

# Emilio Sardini

## List of Publications by Year in descending order

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96  
papers

1,793  
citations

257101

24  
h-index

301761

39  
g-index

98  
all docs

98  
docs citations

98  
times ranked

2300  
citing authors

#	ARTICLE	IF	CITATIONS
1	Aerosol Jet Printed and Photonic Cured Paper-Based Ammonia Sensor for Food Smart Packaging. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-10.	2.4	5
2	How to Assess the Measurement Performance of Mobile/Wearable Point-of-Care Testing Devices? A Systematic Review Addressing Sweat Analysis. Electronics (Switzerland), 2022, 11, 761.	1.8	6
3	Resistive Sensors for Smart Objects: Analysis on Printing Techniques. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-15.	2.4	5
4	A Computational Model For The Design Optimization Of Multi-Electrode Arrays By Aerosol-Jet Printing. Procedia CIRP, 2022, 110, 87-92.	1.0	1
5	Novel Wearable System for Surface EMG Using Compact Electronic Board and Printed Matrix of Electrodes. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2021, , 55-60.	0.2	1
6	PVDF Piezoelectric Sensors on 3D low-Melting Point Substrates: a Preliminary Study on Paper. , 2021, , .		2
7	Preliminary Study on Wireless Passive Resistive Sensor Applied for Smart Objects. , 2021, , .		0
8	Preliminary Study of a Flexible Printed Multi-Sensing Platform for Electromyography and Lactate Measuring during Rehabilitation. , 2021, , .		5
9	Printed Multi-EMG Electrodes on the 3D Surface of an Orthosis for Rehabilitation: A Feasibility Study. IEEE Sensors Journal, 2021, 21, 14407-14417.	2.4	8
10	Temperature influence on Ti3C2Tx lines printed by aerosol jet printing. Sensors and Actuators A: Physical, 2021, 332, 113185.	2.0	9
11	Printed Sensors for Smart Objects in Industry 4.0. , 2021, , .		4
12	3D Electrochemical Sensor and Microstructuration Using Aerosol Jet Printing. Sensors, 2021, 21, 7820.	2.1	5
13	Printed Electrochemical Biosensors: Opportunities and Metrological Challenges. Biosensors, 2020, 10, 166.	2.3	34
14	Future Sensors for Smart Objects by Printing Technologies in Industry 4.0 Scenario. Energies, 2020, 13, 5916.	1.6	31
15	Novel Piezoelectric Sensor by Aerosol Jet Printing in Industry 4.0. , 2020, , .		3
16	Impedance-Based Monitoring of Mesenchymal Stromal Cell Three-Dimensional Proliferation Using Aerosol Jet Printed Sensors: A Tissue Engineering Application. Materials, 2020, 13, 2231.	1.3	17
17	Design of multichannel potentiostat for remote and longtime monitoring of glucose concentration during yeast fermentation. Review of Scientific Instruments, 2020, 91, 054104.	0.6	5
18	Printed Smart Devices on Cellulose-Based Materials by means of Aerosol-Jet Printing and Photonic Curing. Sensors, 2020, 20, 841.	2.1	25

