List of Publications by Year in descending order

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		279798	302126
122	1,912	23	39
papers	citations	h-index	g-index
104	104	104	1 4 2 4
124	124	124	1424
all docs	docs citations	times ranked	citing authors

#	Article	IF	CITATIONS
1	Non-stationarities significantly distort short-term spectral, symbolic and entropy heart rate variability indices. Physiological Measurement, 2011, 32, 1775-1786.	2.1	151
2	Accounting for Respiration is Necessary to Reliably Infer Granger Causality From Cardiovascular Variability Series. IEEE Transactions on Biomedical Engineering, 2012, 59, 832-841.	4.2	103
3	Model-based assessment of baroreflex and cardiopulmonary couplings during graded head-up tilt. Computers in Biology and Medicine, 2012, 42, 298-305.	7.0	97
4	Effect of Age on Complexity and Causality of the Cardiovascular Control: Comparison between Model-Based and Model-Free Approaches. PLoS ONE, 2014, 9, e89463.	2.5	86
5	Model-based causal closed-loop approach to the estimate of baroreflex sensitivity during propofol anesthesia in patients undergoing coronary artery bypass graft. Journal of Applied Physiology, 2013, 115, 1032-1042.	2.5	83
6	Autonomic Control of Heart Rate and QTÂInterval Variability Influences Arrhythmic Risk in Long QT Syndrome Type 1. Journal of the American College of Cardiology, 2015, 65, 367-374.	2.8	70
7	Short-term complexity indexes of heart period and systolic arterial pressure variabilities provide complementary information. Journal of Applied Physiology, 2012, 113, 1810-1820.	2.5	68
8	Cardiovascular control and time domain Granger causality: insights from selective autonomic blockade. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2013, 371, 20120161.	3.4	62
9	K-nearest-neighbor conditional entropy approach for the assessment of the short-term complexity of cardiovascular control. Physiological Measurement, 2013, 34, 17-33.	2.1	52
10	Simultaneous Characterization of Sympathetic and Cardiac Arms of the Baroreflex through Sequence Techniques during Incremental Head-Up Tilt. Frontiers in Physiology, 2016, 7, 438.	2.8	51
11	Conditional Self-Entropy and Conditional Joint Transfer Entropy in Heart Period Variability during Graded Postural Challenge. PLoS ONE, 2015, 10, e0132851.	2.5	49
12	Are Nonlinear Model-Free Conditional Entropy Approaches for the Assessment of Cardiac Control Complexity Superior to the Linear Model-Based One?. IEEE Transactions on Biomedical Engineering, 2017, 64, 1287-1296.	4.2	47
13	Calibrated variability of muscle sympathetic nerve activity during graded head-up tilt in humans and its link with noradrenaline data and cardiovascular rhythms. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2016, 310, R1134-R1143.	1.8	43
14	Frequency domain assessment of the coupling strength between ventricular repolarization duration and heart period during graded head-up tilt. Journal of Electrocardiology, 2011, 44, 662-668.	0.9	41
15	Effect of the Postural Challenge on the Dependence of the Cardiovascular Control Complexity on Age. Entropy, 2014, 16, 6686-6704.	2.2	40
16	Nonlinear effects of respiration on the crosstalk between cardiovascular and cerebrovascular control systems. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2016, 374, 20150179.	3.4	40
17	Cerebrovascular and cardiovascular variability interactions investigated through conditional joint transfer entropy in subjects prone to postural syncope. Physiological Measurement, 2017, 38, 976-991.	2.1	38
18	Multiscale Complexity Analysis of the Cardiac Control Identifies Asymptomatic and Symptomatic Patients in Long QT Syndrome Type 1. PLoS ONE, 2014, 9, e93808.	2.5	35

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19	On the Relevance of Computing a Local Version of Sample Entropy in Cardiovascular Control Analysis. IEEE Transactions on Biomedical Engineering, 2019, 66, 623-631.	4.2	35
20	Effects of mechanical stimulation of the feet on gait and cardiovascular autonomic control in Parkinson's disease. Journal of Applied Physiology, 2014, 116, 495-503.	2.5	31
