

Alberto Porta

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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	Power spectrum analysis of heart rate variability to assess the changes in sympathovagal balance during graded orthostatic tilt. <i>Circulation</i> , 1994 , 90, 1826-31	16.7	820
342	Relationship between spectral components of cardiovascular variabilities and direct measures of muscle sympathetic nerve activity in humans. <i>Circulation</i> , 1997 , 95, 1441-8	16.7	592
341	Entropy, entropy rate, and pattern classification as tools to typify complexity in short heart period variability series. <i>IEEE Transactions on Biomedical Engineering</i> , 2001 , 48, 1282-91	5	299
340	Heart rate variability explored in the frequency domain: a tool to investigate the link between heart and behavior. <i>Neuroscience and Biobehavioral Reviews</i> , 2009 , 33, 71-80	9	296
339	Comparison of various techniques used to estimate spontaneous baroreflex sensitivity (the EuroBaVar study). <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2004 , 286, R226-31	3.2	262
338	Oscillatory patterns in sympathetic neural discharge and cardiovascular variables during orthostatic stimulus. <i>Circulation</i> , 2000 , 101, 886-92	16.7	260
337	Symbolic dynamics of heart rate variability: a probe to investigate cardiac autonomic modulation. <i>Circulation</i> , 2005 , 112, 465-70	16.7	206
336	Measuring regularity by means of a corrected conditional entropy in sympathetic outflow. <i>Biological Cybernetics</i> , 1998 , 78, 71-8	2.8	197
335	Chronic orthostatic intolerance: a disorder with discordant cardiac and vascular sympathetic control. <i>Circulation</i> , 1998 , 98, 2154-9	16.7	186
334	Assessment of cardiac autonomic modulation during graded head-up tilt by symbolic analysis of heart rate variability. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2007 , 293, H702-8	5.2	177
333	Model for the assessment of heart period and arterial pressure variability interactions and of respiration influences. <i>Medical and Biological Engineering and Computing</i> , 1994 , 32, 143-52	3.1	159
332	Progressive decrease of heart period variability entropy-based complexity during graded head-up tilt. <i>Journal of Applied Physiology</i> , 2007 , 103, 1143-9	3.7	157
331	Information-based detection of nonlinear Granger causality in multivariate processes via a nonuniform embedding technique. <i>Physical Review E</i> , 2011 , 83, 051112	2.4	152
330	Spectral decomposition in multichannel recordings based on multivariate parametric identification. <i>IEEE Transactions on Biomedical Engineering</i> , 1997 , 44, 1092-101	5	139
329	Refined multiscale entropy: application to 24-h Holter recordings of heart period variability in healthy and aortic stenosis subjects. <i>IEEE Transactions on Biomedical Engineering</i> , 2009 , 56, 2202-13	5	138
328	Temporal asymmetries of short-term heart period variability are linked to autonomic regulation. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2008 , 295, R550-7	3.2	137
327	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

326	Effects of cardiac rehabilitation and exercise training on autonomic regulation in patients with coronary artery disease. <i>American Heart Journal</i> , 2002 , 143, 977-83	4.9	128
325	Surrogate data analysis for assessing the significance of the coherence function. <i>IEEE Transactions on Biomedical Engineering</i> , 2004 , 51, 1156-66	5	126
324	Quantifying the strength of the linear causal coupling in closed loop interacting cardiovascular variability signals. <i>Biological Cybernetics</i> , 2002 , 86, 241-51	2.8	126
323	Information domain analysis of cardiovascular variability signals: evaluation of regularity, synchronisation and co-ordination. <i>Medical and Biological Engineering and Computing</i> , 2000 , 38, 180-8	3.1	126
322	Different spectral components of 24 h heart rate variability are related to different modes of death in chronic heart failure. <i>European Heart Journal</i> , 2005 , 26, 357-62	9.5	123
321	Central vagotonic effects of atropine modulate spectral oscillations of sympathetic nerve activity. <i>Circulation</i> , 1998 , 98, 1394-9	16.7	120