#	ARTICLE	IF	CITATIONS
19	A Wearable and Wirelessly Powered System for Multiple Finger Tracking. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 2542-2551.	2.4	27
20	Validation of a modular and wearable system for tracking fingers movements. Acta IMEKO (2012), 2020, 9, 157.	0.4	1
21	Application of a Modular Wearable System to Track Workers's™ Fingers Movement in Industrial Environments. , 2019, , .		4
22	Printed Strain Gauge on 3D and Low-Melting Point Plastic Surface by Aerosol Jet Printing and Photonic Curing. Sensors, 2019, 19, 4220.	2.1	34
23	Study Toward the Integration of a System for Bacterial Growth Monitoring in an Automated Specimen Processing Platform. Lecture Notes in Electrical Engineering, 2019, , 445-454.	0.3	3
24	Implantable autonomous device for wireless force measurement in total knee prosthesis. IEEE Instrumentation and Measurement Magazine, 2019, 22, 39-47.	1.2	1
25	Support-Material-Free Microfluidics on an Electrochemical Sensors Platform by Aerosol Jet Printing. Sensors, 2019, 19, 1842.	2.1	31
26	3D gelatin-chitosan hybrid hydrogels combined with human platelet lysate highly support human mesenchymal stem cell proliferation and osteogenic differentiation. Journal of Tissue Engineering, 2019, 10, 204173141984585.	2.3	59
27	Potentiostats for Protein Biosensing: Design Considerations and Analysis on Measurement Characteristics. Journal of Sensors, 2019, 2019, 1-20.	0.6	12
28	A Review on Biomaterials for 3D Conductive Scaffolds for Stimulating and Monitoring Cellular Activities. Applied Sciences (Switzerland), 2019, 9, 961.	1.3	40
29	A New Method for In Vivo Analysis of the Performances of a Heat and Moisture Exchanger (HME) in Mechanically Ventilated Patients. Pulmonary Medicine, 2019, 2019, 1-6.	0.5	1
30	Preliminary Study on Wearable System for Multiple Finger Tracking. Lecture Notes in Electrical Engineering, 2019, , 551-558.	0.3	1
31	Electrochemical detection of different p53 conformations by using nanostructured surfaces. Scientific Reports, 2019, 9, 17347.	1.6	17
32	INK-JET PRINTED STRETCHABLE SENSORS FOR CELL MONITORING UNDER MECHANICAL STIMULI: A FEASIBILITY STUDY. Journal of Mechanics in Medicine and Biology, 2019, 19, 1950049.	0.3	3
33	A compact low-power wireless system for <i>in vivo</i> evaluation of heat and moisture exchanger performance. Measurement Science and Technology, 2019, 30, 025701.	1.4	2
34	Aerosol Jet Printed Sensors for Protein Detection: A Preliminary Study. Lecture Notes in Electrical Engineering, 2019, , 317-327.	0.3	0
35	Design and implementation of a microsensor platform for protein detection realized via 3-D printing. , 2018, , .		2
36	Telemetric Technique for Passive Resistive Sensors Based on Impedance Real Part Measurement at Fixed Frequency. IEEE Transactions on Instrumentation and Measurement, 2018, 67, 2160-2168.	2.4	9

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37	Hand Robotic Rehabilitation: From Hospital to Home. Mechanisms and Machine Science, 2018, , 877-884.	0.3	3
38	Sensor Analysis for a Modular Wearable Finger 3D Motion Tracking System. Proceedings (mdpi), 2018, 2, 1051.	0.2	4
39	Aerosol Jet Printed 3D Electrochemical Sensors for Protein Detection. Sensors, 2018, 18, 3719.	2.1	40
40	Design and fabrication of a flexible capacitive coplanar force sensor for biomedical applications. , 2018, , .		7
41	Spectrophotometer measurements to characterize conformational state of the proteins: p53 analysis. , 2018, , .		1
42	Study for the Integration of a Measuring System to an Automated Platform for Monitoring the Growth of Bacterial Cultures. , 2018, , .		1
43	Carbon on poly( $\mu$ -caprolactone) (PCL) Ink-jet Printed Sensor for Monitoring Cell Cultures of Myoblasts. IFMBE Proceedings, 2018, , 783-786.	0.2	1
44	Preliminary Study of a Low-Cost Point-of-Care Testing System Using Screen-Printed Biosensors for Early Biomarkers Detection Related to Alzheimer Disease. Lecture Notes in Electrical Engineering, 2018, , 238-246.	0.3	0
45	Impedance Sensors Embedded in Culture Media for Early Detection of Bacteria Growth. Lecture Notes in Electrical Engineering, 2018, , 218-228.	0.3	0
46	Wireless Point-of-Care Platform With Screen-Printed Sensors for Biomarkers Detection. IEEE Transactions on Instrumentation and Measurement, 2017, 66, 2448-2455.	2.4	18
47	Multisensor System for Analyzing the Thigh Movement During Walking. IEEE Sensors Journal, 2017, 17, 4953-4961.	2.4	13
48	Wireless instrumented cane for walking monitoring in Parkinson patients. , 2017, , .		11
49	Novel telemetric technique for passive resistive sensors based on impedance phase angle measurement at constant frequency. , 2017, , .		1
50	Optimized power harvesting module for an autonomous sensor system implanted in a total knee prosthesis. , 2017, , .		2
51	Telemetric Technique for Wireless Strain Measurement From an Inkjet-Printed Resistive Sensor. IEEE Transactions on Instrumentation and Measurement, 2017, 66, 583-591.	2.4	16
52	Flexible monitoring system for automated detection of bacterial growth in a commercial specimen processing platform. , 2017, , .		2
53	A concept sensor-based system to be integrated in an existing automated platform monitoring bacterial growth. , 2017, , .		1
54	Screen-Printed Biosensors for the Early Detection of Biomarkers Related to Alzheimer Disease: Preliminary Results. Procedia Engineering, 2016, 168, 147-150.	1.2	3