21	Univariate and multivariate conditional entropy measures for the characterization of short-term cardiovascular complexity under physiological stress. Physiological Measurement, 2018, 39, 014002.	2.1	31
22	Disentangling cardiovascular control mechanisms during head-down tilt via joint transfer entropy and self-entropy decompositions. Frontiers in Physiology, 2015, 6, 301.	2.8	29
23	Baroreflex sensitivity and outcomes following coronary surgery. PLoS ONE, 2017, 12, e0175008.	2.5	26
24	Conditional symbolic analysis detects nonlinear influences of respiration on cardiovascular control in humans. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2015, 373, 20140096.	3.4	24
25	Limits of permutation-based entropies in assessing complexity of short heart period variability. Physiological Measurement, 2015, 36, 755-765.	2.1	23
26	Peripheral Resistance Baroreflex During Incremental Bicycle Ergometer Exercise: Characterization and Correlation With Cardiac Baroreflex. Frontiers in Physiology, 2018, 9, 688.	2.8	22
27	Separating arterial pressure increases and decreases in assessing cardiac baroreflex sensitivity via sequence and bivariate phase-rectified signal averaging techniques. Medical and Biological Engineering and Computing, 2018, 56, 1241-1252.	2.8	19
28	Cardiac baroreflex hysteresis is one of the determinants of the heart period variability asymmetry. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2019, 317, R539-R551.	1.8	19
29	Characterization of the Asymmetry of the Cardiac and Sympathetic Arms of the Baroreflex From Spontaneous Variability During Incremental Head-Up Tilt. Frontiers in Physiology, 2019, 10, 342.	2.8	19
30	Mechanical ventilatory modes and cardioventilatory phase synchronization in acute respiratory failure patients. Physiological Measurement, 2017, 38, 895-911.	2.1	18
31	A network physiology approach to the assessment of the link between sinoatrial and ventricular cardiac controls. Physiological Measurement, 2017, 38, 1472-1489.	2.1	18
32	Assessing multiscale complexity of short heart rate variability series through a model-based linear approach. Chaos, 2017, 27, 093901.	2.5	18
33	Association between autonomic control indexes and mortality in subjects admitted to intensive care unit. Scientific Reports, 2018, 8, 3486.	3.3	18
34	Assessing the strength of cardiac and sympathetic baroreflex controls via transfer entropy during orthostatic challenge. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2017, 375, 20160290.	3.4	16
35	Comparison of Causal and Non-causal Strategies for the Assessment of Baroreflex Sensitivity in Predicting Acute Kidney Dysfunction After Coronary Artery Bypass Grafting. Frontiers in Physiology, 2019, 10, 1319.	2.8	16
36	Dynamic cerebrovascular autoregulation in patients prone to postural syncope: Comparison of techniques assessing the autoregulation index from spontaneous variability series. Autonomic Neuroscience: Basic and Clinical, 2022, 237, 102920.	2.8	16

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37	Information domain analysis of the spontaneous baroreflex during pharmacological challenges. Autonomic Neuroscience: Basic and Clinical, 2013, 178, 67-75.	2.8	15
38	Complexity analyses show two distinct types of nonlinear dynamics in short heart period variability recordings. Frontiers in Physiology, 2015, 6, 71.	2.8	15
39	Quantifying Net Synergy/Redundancy of Spontaneous Variability Regulation via Predictability and Transfer Entropy Decomposition Frameworks. IEEE Transactions on Biomedical Engineering, 2017, 64, 2628-2638.	4.2	15
40	Coherence analysis overestimates the role of baroreflex in governing the interactions between heart period and systolic arterial pressure variabilities during general anesthesia. Autonomic Neuroscience: Basic and Clinical, 2013, 178, 83-88.	2.8	14
41	Effect of variations of the complexity of the target variable on the assessment of Wiener–Granger causality in cardiovascular control studies. Physiological Measurement, 2016, 37, 276-290.	2.1	14
42	Assessing the evolution of redundancy/synergy of spontaneous variability regulation with age. Physiological Measurement, 2017, 38, 940-958.	2.1	14
43	Paced Breathing Increases the Redundancy of Cardiorespiratory Control in Healthy Individuals and Chronic Heart Failure Patients. Entropy, 2018, 20, 949.	2.2	14
