Jurandir Nadal

List of Publications by Year
in descending order

105 papers	1,419 citations	471061 17 h-index	377514 34 g-index
108 all docs	108 docs citations	108 times ranked	1777 citing authors

#	Article	IF	Citations
1	Calculation of area of stabilometric signals using principal component analysis. Physiological Measurement, 1996, 17, 305-312.	1.2	223
2	Comparison among probabilistic neural network, support vector machine and logistic regression for evaluating the effect of subthalamic stimulation in Parkinson disease on ground reaction force during gait. Journal of Biomechanics, 2010, 43, 720-726.	0.9	107
3	Digital Butterworth filter for subtracting noise from low magnitude surface electromyogram. Computer Methods and Programs in Biomedicine, 2007, 87, 28-35.	2.6	102
4	Application of principal component analysis in vertical ground reaction force to discriminate normal and abnormal gait. Gait and Posture, 2009, 29, 31-35.	0.6	88
5	Salivary metabolite signatures of children with and without dental caries lesions. Metabolomics, 2013, 9, 657-666.	1.4	58
6	Postural sway changes during pregnancy: A descriptive study using stabilometry. European Journal of Obstetrics, Gynecology and Reproductive Biology, 2009, 147, 25-28.	0.5	54
7	An overview of age-related changes in postural control during quiet standing tasks using classical and modern stabilometric descriptors. Journal of Electromyography and Kinesiology, 2009, 19, e513-e519.	0.7	41
8	Estimation procedures affect the center of pressure frequency analysis. Brazilian Journal of Medical and Biological Research, 2009, 42, 665-673.	0.7	36
9	Anticipation mechanism in body sway control and effect of muscle fatigue. Journal of Electromyography and Kinesiology, 2007, 17, 739-746.	0.7	34
10	Efeitos da idade e da aptidão aeróbica na recuperação da frequência cardíaca em homens adultos. Arquivos Brasileiros De Cardiologia, 2012, 99, 802-810.	0.3	30
11	Lumbar back muscle activity of helicopter pilots and whole-body vibration. Journal of Biomechanics, 2001, 34, 1309-1315.	0.9	29
12	Objective selection of signals for assessment of cerebral blood flow autoregulation in neonates. Physiological Measurement, 2006, 27, 35-49.	1.2	24
13	Accuracy of the Who's Body Mass Index Cut-Off Points to Measure Gender- and Age-Specific Obesity in Middle-Aged Adults Living in the City of Rio De Janeiro, Brazil. Journal of Public Health Research, 2017, 6, jphr.2017.904.	0.5	24
14	Spectral turbulence analysis of the signal-averaged electrocardiogram of the atrial activation as predictor of recurrence of idiopathic and persistent atrial fibrillation. International Journal of Cardiology, 2006, 107, 307-316.	0.8	23
15	Long-term evaluation of gait initiation in six Parkinson's disease patients with bilateral subthalamic stimulation. Gait and Posture, 2012, 35, 452-457.	0.6	21
16	Isometric fatigue patterns in time and time–frequency domains of triceps surae muscle in different knee positions. Journal of Electromyography and Kinesiology, 2011, 21, 572-578.	0.7	20
17	Assessing Blood Flow Control Through a Bootstrap Method. IEEE Transactions on Biomedical Engineering, 2004, 51, 1284-1286.	2.5	19
18	Stabilometric signal analysis in tests with sound stimuli. Experimental Brain Research, 2007, 181, 229-236.	0.7	19

