

Antonino S Fiorillo

List of Publications by Year in descending order

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53
papers

1,390
citations

430874

18
h-index

361022

35
g-index

54
all docs

54
docs citations

54
times ranked

1696
citing authors

#	ARTICLE	IF	CITATIONS
1	Theory, technology and applications of piezoresistive sensors: A review. <i>Sensors and Actuators A: Physical</i> , 2018, 281, 156-175.	4.1	298
2	EGFET-Based Sensors for Bioanalytical Applications: A Review. <i>Sensors</i> , 2018, 18, 4042.	3.8	104
3	Effects of acute physical exercise on oxidative stress and inflammatory status in young, sedentary obese subjects. <i>PLoS ONE</i> , 2017, 12, e0178900.	2.5	81
4	A Low-Power Wireless Piezoelectric Sensor-Based Respiration Monitoring System Realized in CMOS Process. <i>IEEE Sensors Journal</i> , 2017, 17, 1858-1864.	4.7	78
5	Stabilization of Bilinear Systems Via Linear State-Feedback Control. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2009, 56, 76-80.	3.0	71
6	Infrared Saliva Analysis of Psoriatic and Diabetic Patients: Similarities in Protein Components. <i>IEEE Transactions on Biomedical Engineering</i> , 2016, 63, 379-384.	4.2	60
7	Glucose biosensors in clinical practice: principles, limits and perspectives of currently used devices. <i>Theranostics</i> , 2022, 12, 493-511.	10.0	52
8	A piezoresistive tactile sensor. <i>IEEE Transactions on Instrumentation and Measurement</i> , 1997, 46, 15-17.	4.7	50
9	A P(VDF-TrFE)-based integrated ultrasonic transducer. <i>Sensors and Actuators A: Physical</i> , 1990, 22, 719-725.	4.1	40
10	MicroRNA-1281 as a Novel Circulating Biomarker in Patients With Diabetic Retinopathy. <i>Frontiers in Endocrinology</i> , 2020, 11, 528.	3.5	35
11	Laboratory Parameters of Hemostasis, Adhesion Molecules, and Inflammation in Type 2 Diabetes Mellitus: Correlation with Glycemic Control. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 300.	2.6	29
12	Low-Frequency Ultrasound in Medicine: An In Vivo Evaluation. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2012, 61, 1658-1663.	4.7	27
13	A Low-Power On-Chip ECG Monitoring System Based on MWCNT/PDMS Dry Electrodes. <i>IEEE Sensors Journal</i> , 2020, 20, 12799-12806.	4.7	27
14	PVDF Sensor Stimulated by Infrared Radiation for Temperature Monitoring in Microfluidic Devices. <i>Sensors</i> , 2017, 17, 850.	3.8	26
15	Pyroelectric Sensor for Temperature Monitoring of Biological Fluids in Microchannel Devices. <i>IEEE Sensors Journal</i> , 2014, 14, 2725-2730.	4.7	24
16	Medical Devices for Pediatric Apnea Monitoring and Therapy: Past and New Trends. <i>IEEE Reviews in Biomedical Engineering</i> , 2017, 10, 199-212.	18.0	23
17	Deep Submicron EGFET Based on Transistor Association Technique for Chemical Sensing. <i>Sensors</i> , 2019, 19, 1063.	3.8	21
18	Absorption of Urea Into Zeolite Layer Integrated With Microelectronic Circuits. <i>IEEE Nanotechnology Magazine</i> , 2015, 14, 214-217.	2.0	20