44	Causality analysis reveals the link between cerebrovascular control and acute kidney dysfunction after coronary artery bypass grafting. Physiological Measurement, 2019, 40, 064006.	2.1	14
45	Concomitant Evaluation of Heart Period and QT Interval Variability Spectral Markers to Typify Cardiac Control in Humans and Rats. Frontiers in Physiology, 2019, 10, 1478.	2.8	14
46	Categorizing the Role of Respiration in Cardiovascular and Cerebrovascular Variability Interactions. IEEE Transactions on Biomedical Engineering, 2022, 69, 2065-2076.	4.2	14
47	Characterization of the cardiovascular control during modified head-up tilt test in healthy adult humans. Autonomic Neuroscience: Basic and Clinical, 2013, 179, 166-169.	2.8	13
48	Model-based directional analysis of cardiovascular variability identifies patients developing atrial fibrillation after coronary artery bypass grafting. International Journal of Cardiology, 2018, 258, 97-102.	1.7	13
49	The combined effects of the microcirculatory status and cardiopulmonary bypass on platelet count and function during cardiac surgery. Clinical Hemorheology and Microcirculation, 2018, 70, 327-337.	1.7	13
50	Low-Pass Filtering Approach via Empirical Mode Decomposition Improves Short-Scale Entropy-Based Complexity Estimation of QT Interval Variability in Long QT Syndrome Type 1 Patients. Entropy, 2014, 16, 4839-4854.	2.2	12
51	From neurovascular coupling to neurovascular cascade: a study on neural, autonomic and vascular transients in attention. Physiological Measurement, 2012, 33, 1379-1397.	2.1	10
52	Optimizing phase variability threshold for automated synchrogram analysis of cardiorespiratory interactions in amateur cyclists. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2021, 379, 20200251.	3.4	10
53	Model-free causality analysis of cardiovascular variability detects the amelioration of autonomic control in Parkinson's disease patients undergoing mechanical stimulation. Physiological Measurement, 2014, 35, 1397-1408.	2.1	9
54	Impact of propofol general anesthesia on cardiovascular and cerebrovascular closed loop variability interactions. Biomedical Signal Processing and Control, 2021, 68, 102735.	5.7	9

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55	Evaluation of the impact of surgical aortic valve replacement on short-term cardiovascular and cerebrovascular controls through spontaneous variability analysis. PLoS ONE, 2020, 15, e0243869.	2.5	9
56	Monitoring the Evolution of Asynchrony between Mean Arterial Pressure and Mean Cerebral Blood Flow via Cross-Entropy Methods. Entropy, 2022, 24, 80.	2.2	9
57	Study of neurovascular and autonomic response in a divided attention test by means of EEG, ECG and NIRS signals. , 2011, 2011, 1403-6.		7
58	Lack of association between heart period variability asymmetry and respiratory sinus arrhythmia in healthy and chronic heart failure individuals. PLoS ONE, 2021, 16, e0247145.	2.5	7
59	Comparison between probabilistic and Wiener–Granger causality in assessing modifications of the cardiac baroreflex control with age. Physiological Measurement, 2018, 39, 104004.	2.1	6
60	Evaluation of the correlation between cardiac and sympathetic baroreflex sensitivity before orthostatic syncope. , 2015, 2015, 2063-6.		5
61	Comparison of symbolization strategies for complexity assessment of spontaneous variability in individuals with signs of cardiovascular control impairment. Biomedical Signal Processing and Control, 2020, 62, 102128.	5.7	5
62	Refined multiscale entropy analysis of heart period and QT interval variabilities in long QT syndrome type-1 patients. , 2013, 2013, 5554-7.		4
63	Entropy-based complexity of the cardiovascular control in Parkinson disease: Comparison between binning and k-nearest-neighbor approaches. , 2013, 2013, 5045-8.		4
64	Directionality in cardiovascular variability interactions during head-down tilt test. , 2014, 2014, 6008-11.		4
65	A Refined Multiscale Self-Entropy Approach for the Assessment of Cardiac Control Complexity: Application to Long QT Syndrome Type 1 Patients. Entropy, 2015, 17, 7768-7785.	2.2	4
