

Ramon Bragos

List of Publications by Year in descending order

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86
papers

1,734
citations

236925

25
h-index

302126

39
g-index

86
all docs

86
docs citations

86
times ranked

1985
citing authors

#	ARTICLE	IF	CITATIONS
1	Developing innovation competences in engineering students: a comparison of two approaches. <i>European Journal of Engineering Education</i> , 2022, 47, 353-372.	2.3	8
2	Minimally Invasive Lung Tissue Differentiation Using Electrical Impedance Spectroscopy: A Comparison of the 3- and 4-Electrode Methods. <i>IEEE Access</i> , 2022, 10, 7354-7367.	4.2	4
3	Robustness of focused and global impedance estimates of bladder volumes against uncertainty of urine conductivity. <i>Biomedical Physics and Engineering Express</i> , 2020, 6, 045008.	1.2	7
4	A simplified implementation of the stationary liquid mass balance method for onâ€line OUR monitoring in animal cell cultures. <i>Journal of Chemical Technology and Biotechnology</i> , 2018, 93, 1757-1766.	3.2	11
5	Endocardial infarct scar recognition by myocardial electrical impedance is not influenced by changes in cardiac activation sequence. <i>Heart Rhythm</i> , 2018, 15, 589-596.	0.7	24
6	In vitro analysis of various cell lines responses to electroporative electric pulses by means of electrical impedance spectroscopy. <i>Biosensors and Bioelectronics</i> , 2018, 117, 207-216.	10.1	18
7	Structural changes of <i>Arthrospira</i> sp. after low energy sonication treatment for microalgae harvesting: Elucidating key parameters to detect the rupture of gas vesicles. <i>Bioresource Technology</i> , 2017, 223, 98-104.	9.6	7
8	Noninvasive Assessment of an Engineered Bioactive Graft in Myocardial Infarction: Impact on Cardiac Function and Scar Healing. <i>Stem Cells Translational Medicine</i> , 2017, 6, 647-655.	3.3	28
9	Electromechanical Conditioning of Adult Progenitor Cells Improves Recovery of Cardiac Function After Myocardial Infarction. <i>Stem Cells Translational Medicine</i> , 2017, 6, 970-981.	3.3	26
10	Recognition of Fibrotic Infarct Density by the Pattern of Local Systolic-Diastolic Myocardial Electrical Impedance. <i>Frontiers in Physiology</i> , 2016, 7, 389.	2.8	12
11	Realâ€time and onâ€line monitoring of morphological cell parameters using electrical impedance spectroscopy measurements. <i>Journal of Chemical Technology and Biotechnology</i> , 2016, 91, 1755-1762.	3.2	17
12	Early detection of acute transmural myocardial ischemia by the phasic systolic-diastolic changes of local tissue electrical impedance. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2016, 310, H436-H443.	3.2	10
13	Myocardial contractility assessed by dynamic electrical impedance measurements during dobutamine stress. , 2015, 2015, 6548-51.		1
14	Interpulse multifrequency electrical impedance measurements during electroporation of adherent differentiated myotubes. <i>Bioelectrochemistry</i> , 2015, 105, 123-135.	4.6	25
15	Electrical stimulation of cardiac adipose tissue-derived progenitor cells modulates cell phenotype and genetic machinery. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2015, 9, E76-E83.	2.7	35
16	Propagation of Measurement Errors Through Body Composition Equations for Body Impedance Analysis. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2014, 63, 1535-1544.	4.7	23
17	A pilot spectroscopy study on time-varying bioimpedance during electrically-induced muscle contraction. , 2014, 2014, 3739-42.		5
18	Differentiation of the intracellular structure of slow- versus fast-twitch muscle fibers through evaluation of the dielectric properties of tissue. <i>Physics in Medicine and Biology</i> , 2014, 59, 2369-2380.	3.0	29

