

Alberto Porta

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

343
papers

11,490
citations

56
h-index

96
g-index

393
ext. papers

13,223
ext. citations

3.5
avg, IF

6.03
L-index

#	Paper	IF	Citations
343	Monitoring the Evolution of Asynchrony between Mean Arterial Pressure and Mean Cerebral Blood Flow via Cross-Entropy Methods.. <i>Entropy</i> , 2022 , 24,	2.8	2
342	Improvement of Sympathovagal Balance by Regular Exercise May Counteract the Ageing Process. A Study by the Analysis of QT Variability.. <i>Frontiers in Physiology</i> , 2022 , 13, 880250	4.6	
341	Assessing Correlation between Heart Rate Variability Markers Based on Laguerre Expansion and Direct Measures of Sympathetic Activity during Incremental Head-up Tilt. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2021 , 2021, 5444-5444	0.9	
340	Dynamic cerebrovascular autoregulation in patients prone to postural syncope: Comparison of techniques assessing the autoregulation index from spontaneous variability series. <i>Autonomic Neuroscience: Basic and Clinical</i> , 2021 , 237, 102920	2.4	3
339	Effects of a cool classroom microclimate on cardiac autonomic control and cognitive performances in undergraduate students. <i>Science of the Total Environment</i> , 2021 , 808, 152005	10.2	0
338	Information decomposition in the frequency domain: a new framework to study cardiovascular and cardiorespiratory oscillations. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2021 , 379, 20200250	3	4
337	Extending the spectral decomposition of Granger causality to include instantaneous influences: application to the control mechanisms of heart rate variability. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2021 , 379, 20200263	3	2
336	Optimizing phase variability threshold for automated synchrogram analysis of cardiorespiratory interactions in amateur cyclists. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2021 , 379, 20200251	3	2
335	Symbolic Analysis of the Heart Rate Variability During the Plateau Phase Following Maximal Sprint Exercise. <i>Frontiers in Physiology</i> , 2021 , 12, 632883	4.6	2
334	How the first years of motherhood impact the cardiac autonomic profile of female healthcare professionals: a study by heart rate variability analysis. <i>Scientific Reports</i> , 2021 , 11, 8161	4.9	1
333	Impact of propofol general anesthesia on cardiovascular and cerebrovascular closed loop variability interactions. <i>Biomedical Signal Processing and Control</i> , 2021 , 68, 102735	4.9	3
332	Autonomic dysfunction and heart rate variability with Holter monitoring: a diagnostic look at autonomic regulation. <i>Herzschrittmachertherapie Und Elektrophysiologie</i> , 2021 , 32, 315-319	0.8	2
331	Complexity of Knee Extensor Torque: Effect of Aging and Contraction Intensity. <i>Journal of Strength and Conditioning Research</i> , 2021 , 35, 1050-1057	3.2	3
330	Lack of association between heart period variability asymmetry and respiratory sinus arrhythmia in healthy and chronic heart failure individuals. <i>PLoS ONE</i> , 2021 , 16, e0247145	3.7	1
329	Ten-year follow-up of cardiac function and neural regulation in a group of amateur half-marathon runners. <i>Open Heart</i> , 2021 , 8,	3	1
328	Transdermal auricular vagus stimulation for the treatment of postural tachycardia syndrome. <i>Autonomic Neuroscience: Basic and Clinical</i> , 2021 , 236, 102886	2.4	0
327	Respiration is a Confounder of the Closed Loop Relationship Between Mean Arterial Pressure and Mean Cerebral Blood Flow. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2021 , 2021, 5403-5404	0.9	

