitoring of buildings and structures. , 2014, , .		9
99	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
100	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
101	Electromagnetic transducer with bistable-RMSHI for energy harvesting from very weak kinetic sources. , 2018, , .		9
102	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
103	â€œFuzzy Tap-Testingâ€•Sensors for Material Health-State Characterization. IEEE Transactions on Instrumentation and Measurement, 2006, 55, 761-770.	4.7	8
104	Performance Measurement Methodologies and Metrics for Vibration Energy Scavengers. IEEE Transactions on Instrumentation and Measurement, 2017, 66, 3327-3339.	4.7	8
105	NATIFLife-A Smart Sensor Network for Assistive Domotics. , 2019, , .		8
106	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
107	An electromagnetic/magnetolectric transducer based on nonlinear RMSHI circuit for energy harvesting and sensing. Measurement: Journal of the International Measurement Confederation, 2021, 177, 109307.	5.0	8
108	Experimental signal transmission by using synchronised state controlled cellular neural networks. Electronics Letters, 1996, 32, 362.	1.0	7

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109	Non-invasive measurements to analyze sandy bed evolution under sea waves action. IEEE Transactions on Instrumentation and Measurement, 2003, 52, 762-770.	4.7	7
110	Bio-geochemically inspired capacitive sensors for heavy metals pollution monitoring. IEEE Transactions on Instrumentation and Measurement, 2003, 52, 1474-1481.	4.7	7
111	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
112	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
113	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
114	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
115	Lead-Free LiNbO3 Thick Film MEMS Kinetic Cantilever Beam Sensor/Energy Harvester. Sensors, 2022, 22, 559.	3.8	7
116	Analog cellular networks for multisensor fusion and control. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2000, 47, 1378-1382.	0.1	6
117	E-field ferroelectric sensors: Modeling and simulation [Instrumentation Notes]. IEEE Instrumentation and Measurement Magazine, 2009, 12, 31-37.	1.6	6
118	A Low-Cost, Disposable, and Contactless Resonant Mass Sensor. IEEE Transactions on Instrumentation and Measurement, 2013, 62, 246-252.	4.7	6
119	A PZT-based energy sensor able to store energy and transmit data. , 2017, , .		6
120	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
121	A Ferrofluidic Actuator Governed by AC Fields. Sensor Letters, 2009, 7, 356-359.	0.4	6
122	Fuzzy cellular systems for a new computational paradigm. Engineering Applications of Artificial Intelligence, 1997, 10, 47-52.	8.1	5
123	Noise Effects in RTD-Fluxgate. , 0, , .		5
124	A novel architecture to implement low-cost ferrofluidic pumps. Conference Record - IEEE Instrumentation and Measurement Technology Conference, 2007, , .	0.0	5
125	Tunable absorption resonance in electromechanical one-dimensional metallodielectric photonic band gap structures. Journal of Applied Physics, 2007, 102, 073531.	2.5	5
126	A mixed inertial & RF-ID orientation tool for the visually impaired. , 2009, , .		5

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127	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
128	An Assistive Technology Solution for User Activity Monitoring Exploiting Passive RFID. Sensors, 2020, 20, 4954.	3.8	5
129	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
130	RTD-Fluxgate magnetometers for detecting iron accumulation in the brain. IEEE Instrumentation and Measurement Magazine, 2020, 23, 7-13.	1.6	5
131	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
132	A Wavelet-Based Methodology for Features Extraction in Postural Instability Analysis. , 2021, , .		5
133	A Smart Multi-Sensor Approach to Monitoring Weak People in Indoor Environments. Journal of Sensor Technology, 2014, 04, 24-35.	1.0	5
134	A low cost multi-sensor system for investigating the structural response of buildings. Annals of Geophysics, 2018, 61, .	1.0	5
135	A Capacitive Sensor, Exploiting a YSZ Functional Layer, for Ammonia Detection. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-11.	4.7	5
136	A singular value decomposition approach to detect chaos in nonlinear circuits and dynamic systems. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 1994, 41, 908-912.	0.1	4
137	<title>Integrated microsystems in standard CMOS technology with applications in the field of chemical sensors</title>. , 2001, , .		4
138	Development of active PBG structures for realizing novel MOEMS based on transparent metals. , 2001, , .		4
139	Read-Out circuit in RT-Fluxgate. , 0, , .		4
140	Electric field detectors in a coupled ring configuration: preliminary results. , 2006, , .		4
141	A distributed sensor network approach for orientation tasks. , 2009, , .		4
142	Innovative ferrofluidic inertial sensor exploiting the Rosensweig effect. , 2009, , .		4
143	Behavior Analysis of a Ferrofluidic Gyroscope Performances. Procedia Chemistry, 2009, 1, 116-119.	0.7	4
144	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