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55	Preliminary Study of Inkjet Printed Sensors for Monitoring Cell Cultures. <i>Procedia Engineering</i> , 2016, 168, 578-581.	1.2	10
56	Preliminary study of a low-cost point-of-care testing system using screen-printed biosensors: For early biomarkers detection related to Alzheimer Disease. , 2016, , .		3
57	Electrical Characterization of PEDOT:PSS Strips Deposited by Inkjet Printing on Plastic Foil for Sensor Manufacturing. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2016, 65, 2137-2144.	2.4	14
58	Mechanical behavior of strain sensors based on PEDOT:PSS and silver nanoparticles inks deposited on polymer substrate by inkjet printing. <i>Sensors and Actuators A: Physical</i> , 2016, 243, 71-80.	2.0	91
59	Autonomous Wearable System for Vital Signs Measurement With Energy-Harvesting Module. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2016, 65, 1423-1434.	2.4	84
60	Implantable Systems. , 2015, , 363-382.		0
61	Wireless Wearable T-Shirt for Posture Monitoring During Rehabilitation Exercises. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2015, 64, 439-448.	2.4	81
62	Power harvesting integrated in a knee implant for autonomous sensors implanted in human body. , 2015, , .		7
63	Wireless Instrumented Crutches for Force and Movement Measurements for Gait Monitoring. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2015, 64, 3369-3379.	2.4	42
64	Low power wearable system for vital signs measurement in all day long applications. , 2015, , .		7
65	Wearable Sensors for Human Movement Monitoring in Biomedical Applications: Case Studies. <i>Biosystems and Biorobotics</i> , 2015, , 111-123.	0.2	2
66	Wireless Telemetric Technique for Resistive Sensors in Biomedical Applications. <i>Lecture Notes in Electrical Engineering</i> , 2015, , 365-370.	0.3	0
67	Kinetic and thermal energy harvesters for implantable medical devices and biomedical autonomous sensors. <i>Measurement Science and Technology</i> , 2014, 25, 012003.	1.4	77
68	Telemetric Model for Passive Resistive Sensors in Biomedical Applications. <i>Procedia Engineering</i> , 2014, 87, 444-447.	1.2	4
69	Wireless Instrumented Crutches for Force and Tilt Monitoring in Lower Limb Rehabilitation. <i>Procedia Engineering</i> , 2014, 87, 348-351.	1.2	12
70	T-Shirt for Vital Parameter Monitoring. <i>Lecture Notes in Electrical Engineering</i> , 2014, , 201-205.	0.3	13
71	An Electromechanical Generator Implanted in Human Total Knee Prosthesis. <i>Lecture Notes in Electrical Engineering</i> , 2014, , 25-30.	0.3	0
72	Wearable Posture Monitoring Sensor. <i>Lecture Notes in Electrical Engineering</i> , 2014, , 255-259.	0.3	1