320	Non-stationarities significantly distort short-term spectral, symbolic and entropy heart rate variability indices. <i>Physiological Measurement</i> , 2011 , 32, 1775-86	2.9	119
319	Assessing baroreflex gain from spontaneous variability in conscious dogs: role of causality and respiration. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2000 , 279, H2558-67	5.2	114
318	Complexity and nonlinearity in short-term heart period variability: comparison of methods based on local nonlinear prediction. <i>IEEE Transactions on Biomedical Engineering</i> , 2007 , 54, 94-106	5	111
317	Early abnormalities of vascular and cardiac autonomic control in Parkinson's disease without orthostatic hypotension. <i>Hypertension</i> , 2007 , 49, 120-6	8.5	103
316	Abnormalities of cardiovascular neural control and reduced orthostatic tolerance in patients with primary fibromyalgia. <i>Journal of Rheumatology</i> , 2005 , 32, 1787-93	4.1	102
315	Power spectrum analysis of cardiovascular variability monitored by telemetry in conscious unrestrained rats. <i>Journal of the Autonomic Nervous System</i> , 1993 , 45, 181-90		96
314	Nonlinear indices of heart rate variability in chronic heart failure patients: redundancy and comparative clinical value. <i>Journal of Cardiovascular Electrophysiology</i> , 2007 , 18, 425-33	2.7	94
313	An integrated approach based on uniform quantization for the evaluation of complexity of short-term heart period variability: Application to 24 h Holter recordings in healthy and heart failure humans. <i>Chaos</i> , 2007 , 17, 015117	3.3	93
312	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
311	Conditional entropy approach for the evaluation of the coupling strength. <i>Biological Cybernetics</i> , 1999 , 81, 119-29	2.8	90
310	Exploring directionality in spontaneous heart period and systolic pressure variability interactions in humans: implications in the evaluation of baroreflex gain. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2005 , 288, H1777-85	5.2	89
309	Presence of vasomotor and respiratory rhythms in the discharge of single medullary neurons involved in the regulation of cardiovascular system. <i>Journal of the Autonomic Nervous System</i> , 1996 , 57, 116-22		87

308	Causal relationships between heart period and systolic arterial pressure during graded head-up tilt. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2011 , 300, R378-86	3.2	84
307	Accounting for respiration is necessary to reliably infer Granger causality from cardiovascular variability series. <i>IEEE Transactions on Biomedical Engineering</i> , 2012 , 59, 832-41	5	82
306	Information Decomposition in Bivariate Systems: Theory and Application to Cardiorespiratory Dynamics. <i>Entropy</i> , 2015 , 17, 277-303	2.8	81
305	One night on-call: sleep deprivation affects cardiac autonomic control and inflammation in physicians. <i>European Journal of Internal Medicine</i> , 2013 , 24, 664-70	3.9	77
304	Heart rate variability patterns before ventricular tachycardia onset in patients with an implantable cardioverter defibrillator. Participating Investigators of ICD-HRV Italian Study Group. <i>American Journal of Cardiology</i> , 2000 , 86, 959-63	3	76
303	Model-based assessment of baroreflex and cardiopulmonary couplings during graded head-up tilt. <i>Computers in Biology and Medicine</i> , 2012 , 42, 298-305	7	72
302	Sympathovagal effects of spinal anesthesia assessed by heart rate variability analysis. <i>Anesthesia and Analgesia</i> , 1995 , 80, 315-21	3.9	72
301	Spectral analysis of sympathetic discharge, R-R interval and systolic arterial pressure in decerebrate cats. <i>Journal of the Autonomic Nervous System</i> , 1992 , 40, 21-31		71
300	Quantifying electrocardiogram RT-RR variability interactions. <i>Medical and Biological Engineering and Computing</i> , 1998 , 36, 27-34	3.1	70
299	Assessing nonlinear properties of heart rate variability from short-term recordings: are these measurements reliable?. <i>Physiological Measurement</i> , 2007 , 28, 1067-77	2.9	68
298	Mutual nonlinear prediction as a tool to evaluate coupling strength and directionality in bivariate time series: comparison among different strategies based on k nearest neighbors. <i>Physical Review E</i> , 2008 , 78, 026201	2.4	67