326	Relationships Between Cardiovascular Autonomic Profile and Work Ability in Patients With Pure Autonomic Failure.. <i>Frontiers in Human Neuroscience</i> , 2021 , 15, 761501	3.3	0
325	Work Ability Assessment and Its Relationship with Cardiovascular Autonomic Profile in Postural Orthostatic Tachycardia Syndrome. <i>International Journal of Environmental Research and Public Health</i> , 2020 , 17,	4.6	4
324	Autonomic Control of the Heart and Its Clinical Impact. A Personal Perspective. <i>Frontiers in Physiology</i> , 2020 , 11, 582	4.6	7
323	A Transfer Entropy Approach for the Assessment of the Impact of Inspiratory Muscle Training on the Cardiorespiratory Coupling of Amateur Cyclists. <i>Frontiers in Physiology</i> , 2020 , 11, 134	4.6	3
322	Non-linear analysis of the heart rate variability in characterization of manic and euthymic phases of bipolar disorder. <i>Journal of Affective Disorders</i> , 2020 , 275, 136-144	6.6	2
321	Complexity analysis of heart rate variability in chronic obstructive pulmonary disease: relationship with severity and symptoms. <i>Clinical Autonomic Research</i> , 2020 , 30, 157-164	4.3	3
320	Postoperative Modifications of Cardiovascular Control and Baroreflex Sensitivity in Patients Undergoing Surgical Aortic Valve Replacement 2020 ,		2
319	Evaluation of the impact of surgical aortic valve replacement on short-term cardiovascular and cerebrovascular controls through spontaneous variability analysis. <i>PLoS ONE</i> , 2020 , 15, e0243869	3.7	2
318	Strength and Latency of Mean Cerebral Blood Flow Velocity and Mean Arterial Pressure Coupling during Propofol General Anesthesia in Subjects Undergoing Coronary Artery Bypass Graft 2020 ,		1
317	An Empirical Mode Decomposition Approach to Assess the Strength of Heart Period-Systolic Arterial Pressure Variability Interactions. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2020 , 2020, 2573-2576	0.9	1
316	Are Strategies Favoring Pattern Matching a Viable Way to Improve Complexity Estimation Based on Sample Entropy?. <i>Entropy</i> , 2020 , 22,	2.8	3
315	Comparison of symbolization strategies for complexity assessment of spontaneous variability in individuals with signs of cardiovascular control impairment. <i>Biomedical Signal Processing and Control</i> , 2020 , 62, 102128	4.9	3
314	Effect of a Cool Classroom Microclimate on Symbolic Indexes of Cardiac Autonomic Control and Cognitive Performances in Undergraduate Students 2020 ,		1
313	Complexity and Nonlinearities of Short-Term Cardiovascular and Cerebrovascular Controls after Surgical Aortic Valve Replacement. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2020 , 2020, 2573-2576	0.9	1
312	Is pelvic floor muscle training able to alter the response of cardiovascular autonomic modulation and provide a possible cardiovascular benefit to pregnant women?. <i>Neurourology and Urodynamics</i> , 2020 , 39, 2272-2283	2.3	0
311	Complexity of knee extensor torque in patients with frailty syndrome: a cross-sectional study. <i>Brazilian Journal of Physical Therapy</i> , 2020 , 24, 30-38	3.7	7
310	Acute effect of photobiomodulation using light-emitting diodes (LEDs) on baroreflex sensitivity during and after constant loading exercise in patients with type 2 diabetes mellitus. <i>Lasers in Medical Science</i> , 2020 , 35, 329-336	3.1	0
309	Cardiovascular responses to low-intensity isometric handgrip exercise in coronary artery disease: effects of posture. <i>Brazilian Journal of Physical Therapy</i> , 2020 , 24, 449-457	3.7	0