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19	Classification of gait kinematics of anterior cruciate ligament reconstructed subjects using principal component analysis and regressions modelling. , 2012, 2012, 6514-7.		19
20	Authors reply to comments on "Line patterns in the mosaic electric properties of human skin-a cross correlation study". IEEE Transactions on Biomedical Engineering, 2003, 50, 114.	2.5	18
21	Reduction of electromyographic noise in the signal-averaged electrocardiogram by spectral decomposition. IEEE Transactions on Biomedical Engineering, 2003, 50, 114-117.	2.5	18
22	Residual analysis of ground reaction forces simulation during gait using neural networks with different configurations. , 2015, 2015, 2812-5.		18
23	Effects of maximal oxygen uptake test and prolonged cycle ergometer exercise on the quiet standing control. Gait and Posture, 2010, 32, 220-225.	0.6	16
24	Refining the deceleration capacity index in phase-rectified signal averaging to assess physical conditioning level. Journal of Electrocardiology, 2014, 47, 306-310.	0.4	16
25	Biomechanical alterations of gait on overweight subjects. Research on Biomedical Engineering, 2018, 34, 291-298.	1.5	16
26	The effect of an aerobic training program on the electrical remodeling of the heart: high-frequency components of the signal-averaged electrocardiogram are predictors of the maximal aerobic power. Brazilian Journal of Medical and Biological Research, 2007, 40, 199-208.	0.7	16
27	Effect of Resistance Training on Blood Pressure and Autonomic Responses in Treated Hypertensives. Journal of Strength and Conditioning Research, 2018, 32, 1462-1470.	1.0	14
28	Quantitative Evaluation of the Effects of Subthalamic Stimulation on Gait in Parkinson's Disease Patients Using Principal Component Analysis. International Journal of Neuroscience, 2010, 120, 609-616.	0.8	13
29	Cardiac autonomic responses after resistance exercise in treated hypertensive subjects. Frontiers in Physiology, 2015, 6, 258.	1.3	13
30	Classification of cardiac arrhythmias based on principal component analysis and feedforward neural networks. , 0, , .		12
31	Arrhythmia analysis using artificial neural network and decimated electrocardiographic data. , 0, , .		12
32	Prediction of 3D ground reaction forces during gait based on accelerometer data. Research on Biomedical Engineering, 2018, 34, 211-216.	1.5	12
33	Analysis of the Prevalence of Ventricular Late Potentials in the Late Phase of Myocardial Infarction Based on the Site of Infarction. Arquivos Brasileiros De Cardiologia, 2002, 78, 352-63.	0.3	11
34	Human gait classification after lower limb fracture using Artificial Neural Networks and principal component analysis. , 2010, 2010, 1413-6.		11
35	Back muscle EMG of helicopter pilots in flight: effects of fatigue, vibration, and posture. Aviation, Space, and Environmental Medicine, 2004, 75, 317-22.	0.6	11
36	Principal Component Analysis of Vertical Ground Reaction Force: A Powerful Method to Discriminate Normal and Abnormal Gait and Assess Treatment. , 2006, 2006, 2683-6.		10

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37	Reducing electrocardiographic artifacts from electromyogram signals with independent component analysis. , 2010, 2010, 4598-601.		10
38	Reducing cross terms effects in the Choiâ€"Williams transform of mioelectric signals. Computer Methods and Programs in Biomedicine, 2013, 111, 685-692.	2.6	10
39	Prediction of mild anatomical leg length discrepancy based on gait kinematics and linear regression model. Gait and Posture, 2019, 67, 117-121.	0.6	9
40	Association between circadian Holter ECG changes and sudden cardiac death in patients with Chagas heart disease. Physiological Measurement, 2020, 41, 025006.	1.2	9
41	Transmissibility of helicopter vibration in the spines of pilots in flight. Aviation, Space, and Environmental Medicine, 2005, 76, 576-80.	0.6	9
42	The use of cross correlation function in onset detection of electromyographic signals. , 2013, , .		8
43	Lumbar multifidus and erector spinae electromyograms during back bridge exercise in time and frequency domains. Journal of Back and Musculoskeletal Rehabilitation, 2016, 29, 123-133.	0.4	8
44	Ischemic episode detection using an artificial neural network trained with isolated ST-T segments. , 0, , .		7
45	The effect of configuration parameters of time-frequency maps in the detection of intra-QRS electrical transients of the signal-averaged electrocardiogram: Impact in clinical diagnostic performance. International Journal of Cardiology, 2010, 145, 59-61.	0.8	7
46	Investigating the center of pressure velocity Romberg s quotient for assessing the visual role on the body sway. Revista Brasileira De Engenharia Biomedica, 2012, 28, 319-326.	0.3	7
47	Classification Of Cardiac Arrhythmias Using Principal Component Analysis Of The ECG. , 0, , .		6
48	Differences in timeâ€"frequency representation of lower limbs myoelectric activity during single and double leg landing in male athletes. Journal of Electromyography and Kinesiology, 2011, 21, 506-511.	0.7	6
49	ECG data compression using wavelets. , 0, , .		5
50	Assessment of the effects of subthalamic stimulation in Parkinson disease patients by artificial neural network. , 2008, 2008, 4700-3.		5
51	Influence of Shock Waves and Muscle Activity at Initial Contact on Walkâ€"Run Transition Evaluated by Two Models. Journal of Applied Biomechanics, 2009, 25, 175-183.	0.3	5
52	Effect of aerobic conditioning on ventricular activation: A principal components analysis approach to high-resolution electrocardiogram. Computers in Biology and Medicine, 2013, 43, 1920-1926.	3.9	5
53	Muscle Fatigue Assessment During Cycle Ergometer Exercise Using Principal Component Analysis of Electromyogram Power Spectra. Journal of Applied Biomechanics, 2016, 32, 593-598.	0.3	5
54	Do hip strength, flexibility and running biomechanics predict dynamic valgus in female recreational runners?. Gait and Posture, 2020, 79, 217-223.	0.6	5