297	Effect of age on complexity and causality of the cardiovascular control: comparison between model-based and model-free approaches. <i>PLoS ONE</i> , 2014 , 9, e89463	3.7	66
296	Testing frequency-domain causality in multivariate time series. <i>IEEE Transactions on Biomedical Engineering</i> , 2010 , 57, 1897-906	5	64
295	Model-based causal closed-loop approach to the estimate of baroreflex sensitivity during propofol anesthesia in patients undergoing coronary artery bypass graft. <i>Journal of Applied Physiology</i> , 2013 , 115, 1032-42	3.7	63
294	Compensated Transfer Entropy as a Tool for Reliably Estimating Information Transfer in Physiological Time Series. <i>Entropy</i> , 2013 , 15, 198-219	2.8	62
293	Performance assessment of standard algorithms for dynamic R-T interval measurement: comparison between R-Tapex and R-T(end) approach. <i>Medical and Biological Engineering and Computing</i> , 1998 , 36, 35-42	3.1	62
292	Information domain approach to the investigation of cardio-vascular, cardio-pulmonary, and vasculo-pulmonary causal couplings. <i>Frontiers in Physiology</i> , 2011 , 2, 80	4.6	61
291	Prediction of short cardiovascular variability signals based on conditional distribution. <i>IEEE Transactions on Biomedical Engineering</i> , 2000 , 47, 1555-64	5	60

290	Short-term complexity indexes of heart period and systolic arterial pressure variabilities provide complementary information. <i>Journal of Applied Physiology</i> , 2012 , 113, 1810-20	3.7	58
289	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
288	RT variability unrelated to heart period and respiration progressively increases during graded head-up tilt. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2010 , 298, H1406-14	5.2	57
287	Linear and non-linear 24 h heart rate variability in chronic heart failure. <i>Autonomic Neuroscience: Basic and Clinical</i> , 2000 , 86, 114-9	2.4	56
286	Mechanisms of causal interaction between short-term RR interval and systolic arterial pressure oscillations during orthostatic challenge. <i>Journal of Applied Physiology</i> , 2013 , 114, 1657-67	3.7	55
285	Causal transfer function analysis to describe closed loop interactions between cardiovascular and cardiorespiratory variability signals. <i>Biological Cybernetics</i> , 2004 , 90, 390-9	2.8	55
284	Multiple testing strategy for the detection of temporal irreversibility in stationary time series. <i>Physical Review E</i> , 2008 , 77, 066204	2.4	54
283	Non-uniform multivariate embedding to assess the information transfer in cardiovascular and cardiorespiratory variability series. <i>Computers in Biology and Medicine</i> , 2012 , 42, 290-7	7	53
282	Frequency-dependent baroreflex modulation of blood pressure and heart rate variability in conscious mice. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2005 , 289, H1968-75	5.2	51
281	A framework for assessing frequency domain causality in physiological time series with instantaneous effects. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2013 , 371, 20110618	3	50
280	Short-term complexity of cardiac autonomic control during sleep: REM as a potential risk factor for cardiovascular system in aging. <i>PLoS ONE</i> , 2011 , 6, e19002	3.7	49
279	Sequential modulation of cardiac autonomic control induced by cardiopulmonary and arterial baroreflex mechanisms. <i>Circulation</i> , 2001 , 104, 2932-7	16.7	49
278	Power-law behavior of heart rate variability in Chagas disease. <i>American Journal of Cardiology</i> , 2002 , 89, 414-8	3	48
277	Investigating the mechanisms of cardiovascular and cerebrovascular regulation in orthostatic syncope through an information decomposition strategy. <i>Autonomic Neuroscience: Basic and Clinical</i> , 2013 , 178, 76-82	2.4	47
276	Evidence of unbalanced regulatory mechanism of heart rate and systolic pressure after acute myocardial infarction. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2002 , 283, H1200-7	5.2	46
275	Assessment of cardiovascular regulation through irreversibility analysis of heart period variability: a 24 hours Holter study in healthy and chronic heart failure populations. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2009 , 367, 1359-75	3	45