66	General anesthesia reduces the information exchange between heart and circulation. , 2015, 2015, 4029-32.		4
67	Cardiovascular control indexes in amyotrophic lateral sclerosis patients and their relation with clinical markers. , 2015, 2015, 2055-8.		4
68	Multiscale Decomposition of Cardiovascular and Cardiorespiratory Information Transfer under General Anesthesia*. , 2018, 2018, 4607-4610.		4
69	Information-domain method for the quantification of the complexity of the sympathetic baroreflex regulation in healthy subjects and amyotrophic lateral sclerosis patients. Physiological Measurement, 2019, 40, 034004.	2.1	4
70	Are Strategies Favoring Pattern Matching a Viable Way to Improve Complexity Estimation Based on Sample Entropy?. Entropy, 2020, 22, 724.	2.2	4
71	Granger causality in cardiovascular variability series: Comparison between model-based and model-free approaches. , 2012, 2012, 3684-7.		3
72	Semi-quantitative evaluation of signal intensity and contrast-enhancement in Modic changes. European Radiology Experimental, 2017, 1, 5.	3.4	3

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73	Short-term multiscale complexity analysis of cardiovascular variability improves low cardiac output syndrome risk stratification after coronary artery bypass grafting. Physiological Measurement, 2019, 40, 044001.	2.1	3
74	Working in the Office and Smart Working Differently Impact on the Cardiac Autonomic Control. , 2021, , .		3
75	Correlation Between Baroreflex Sensitivity and Cerebral Autoregulation Index in Healthy Subjects. , 2021, , .		3
76	Exploring metrics for the characterization of the cerebral autoregulation during head-up tilt and propofol general anesthesia. Autonomic Neuroscience: Basic and Clinical, 2022, 242, 103011.	2.8	3
77	Cardiovascular interactions assessed via conditional joint transfer entropy in patients developing atrial fibrillation after coronary artery bypass graft surgery. , 2016, 2016, 2937-2940.		2
78	Short-Term Model-Based Multiscale Complexity Analysis of Cardiac Control Provides Complementary Information to Single-Scale Approaches. , 2018, 2018, 4848-4851.		2
79	Postoperative Modifications of Cardiovascular Control and Baroreflex Sensitivity in Patients Undergoing Surgical Aortic Valve Replacement. , 2020, , .		2
80	Complexity of Spontaneous QT Variability Unrelated to RR Variations and Respiration During Graded Orthostatic Challenge. , 0, , .		2
81	Time, frequency and information domain analysis of heart period and QT variability in asymptomatic long QT syndrome type 2 patients. , 2015, 2015, 294-7.		1
82	Evaluating the association between cardiac and peripheral resistance arms of the baroreflex. , 2017, 2017, 3114-3117.		1
83	Multiscale Complexity Analysis of Short QT Interval Variability Series Stratifies the Arrhythmic Risk of Long QT Syndrome Type 1 Patients. , 2018, , .		1
84	Assessment of the Coupling Strength of Cardiovascular Control via Joint Symbolic Analysis during Postural Challenge in Recreational Athletes. , 2019, 2019, 2011-2014.		1
85	Strength and Latency of the HP-SAP Closed Loop Variability Interactions in Subjects Prone to Develop Postural Syncope*. , 2019, 2019, 2003-2006.		1
86	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
87	An Empirical Mode Decomposition Approach to Assess the Strength of Heart Period-Systolic Arterial Pressure Variability Interactions. , 2020, 2020, 2573-2576.		1
88	Complexity and Nonlinearities of Short-Term Cardiovascular and Cerebrovascular Controls after Surgical Aortic Valve Replacement. , 2020, 2020, 2569-2572.		1
89	Effects of Inspiratory Muscle Training and Postural Challenge on Cardiorespiratory Coupling in Amateur Athletes. , 2020, , .		1
90	Symbolic Analysis of Heart Period and QT Interval Variabilities in LQT1 Patients. IFMBE Proceedings, 2014, , 531-534.	0.3	1

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91	Propofol General Anesthesia Decreases the Coupling Strength Between Mean Arterial Blood Pressure and Mean Cerebral Blood Flow Velocity in Patients Undergoing Coronary Artery Bypass Grafting. , 0, , .		1
92	Causal Analysis Is Needed to Evaluate Cardiorespiratory Interaction Alterations in Postural Orthostatic Tachycardia Syndrome Patients. , 2021, , .		1