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19	An ultrasonic range sensor array for a robotic fingertip. <i>Sensors and Actuators</i> , 1989, 17, 103-106.	1.7	19
20	Ultrasound transducer with low synthetic quality factor. <i>Applied Physics Letters</i> , 1996, 68, 164-166.	3.3	19
21	A sensorized robot gripper. <i>Robotics and Autonomous Systems</i> , 1988, 4, 49-55.	5.1	17
22	Size of Sclerosing Foams Prepared by Ultrasound, Mechanical Agitation, and the Handmade Tessari Method for Treatment of Varicose Veins. <i>Journal of Ultrasound in Medicine</i> , 2017, 36, 649-658.	1.7	16
23	Triboelectric-induced Pseudo-ICG for cardiovascular risk assessment on flexible electronics. <i>Nano Energy</i> , 2020, 67, 104278.	16.0	16
24	Deposition of Zeolite Thin Layers Onto Silicon Wafers for Biomedical Use. <i>IEEE Nanotechnology Magazine</i> , 2012, 11, 654-656.	2.0	15
25	PVDF ultrasonic sensors for location of small objects. <i>Sensors and Actuators A: Physical</i> , 1994, 42, 406-409.	4.1	14
26	Antireflection properties of composite zeolite gold nanoparticles film. <i>Electronics Letters</i> , 2018, 54, 370-372.	1.0	14
27	A Recursive Algorithm for Indoor Positioning Using Pulse-Echo Ultrasonic Signals. <i>Sensors</i> , 2020, 20, 5042.	3.8	14
28	Spiral-Shaped Biologically-Inspired Ultrasonic Sensor. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2020, 67, 635-642.	3.0	13
29	PVDF Ultrasonic Sensors for In-Air Applications: A Review. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2021, 68, 2324-2335.	3.0	13
30	Effects of sulodexide on stability of sclerosing foams. <i>Phlebology</i> , 2019, 34, 191-200.	1.2	12
31	Ultrasonic Transducers Shaped in Archimedean and Fibonacci Spiral: A Comparison. <i>Sensors</i> , 2020, 20, 2800.	3.8	12
32	Antireflection Enhancement by Composite Nanoporous Zeolite 3A@Carbon Thin Film. <i>Nanomaterials</i> , 2019, 9, 1641.	4.1	11
33	Low frequency ultrasound as a potentially viable foaming option for pathological veins. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 599, 124919.	4.7	10
34	A low power wireless apnea detection system based on pyroelectric sensor. , 2015, , .		9
35	A Charge Sensitive Pre-Amplifier for Smart Point-of-Care Devices Employing Polymer-Based Lab-on-a-Chip. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2018, 65, 984-988.	3.0	9
36	Cell-line characterization by infrared-induced pyroelectric effect. <i>Biosensors and Bioelectronics</i> , 2019, 140, 111338.	10.1	9

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37	FT-IR saliva analysis for the diagnosis of psoriasis: A pilot study. <i>Biomedical Signal Processing and Control</i> , 2022, 74, 103525.	5.7	8
38	Recent developments on foaming mechanical and electronic techniques for the management of varicose veins. <i>Expert Review of Medical Devices</i> , 2019, 16, 931-940.	2.8	7
39	An Affordable Fabrication of a Zeolite-Based Capacitor for Gas Sensing. <i>Sensors</i> , 2020, 20, 2143.	3.8	7
40	Influence of the Fabrication Accuracy of Hot-Embossed PCL Scaffolds on Cell Growths. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 84.	4.1	7
41	Neural Modulation of the Primary Auditory Cortex by Intracortical Microstimulation with a Bio-Inspired Electronic System. <i>Bioengineering</i> , 2020, 7, 23.	3.5	6
42	A Second-Generation Voltage-Conveyor-Based Interface for Ultrasonic PVDF Sensors. <i>Micromachines</i> , 2021, 12, 99.	2.9	6
43	Optically Unobtrusive Zeolite-Based Dry Electrodes for Wearable ECG Monitoring. <i>IEEE Sensors Journal</i> , 2022, 22, 10630-10639.	4.7	6
44	Design and fabrication of a silicon-P(VDF-TrFE) piezoelectric sensor. <i>Thin Solid Films</i> , 1989, 181, 245-250.	1.8	5
45	Dosimetry of High Intensity Electron Beams Produced by Dedicated Accelerators in Intra-Operative Radiation Therapy (IORT). <i>IEEE Transactions on Nuclear Science</i> , 2009, 56, 66-72.	2.0	5
46	Modeling and Characterization of Scaling Factor of Flexible Spiral Coils for Wirelessly Powered Wearable Sensors. <i>Sensors</i> , 2020, 20, 2282.	3.8	5
47	PPy thin layers grown onto copper salt replica for sensor array fabrication. <i>Sensors and Actuators B: Chemical</i> , 1992, 7, 399-403.	7.8	2
48	Design of a charge amplifier for a low-power respiration monitoring system. <i>IET Circuits, Devices and Systems</i> , 2019, 13, 499-503.	1.4	2
49	Application of P(VDF-TrFE) Glass Coating for Robust Harmonic Nanoparticles Characterization. <i>Micromachines</i> , 2021, 12, 41.	2.9	2
50	Computational Model of Cell Deformation Under Fluid Flow Based Rolling. , 2019, , .		2
51	Cochlear-like PVDF US Sensor. , 2019, , .		1
52	Temperature Evaluation of Sonicated Sclerosing Foam through Induced Pyroelectric Effect by IR Radiation. , 2019, , .		0
53	A Broadband Approach for the Generation and Reception of Low-Frequency Ultrasounds In-Air for Sonar Applications. , 2021, , .		0