308	Effects of inspiratory muscle-training intensity on cardiovascular control in amateur cyclists. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2019 , 317, R891-R902	3.2	8
307	Effects of Prolonged Head-Down Bed Rest on Cardiac and Vascular Baroreceptor Modulation and Orthostatic Tolerance in Healthy Individuals. <i>Frontiers in Physiology</i> , 2019 , 10, 1061	4.6	17
306	Autonomic Abnormalities in Patients With Primary Sjogren's Syndrome - Preliminary Results. <i>Frontiers in Physiology</i> , 2019 , 10, 1104	4.6	7
305	Cardiac and Vascular Sympathetic Baroreflex Control during Orthostatic Pre-Syncope. <i>Journal of Clinical Medicine</i> , 2019 , 8,	5.1	16
304	Repolarization variability independent of heart rate during sympathetic activation elicited by head-up tilt. <i>Medical and Biological Engineering and Computing</i> , 2019 , 57, 1753-1762	3.1	7
303	Cardiovascular autonomic modulation and baroreflex control in the second trimester of pregnancy: A cross sectional study. <i>PLoS ONE</i> , 2019 , 14, e0216063	3.7	4
302	Can strenuous exercise harm the heart? Insights from a study of cardiovascular neural regulation in amateur triathletes. <i>PLoS ONE</i> , 2019 , 14, e0216567	3.7	11
301	Causality analysis reveals the link between cerebrovascular control and acute kidney dysfunction after coronary artery bypass grafting. <i>Physiological Measurement</i> , 2019 , 40, 064006	2.9	7
300	Information-domain method for the quantification of the complexity of the sympathetic baroreflex regulation in healthy subjects and amyotrophic lateral sclerosis patients. <i>Physiological Measurement</i> , 2019 , 40, 034004	2.9	2
299	Short-term multiscale complexity analysis of cardiovascular variability improves low cardiac output syndrome risk stratification after coronary artery bypass grafting. <i>Physiological Measurement</i> , 2019 , 40, 044001	2.9	2
298	The additional impact of type 2 diabetes on baroreflex sensitivity of coronary artery disease patients might be undetectable in presence of deterioration of mechanical vascular properties. <i>Medical and Biological Engineering and Computing</i> , 2019 , 57, 1405-1415	3.1	2
297	Baroreflex sensitivity in frailty syndrome. <i>Brazilian Journal of Medical and Biological Research</i> , 2019 , 52, e8079	2.8	3
296	Characterization of the Asymmetry of the Cardiac and Sympathetic Arms of the Baroreflex From Spontaneous Variability During Incremental Head-Up Tilt. <i>Frontiers in Physiology</i> , 2019 , 10, 342	4.6	12
295	Effects of different classroom temperatures on cardiac autonomic control and cognitive performances in undergraduate students. <i>Physiological Measurement</i> , 2019 , 40, 054005	2.9	14
294	On the Relevance of Computing a Local Version of Sample Entropy in Cardiovascular Control Analysis. <i>IEEE Transactions on Biomedical Engineering</i> , 2019 , 66, 623-631	5	18
293	Cardiac baroreflex hysteresis is one of the determinants of the heart period variability asymmetry. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2019 , 317, R539-R551	3.2	9
292	Refined Multiscale Entropy Using Fuzzy Metrics: Validation and Application to Nociception Assessment. <i>Entropy</i> , 2019 , 21,	2.8	2
291	Comparison of Causal and Non-causal Strategies for the Assessment of Baroreflex Sensitivity in Predicting Acute Kidney Dysfunction After Coronary Artery Bypass Grafting. <i>Frontiers in Physiology</i> , 2019 , 10, 1319	4.6	8

