

Marcio Souza

List of Publications by Year in descending order

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Version: 2024-02-01

63
papers

827
citations

567281

15
h-index

526287

27
g-index

65
all docs

65
docs citations

65
times ranked

3056
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | A bioimpedance spectroscopy technique to monitor bioprocess involving complex growth micro-organisms. <i>AIP Advances</i> , 2021, 11, 065032. | 1.3 | 1 |
| 2 | A novel model to simulate venous occlusion plethysmography data and to estimate arterial and venous parameters. <i>Research on Biomedical Engineering</i> , 2020, 36, 463-473. | 2.2 | 1 |
| 3 | Invasive electrical impedance myography at different levels of contraction of gastrocnemius muscle of rat. <i>Review of Scientific Instruments</i> , 2020, 91, 084103. | 1.3 | 5 |
| 4 | Behavior of Electrical Resistance in Gastrocnemius Muscle of Rats During Contractions with Different Intensities. <i>IFMBE Proceedings</i> , 2019, , 879-883. | 0.3 | 0 |
| 5 | Tissue Engineering Instrumentation Based on Electrical Impedance Measurements. , 2018, , 87-100. | | 0 |
| 6 | Adults with initial metabolic syndrome have altered muscle deoxygenation during incremental exercise. <i>Obesity</i> , 2017, 25, 424-431. | 3.0 | 4 |
| 7 | Lactate threshold by muscle electrical impedance in professional rowers. <i>Review of Scientific Instruments</i> , 2017, 88, 045105. | 1.3 | 5 |
| 8 | Time-scaling based sliding mode control for Neuromuscular Electrical Stimulation under uncertain relative degrees. <i>Medical Engineering and Physics</i> , 2017, 44, 53-62. | 1.7 | 18 |
| 9 | Is the Frequency in Somatosensory Electrical Stimulation the Key Parameter in Modulating the Corticospinal Excitability of Healthy Volunteers and Stroke Patients with Spasticity?. <i>Neural Plasticity</i> , 2016, 2016, 1-11. | 2.2 | 10 |
| 10 | Detection of questionable occlusal carious lesions using an electrical bioimpedance method with fractional electrical model. <i>Review of Scientific Instruments</i> , 2016, 87, 084305. | 1.3 | 5 |
| 11 | Does acute exposure to aldehydes impair pulmonary function and structure?. <i>Respiratory Physiology and Neurobiology</i> , 2016, 229, 34-42. | 1.6 | 1 |
| 12 | An Alternative Electrical Impedance Myography Technique for Assessment of Local Muscular Fatigue. <i>IFMBE Proceedings</i> , 2016, , 24-27. | 0.3 | 1 |
| 13 | Waveform Similarity Analysis: A Simple Template Comparing Approach for Detecting and Quantifying Noisy Evoked Compound Action Potentials. <i>PLoS ONE</i> , 2015, 10, e0136992. | 2.5 | 3 |
| 14 | Inverse Kinematics of Push-Up Exercise Using Joint Coordinate System. <i>Journal of Medical Imaging and Health Informatics</i> , 2014, 4, 83-91. | 0.3 | 2 |
| 15 | Behaviour of the electrical impedance myography in isometric contraction of biceps brachii at different elbow joint angles. <i>Journal of Physics: Conference Series</i> , 2012, 407, 012017. | 0.4 | 0 |
| 16 | Effects of Intense Physical Activity with Free Water Replacement on Bioimpedance Parameters and Body Fluid Estimates. <i>Journal of Physics: Conference Series</i> , 2012, 407, 012002. | 0.4 | 0 |
| 17 | Iterative optimization algorithm - An alternative clustering tool for biological analysis using flow cytometry data. , 2012, , . | | 1 |
| 18 | Noninvasive pressure pulse waveform analysis of flow-mediated vasodilation evoked by post-occlusive reactive hyperemia maneuver. <i>Biomedical Signal Processing and Control</i> , 2012, 7, 616-621. | 5.7 | 8 |

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|----|--|-----|-----------|
| 19 | Noise measurement in NICUs and incubators with newborns: a systematic literature review. Revista Latino-Americana De Enfermagem, 2011, 19, 212-221. | 1.0 | 15 |
| 20 | Model for post-occlusive reactive hyperemia as measured noninvasively with pressure pulse waveform. Biomedical Signal Processing and Control, 2011, 6, 410-413. | 5.7 | 4 |
| 21 | Knee bioelectric impedance assessment in healthy/with osteoarthritis subjects. Physiological Measurement, 2010, 31, 207-219. | 2.1 | 23 |
| 22 | An alternative approach in muscle fatigue evaluation from the surface EMG signal. , 2010, 2010, 2419-22. | | 5 |
| 23 | A fractional electrical impedance model in detection of occlusal non-cavitated carious. , 2010, 2010, 6551-4. | | 3 |
| 24 | Intra- and inter-tester reproducibility of venous occlusion plethysmography: comparison between a manual and a semi-automatic method of blood flow analysis. Physiological Measurement, 2009, 30, 1267-1279. | 2.1 | 14 |
| 25 | Military parachuting injuries in Brazil. Injury, 2009, 40, 897-900. | 1.7 | 15 |
| 26 | Three-section transmission-line arterial model for noninvasive assessment of vascular remodeling in primary hypertension. Biomedical Signal Processing and Control, 2009, 4, 2-6. | 5.7 | 14 |
| 27 | Comparison of two bioimpedance spectroscopy techniques in the assessment of body fluid volumes. , 2009, 2009, 853-6. | | 2 |
| 28 | A novel electromyographic signal simulator for muscle contraction studies. Computer Methods and Programs in Biomedicine, 2008, 89, 269-274. | 4.7 | 9 |
| 29 | Assessment of characteristic of the vasomotor control dynamics based on plethysmographic blood flow measurement. Physiological Measurement, 2008, 29, 205-215. | 2.1 | 4 |
| 30 | Evaluation of Arm Dominance by Using the Mechanomyographic Signal. Journal of Motor Behavior, 2008, 40, 83-89. | 0.9 | 1 |
| 31 | Objective assessment of knee osteoarthritis in parachuters by bioimpedance spectroscopy. , 2008, 2008, 5620-3. | | 5 |
| 32 | A Programmable System of Functional Electrical Stimulation (FES). Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 2234-7. | 0.5 | 11 |
| 33 | Longitudinal Study of the Fundamental Frequency of Hunger Cries Along the First 6 Months of Healthy Babies. Journal of Voice, 2007, 21, 551-559. | 1.5 | 26 |
| 34 | Estimation of the Lactate Threshold Using Bioelectrical Impedance Spectroscopy: A New Noninvasive Method. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 3052-5. | 0.5 | 2 |
| 35 | Electrical impedance model for evaluation of skin irritation in rabbits and humans. Skin Research and Technology, 2007, 13, 259-267. | 1.6 | 21 |
| 36 | Simplified Distributed-Parametermodel of Brachial-Radial Arteries for Noninvasive Determination of Mechanical Characteristics of Vessel. , 2006, 2006, 1814-7. | | 0 |