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145	RTD Fluxgate behavioral model for circuit simulation. <i>Procedia Engineering</i> , 2010, 5, 1288-1291.	1.2	4
146	Nonlinear Snap-Through-Buckling Devices for Energy Harvesting from Vibrations. <i>Lecture Notes in Electrical Engineering</i> , 2015, , 409-413.	0.4	4
147	A novel inclinometer exploiting magnetic fluids and an IR readout strategy. , 2015, , .		4
148	Investigations into a Planar Inductive Readout Strategy for the Monitoring of Ferrofluid Carriers. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2016, 65, 201-207.	4.7	4
149	All Inkjet-Printed B Field Sensor. <i>Proceedings (mdpi)</i> , 2017, 1, 621.	0.2	4
150	Analysis of a Hybrid Micro-Electro-Mechanical Sensor Based on Graphene Oxide/Polyvinyl Alcohol for Humidity Measurements. <i>Sensors</i> , 2019, 19, 1720.	3.8	4
151	Polymeric Transducers: An Inkjet Printed B-Field Sensor with Resistive Readout Strategy. <i>Sensors</i> , 2019, 19, 5318.	3.8	4
152	Toward a Self-Powered Vibration Sensor: The Signal Processing Strategy. <i>Energies</i> , 2021, 14, 754.	3.1	4
153	A Capacitive Readout Strategy for Ammonia Detection: Design Flow, Modeling and Simulation. , 2021, , .		4
154	Conception of a Temperature Sensor Based on 100- $\hat{1}$ / ₄ m CoFeSiB Ferromagnetic Wire. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021, 70, 1-8.	4.7	4
155	ADL Detection for the Active Ageing of Elderly People. <i>Biosystems and Biorobotics</i> , 2015, , 287-294.	0.3	4
156	An Electronic Cane with a Haptic Interface for Mobility Tasks. <i>Biosystems and Biorobotics</i> , 2015, , 189-200.	0.3	4
157	A predictive model for urban air pollution evaluation. , 0, , .		3
158	Integrated CMOS dew point sensors for relative humidity measurement. , 2004, , .		3
159	Optical switching applications of ZnSe/MgF ₂ photonic band gap structures based on thermal nonlinearities. <i>Applied Physics B: Lasers and Optics</i> , 2005, 81, 245-249.	2.2	3
160	Optimal design of Photovoltaic systems for Wireless Sensor Networks. , 2008, , .		3
161	Ferrofluids for a novel approach to the measurement of velocity profiles and shear stresses in boundary layers. , 2009, , .		3
162	A novel non-invasive implementation of pumping mechanism in pre-existing capillary. , 2009, , .		3

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163	ROC analysis for RTD Fluxgate magnetometers. , 2010, , .		3
164	A flow sensor exploiting magnetic fluids. Procedia Engineering, 2011, 25, 559-562.	1.2	3
165	A Smart Multisensor System for the Ash Fall-Out Monitoring. Procedia Engineering, 2012, 47, 766-769.	1.2	3
166	Path driving of ferrofluid samples for bio-sensing applications. , 2012, , .		3
167	Low Cost Inkjet Printed Sensors. Lecture Notes in Electrical Engineering, 2014, , 31-36.	0.4	3
168	Ferrofluid measurements of bottom velocities and shear stresses. Journal of Hydrodynamics, 2015, 27, 150-158.	3.2	3
169	Micromachined "Random Mechanical Switching Harvester on Inductor" to recovery energy from very low-amplitude vibrations with zero-voltage threshold. , 2016, , .		3
170	Development of a Smart Acceleration Measurement Unit for Industry 4.0. , 2018, , .		3
171	Advanced Solutions Aimed at the Monitoring of Falls and Human Activities for the Elderly Population. Technologies, 2019, 7, 59.	5.1	3
172	A sensing platform for postural behavior assessment. , 2019, , .		3
173	Virtual biosensors for the estimation of medical precursors. , 2019, , .		3
174	Measurements and Investigations of Helicopter-Induced Vibrations for Kinetic Energy Harvesters. , 2019, , .		3
175	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
176	Exploitation of Temperature Effect in 100 Åµm Ferromagnetic Wire. , 2020, , .		3
177	Towards Plastic Optical Fiber Magnetic Field Sensors exploiting Magnetic Fluids and Multimode SPR-POF platforms. , 2020, , .		3
178	Investigation of a 100 Åµm Magnetic Wire for Temperature Sensing based on a Time Domain Readout. , 2021, , .		3
179	Fall & ADL Detection Methodologies for AAL. Lecture Notes in Electrical Engineering, 2015, , 427-431.	0.4	3
180	Intelligent Sensing Solutions for AAL. Lecture Notes in Electrical Engineering, 2014, , 321-324.	0.4	3

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181	RESIMA“An Assistive System for Visual Impaired in Indoor Environment. Biosystems and Biorobotics, 2015, , 179-187.	0.3	3
182	A Vision-Based Approach for the Analysis of Core Characteristics of Volcanic Ash. Sensors, 2021, 21, 7180.	3.8	3
183	<title>Development of novel magnetic field monolithic sensors with standard CMOS-compatible MEMS technology</title>. , 1999, 3668, 417.		2
184	<title>Transparent, conducting films based on metal/dielectric photonic band gaps</title>. , 1999, 3749, 63.		2
185	Magnetic Fluids for Bio-medical Application. Lecture Notes in Electrical Engineering, 2010, , 16-28.	0.4	2
186	Can ferrohydrodynamic instabilities be useful in transducers? [Instrumentation Notes]. IEEE Instrumentation and Measurement Magazine, 2011, 14, 38-45.	1.6	2
187	A inertial sensor exploiting a spike shaped ferrofluid. , 2011, , .		2
188	A seismic sensor based on IPMC combined with ferrofluids. , 2012, , .		2
189	Energy Harvesting from weak random vibrations: Bistable strategies and architectures for MEMS devices. , 2012, , .		2
190	An inkjet printed sensor for load measurement. , 2014, , .		2
191	A Nonlinear Energy Harvesting with Asymmetry Compensation. Proceedings (mdpi), 2017, 1, .	0.2	2
192	A novel chemical optical sensor based on molecularly imprinted polymer, optical fibers and inkjet printing technology. , 2018, , .		2
193	Thermal Analysis of a Microsensor based on GO/Polyvinyl Alcohol for Humidity Measurements. , 2019, , .		2
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