

# Salvatore A Pullano

## List of Publications by Year in descending order

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Version: 2024-02-01

79  
papers

1,423  
citations

430754

18  
h-index

360920

35  
g-index

83  
all docs

83  
docs citations

83  
times ranked

1921  
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.	2.0	298
2	EGFET-Based Sensors for Bioanalytical Applications: A Review. <i>Sensors</i> , 2018, 18, 4042.	2.1	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.	1.1	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.	2.4	78
5	SERS analysis on exosomes using super-hydrophobic surfaces. <i>Microelectronic Engineering</i> , 2012, 97, 337-340.	1.1	68
6	Rutin-loaded chitosan microspheres: Characterization and evaluation of the anti-inflammatory activity. <i>Carbohydrate Polymers</i> , 2016, 152, 583-591.	5.1	63
7	Infrared Saliva Analysis of Psoriatic and Diabetic Patients: Similarities in Protein Components. <i>IEEE Transactions on Biomedical Engineering</i> , 2016, 63, 379-384.	2.5	60
8	Glucose biosensors in clinical practice: principles, limits and perspectives of currently used devices. <i>Theranostics</i> , 2022, 12, 493-511.	4.6	52
9	A Fluidic Motherboard for Multiplexed Simultaneous and Modular Detection in Microfluidic Systems for Biological Application. <i>Micro and Nanosystems</i> , 2010, 2, 227-238.	0.3	30
10	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.	1.2	29
11	Low-Frequency Ultrasound in Medicine: An In Vivo Evaluation. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2012, 61, 1658-1663.	2.4	27
12	A Low-Power On-Chip ECG Monitoring System Based on MWCNT/PDMS Dry Electrodes. <i>IEEE Sensors Journal</i> , 2020, 20, 12799-12806.	2.4	27
13	PVDF Sensor Stimulated by Infrared Radiation for Temperature Monitoring in Microfluidic Devices. <i>Sensors</i> , 2017, 17, 850.	2.1	26
14	Pyroelectric Sensor for Temperature Monitoring of Biological Fluids in Microchannel Devices. <i>IEEE Sensors Journal</i> , 2014, 14, 2725-2730.	2.4	24
15	Medical Devices for Pediatric Apnea Monitoring and Therapy: Past and New Trends. <i>IEEE Reviews in Biomedical Engineering</i> , 2017, 10, 199-212.	13.1	23
16	Comprehensive system for the evaluation of the attention level of a driver. , 2016, , .		21
17	Deep Submicron EGFET Based on Transistor Association Technique for Chemical Sensing. <i>Sensors</i> , 2019, 19, 1063.	2.1	21
18	Absorption of Urea Into Zeolite Layer Integrated With Microelectronic Circuits. <i>IEEE Nanotechnology Magazine</i> , 2015, 14, 214-217.	1.1	20

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19	Bioinspired US sensor for broadband applications. <i>Sensors and Actuators A: Physical</i> , 2019, 294, 148-153.	2.0	20
20	Triboelectric-induced Pseudo-ICG for cardiovascular risk assessment on flexible electronics. <i>Nano Energy</i> , 2020, 67, 104278.	8.2	16
21	Development of a Small Cryogen-Free MgB <sub>2</sub> Test Coil for SMES Application. <i>IEEE Transactions on Applied Superconductivity</i> , 2017, 27, 1-4.	1.1	15
22	Antireflection properties of composite zeolite gold nanoparticles film. <i>Electronics Letters</i> , 2018, 54, 370-372.	0.5	14
23	A Recursive Algorithm for Indoor Positioning Using Pulse-Echo Ultrasonic Signals. <i>Sensors</i> , 2020, 20, 5042.	2.1	14
24	Emerging Designs of Electronic Devices in Biomedicine. <i>Micromachines</i> , 2020, 11, 123.	1.4	14
25	A low power wearable respiration monitoring sensor using pyroelectric transducer. , 2017, , .		13
26	Spiral-Shaped Biologically-Inspired Ultrasonic Sensor. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2020, 67, 635-642.	1.7	13
27	PVDF Ultrasonic Sensors for In-Air Applications: A Review. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2021, 68, 2324-2335.	1.7	13
28	Ultrasonic Transducers Shaped in Archimedean and Fibonacci Spiral: A Comparison. <i>Sensors</i> , 2020, 20, 2800.	2.1	12
29	Instrumentation of a pyroelectric transducer based respiration monitoring system with wireless telemetry. , 2018, , .		11
30	Antireflection Enhancement by Composite Nanoporous Zeolite 3A <sup>®</sup> Carbon Thin Film. <i>Nanomaterials</i> , 2019, 9, 1641.	1.9	11
31	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.	2.3	10
32	A low power wireless apnea detection system based on pyroelectric sensor. , 2015, , .		9
33	A low power wireless breathing monitoring system using piezoelectric transducer. , 2016, , .		9
34	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.	2.2	9
35	Cell-line characterization by infrared-induced pyroelectric effect. <i>Biosensors and Bioelectronics</i> , 2019, 140, 111338.	5.3	9
36	FT-IR saliva analysis for the diagnosis of psoriasis: A pilot study. <i>Biomedical Signal Processing and Control</i> , 2022, 74, 103525.	3.5	8