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|----|---|-----|-----------|
| 37 | Assessment of Acute Skin Irritation in Rabbits Using Electrical Impedance Model. , 2006, 2006, 1665-8. | | 0 |
| 38 | Bioelectrical impedance spectroscopy for the assessment of body fluid volumes of term neonates. Brazilian Journal of Medical and Biological Research, 2004, 37, 1595-1606. | 1.5 | 15 |
| 39 | Determination of radial artery compliance can increase the diagnostic power of pulse wave velocity measurement. Physiological Measurement, 2004, 25, 37-50. | 2.1 | 19 |
| 40 | A method for bio-electrical impedance analysis based on a step-voltage response. Physiological Measurement, 2000, 21, 395-408. | 2.1 | 36 |
| 41 | Neural second-level trigger system based on calorimetry. Computer Physics Communications, 1996, 95, 143-157. | 7.5 | 10 |
| 42 | Test results of an electromagnetic calorimeter with 0.5 mm scintillating fibers readout. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1994, 337, 314-325. | 1.6 | 12 |
| 43 | Test results of a fully projective lead/scintillating-fiber calorimeter. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1994, 337, 326-341. | 1.6 | 13 |
| 44 | A fast signal adder for applications with calorimeters. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1994, 350, 300-304. | 1.6 | 2 |
| 45 | Application of the artificial neural network approach to the recognition of specific patterns in Auger electron spectroscopy. Surface and Interface Analysis, 1993, 20, 1047-1050. | 1.8 | 13 |
| 46 | An artificial neural network applied to the identification of Mössbauer spectra of corrosion products. Nuclear Instruments & Methods in Physics Research B, 1993, 73, 95-100. | 1.4 | 15 |
| 47 | The performance of a lead/scintillating-fiber calorimeter at LHC/SSC compatible gate widths. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1992, 314, 431-449. | 1.6 | 16 |
| 48 | A drawback of the center of gravity readout method: the U-effect observed in positron resolution study. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1992, 314, 70-73. | 1.6 | 0 |
| 49 | A simple method for cable compensation with fast pulse transmission applications. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1992, 314, 191-198. | 1.6 | 1 |
| 50 | Detection of muons with a lead/scintillating-fiber calorimeter. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1992, 320, 128-143. | 1.6 | 48 |
| 51 | Lateral shower profiles in a lead/scintillating fiber calorimeter. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1992, 316, 184-201. | 1.6 | 44 |
| 52 | Electron, pion and multiparticle detection with a lead/scintillating-fiber calorimeter. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1991, 308, 481-508. | 1.6 | 97 |
| 53 | On muon production and other leakage aspects of pion absorption in a lead/scintillating-fiber calorimeter. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1991, 309, 143-159. | 1.6 | 18 |
| 54 | Electron-pion discrimination with a scintillating fiber calorimeter. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1991, 302, 36-46. | 1.6 | 45 |

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|----|---|-----|-----------|
| 55 | Localizing particles showering in a Spaghetti Calorimeter. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1991, 305, 55-70. | 1.6 | 46 |
| 56 | Results of prototype studies for a spaghetti calorimeter. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1990, 294, 193-210. | 1.6 | 108 |
| 57 | Distortionless bidimensional localization on a resistive plane: A pure hardware way. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1987, 261, 500-518. | 1.6 | 2 |
| 58 | Semi-automatic system developed to quantify arterial baroreflex sensitivity. , 0, , . | | 0 |
| 59 | Detection of first and second cardiac sounds based on time frequency analysis. , 0, , . | | 12 |
| 60 | Comparison of segmental arterial compliance determined with three and four element Windkessel models. , 0, , . | | 4 |
| 61 | Assessment of knee osteoarthritis by bioelectrical impedance. , 0, , . | | 11 |
| 62 | Stimulus artifact cancellation in click evoked otoacoustic emissions using linear prediction. , 0, , . | | 0 |
| 63 | Results of an EIT prototype able to supply static images. , 0, , . | | 1 |