274	Information Decomposition in Multivariate Systems: Definitions, Implementation and Application to Cardiovascular Networks. <i>Entropy</i> , 2017 , 19, 5	2.8	42
273	Aging reduces complexity of heart rate variability assessed by conditional entropy and symbolic analysis. <i>Internal and Emergency Medicine</i> , 2012 , 7, 229-35	3.7	42

272	K-nearest-neighbor conditional entropy approach for the assessment of the short-term complexity of cardiovascular control. <i>Physiological Measurement</i> , 2013 , 34, 17-33	2.9	42
271	Quantifying heart rate dynamics using different approaches of symbolic dynamics. <i>European Physical Journal: Special Topics</i> , 2013 , 222, 487-500	2.3	41
270	Cardiovascular control and time domain Granger causality: insights from selective autonomic blockade. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2013 , 371, 20120161	3	41
269	Assessment of arterial and cardiopulmonary baroreflex gains from simultaneous recordings of spontaneous cardiovascular and respiratory variability. <i>Journal of Hypertension</i> , 2000 , 18, 281-6	1.9	40
268	Conventional QT variability measurement vs. template matching techniques: comparison of performance using simulated and real ECG. <i>PLoS ONE</i> , 2012 , 7, e41920	3.7	38
267	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
266	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
265	Effects of spinal section and of positive-feedback excitatory reflex on sympathetic and heart rate variability. <i>Hypertension</i> , 2000 , 36, 1029-34	8.5	36
264	Multimodal signal processing for the analysis of cardiovascular variability. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2009 , 367, 391-409	3	34
263	Symbolic analysis detects alterations of cardiac autonomic modulation in congestive heart failure rats. <i>Autonomic Neuroscience: Basic and Clinical</i> , 2009 , 150, 21-6	2.4	34
262	Causal linear parametric model for baroreflex gain assessment in patients with recent myocardial infarction. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2001 , 280, H1830-9	5.2	34
261	Contrasting effects of phentolamine and nitroprusside on neural and cardiovascular variability. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2001 , 281, H559-65	5.2	34
260	Robotic treadmill training improves cardiovascular function in spinal cord injury patients. <i>International Journal of Cardiology</i> , 2011 , 149, 323-9	3.2	32
259	Assessment of the coupling between RTapex and RR interval as an index of temporal dispersion of ventricular repolarization. <i>PACE - Pacing and Clinical Electrophysiology</i> , 1998 , 21, 2396-400	1.6	32
258	Low and high frequency components of blood pressure variability. <i>Annals of the New York Academy of Sciences</i> , 1996 , 783, 10-23	6.5	32
257	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
256	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
255	Frequency domain assessment of the coupling strength between ventricular repolarization duration and heart period during graded head-up tilt. <i>Journal of Electrocardiology</i> , 2011 , 44, 662-8	1.4	31

254	Lateralization of expression of neural sympathetic activity to the vessels and effects of carotid baroreceptor stimulation. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2009 , 296, H1758-65	5.2	31
253	Analysis of heart period and arterial pressure variability in childhood hypertension: key role of baroreflex impairment. <i>Hypertension</i> , 2008 , 51, 1289-94	8.5	31
252	Acute beta-blockade increases muscle sympathetic activity and modifies its frequency distribution. <i>Circulation</i> , 2004 , 110, 2786-91	16.7	31
251	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
250	Effect of the Postural Challenge on the Dependence of the Cardiovascular Control Complexity on Age. <i>Entropy</i> , 2014 , 16, 6686-6704	2.8	30
249	Vagal withdrawal and susceptibility to cardiac arrhythmias in rats with high trait aggressiveness. <i>PLoS ONE</i> , 2013 , 8, e68316	3.7	30
248	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
247	Multiscale complexity analysis of the cardiac control identifies asymptomatic and symptomatic patients in long QT syndrome type 1. <i>PLoS ONE</i> , 2014 , 9, e93808	3.7	29
