

Iasonasi F Triantis

List of Publications by Year in descending order

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44
papers

470
citations

933410

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45
all docs

45
docs citations

45
times ranked

489
citing authors

#	ARTICLE	IF	CITATIONS
1	Optimisation of an Electrical Impedance Sensor for Use in Microfluidic Chip Electrophoresis. IEEE Sensors Journal, 2022, 22, 16-24.	4.7	3
2	Advances in Therapeutic Monitoring of Lithium in the Management of Bipolar Disorder. Sensors, 2022, 22, 736.	3.8	14
3	Modeling the Impact of Sensitivity Distribution Variations of Tetrapolar Impedance Configurations in Microfluidic Analytical Devices. IEEE Sensors Journal, 2021, 21, 1655-1664.	4.7	3
4	Modelling Dynamically Re-Sizeable Electrodes (DRE) for Targeted Transcutaneous Measurements in Impedance Plethysmography. IEEE Transactions on Biomedical Circuits and Systems, 2020, 14, 104-112.	4.0	3
5	A Method for Rapid, Reliable, and Low-Volume Measurement of Lithium in Blood for Use in Bipolar Disorder Treatment Management. IEEE Transactions on Biomedical Engineering, 2019, 66, 130-137.	4.2	13
6	Feasibility Experiments to Detect Skin Hydration Using a Bio-Impedance Sensor. , 2019, 2019, 6032-6035.		7
7	Optimization of Tetrapolar Impedance Electrodes in Microfluidic Devices for Point of Care Diagnostics using Finite Element Modeling. , 2018, 2018, 5321-5324.		2
8	Assessment of the Complex Refractive Indices of Xenopus Laevis Sciatic Nerve for the Optimization of Optical (NIR) Neurostimulation. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2018, 26, 2306-2314.	4.9	4
9	Auto-zero baseline correction circuit for MEMS accelerometer based seismic sensor. , 2018, , .		1
10	Simulation of Temperature Profiles due to Joule Heating in Microfluidic Systems. , 2018, , .		0
11	Methodology for rapid assessment of blood lithium levels in ultramicro volumes of blood plasma for applications in personal monitoring of patients with bipolar mood disorder. Journal of Biomedical Optics, 2018, 23, 1.	2.6	7
12	The challenges of deriving displacement trends from MEMS accelerometric data. , 2017, , .		1
13	Towards an optimized tetrapolar electrical impedance lithium detection probe for bipolar disorder: A simulation study. , 2017, , .		1
14	On the merits of tetrapolar impedance spectroscopy for monitoring lithium concentration variations in human blood plasma. IEEE Transactions on Biomedical Engineering, 2016, 64, 1-1.	4.2	9
15	High frequency sensors for robust transmission in telemedicine system. , 2016, , .		2
16	A 2.4 GHz CMOS power amplifier. , 2016, , .		0
17	A novel approach to transcutaneous localization of blood vessels using a dynamically reconfigurable electrode (DRE) array. , 2016, , .		1
18	Spectrophotometric analysis of lithium carbonate used for bipolar disorder. Biomedical Optics Express, 2015, 6, 1067.	2.9	5

#	ARTICLE	IF	CITATIONS
19	An Integrated Analog Readout for Multi-Frequency Bioimpedance Measurements. IEEE Sensors Journal, 2014, 14, 2792-2800.	4.7	59
20	Optical analysis of lithium carbonate: Towards the development of a portable lithium blood level analyzer for bipolar disorder patients. , 2014, 2014, 2077-80.		1
21	High-Power CMOS Current Driver With Accurate Transconductance for Electrical Impedance Tomography. IEEE Transactions on Biomedical Circuits and Systems, 2014, 8, 575-583.	4.0	31
22	A CMOS multi-sine signal generator for multi-frequency bioimpedance measurements. , 2014, , .		9
23	Design of low-phase-noise CMOS transformer-based gate-coupled quadrature VCO. Electronics Letters, 2014, 50, 434-436.	1.0	4
24	A CMOS Magnitude/Phase Measurement Chip for Impedance Spectroscopy. IEEE Sensors Journal, 2013, 13, 2229-2236.	4.7	63
25	A Simulation Study of the Combined Thermoelectric Extracellular Stimulation of the Sciatic Nerve of the Xenopus Laevis: The Localized Transient Heat Block. IEEE Transactions on Biomedical Engineering, 2012, 59, 1758-1769.	4.2	46
26	An improved CMOS current driver for electrical impedance tomography. , 2011, , .		2
27	A novel front-end for impedance spectroscopy. , 2011, , .		6
28	A multi-frequency bioimpedance measurement ASIC for electrical impedance tomography. , 2011, , .		17
29	An integrated silicon sensor with microfluidic chip for monitoring potassium and pH. Microfluidics and Nanofluidics, 2011, 10, 1119-1125.	2.2	16
30	Offset prediction for charge-balanced stimulus waveforms. Journal of Neural Engineering, 2011, 8, 046032.	3.5	9
31	Capacitive pulse shapes for platinum cuff electrodes. , 2011, 2011, 5408-11.		1
32	A current generator circuit for tripolar stimulation and insensitive to temperature and supply variations. , 2010, , .		0
33	A high output impedance CMOS current driver for bioimpedance measurements. , 2010, , .		11
34	Tripolar-cuff deviation from ideal model: Assessment by bioelectric field simulations and saline-bath experiments. Medical Engineering and Physics, 2008, 30, 550-562.	1.7	7
35	Towards a reconfigurable sense-and-stimulate neural interface generating biphasic interleaved stimulus. , 2007, , .		5
36	Spiking Chemical Sensor (SCS): A new platform for neuro-chemical sensing. , 2007, , .		3

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37	The Effect of Interference Source Proximity on Cuff Imbalance. IEEE Transactions on Biomedical Engineering, 2006, 53, 354-357.	4.2	6
38	On Cuff Imbalance and Tripolar ENG Amplifier Configurations. IEEE Transactions on Biomedical Engineering, 2005, 52, 314-320.	4.2	40
39	An adaptive ENG amplifier for tripolar cuff electrodes. IEEE Journal of Solid-State Circuits, 2005, 40, 412-421.	5.4	22
40	Design of an Adaptive Interference Reduction System for Nerve-Cuff Electrode Recording. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2004, 51, 629-639.	0.1	24
41	Experimental assessment of imbalance conditions in a tripolar cuff for ENG recordings. , 0, , .		4
42	Comparison of three ENG tripolar cuff recording configurations. , 0, , .		2
43	An improved, very long time-constant CMOS integrator for use in implantable neuroprosthetic devices. , 0, , .		4
44	A BiCMOS ENG Amplifier with High SIR Output. , 0, , .		2