290	Assessing Synergy/Redundancy of Baroreflex and Non-Baroreflex Components of the Cardiac Control during Sleep. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2019, 2019, 4953-4956</i>	0.9	
289	Evaluation of Cardiac Autonomic Modulation Using Symbolic Dynamics After Cardiac Transplantation. <i>Brazilian Journal of Cardiovascular Surgery, 2019, 34, 572-580</i>	1.1	
288	Assessment of the Coupling Strength of Cardiovascular Control via Joint Symbolic Analysis during Postural Challenge in Recreational Athletes. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2019, 2019, 2003-2004</i>	0.9	0
287	Strength and Latency of the HP-SAP Closed Loop Variability Interactions in Subjects Prone to Develop Postural Syncope. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2019, 2019, 2003-2004</i>	0.9	1
286	Comparison of methods for the assessment of nonlinearity in short-term heart rate variability under different physiopathological states. <i>Chaos, 2019, 29, 123114</i>	3.3	22
285	Mechanical somatosensory stimulation decreases blood pressure in patients with Parkinson's disease. <i>Journal of Hypertension, 2019, 37, 1714-1721</i>	1.9	6
284	Concomitant Evaluation of Heart Period and QT Interval Variability Spectral Markers to Typify Cardiac Control in Humans and Rats. <i>Frontiers in Physiology, 2019, 10, 1478</i>	4.6	5
283	Effects of light-emitting diode therapy (LEDT) on cardiopulmonary and hemodynamic adjustments during aerobic exercise and glucose levels in patients with diabetes mellitus: A randomized, crossover, double-blind and placebo-controlled clinical trial. <i>Complementary Therapies in Medicine, 2019, 42, 176-183</i>	3.5	8
282	Model-based directional analysis of cardiovascular variability identifies patients developing atrial fibrillation after coronary artery bypass grafting. <i>International Journal of Cardiology, 2018, 258, 97-102</i>	3.2	11
281	Peripheral Resistance Baroreflex During Incremental Bicycle Ergometer Exercise: Characterization and Correlation With Cardiac Baroreflex. <i>Frontiers in Physiology, 2018, 9, 688</i>	4.6	11
280	Association between autonomic control indexes and mortality in subjects admitted to intensive care unit. <i>Scientific Reports, 2018, 8, 3486</i>	4.9	11
279	Separating arterial pressure increases and decreases in assessing cardiac baroreflex sensitivity via sequence and bivariate phase-rectified signal averaging techniques. <i>Medical and Biological Engineering and Computing, 2018, 56, 1241-1252</i>	3.1	11
278	Univariate and multivariate conditional entropy measures for the characterization of short-term cardiovascular complexity under physiological stress. <i>Physiological Measurement, 2018, 39, 014002</i>	2.9	20
277	Paced Breathing Increases the Redundancy of Cardiorespiratory Control in Healthy Individuals and Chronic Heart Failure Patients. <i>Entropy, 2018, 20,</i>	2.8	10
276	Multiscale Complexity Analysis of Short QT Interval Variability Series Stratifies the Arrhythmic Risk of Long QT Syndrome Type 1 Patients 2018,		1
275	Comparison of Different Strategies to Assess Cardiac Baroreflex Sensitivity Based on Transfer Function Technique in Patients Undergoing General Anesthesia. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2018, 2018, 4848-4851</i>	0.9	
274	Short-Term Model-Based Multiscale Complexity Analysis of Cardiac Control Provides Complementary Information to Single-Scale Approaches. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2018, 2018, 4848-4851</i>	0.9	1
273	Multiscale Decomposition of Cardiovascular and Cardiorespiratory Information Transfer under General Anesthesia. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2018, 2018, 4848-4851</i>	0.9	4

272	Optimization of Vagal Stimulation Protocol Based on Spontaneous Breathing Rate. <i>Frontiers in Physiology</i> , 2018 , 9, 1341	4.6	3
271	On the relevance of symbolizing heart rate variability by means of a percentile-based coarse graining approach. <i>Physiological Measurement</i> , 2018 , 39, 105010	2.9	3
270	Comparison between probabilistic and Wiener-Granger causality in assessing modifications of the cardiac baroreflex control with age. <i>Physiological Measurement</i> , 2018 , 39, 104004	2.9	5
269	Influence of age and gender on the phase and strength of the relation between heart period and systolic blood pressure spontaneous fluctuations. <i>Journal of Applied Physiology</i> , 2018 , 124, 791-804	3.7	21
268	Cardiovascular autonomic profile in women with constitutional hypotension. <i>Journal of Hypertension</i> , 2018 , 36, 2068-2076	1.9	5
267	Quantifying Net Synergy/Redundancy of Spontaneous Variability Regulation via Predictability and Transfer Entropy Decomposition Frameworks. <i>IEEE Transactions on Biomedical Engineering</i> , 2017 , 64, 2628-2638	5	9
266	Mechanical ventilatory modes and cardioventilatory phase synchronization in acute respiratory failure patients. <i>Physiological Measurement</i> , 2017 , 38, 895-911	2.9	7
265	Assessing the evolution of redundancy/synergy of spontaneous variability regulation with age. <i>Physiological Measurement</i> , 2017 , 38, 940-958	2.9	9
264	Cerebrovascular and cardiovascular variability interactions investigated through conditional joint transfer entropy in subjects prone to postural syncope. <i>Physiological Measurement</i> , 2017 , 38, 976-991	2.9	20
263	Nonlinearities of heart rate variability in animal models of impaired cardiac control: contribution of different time scales. <i>Journal of Applied Physiology</i> , 2017 , 123, 344-351	3.7	20
262	Assessing the strength of cardiac and sympathetic baroreflex controls via transfer entropy during orthostatic challenge. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2017 , 375,	3	13
261	A network physiology approach to the assessment of the link between sinoatrial and ventricular cardiac controls. <i>Physiological Measurement</i> , 2017 , 38, 1472-1489	2.9	12
260	Linear and nonlinear analysis of postural control in frailty syndrome. <i>Brazilian Journal of Physical Therapy</i> , 2017 , 21, 184-191	3.7	7
259	Different estimation methods of spontaneous baroreflex sensitivity have different predictive value in heart failure patients. <i>Journal of Hypertension</i> , 2017 , 35, 1666-1675	1.9	26
258	Comparison between spectral analysis and symbolic dynamics for heart rate variability analysis in the rat. <i>Scientific Reports</i> , 2017 , 7, 8428	4.9	31
257	Efficient Computation of Multiscale Entropy over Short Biomedical Time Series Based on Linear State-Space Models. <i>Complexity</i> , 2017 , 2017, 1-13	1.6	31
256	Heart rate variability in multibacillar leprosy: Linear and nonlinear analysis. <i>PLoS ONE</i> , 2017 , 12, e0180673	3.7	3
255	Baroreflex sensitivity and outcomes following coronary surgery. <i>PLoS ONE</i> , 2017 , 12, e0175008	3.7	18