246	Coupling arterial windkessel with peripheral vasomotion: modeling the effects on low-frequency oscillations. <i>IEEE Transactions on Biomedical Engineering</i> , 2006 , 53, 53-64	5	29
245	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
244	Evidence for central organization of cardiovascular rhythms. <i>Annals of the New York Academy of Sciences</i> , 2001 , 940, 299-306	6.5	28
243	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
242	Sympathovagal balance from heart rate variability: time for a second round?. <i>Experimental Physiology</i> , 2012 , 97, 1141-2	2.4	27
241	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
240	Spectral and symbolic analysis of the effect of gender and postural change on cardiac autonomic modulation in healthy elderly subjects. <i>Brazilian Journal of Medical and Biological Research</i> , 2011 , 44, 29-37	2.8	26
239	Acute arterio-venous fistula occlusion decreases sympathetic activity and improves baroreflex control in kidney transplanted patients. <i>Nephrology Dialysis Transplantation</i> , 2004 , 19, 1606-12	4.3	26
238	Contrasting effects of acute and chronic cigarette smoking on skin microcirculation in young healthy subjects. <i>Journal of Hypertension</i> , 2004 , 22, 129-35	1.9	26
237	Differential characteristics of neural circulatory control: early versus late after cardiac transplantation. <i>Circulation</i> , 2001 , 104, 1809-13	16.7	26

236	Decoupling of QT interval variability from heart rate variability with ageing. <i>Physiological Measurement</i> , 2013 , 34, 1435-48	2.9	25
235	Effects of progressive exercise during phase I cardiac rehabilitation on the heart rate variability of patients with acute myocardial infarction. <i>Disability and Rehabilitation</i> , 2011 , 33, 835-42	2.4	25
234	Spontaneous baroreflex sensitivity estimates during graded bicycle exercise: a comparative study. <i>Physiological Measurement</i> , 2009 , 30, 201-13	2.9	25
233	Heartscope: a software tool addressing autonomic nervous system regulat 2005 ,		24
232	Heart rate variability is encoded in the spontaneous discharge of thalamic somatosensory neurones in cat. <i>Journal of Physiology</i> , 2000 , 526 Pt 2, 387-96	3.9	24
231	Conditional Entropy-Based Evaluation of Information Dynamics in Physiological Systems. <i>Understanding Complex Systems</i> , 2014 , 61-86	0.4	24
230	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
229	Effects of mechanical stimulation of the feet on gait and cardiovascular autonomic control in Parkinson's disease. <i>Journal of Applied Physiology</i> , 2014 , 116, 495-503	3.7	23
228	B-50/GAP-43 phosphorylation in hippocampal slices from aged rats: effects of phosphatidylserine administration. <i>Neurobiology of Aging</i> , 1993 , 14, 401-6	5.6	23
227	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
226	Enhancing dynamical signatures of complex systems through symbolic computation. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2015 , 373,	3	22
225	Evaluation of respiratory influences on left ventricular function parameters extracted from echocardiographic acoustic quantification. <i>Physiological Measurement</i> , 2000 , 21, 175-86	2.9	22
224	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
223	Comparison of methods for the assessment of nonlinearity in short-term heart rate variability under different physiopathological states. <i>Chaos</i> , 2019 , 29, 123114	3.3	22
222	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
221	Binary symbolic dynamics classifies heart rate variability patterns linked to autonomic modulations. <i>Computers in Biology and Medicine</i> , 2012 , 42, 313-8	7	21
220	Prolonged head down bed rest-induced inactivity impairs tonic autonomic regulation while sparing oscillatory cardiovascular rhythms in healthy humans. <i>Journal of Hypertension</i> , 2009 , 27, 551-61	1.9	21
219	Assessing causality in normal and impaired short-term cardiovascular regulation via nonlinear prediction methods. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2009 , 367, 1423-40	3	21

218	Modulations of autonomic activity leading to tilt-mediated syncope. <i>International Journal of Cardiology</i> , 2007 , 120, 102-7	3.2	21
217	. <i>Proceedings of the IEEE</i> , 2006 , 94, 805-818	14.3	21
