

P Bertemes-Filho

List of Publications by Year in descending order

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Version: 2024-02-01

62
papers

563
citations

933447

10
h-index

677142

22
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72
all docs

72
docs citations

72
times ranked

518
citing authors

#	ARTICLE	IF	CITATIONS
1	A comparison of modified Howland circuits as current generators with current mirror type circuits. <i>Physiological Measurement</i> , 2000, 21, 1-6.	2.1	178
2	Bipolar and tetrapolar transfer impedance measurements from volume conductor. <i>Electronics Letters</i> , 2000, 36, 2060.	1.0	48
3	High Accurate Howland Current Source: Output Constraints Analysis. <i>Circuits and Systems</i> , 2013, 04, 451-458.	0.1	42
4	Howland current source for high impedance load applications. <i>Review of Scientific Instruments</i> , 2017, 88, 114705.	1.3	22
5	Biomedical Serious Game System for Balance Rehabilitation of Hemiparetic Stroke Patients. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2018, 26, 2179-2188.	4.9	20
6	Analytical Model for Blood Glucose Detection Using Electrical Impedance Spectroscopy. <i>Sensors</i> , 2020, 20, 6928.	3.8	18
7	Low power current sources for bioimpedance measurements: a comparison between Howland and OTA-based CMOS circuits. <i>Journal of Electrical Bioimpedance</i> , 2012, 3, 66-73.	0.9	17
8	Mirrored Modified Howland Circuit for Bioimpedance Applications: Analytical Analysis. <i>Journal of Physics: Conference Series</i> , 2012, 407, 012030.	0.4	13
9	Mirrored enhanced Howland current source with feedback control. <i>Review of Scientific Instruments</i> , 2019, 90, 024702.	1.3	13
10	Frequency-domain reconstruction of signals in electrical bioimpedance spectroscopy. <i>Medical and Biological Engineering and Computing</i> , 2009, 47, 1093-1102.	2.8	11
11	Electrical properties of phantoms for mimicking breast tissue. , 2017, 2017, 157-160.		11
12	Efficient Computational Techniques in Bioimpedance Spectroscopy. , 2012, , .		10
13	Gelatin: a skin phantom for bioimpedance spectroscopy. <i>Biomedical Physics and Engineering Express</i> , 2015, 1, 035001.	1.2	10
14	Analog Front-End for the Integrated Circuit AD5933 Used in Electrical Bioimpedance Measurements. <i>IFMBE Proceedings</i> , 2016, , 48-51.	0.3	10
15	Stand-off electrode (SoE): a new method for improving the sensitivity distribution of a tetrapolar probe. <i>Physiological Measurement</i> , 2003, 24, 517-525.	2.1	8
16	Bioelectrical impedance analysis for bovine milk: Preliminary results. <i>Journal of Physics: Conference Series</i> , 2010, 224, 012133.	0.4	8
17	Design and Evaluation of an Electrical Bioimpedance Device Based on DIBS for Myography during Isotonic Exercises. <i>Journal of Low Power Electronics and Applications</i> , 2018, 8, 50.	2.0	8
18	Assessing the composition of the soft tissue in lamb carcasses with bioimpedance and accessory measures. <i>Meat Science</i> , 2020, 169, 108192.	5.5	8

#	ARTICLE	IF	CITATIONS
19	Wide Band Howland Bipolar Current Source using AGC Amplifier. IEEE Latin America Transactions, 2009, 7, 514-518.	1.6	7
20	Detection of Bovine Milk Adulterants Using Bioimpedance Measurements and Artificial Neural Network. IFMBE Proceedings, 2011, , 1275-1278.	0.3	7
21	Multichannel Bipolar Current Source Used in Electrical Impedance Spectroscopy: Preliminary Results. IFMBE Proceedings, 2009, , 657-660.	0.3	5
22	Numerical sensitivity modeling for the detection of skin tumors by using tetrapolar probe. Electromagnetic Biology and Medicine, 2011, 30, 235-245.	1.4	5
23	The effect of the random distribution of electronic components in the output characteristics of the Howland current source. Journal of Physics: Conference Series, 2013, 434, 012019.	0.4	5
24	Designing a mirrored Howland circuit with a particle swarm optimisation algorithm. International Journal of Electronics, 2016, 103, 1029-1037.	1.4	5
25	Bioelectrical impedance analysis of bovine milk fat. Journal of Physics: Conference Series, 2012, 407, 012009.	0.4	4
26	Note: Temperature effects in the modified Howland current source for electrical bioimpedance spectroscopy. Review of Scientific Instruments, 2017, 88, 076103.	1.3	4
27	Electrical Impedance Spectroscopy. , 2018, , 5-27.		4
28	Gelatin as a Skin Phantom for Bioimpedance Spectroscopy. IFMBE Proceedings, 2015, , 178-182.	0.3	4
29	Hardware for cell culture electrical impedance tomography: A critical review. Review of Scientific Instruments, 2021, 92, 104704.	1.3	4
30	Serious game for locomotor rehabilitation of hemiparetic stroke patients. Fisioterapia Em Movimento, 0, 33, .	0.1	4
31	Low Cost Biofeedback System for Muscular Strength Analysis and Training. IEEE Latin America Transactions, 2016, 14, 575-581.	1.6	3
32	The effect of silver nanowires on the formation of aggregates of poly(3-hexylthiophene) in films deposited on reduced graphene oxide. Journal of Nanoparticle Research, 2021, 23, 1.	1.9	3
33	Design of Howland current sources using differential evolution optimization. Journal of Electrical Bioimpedance, 2020, 11, 96-100.	0.9	3
34	A Serious Game for Training and Evaluating the Balance of Hemiparetic Stroke Patients. IFMBE Proceedings, 2015, , 1128-1131.	0.3	2
35	New Quantitative Indicator for Measuring the Quality of Road. IEEE Latin America Transactions, 2016, 14, 582-585.	1.6	2
36	Modeling parasitic effects with a RLC-RSC model in electrical impedance measurements. Journal of Physics: Conference Series, 2019, 1272, 012019.	0.4	2