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19	Development and impedimetric evaluation of a magnetic interdigitated microelectrode. Sensors and Actuators B: Chemical, 2014, 203, 444-451.	7.8	3
20	A new spiral microelectrode assembly for electroporation and impedance measurements of adherent cell monolayers. Biomedical Microdevices, 2014, 16, 575-590.	2.8	12
21	An FPGA-based frequency response analyzer for multisine and stepped sine measurements on stationary and time-varying impedance. Measurement Science and Technology, 2014, 25, 015501.	2.6	20
22	Online monitoring of myocardial bioprosthesis for cardiac repair. International Journal of Cardiology, 2014, 174, 654-661.	1.7	34
23	Gene Transfer to Adherent Cells by in situ Electroporation with a Spiral Microelectrode Assembly. IFMBE Proceedings, 2014, , 900-903.	0.3	0
24	An implantable bioimpedance monitor using 2.45 GHz band for telemetry. Physiological Measurement, 2013, 34, 1-16.	2.1	24
25	Novel approach of processing electrical bioimpedance data using differential impedance analysis. Medical Engineering and Physics, 2013, 35, 1349-1357.	1.7	33
26	In vivo electrical bioimpedance characterization of human lung tissue during the bronchoscopy procedure. A feasibility study. Medical Engineering and Physics, 2013, 35, 949-957.	1.7	38
27	A new measuring and identification approach for time-varying bioimpedance using multisine electrical impedance spectroscopy. Physiological Measurement, 2013, 34, 339-357.	2.1	68
28	Minimal implementation of an AFE4300-based spectrometer for electrical impedance spectroscopy measurements. Journal of Physics: Conference Series, 2013, 434, 012014.	0.4	8
29	Towards an accurate bioimpedance identification. Journal of Physics: Conference Series, 2013, 434, 012002.	0.4	1
30	Harmonic impedance spectra identification from time-varying bioimpedance: theory and validation. Physiological Measurement, 2013, 34, 1217-1238.	2.1	25
31	Ventilation and Heart Rate Monitoring in Drivers using a Contactless Electrical Bioimpedance System. Journal of Physics: Conference Series, 2013, 434, 012047.	0.4	6
32	Textile electrode characterization: dependencies in the skin-clothing-electrode interface. Journal of Physics: Conference Series, 2013, 434, 012024.	0.4	3
33	On the calculation of the D -optimal multisine excitation power spectrum for broadband impedance spectroscopy measurements. Measurement Science and Technology, 2012, 23, 085702.	2.6	25
34	Influence of electrical stimulation on 3D-cultures of Adipose Tissue derived progenitor cells (ATDPCs) behavior. , 2012, 2012, 5658-61.		6
35	Automatic system for electroporation of adherent cells growing in standard multi-well plates. , 2012, 2012, 2571-4.		4
36	iLabRS: A remote laboratory for science & technology in secondary education. , 2012, , .		1

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37	Towards on line monitoring the evolution of the myocardium infarction scar with an implantable electrical impedance spectrum monitoring system. , 2012, 2012, 3223-6.		4
38	Interoperability platform for virtual and remote laboratories. , 2012, , .		3
39	Basics of broadband impedance spectroscopy measurements using periodic excitations. Measurement Science and Technology, 2012, 23, 105501.	2.6	71
40	Minimally invasive in vivo human lung tissue bioimpedance measurements during the bronchoscopy procedure. , 2012, 2012, 130-3.		2
41	Design and Implementation of a Microelectrode Assembly for Use on Noncontact In Situ Electroporation of Adherent Cells. Journal of Membrane Biology, 2012, 245, 617-624.	2.1	14
42	Electrical impedance spectroscopy measurements using a four-electrode configuration improve on-line monitoring of cell concentration in adherent animal cell cultures. Biosensors and Bioelectronics, 2012, 31, 257-263.	10.1	48
43	Development of a simple disposable six minibioreactor system for suspension mammalian cell culture. Process Biochemistry, 2012, 47, 597-605.	3.7	5
44	Novel Estimation of the Electrical Bioimpedance Using the Local Polynomial Method. Application to In Vivo Real-Time Myocardium Tissue Impedance Characterization During the Cardiac Cycle. IEEE Transactions on Biomedical Engineering, 2011, 58, 3376-3385.	4.2	48
45	Simple voltage-controlled current source for wideband electrical bioimpedance spectroscopy: circuit dependences and limitations. Measurement Science and Technology, 2011, 22, 115801.	2.6	28
46	Optimal multisine excitation design for broadband electrical impedance spectroscopy. Measurement Science and Technology, 2011, 22, 115601.	2.6	67
47	In-cycle myocardium tissue electrical impedance monitoring using broadband impedance spectroscopy. , 2011, 2011, 2518-21.		4
48	Learning to Conceive, Design, Implement and Operate Circuits and Systems. , 2011, , .		3
49	Influence of the multisine excitation amplitude design for biomedical applications using Impedance Spectroscopy. , 2011, 2011, 3975-8.		8
50	Performance of the load-in-the-loop single Op-Amp voltage Controlled current source from the Op-Amp Parameters. Journal of Physics: Conference Series, 2010, 224, 012008.	0.4	3
51	Performance of an implantable impedance spectroscopy monitor using ZigBee. Journal of Physics: Conference Series, 2010, 224, 012163.	0.4	8
52	AD5933-based spectrometer for electrical bioimpedance applications. Journal of Physics: Conference Series, 2010, 224, 012011.	0.4	33
53	Multifrequency simultaneous bioimpedance measurements using multitone burst signals for dynamic tissue characterization. Journal of Physics: Conference Series, 2010, 224, 012004.	0.4	5
54	A remote laboratory to promote the interaction between University and Secondary Education. , 2010, , .		2

