Beatrice De Maria

List of Publications by Year
in descending order

100 papers	955 citations	471061 17 h-index	552369 26 g-index
100 all docs	100 docs citations	100 times ranked	762 citing authors

#	Article	IF	Citations
1	Simultaneous Characterization of Sympathetic and Cardiac Arms of the Baroreflex through Sequence Techniques during Incremental Head-Up Tilt. Frontiers in Physiology, 2016, 7, 438.	1.3	51
2	Conditional Self-Entropy and Conditional Joint Transfer Entropy in Heart Period Variability during Graded Postural Challenge. PLoS ONE, 2015, 10, e0132851.	1.1	49
3	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.	2.5	47
4	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.	0.9	43
5	Different estimation methods of spontaneous baroreflex sensitivity have different predictive value in heart failure patients. Journal of Hypertension, 2017, 35, 1666-1675.	0.3	43
6	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.	1.6	40
7	Cerebrovascular and cardiovascular variability interactions investigated through conditional joint transfer entropy in subjects prone to postural syncope. Physiological Measurement, 2017, 38, 976-991.	1.2	38
8	On the Relevance of Computing a Local Version of Sample Entropy in Cardiovascular Control Analysis. IEEE Transactions on Biomedical Engineering, 2019, 66, 623-631.	2.5	35
9	Disentangling cardiovascular control mechanisms during head-down tilt via joint transfer entropy and self-entropy decompositions. Frontiers in Physiology, 2015, 6, 301.	1.3	29
10	Cardiovascular neural regulation is impaired in amyotrophic lateral sclerosis patients. A study by spectral and complexity analysis of cardiovascular oscillations. Physiological Measurement, 2015, 36, 659-670.	1.2	26
11	Limits of permutation-based entropies in assessing complexity of short heart period variability. Physiological Measurement, 2015, 36, 755-765.	1.2	23
12	Non-vitamin K oral anticoagulant use in the elderly: a prospective real-world study – data from the REGIstry of patients on Non-vitamin K oral Anticoagulants (REGINA) . Vascular Health and Risk Management, 2019, Volume 15, 19-25.	1.0	23
13	Peripheral Resistance Baroreflex During Incremental Bicycle Ergometer Exercise: Characterization and Correlation With Cardiac Baroreflex. Frontiers in Physiology, 2018, 9, 688.	1.3	22
14	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.	1.6	19
15	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.	0.9	19
16	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.	1.3	19
17	Mechanical ventilatory modes and cardioventilatory phase synchronization in acute respiratory failure patients. Physiological Measurement, 2017, 38, 895-911.	1.2	18
18	A network physiology approach to the assessment of the link between sinoatrial and ventricular cardiac controls. Physiological Measurement, 2017, 38, 1472-1489.	1.2	18

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19	Assessing multiscale complexity of short heart rate variability series through a model-based linear approach. Chaos, 2017, 27, 093901.	1.0	18
20	Association between autonomic control indexes and mortality in subjects admitted to intensive care unit. Scientific Reports, 2018, 8, 3486.	1.6	18
21	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.	1.6	16
22	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.	1.3	16
23	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.	1.4	16
24	Complexity analyses show two distinct types of nonlinear dynamics in short heart period variability recordings. Frontiers in Physiology, 2015, 6, 71.	1.3	15
25	Quantifying Net Synergy/Redundancy of Spontaneous Variability Regulation via Predictability and Transfer Entropy Decomposition Frameworks. IEEE Transactions on Biomedical Engineering, 2017, 64, 2628-2638.	2.5	15
26	Effect of variations of the complexity of the target variable on the assessment of Wienerâ€“Granger causality in cardiovascular control studies. Physiological Measurement, 2016, 37, 276-290.	1.2	14
27	Assessing the evolution of redundancy/synergy of spontaneous variability regulation with age. Physiological Measurement, 2017, 38, 940-958.	1.2	14
28	Paced Breathing Increases the Redundancy of Cardiorespiratory Control in Healthy Individuals and Chronic Heart Failure Patients. Entropy, 2018, 20, 949.	1.1	14
29	Can strenuous exercise harm the heart? Insights from a study of cardiovascular neural regulation in amateur triathletes. PLoS ONE, 2019, 14, e0216567.	1.1	14
30	Causality analysis reveals the link between cerebrovascular control and acute kidney dysfunction after coronary artery bypass grafting. Physiological Measurement, 2019, 40, 064006.	1.2	14
31	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.	1.3	14
32	Categorizing the Role of Respiration in Cardiovascular and Cerebrovascular Variability Interactions. IEEE Transactions on Biomedical Engineering, 2022, 69, 2065-2076.	2.5	14
33	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.	0.8	13
34	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.	1.1	12
35	Autonomic dysfunction and heart rate variability with Holter monitoring: aÂdiagnostic look at autonomic regulation. Herzschrittmachertherapie Und Elektrophysiologie, 2021, 32, 315-319.	0.3	12
36	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.	1.6	10