254	Assessing multiscale complexity of short heart rate variability series through a model-based linear approach. <i>Chaos</i> , 2017 , 27, 093901	3.3	12
253	Information Decomposition: A Tool to Dissect Cardiovascular and Cardiorespiratory Complexity 2017 , 87-113		2
252	Altered Nocturnal Cardiovascular Control in Children With Sleep-Disordered Breathing. <i>Sleep</i> , 2017 , 40,	1.1	7
251	Pulse photoplethysmographic amplitude and heart rate variability during laparoscopic cholecystectomy: A prospective observational study. <i>European Journal of Anaesthesiology</i> , 2017 , 34, 526-533	2.3	6
250	Are Nonlinear Model-Free Conditional Entropy Approaches for the Assessment of Cardiac Control Complexity Superior to the Linear Model-Based One?. <i>IEEE Transactions on Biomedical Engineering</i> , 2017 , 64, 1287-1296	5	29
249	Towards the identification of subjects prone to develop atrial fibrillation after coronary artery bypass graft surgery via univariate and multivariate complexity analysis of heart period variability. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2017 , 2017, 3121-3123	0.9	
248	Evaluating the association between cardiac and peripheral resistance arms of the baroreflex. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2017 , 2017, 3114-3117	0.9	1
247	Effects of laparoscopic radical prostatectomy on intraoperative autonomic nervous system control of hemodynamics. <i>Minerva Anestesiologica</i> , 2017 , 83, 1265-1273	1.9	5
246	Information Decomposition in Multivariate Systems: Definitions, Implementation and Application to Cardiovascular Networks. <i>Entropy</i> , 2017 , 19, 5	2.8	42
245	The degree of cardiac baroreflex involvement during active standing is associated with the quality of life in fibromyalgia patients. <i>PLoS ONE</i> , 2017 , 12, e0179500	3.7	3
244	Cardiovascular coupling during graded postural challenge: comparison between linear tools and joint symbolic analysis. <i>Brazilian Journal of Physical Therapy</i> , 2016 , 20, 461-470	3.7	10
243	Cardiovascular interactions assessed via conditional joint transfer entropy in patients developing atrial fibrillation after coronary artery bypass graft surgery. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2016 , 2016, 2933-2936	0.9	1
242	Comparison between K-nearest-neighbor approaches for conditional entropy estimation: Application to the assessment of the cardiac control in amyotrophic lateral sclerosis patients. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2016 , 2016, 2933-2936	0.9	
241	Calibrated variability of muscle sympathetic nerve activity during graded head-up tilt in humans and its link with noradrenaline data and cardiovascular rhythms. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2016 , 310, R1134-43	3.2	27
240	Effects of ECG sampling rate on QT interval variability measurement. <i>Biomedical Signal Processing and Control</i> , 2016 , 25, 159-164	4.9	15
239	Wiener-Granger Causality in Network Physiology With Applications to Cardiovascular Control and Neuroscience. <i>Proceedings of the IEEE</i> , 2016 , 104, 282-309	14.3	92
238	Biomedical Signal Processing: From a Conceptual Framework to Clinical Applications [Scanning the Issue]. <i>Proceedings of the IEEE</i> , 2016 , 104, 220-222	14.3	8
237	QT interval variability in body surface ECG: measurement, physiological basis, and clinical value: position statement and consensus guidance endorsed by the European Heart Rhythm Association jointly with the ESC Working Group on Cardiac Cellular Electrophysiology. <i>Europace</i> , 2016 , 18, 925-44	3.9	129