93	Gender Differences in Short-Term Multiscale Complexity of the Heart Rate Variability. , 2021, , .		1
94	Assessing Correlation between Heart Rate Variability Markers Based on Laguerre Expansion and Direct Measures of Sympathetic Activity during Incremental Head-up Tilt. , 2021, 2021, 5411-5414.		1
95	Role of respiration in setting causality among cardiovascular variability series. , 2011, 2011, 5923-6.		0
96	Short-term complexity of cardiovascular oscillations during orthostatic change in aging. , 2014, , .		0
97	Assessment of sympathetic baroreflex control during orthostatic challenge before and after prolonged head-down bed rest. , 2014, , .		0
98	Empirical mode decomposition approach to the estimation of cardiac baroreflex sensitivity in patients undergoing coronary artery bypass graft surgery. , 2014, , .		0
99	Comparison between permutation and coarse-grained entropy approaches for the assessment of short-term complexity of heart period variability. , 2014, , .		0
100	Filtering approach based on empirical mode decomposition improves the assessment of short scale complexity in long QT syndrome type 1 population. , 2014, 2014, 6671-4.		0
101	Baroreflex response to orthostatic challenge: Effect of aging. , 2014, , .		0
102	Wiener-Granger causality in QT-HP variability interactions. , 2015, 2015, 1781-4.		0
103	Comparison between K-nearest-neighbor approaches for conditional entropy estimation: Application to the assessment of the cardiac control in amyotrophic lateral sclerosis patients. , 2016, 2016, 2933-2936.		0
104	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. , 2017, 2017, 3126-3129.		0
105	Impact of Nonstationarities on Short Heart Rate Variability Recordings During Obstructive Sleep Apnea. , 0, , .		0
106	Comparison between Cardiac Baroreflex Sensitivity Estimates Derived from Sequence and Phase Rectified Signal Averaging Techniques During Head-up Tilt. , 2017, , .		0
107	Comparison of Different Strategies to Assess Cardiac Baroreflex Sensitivity Based on Transfer Function Technique in Patients Undergoing General Anesthesia. , 2018, 2018, 2780-2783.		0
108	Assessing Synergy/Redundancy of Baroreflex and Non-Baroreflex Components of the Cardiac Control during Sleep. , 2019, 2019, 4953-4956.		0

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109	Cardiovascular Coupling during Postural Challenge in Athletes and Non-Athletes. , 2020, , .		0
110	On the Utility of Increasing the Number of Matches in Computing Sample Entropy over Short Cardiovascular Variability Series. , 2020, , .		0
111	Do Respiratory Sinus Arrhythmia and Respiratory Phase Durations Impact Heart Rate Variability Asymmetry in Healthy Subjects?. , 2020, , .		0
112	Stratifying the Risk of Developing Atrial Fibrillation after Coronary Artery Bypass Graft Surgery Using Heart Rate Asymmetry Indexes. , 0, , .		0
113	Asymmetry Assessment of Cardiac and Sympathetic Arms of the Baroreflex. , 0, , .		Ο
114	Computation of Mean Cerebral Blood Flow Velocity for the Assessment of Cerebral Autoregulation: Comparison of Different Strategies. , 0, , .		0
115	Quantifying Redundant/Synergistic Interactions between Cardiorespiratory Reflexes and Cardiac Control Mechanisms During Light-to-Moderate Bicycle Exercise. , 0, , .		Ο
116	Frequency Domain Heart Period and QT Interval Variability Markers Are Linked to Arrhythmic Risk in Long QT Syndrome Type 2. , 0, , .		0
117	QT Interval Variability and QT-HP Coupling Strength in Amyotrophic Lateral Sclerosis Patients. , 0, , .		0
118	QT-RR Relation Is Different in Humans and Rats. , 0, , .		0
119	Masked arterial hypertension in a 64-year-old man with primary aldosteronism. Blood Pressure, 2021, , 1-5.	1.5	0
120	Transfer Function Gain Between Heart Period and QT Variabilities Increases During Sympathetic Activation Induced by Head-up Tilt. , 2021, , .		0
121	The Magnitude of the Postural Challenge Impacts on the Exponential Decay of the Baroreflex Impulse Response. , 2021, , .		0
122	Respiration is a Confounder of the Closed Loop Relationship Between Mean Arterial Pressure and Mean Cerebral Blood Flow. , 2021, 2021, 5403-5406.		0