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37	Impact of propofol general anesthesia on cardiovascular and cerebrovascular closed loop variability interactions. Biomedical Signal Processing and Control, 2021, 68, 102735.	3.5	9
38	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.	1.1	9
39	Monitoring the Evolution of Asynchrony between Mean Arterial Pressure and Mean Cerebral Blood Flow via Cross-Entropy Methods. Entropy, 2022, 24, 80.	1.1	9
40	How the first years of motherhood impact the cardiac autonomic profile of female healthcare professionals: a study by heart rate variability analysis. Scientific Reports, 2021, 11, 8161.	1.6	8
41	Lack of association between heart period variability asymmetry and respiratory sinus arrhythmia in healthy and chronic heart failure individuals. PLoS ONE, 2021, 16, e0247145.	1.1	7
42	Comparison between probabilistic and Wienerâ€“Granger causality in assessing modifications of the cardiac baroreflex control with age. Physiological Measurement, 2018, 39, 104004.	1.2	6
43	Evaluation of the correlation between cardiac and sympathetic baroreflex sensitivity before orthostatic syncope. , 2015, 2015, 2063-6.		5
44	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.	3.5	5
45	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.	1.1	4
46	General anesthesia reduces the information exchange between heart and circulation. , 2015, 2015, 4029-32.		4
47	Cardiovascular control indexes in amyotrophic lateral sclerosis patients and their relation with clinical markers. , 2015, 2015, 2055-8.		4
48	Role of rehabilitation in the elderly after an acute event: insights from a real-life prospective study in the subacute care setting. European Journal of Physical and Rehabilitation Medicine, 2019, 54, 934-938.	1.1	4
49	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.	1.2	4
50	Are Strategies Favoring Pattern Matching a Viable Way to Improve Complexity Estimation Based on Sample Entropy?. Entropy, 2020, 22, 724.	1.1	4
51	Effects of Algorithmic Music on the Cardiovascular Neural Control. Journal of Personalized Medicine, 2021, 11, 1084.	1.1	4
52	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.	1.2	3
53	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. Medical and Biological Engineering and Computing, 2019, 57, 1405-1415.	1.6	3
54	The Dilemma of Falls in Older Persons: Never Forget to Investigate the Syncope. Medicina (Lithuania), 2021, 57, 623.	0.8	3

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55	Working in the Office and Smart Working Differently Impact on the Cardiac Autonomic Control. , 2021, , .		3
56	Correlation Between Baroreflex Sensitivity and Cerebral Autoregulation Index in Healthy Subjects. , 2021, , .		3
57	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.	1.4	3
58	Cardiovascular interactions assessed via conditional joint transfer entropy in patients developing atrial fibrillation after coronary artery bypass graft surgery. , 2016, 2016, 2937-2940.		2
59	Short-Term Model-Based Multiscale Complexity Analysis of Cardiac Control Provides Complementary Information to Single-Scale Approaches. , 2018, 2018, 4848-4851.		2
60	Unobtrusive Inter-beat Interval Estimation from Multichannel Ballistocardiogram Signal Using Kalman Filter. , 2020, 2020, 455-460.		2
61	Ten-year follow-up of cardiac function and neural regulation in a group of amateur half-marathon runners. Open Heart, 2021, 8, e001561.	0.9	2
62	Analysis of Heart-Rate Variability during Angioedema Attacks in Patients with Hereditary C1-Inhibitor Deficiency. International Journal of Environmental Research and Public Health, 2021, 18, 2900.	1.2	2
63	Postoperative Modifications of Cardiovascular Control and Baroreflex Sensitivity in Patients Undergoing Surgical Aortic Valve Replacement. , 2020, , .		2
64	Complexity of Spontaneous QT Variability Unrelated to RR Variations and Respiration During Graded Orthostatic Challenge. , 0, , .		2
65	Determinants of Left Atrial Compliance in the Metabolic Syndrome: Insights from the â€œLinosa Studyâ€• Journal of Personalized Medicine, 2022, 12, 1044.	1.1	2
66	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
67	Evaluating the association between cardiac and peripheral resistance arms of the baroreflex. , 2017, 2017, 3114-3117.		1
68	Multiscale Complexity Analysis of Short QT Interval Variability Series Stratifies the Arrhythmic Risk of Long QT Syndrome Type 1 Patients. , 2018, , .		1
69	Assessment of the Coupling Strength of Cardiovascular Control via Joint Symbolic Analysis during Postural Challenge in Recreational Athletes. , 2019, 2019, 2011-2014.		1
70	Strength and Latency of the HP-SAP Closed Loop Variability Interactions in Subjects Prone to Develop Postural Syncope*. , 2019, 2019, 2003-2006.		1
71	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
72	An Empirical Mode Decomposition Approach to Assess the Strength of Heart Period-Systolic Arterial Pressure Variability Interactions. , 2020, 2020, 2573-2576.		1