236	Effect of variations of the complexity of the target variable on the assessment of Wiener-Granger causality in cardiovascular control studies. <i>Physiological Measurement</i> , 2016 , 37, 276-90	2.9	12
235	Aerobic exercise improves cardiac autonomic modulation in women with polycystic ovary syndrome. <i>International Journal of Cardiology</i> , 2016 , 202, 356-61	3.2	12
234	Cardiovascular Variability Analysis and Baroreflex Estimation in Patients with Type 2 Diabetes in Absence of Any Manifest Neuropathy. <i>PLoS ONE</i> , 2016 , 11, e0148903	3.7	22
233	Assessment of Nociceptive Responsiveness Levels during Sedation-Analgesia by Entropy Analysis of EEG. <i>Entropy</i> , 2016 , 18, 103	2.8	7
232	Simultaneous Characterization of Sympathetic and Cardiac Arms of the Baroreflex through Sequence Techniques during Incremental Head-Up Tilt. <i>Frontiers in Physiology</i> , 2016 , 7, 438	4.6	37
231	Multiscale entropy analysis of heart rate variability in heart failure, hypertensive, and sinoaortic-denervated rats: classical and refined approaches. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2016 , 311, R150-6	3.2	31
230	Towards a more accurate analysis of respiratory sinus arrhythmia during sleep. <i>Sleep Medicine</i> , 2016 , 23, 125	4.6	
229	An Information-Theoretic Framework to Map the Spatiotemporal Dynamics of the Scalp Electroencephalogram. <i>IEEE Transactions on Biomedical Engineering</i> , 2016 , 63, 2488-2496	5	14
228	Nonlinear effects of respiration on the crosstalk between cardiovascular and cerebrovascular control systems. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2016 , 374,	3	24
227	Predictability decomposition detects the impairment of brain-heart dynamical networks during sleep disorders and their recovery with treatment. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2016 , 374,	3	19
226	Symbolic transformations of heart rate variability preserve information about cardiac autonomic control. <i>Physiological Measurement</i> , 2015 , 36, 643-57	2.9	17
225	Information Decomposition in Bivariate Systems: Theory and Application to Cardiorespiratory Dynamics. <i>Entropy</i> , 2015 , 17, 277-303	2.8	81
224	Cardiac autonomic modulation, C-reactive protein or telomere length: which of these variables has greater importance to aging?. <i>International Journal of Cardiology</i> , 2015 , 178, 79-81	3.2	6
223	Bridging the gap between the development of advanced biomedical signal processing tools and clinical practice. Preface. <i>Physiological Measurement</i> , 2015 , 36, 627-31	2.9	
222	Limits of permutation-based entropies in assessing complexity of short heart period variability. <i>Physiological Measurement</i> , 2015 , 36, 755-65	2.9	18
221	Cardiovascular neural regulation is impaired in amyotrophic lateral sclerosis patients. A study by spectral and complexity analysis of cardiovascular oscillations. <i>Physiological Measurement</i> , 2015 , 36, 659-70	2.8	17
220	Univariate and bivariate symbolic analyses of cardiovascular variability differentiate general anesthesia procedures. <i>Physiological Measurement</i> , 2015 , 36, 715-26	2.9	6
219	Symbolic dynamics to discriminate healthy and ischaemic dilated cardiomyopathy populations: an application to the variability of heart period and QT interval. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2015 , 373,	3	4