#	ARTICLE	IF	CITATIONS
55	GILABVIR: Virtual Laboratories and Remote Laboratories in engineering: A teaching innovation group of interest. , 2010, , .		2
56	Implantable bioimpedance monitor using ZigBee. , 2009, 2009, 4868-71.		2
57	Fast Electrical Impedance Spectroscopy for Moving Tissue Characterization Using Bilateral QuasiLogarithmic Multisine Bursts Signals. IFMBE Proceedings, 2009, , 1084-1087.	0.3	5
58	Measurement errors in multifrequency bioelectrical impedance analyzers with and without impedance electrode mismatch. Physiological Measurement, 2009, 30, 573-587.	2.1	37
59	Continuous oxygen consumption estimation method for animal cell bioreactors based on a low-cost control of the medium dissolved oxygen concentration. IFMBE Proceedings, 2009, , 2190-2194.	0.3	0
60	Performance of a portable biosensor for the analysis of organophosphorus and carbamate insecticides in water and food. Sensors and Actuators B: Chemical, 2008, 133, 195-201.	7.8	92
61	Development of a portable biosensor for screening neurotoxic agents in water samples. Talanta, 2008, 75, 1208-1213.	5.5	38
62	An analog front-end enables electrical impedance spectroscopy system on-chip for biomedical applications. Physiological Measurement, 2008, 29, S267-S278.	2.1	82
63	Changes in myocardial electrical impedance in human heart graft rejection. European Journal of Heart Failure, 2008, 10, 594-600.	7.1	14
64	Experimental method of mis measurement of an electrolytic cell with a passive wireless sensor. , 2008, , .		0
65	Modular Workbench for In-Situ and Remote Laboratories. Conference Record - IEEE Instrumentation and Measurement Technology Conference, 2007, , .	0.0	8
66	FGF-4 increases<i>in vitro</i> expansion rate of human adult bone marrow-derived mesenchymal stem cells. Growth Factors, 2007, 25, 71-76.	1.7	47
67	Current Source for Multifrequency Broadband Electrical Bioimpedance Spectroscopy Systems. A Novel Approach. , 2006, 2006, 5121-5.		30
68	Four Versus Two-Electrode Measurement Strategies for Cell Growing and Differentiation Monitoring Using Electrical Impedance Spectroscopy. , 2006, 2006, 2106-9.		24
69	Multiple automated minibioreactor system for multifunctional screening in biotechnology. , 2006, 2006, 632-5.		7
70	On-line monitoring of yeast cell growth by impedance spectroscopy. Journal of Biotechnology, 2005, 118, 398-405.	3.8	71
71	Design and performance of an electrical stimulator for long-term contraction of cultured muscle cells. BioTechniques, 2004, 36, 68-73.	1.8	37
72	Transmural Versus Nontransmural In Situ Electrical Impedance Spectrum for Healthy, Ischemic, and Healed Myocardium. IEEE Transactions on Biomedical Engineering, 2004, 51, 1421-1427.	4.2	54

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73	Correction to "Error analysis and reduction for a simple sensor-microcontroller interface". IEEE Transactions on Instrumentation and Measurement, 2003, 52, 990-990.	4.7	1
74	On-line Monitoring of Microbial Cell Concentration in Fermentation Production of CAVA. , 2003, , .		0
75	Error analysis and reduction for a simple sensor-microcontroller interface. IEEE Transactions on Instrumentation and Measurement, 2001, 50, 1644-1647.	4.7	24
76	Percutaneous Electrocatheter Technique for On-Line Detection of Healed Transmural Myocardial Infarction. PACE - Pacing and Clinical Electrophysiology, 2000, 23, 1283-1287.	1.2	28
77	Algorithms for parametric images in MEIT systems. Physiological Measurement, 2000, 21, 35-43.	2.1	3
78	In Vivo and In Situ Ischemic Tissue Characterization Using Electrical Impedance Spectroscopy. Annals of the New York Academy of Sciences, 1999, 873, 51-58.	3.8	86
79	Biomass Monitoring Using Impedance Spectroscopy. Annals of the New York Academy of Sciences, 1999, 873, 299-305.	3.8	23
80	Improvement of a Front End for Bioimpedance Spectroscopy. Annals of the New York Academy of Sciences, 1999, 873, 306-312.	3.8	14
81	Passive transmission of ischemic ST segment changes in low electrical resistance myocardial infarct scar in the pig. Cardiovascular Research, 1998, 40, 103-112.	3.8	42
82	Robotic tactile recognition of pseudo-random encoded objects. , 0, , .		2
83	Control of Biological Life Support Systems: Development of Non-Invasive, Direct Monitoring of Free and Immobilised Biomass Concentration in a Bioreactor. , 0, , .		0
84	Electrical Impedance Spectroscopy for On-Line Estimation of Viable Biomass. , 0, , .		0
85	On-line measurement of urea in blood using optical spectroscopy in the visible range; Validation of the cell shrinkage hypothesis. , 0, , .		3
86	Multiparametric measurement system for detection of cardiac graft rejection. , 0, , .		1