#	ARTICLE	IF	CITATIONS
37	Designing a current source. , 2021, , 79-98.		2
38	Topical issues in electrical impedance tomography and bioimpedance application research. Physiological Measurement, 2020, 41, 120301.	2.1	2
39	Low Cost System for Fall Detection in the Elderly. , 2020, , .		2
40	Ripening classification of bananas (Musa acuminata) using electrical impedance spectroscopy and support vector machine. International Journal of Biosensors & Bioelectronics, 2020, 6, 99-101.	0.2	2
41	Dynamometry as a Coadjuvant Analysis for the Characterization of Frailty Syndrome in the Elderly. IFMBE Proceedings, 2015, , 107-110.	0.3	2
42	Extracting parasite effects of electrical bioimpedance measurements. Journal of Electrical Bioimpedance, 2018, 9, 115-122.	0.9	2
43	Electrode Probe Modeling for Skin Cancer Detection by using Impedance Method. IEEE Latin America Transactions, 2012, 10, 1466-1475.	1.6	1
44	Water volume measuring system using the capacitive sensor technique. IEEE Latin America Transactions, 2015, 13, 3803-3806.	1.6	1
45	Biomedical Control Interface for a Physical Rehabilitation Serious Game. IEEE Latin America Transactions, 2016, 14, 38-44.	1.6	1
46	Using segmental bioimpedance analysis to estimate soft tissue and chemical composition of retail cuts and carcasses of lambs. Meat Science, 2022, 183, 108644.	5.5	1
47	Biosensor Based on Carbon Nanocomposites for Detecting Glucose Concentration in Water. IFMBE Proceedings, 2020, , 33-37.	0.3	1
48	Phase/Magnitude Retrieval Algorithms in Electrical Bioimpedance Spectroscopy. IFMBE Proceedings, 2009, , 5-8.	0.3	1
49	Gel Impedance Used as a Pressure Sensor: Preliminary Results. IFMBE Proceedings, 2020, , 1481-1487.	0.3	1
50	Acquisition and recognition of ultrasonic signatures using multi-layer neural network. International Journal of Biosensors & Bioelectronics, 2020, 6, 70-73.	0.2	1
51	Intelligent agents in biomedical engineering: a systematic review. International Journal of Biosensors & Bioelectronics, 2020, 6, 123-128.	0.2	1
52	Plant tissue differentiation using electrical impedance spectroscopy with deep neural networks. International Journal of Biosensors & Bioelectronics, 2020, 6, .	0.2	1
53	A New Impedance Sensor Based on Electronically Implemented Chaotic Coupled van der Pol and Damped Duffing Oscillators. Frontiers in Electronics, 2022, 3, .	3.2	1
54	Low-Cost Body Impedance Analyzer for Healthcare Applications. IFMBE Proceedings, 2016, , 56-59.	0.3	0

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55	Modified carbon-paste-surface electrode for NaCl and KCl solution measurements. Measurement Science and Technology, 2019, 30, 105103.	2.6	0
56	Blood Glucose Detection Using 3-LEDs: Analytical Model. Revista Brasileira De Física Médica, 0, 15, 613.	0.0	0
57	First Latin-American Conference on Bioimpedance (CLABIO 2012). Journal of Physics: Conference Series, 2012, 407, 011001.	0.4	0
58	Medición del volumen de aire en hidrómetro residencial: resultados preliminares. Ingeniería Solidaria, 2016, 12, 73-79.	0.2	0
59	Sistema Biomédico para Avaliação e Reabilitação Motora em Hemiparéticos por AVC. , 0, , .		0
60	INTERNET OF THINGS NA ENGENHARIA BIOMÉDICA. , 0, , 68-76.		0
61	Glucose detection of ringer-lactate solution using electrical bioimpedance: preliminary results. Journal of Physics: Conference Series, 2021, 2008, 012003.	0.4	0
62	Absolute Images Reconstruction in Heart and Lungs for COVID-19 Patients using Multifrequencial Electrical Impedance Tomography System and D-Bar Method. , 2022, , 130-225.		0