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55	Assessment of Autonomic Function by Phase Rectification of RR-Interval Histogram Analysis in Chagas Disease. Arquivos Brasileiros De Cardiologia, 2015, 104, 450-5.	0.3	5
56	Clinical assessment of the effect of digital filtering on the detection of ventricular late potentials. Brazilian Journal of Medical and Biological Research, 2002, 35, 1285-1292.	0.7	4
57	Detection of the Anaerobic Threshold by Surface Electromyography. , 2006, 2006, 6189-92.		4
58	Investigating cardiolocomotor synchronization during running in trained and untrained males. Research on Biomedical Engineering, 2015, 31, 176-186.	1.5	4
59	Electromyographic activity of the lower limb in runners with anterior knee pain while running. Research on Biomedical Engineering, 2021, 37, 135-142.	1.5	4
60	Autoregressive spectral analysis of stabilometric signals. , 0, , .		3
61	Assessment of ventricular late potentials in HIV positive patients based on the RR interval histogram. , 0, , .		3
62	Phase response of the spectral coherence function between heart rate variability and ventricular repolarization duration in normal subjects. , 0, , .		3
63	Time-frequency mapping of the magnitude squared-coherence for intra-QRS potentials detection. , 0, , .		3
64	Effects of maximal oxygen uptake test and prolonged cycle ergometer exercise on sway density plot of postural control. , 2009, 2009, 1351-4.		3
65	Principal components of frequency domain electromyograms for muscular fatigue analysis. , 2010, 2010, 3519-22.		3
66	Localized fatigue effects on quiet standing control by fractional Brownian motion. , 2010, 2010, 2415-8.		3
67	Gait initiation evaluation after deep brain stimulation for Parkinson's disease: A 7-year follow-up. , 2010, 2010, 3650-3.		3
68	Motor coordination during gait after anterior cruciate ligament injury: a systematic review of the literature. Revista Brasileira De Ortopedia, 2013, 48, 293-299.	0.6	3
69	Principal component analysis in high resolution electrocardiogram for risk stratification of sustained monomorphic ventricular tachycardia. Biomedical Signal Processing and Control, 2014, 10, 275-280.	3.5	3
70	Consistency of surface electromyography assessment at lower limb selected muscles during vertical countermovement. , 2017, 2017, 402-405.		3
71	Detection of atrial persistent rhythm based on P-wave recognition and RR interval variability. , 0, , .		2
72	Cross-correlation between head acceleration and stabilograms in humans in orthostatic posture. , 2012, 2012, 3496-9.		2