218	Cardiovascular control in women with fibromyalgia syndrome: do causal methods provide nonredundant information compared with more traditional approaches?. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2015 , 309, R79-84	3.2	10
217	Conditional symbolic analysis detects nonlinear influences of respiration on cardiovascular control in humans. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2015 , 373,	3	15
216	Time, frequency and information domain analysis of heart period and QT variability in asymptomatic long QT syndrome type 2 patients. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2015 , 2015, 294-7	0.9	1
215	Evaluation of the correlation between cardiac and sympathetic baroreflex sensitivity before orthostatic syncope. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2015 ,	0.9	4
214	Evaluation of acute effect of light-emitting diode (LED) phototherapy on muscle deoxygenation and pulmonary oxygen uptake kinetics in patients with diabetes mellitus: study protocol for a randomized controlled trial. <i>Trials</i> , 2015 , 16, 572	2.8	4
213	Algorithms for the inference of causality in dynamic processes: Application to cardiovascular and cerebrovascular variability. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> ,	0.9	3
212	Conditional Self-Entropy and Conditional Joint Transfer Entropy in Heart Period Variability during Graded Postural Challenge. <i>PLoS ONE</i> , 2015 , 10, e0132851	3.7	37
211	Complexity analyses show two distinct types of nonlinear dynamics in short heart period variability recordings. <i>Frontiers in Physiology</i> , 2015 , 6, 71	4.6	14
210	Disentangling cardiovascular control mechanisms during head-down tilt via joint transfer entropy and self-entropy decompositions. <i>Frontiers in Physiology</i> , 2015 , 6, 301	4.6	21
209	A Refined Multiscale Self-Entropy Approach for the Assessment of Cardiac Control Complexity: Application to Long QT Syndrome Type 1 Patients. <i>Entropy</i> , 2015 , 17, 7768-7785	2.8	4
208	Cardiovascular parameters and neural sympathetic discharge variability before orthostatic syncope: role of sympathetic baroreflex control to the vessels. <i>Physiological Measurement</i> , 2015 , 36, 633-41	2.9	22
207	A percentile-based coarse graining approach is helpful in symbolizing heart rate variability during graded head-up tilt. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2015 ,	0.9	1
206	General anesthesia reduces the information exchange between heart and circulation. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2015 , 2015, 4029-32	0.9	4
205	Wiener-Granger causality in QT-HP variability interactions. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2015 , 2015, 1781-4	0.9	
204	Cardiovascular control indexes in amyotrophic lateral sclerosis patients and their relation with clinical markers. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2015 ,	0.9	0
203	Redundant and synergistic information transfer in cardiovascular and cardiorespiratory variability. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2015 , 2015, 4033-6	0.9	4
202	Enhancing dynamical signatures of complex systems through symbolic computation. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2015 , 373,	3	22
201	Autonomic control of heart rate and QT interval variability influences arrhythmic risk in long QT syndrome type 1. <i>Journal of the American College of Cardiology</i> , 2015 , 65, 367-374	15.1	57

200	Cardiovascular Rhythms in Vasovagal Syncope 2015 , 83-93		4
199	Influence of type 2 diabetes on symbolic analysis and complexity of heart rate variability in men. <i>Diabetology and Metabolic Syndrome</i> , 2014 , 6, 13	5.6	20
198	Effect of hormone replacement therapy on cardiac autonomic modulation. <i>Clinical Autonomic Research</i> , 2014 , 24, 63-70	4.3	8
197	Short-term complexity of cardiovascular oscillations in frailty syndrome 2014 ,		1
196	Two-Dimensional Warping for One-Dimensional Signals—Conceptual Framework and Application to ECG Processing. <i>IEEE Transactions on Signal Processing</i> , 2014 , 62, 5577-5588	4.8	28
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| 2 | Complexity of Spontaneous QT Variability Unrelated to RR Variations and Respiration During Graded Orthostatic Challenge | 2 |
| 1 | Information Decomposition in the Frequency Domain: a New Framework to Study Cardiovascular and Cardiorespiratory Oscillations | 1 |