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73	Sensorized Glove for Measuring Hand Finger Flexion for Rehabilitation Purposes. IEEE Transactions on Instrumentation and Measurement, 2013, 62, 3308-3314.	2.4	98
74	Design considerations of an electromechanical generator implanted in human total knee prosthesis. International Journal of Mechatronics and Manufacturing Systems, 2013, 6, 270.	0.1	3
75	Analysis of an electromechanical generator implanted in a human total knee prosthesis. , 2012, , .		13
76	Wearable object detection system for the blind. , 2012, , .		36
77	Wireless Measurement Electronics for Passive Temperature Sensor. IEEE Transactions on Instrumentation and Measurement, 2012, 61, 2354-2361.	2.4	32
78	Smart vest for posture monitoring in rehabilitation exercises. , 2012, , .		15
79	Multi-parameters wireless shirt for physiological monitoring. , 2011, , .		16
80	Wireless Measurement Technique for Telemetry Low-Value Resistive Sensors. Procedia Engineering, 2011, 25, 1261-1264.	1.2	3
81	An efficient electromagnetic power harvesting device for low-frequency applications. Sensors and Actuators A: Physical, 2011, 172, 475-482.	2.0	83
82	Self-Powered Wireless Sensor for Air Temperature and Velocity Measurements With Energy Harvesting Capability. IEEE Transactions on Instrumentation and Measurement, 2011, 60, 1838-1844.	2.4	113
83	Design and test of an autonomous sensor for force measurements in human knee implants. Sensors and Actuators A: Physical, 2011, 166, 1-8.	2.0	32
84	Instrumented wearable belt for wireless health monitoring. Procedia Engineering, 2010, 5, 580-583.	1.2	46
85	Nonlinear electromagnetic generators with polymeric materials for power harvesting from vibrations. Procedia Engineering, 2010, 5, 1168-1171.	1.2	4
86	Numerical and experimental investigation on contactless resonant sensors. Sensors and Actuators A: Physical, 2010, 162, 329-335.	2.0	32
87	Passive and Self-Powered Autonomous Sensors for Remote Measurements. Sensors, 2009, 9, 943-960.	2.1	33
88	Autonomous Sensor System With Power Harvesting for Telemetric Temperature Measurements of Pipes. IEEE Transactions on Instrumentation and Measurement, 2009, 58, 1471-1478.	2.4	41
89	An Autonomous Sensor for Force Measurements in Human Knee Implants. Procedia Chemistry, 2009, 1, 718-721.	0.7	7
90	Electromagnetic Generators Employing Planar Inductors for Autonomous Sensor Applications. Procedia Chemistry, 2009, 1, 469-472.	0.7	12

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91	Contactless electromagnetic excitation of resonant sensors made of conductive miniaturized structures. <i>Sensors and Actuators A: Physical</i> , 2008, 148, 44-50.	2.0	16
92	Contactless Transmission of Measurement Information Between Sensor and Conditioning Electronics. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2008, 57, 303-308.	2.4	10
93	An inductive telemetric measurement system for humidity sensing. <i>Measurement Science and Technology</i> , 2008, 19, 115204.	1.4	69
94	Magnetically induced oscillations on a conductive cantilever for resonant microsensors. <i>Sensors and Actuators A: Physical</i> , 2007, 135, 197-202.	2.0	14
95	A new measurement method for capacitance transducers in a distance compensated telemetric sensor system. <i>Measurement Science and Technology</i> , 2005, 16, 1593-1599.	1.4	78
96	Inductive Telemetric Measurement Systems for Remote Sensing. , 0, , .		1