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73	Role of vestibular sensor on body sway control: Coherence between head acceleration and stabilogram. , 2012, 2012, 4907-10.		2
74	Cardiac autonomic changes in middle€aged women: identification based on principal component analysis. Clinical Physiology and Functional Imaging, 2016, 36, 269-273.	0.5	2
75	Crossover assessment of cardiolocomotor synchronization during running. European Journal of Applied Physiology, 2017, 117, 315-322.	1.2	2
76	Generalized Lower Limb Joint Angular Phase Space Analysis of Subject Specific Normal and Modified Gait. , 2018, 2018, 1490-1493.		2
77	Event-Related Synchronization/Desynchronization for Evaluating Cortical Response Detection Induced by Dynamic Visual Stimuli. IFMBE Proceedings, 2010, , 37-40.	0.2	2
78	In memoriam Antonio Fernando Catelli Infantosi (1947-2016). Research on Biomedical Engineering, 2016, 32, 1-2.	1.5	2
79	Time-frequency analysis of microvolt T-wave alternans in chronic Chagas heart disease. International Journal of Cardiology, 2011, 148, 251-253.	0.8	1
80	Comparison of quadriceps and hamstrings activation ratio between healthy and anterior cruciate ligament reconstructed subjects. , 2013, , .		1
81	A principal component analysis approach to heart rate turbulence assessment in Chagas disease. , 2015, , .		1
82	Dynamic coupling between atrio-ventricular duration and RR-interval histogram phase-rectification analysis in chronic Chagas disease. , 2015, , .		1
83	Validity of P-peak to R-peak interval compared to classical PR-interval to assess dynamic beat-to-beat AV conduction variability on surface electrocardiogram. Biomedical Physics and Engineering Express, 2018, 4, 035037.	0.6	1
84	Lower limb assessment of dynamic stiffness on different human maximum vertical jump. , 2019, , .		1
85	A telediagnosis assistance system for multiple-lead electrocardiography. Physical and Engineering Sciences in Medicine, 2021, 44, 473-485.	1.3	1
86	Unveiling the uncertainty principle in the QRS complex offset detection on high resolution electrocardiography. Revista Brasileira De Engenharia Biomedica, 2011, 27, 215-223.	0.3	1
87	Comparison of two methods for assessment of Microvolt T:Wave Alternans: discrete vs continuous T:wave analysis. , 0, , .		1
88	Avaliação do Tempo de Condução Atrioventricular Dinâmica para Acoplamento ao Intervalo RR em Atletas e Indivíduos Sedentários. Arquivos Brasileiros De Cardiologia, 2020, 115, 71-77.	0.3	1
89	Analysis of the correlation between ventricular depolarization events and heart rate in normal subjects using signal-averaged ECG. , 0, , .		0
90	Anticipation mechanism and influence of fatigue in body sway control. , 0, , .		0

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91	Detection of ventilatory threshold by an automatic parabolic model. , 2008, 2008, 1064-7.		0
92	Teste de forÃ§a de preensÃ£o manual: estudo da fadiga mioelÃ©trica do flexor radial do carpo e flexor superficial dos dedos. Revista Brasileira De EducaÃ§Ã£o FÃsica E Esporte: RBEFE, 2013, 27, 345-353.	0.1	0
93	Beat-to-beat T-peak-T-end Interval Duration Variability Assessed by RR-Interval Histogram Analysis in Healthy Sedentary and Athlete. , 0, , .		0
94	ECG-Based Predictors of Sudden Cardiac Death in Chagasï¿½ Disease. , 2017, , .		0
95	Circadian Comparison of Heart Rate Variability Parameters in Patients with Decompensated Heart Failure. IFMBE Proceedings, 2019, , 103-107.	0.2	0
96	A Statistical Approach for Studying the Power Spectrum of the Center of Pressure Displacement for Subjects in Orthostatic Posture. IFMBE Proceedings, 2007, , 56-60.	0.2	0
97	Independent Component Analysis for Reducing Electrocardiographic Interference in the Multichannel Electromyogram. IFMBE Proceedings, 2011, , 169-172.	0.2	0
98	Time Evolution of the Event-Related Desynchronization/Synchronization Index for Investigating Cortical Response Detection Induced by Dynamic Visual Stimuli. IFMBE Proceedings, 2013, , 1198-1201.	0.2	0
99	Dynamic Coupling Between Ventricular Repolarization Duration and RR:Interval Phase:Rectification Analysis in Chagas Disease. , 0, , .		0
100	Physical Conditioning Status Stratification Based on Heart Rate Variability: Principal Component Analysis of Power Spectrum Density Function. , 0, , .		0
101	Innovative Analysis of 3D Pelvis Coordination on Modified Gait Mode. Lecture Notes in Computational Vision and Biomechanics, 2018, , 447-455.	0.5	0
102	Combined Phase and Magnitude Metric for Validation of Lower Limb Multibody Dynamics Muscle Action with sEMG. IFMBE Proceedings, 2019, , 517-521.	0.2	0
103	342â€¦Does hip strength predict dynamic valgus in female recreational runners?. , 2021, , .		0
104	Improving the Microvolt T-Wave Alternans Peak by Changing the T-Wave Search Window Duration. , 2021, , .		0
105	Detection of the Anaerobic Threshold by Surface Electromyography. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2006, , .	0.5	0