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73	Complexity and Nonlinearities of Short-Term Cardiovascular and Cerebrovascular Controls after Surgical Aortic Valve Replacement. , 2020, 2020, 2569-2572.		1
74	Effects of Inspiratory Muscle Training and Postural Challenge on Cardiorespiratory Coupling in Amateur Athletes. , 2020, , .		1
75	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
76	Causal Analysis Is Needed to Evaluate Cardiorespiratory Interaction Alterations in Postural Orthostatic Tachycardia Syndrome Patients. , 2021, , .		1
77	Gender Differences in Short-Term Multiscale Complexity of the Heart Rate Variability. , 2021, , .		1
78	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
79	Improvement of Sympathovagal Balance by Regular Exercise May Counteract the Ageing Process. A Study by the Analysis of QT Variability. Frontiers in Physiology, 2022, 13, 880250.	1.3	1
80	Wiener-Granger causality in QT-HP variability interactions. , 2015, 2015, 1781-4.		0
81	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
82	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
83	Impact of Nonstationarities on Short Heart Rate Variability Recordings During Obstructive Sleep Apnea. , 0, , .		0
84	Comparison between Cardiac Baroreflex Sensitivity Estimates Derived from Sequence and Phase Rectified Signal Averaging Techniques During Head-up Tilt. , 2017, , .		0
85	Comparison of Different Strategies to Assess Cardiac Baroreflex Sensitivity Based on Transfer Function Technique in Patients Undergoing General Anesthesia. , 2018, 2018, 2780-2783.		0
86	Assessing Synergy/Redundancy of Baroreflex and Non-Baroreflex Components of the Cardiac Control during Sleep. , 2019, 2019, 4953-4956.		0
87	Long-term power spectral analysis in angioedema: proposal of a translational approach. , 2020, , .		0
88	Cardiovascular Coupling during Postural Challenge in Athletes and Non-Athletes. , 2020, , .		0
89	On the Utility of Increasing the Number of Matches in Computing Sample Entropy over Short Cardiovascular Variability Series. , 2020, , .		0
90	Do Respiratory Sinus Arrhythmia and Respiratory Phase Durations Impact Heart Rate Variability Asymmetry in Healthy Subjects?. , 2020, , .		0

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91	Italian Version of Cancer Dyspnea Scale: Cultural-Linguistic and Clinical Validation in Patients With Advanced Cancer Disease in Palliative Care Settings. Journal of Pain and Symptom Management, 2021, 61, 571-578.e1.	0.6	0
92	Respiratory Distress Observation Scale Italian Version. Journal of Hospice and Palliative Nursing, 2021, 23, 187-194.	0.5	0
93	Stratifying the Risk of Developing Atrial Fibrillation after Coronary Artery Bypass Graft Surgery Using Heart Rate Asymmetry Indexes. , 0, , .		0
94	Asymmetry Assessment of Cardiac and Sympathetic Arms of the Baroreflex. , 0, , .		0
95	Frequency Domain Heart Period and QT Interval Variability Markers Are Linked to Arrhythmic Risk in Long QT Syndrome Type 2. , 0, , .		0
96	QT Interval Variability and QT-HP Coupling Strength in Amyotrophic Lateral Sclerosis Patients. , 0, , .		0
97	QT-RR Relation Is Different in Humans and Rats. , 0, , .		0
98	Transfer Function Gain Between Heart Period and QT Variabilities Increases During Sympathetic Activation Induced by Head-up Tilt. , 2021, , .		0
99	The Magnitude of the Postural Challenge Impacts on the Exponential Decay of the Baroreflex Impulse Response. , 2021, , .		0
100	Respiration is a Confounder of the Closed Loop Relationship Between Mean Arterial Pressure and Mean Cerebral Blood Flow. , 2021, 2021, 5403-5406.		0