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37	Obstacle detection system based on low quality factor ultrasonic transducers for medical devices. , 2016, , .		7
38	Design of a pyroelectric charge amplifier and a piezoelectric energy harvester for a novel non-invasive wearable and self-powered respiratory monitoring system. , 2017, , .		7
39	Biomimetic Sonar for Electrical Activation of the Auditory Pathway. Journal of Sensors, 2017, 2017, 1-10.	0.6	7
40	Recent developments on foaming mechanical and electronic techniques for the management of varicose veins. Expert Review of Medical Devices, 2019, 16, 931-940.	1.4	7
41	An Affordable Fabrication of a Zeolite-Based Capacitor for Gas Sensing. Sensors, 2020, 20, 2143.	2.1	7
42	Influence of the Fabrication Accuracy of Hot-Embossed PCL Scaffolds on Cell Growths. Frontiers in Bioengineering and Biotechnology, 2020, 8, 84.	2.0	7
43	Neural Modulation of the Primary Auditory Cortex by Intracortical Microstimulation with a Bio-Inspired Electronic System. Bioengineering, 2020, 7, 23.	1.6	6
44	A Second-Generation Voltage-Conveyor-Based Interface for Ultrasonic PVDF Sensors. Micromachines, 2021, 12, 99.	1.4	6
45	Optically Unobtrusive Zeolite-Based Dry Electrodes for Wearable ECG Monitoring. IEEE Sensors Journal, 2022, 22, 10630-10639.	2.4	6
46	A low noise front-end amplifier for pyroelectric transducer based respiration monitoring system. , 2017, , .		5
47	Pyroelectric Sensor for Characterization of Biological Cells. Lecture Notes in Electrical Engineering, 2019, , 223-228.	0.3	5
48	Modeling and Characterization of Scaling Factor of Flexible Spiral Coils for Wirelessly Powered Wearable Sensors. Sensors, 2020, 20, 2282.	2.1	5
49	Measurements of rat brain activity originating from ultrasound waves in air. , 2013, , .		4
50	A brain-to-sonar electronic interface to bypass peripheral auditory system in rats. , 2015, , .		4
51	IR-Light induced pyroelectric effect for cell cultures characterization. , 2017, , .		4
52	Low-power low-data-rate IR-UWB transmitter for paediatric apnoea monitoring system. IET Circuits, Devices and Systems, 2019, 13, 494-498.	0.9	4
53	Design and Fabrication of an EGFET Based Chemical Sensor Using Transistor Association Technique. , 2020, , .		4
54	Biomass Plant and Sensors Network for Process Monitoring and Energy Storage in a Superconducting Magnetic Device. RÄ«gas TehniskÄ«s UniversitÄ«tes ZinÄ«tniskie Raksti 15 SÄ«rija, Vides TehnogÄ«nÄ«s DroÄ«bas ZinÄ«tniskÄ«s 4 ProblÄ«mas, 0, 6, 28.		4

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55	Piezo-polymer based sonar for mobile robots. , 2009, , .		3
56	Non-invasive integrated wireless breathing monitoring system based on a pyroelectric transducer. , 2016, , .		3
57	Evaluation of auditory cortex tonotopical organization in rats Through Principal Component Analysis. , 2017, , .		3
58	Nature Inspired Plasmonic Structures: Influence of Structural Characteristics on Sensing Capability. Applied Sciences (Switzerland), 2018, 8, 668.	1.3	3
59	FTIR Saliva Profiling in Patients with Obesity and Obesity-Related Insulin Resistance. , 2019, , .		3
60	A pyroelectric sensor for system-on-a-chip. , 2014, , .		2
61	Acoustic cavitation for producing foam in sclerosant drugs. , 2015, , .		2
62	Development of an innovative superconducting magnetic energy storage system. , 2015, , .		2
63	Electrical activation of nervous system by sonar-based electronic interface. , 2016, , .		2
64	Iono-Electronic Interface Based on Innovative Low Temperature Zeolite Coated NMOS (Circuits) for Bio-nanosensor Manufacture. NATO Science for Peace and Security Series A: Chemistry and Biology, 2016, , 201-214.	0.5	2
65	Direct Modulation of High-Frequency Neural Oscillations in the Auditory Cortex Through Electrical Microstimulation Generated by PVDF Sensors. , 2018, , .		2
66	Design of a charge amplifier for a low-power respiration monitoring system. IET Circuits, Devices and Systems, 2019, 13, 499-503.	0.9	2
67	Bioinspired Electric Stimulation: Comparison of ECoG Spectrum in the Main Auditory Structures. , 2019, , .		2
68	Objective bilateral tinnitus from palatal nystagmus. Audio and video features of a rare case of palatal myoclonus. American Journal of Otolaryngology - Head and Neck Medicine and Surgery, 2020, 41, 102739.	0.6	2
69	Application of P(VDF-TrFE) Glass Coating for Robust Harmonic Nanoparticles Characterization. Micromachines, 2021, 12, 41.	1.4	2
70	Computational Model of Cell Deformation Under Fluid Flow Based Rolling. , 2019, , .		2
71	Low frequency ultrasounds in medicine. , 2009, , .		1
72	Development of a Low-cost Nailfold Capillaroscopy Platform to Enhance Early Detection of Secondary Raynaud's Phenomenon. , 2018, , .		1

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73	Cochlear-like PVDF US Sensor. , 2019, , .		1
74	Zeolite-Based Interfaces for CB Sensors. NATO Science for Peace and Security Series A: Chemistry and Biology, 2018, , 157-168.	0.5	1
75	Activation of bottom-up and top-down auditory pathways by US sensors based interface. , 2017, , .		0
76	Optical Polarization Characteristics of Zeolite Deposited on Different Substrates for Perspective Modulation Biosensor Systems. NATO Science for Peace and Security Series A: Chemistry and Biology, 2018, , 213-222.	0.5	0
77	Temperature Evaluation of Sonicated Sclerosing Foam through Induced Pyroelectric Effect by IR Radiation. , 2019, , .		0
78	Characterization of Induced Pluripotent Stem Cells Using a Pyroelectric Sensor. , 2021, , .		0
79	A Broadband Approach for the Generation and Reception of Low-Frequency Ultrasounds In-Air for Sonar Applications. , 2021, , .		0