216	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
215	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
214	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
213	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
212	Univariate and multivariate conditional entropy measures for the characterization of short-term cardiovascular complexity under physiological stress. <i>Physiological Measurement</i> , 2018 , 39, 014002	2.9	20
211	Linear and nonlinear analysis of heart rate variability in coronary disease. <i>Clinical Autonomic Research</i> , 2012 , 22, 175-83	4.3	19
210	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
209	Limits of permutation-based entropies in assessing complexity of short heart period variability. <i>Physiological Measurement</i> , 2015 , 36, 755-65	2.9	18
208	Baroreflex sensitivity and outcomes following coronary surgery. <i>PLoS ONE</i> , 2017 , 12, e0175008	3.7	18
207	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
206	On site assessment of cardiac function and neural regulation in amateur half marathon runners. <i>Open Heart</i> , 2014 , 1, e000005	3	18
205	Intravenous amiodarone modifies autonomic balance and increases baroreflex sensitivity in conscious rats. <i>Autonomic Neuroscience: Basic and Clinical</i> , 2002 , 95, 88-96	2.4	18
204	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
203	Symbolic transformations of heart rate variability preserve information about cardiac autonomic control. <i>Physiological Measurement</i> , 2015 , 36, 643-57	2.9	17
202	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
201	Assessing causality in brain dynamics and cardiovascular control. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2013 , 371, 20120517	3	17

200	Autonomic cardiovascular modulation. <i>IEEE Engineering in Medicine and Biology Magazine</i> , 2009 , 28, 79-85		17
199	Comments on point:counterpoint: respiratory sinus arrhythmia is due to a central mechanism vs. respiratory sinus arrhythmia is due to the baroreflex mechanism. <i>Journal of Applied Physiology</i> , 2009 , 106, 1745-9	3.7	17
198	Classification of coupling patterns among spontaneous rhythms and ventilation in the sympathetic discharge of decerebrate cats. <i>Biological Cybernetics</i> , 1996 , 75, 163-72	2.8	17
197	Cardiac and Vascular Sympathetic Baroreflex Control during Orthostatic Pre-Syncope. <i>Journal of Clinical Medicine</i> , 2019 , 8,	5.1	16
196	A hypothesis: autonomic rhythms are reflected in growth lines of teeth in humans and extinct archosaurs. <i>Autonomic Neuroscience: Basic and Clinical</i> , 2005 , 117, 115-9	2.4	16
195	Opposite effects of iv amiodarone on cardiovascular vagal and sympathetic efferent activities in rats. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2002 , 283, R543-8	3.2	16
194	Orthostatic intolerance: different abnormalities in the neural sympathetic response to a gravitational stimulus. <i>Autonomic Neuroscience: Basic and Clinical</i> , 2001 , 90, 83-8	2.4	16
193	Selective impairment of excitatory pressor responses after prolonged simulated microgravity in humans. <i>Autonomic Neuroscience: Basic and Clinical</i> , 2001 , 91, 85-95	2.4	16
192	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
191	Effects of ECG sampling rate on QT interval variability measurement. <i>Biomedical Signal Processing and Control</i> , 2016 , 25, 159-164	4.9	15
190	Cardiac autonomic control in Brugada syndrome patients during sleep: the effects of sleep disordered breathing. <i>International Journal of Cardiology</i> , 2013 , 168, 3267-72	3.2	15
189	RR-arterial pressure variability relationships. <i>Autonomic Neuroscience: Basic and Clinical</i> , 2001 , 90, 57-65	2.4	15
188	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
187	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
186	Testing the involvement of baroreflex during general anesthesia through Granger causality approach. <i>Computers in Biology and Medicine</i> , 2012 , 42, 306-12	7	14
185	Favorable effects of carotid endarterectomy on baroreflex sensitivity and cardiovascular neural modulation: a 4-month follow-up. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2013 , 304, R1114-20	3.2	14
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