

Flavia Ravelli

List of Publications by Year in descending order

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88
papers

2,608
citations

185998

28
h-index

197535

49
g-index

93
all docs

93
docs citations

93
times ranked

2797
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of Atrial Dilatation on Refractory Period and Vulnerability to Atrial Fibrillation in the Isolated Langendorff-Perfused Rabbit Heart. <i>Circulation</i> , 1997, 96, 1686-1695.	1.6	408
2	Myocardial Fibrosis Assessment by LGE Is a Powerful Predictor of Ventricular Tachyarrhythmias in Ischemic and Nonischemic LV Dysfunction. <i>JACC: Cardiovascular Imaging</i> , 2016, 9, 1046-1055.	2.3	248
3	Dynamic Electrophysiological Behavior of Human Atria During Paroxysmal Atrial Fibrillation. <i>Circulation</i> , 1995, 92, 1193-1202.	1.6	148
4	A method for quantifying atrial fibrillation organization based on wave-morphology similarity. <i>IEEE Transactions on Biomedical Engineering</i> , 2002, 49, 1504-1513.	2.5	107
5	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-H1785.	1.5	105
6	Myocardial fibrosis predicts ventricular tachyarrhythmias. <i>Trends in Cardiovascular Medicine</i> , 2017, 27, 363-372.	2.3	87
7	Performance assessment of standard algorithms for dynamic R-T interval measurement: comparison between R-Tapex and R-Tend approach. <i>Medical and Biological Engineering and Computing</i> , 1998, 36, 35-42.	1.6	78
8	Mechano-electric feedback and atrial fibrillation. <i>Progress in Biophysics and Molecular Biology</i> , 2003, 82, 137-149.	1.4	74
9	Selection of reference genes is critical for miRNA expression analysis in human cardiac tissue. A focus on atrial fibrillation. <i>Scientific Reports</i> , 2017, 7, 41127.	1.6	74
10	Complex dynamics underlying the human electrocardiogram. <i>Biological Cybernetics</i> , 1992, 67, 57-65.	0.6	69
11	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-H1207.	1.5	62
12	Wave Similarity Mapping Shows the Spatiotemporal Distribution of Fibrillatory Wave Complexity in the Human Right Atrium During Paroxysmal and Chronic Atrial Fibrillation. <i>Journal of Cardiovascular Electrophysiology</i> , 2005, 16, 1071-1076.	0.8	60
13	Acute Atrial Dilatation Slows Conduction and Increases AF Vulnerability in the Human Atrium. <i>Journal of Cardiovascular Electrophysiology</i> , 2011, 22, 394-401.	0.8	59
14	Autosomal Recessive Atrial Dilated Cardiomyopathy With Standstill Evolution Associated With Mutation of <i>Natriuretic Peptide Precursor A</i> . <i>Circulation: Cardiovascular Genetics</i> , 2013, 6, 27-36.	5.1	51
15	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-H1839.	1.5	45
16	Quantification of synchronization during atrial fibrillation by Shannon entropy: validation in patients and computer model of atrial arrhythmias. <i>Physiological Measurement</i> , 2005, 26, 911-923.	1.2	44
17	Deterioration of Organization in the First Minutes of Atrial Fibrillation: A Beat-to-Beat Analysis of Cycle Length and Wave Similarity. <i>Journal of Cardiovascular Electrophysiology</i> , 2007, 18, 60-65.	0.8	44
18	Small-sample characterization of stochastic approximation staircases in forced-choice adaptive threshold estimation. <i>Perception & Psychophysics</i> , 2007, 69, 254-262.	2.3	41

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19	Beat-to-beat measurement and analysis of the R-T interval in 24 h ECG Holter recordings. <i>Medical and Biological Engineering and Computing</i> , 1993, 31, 487-494.	1.6	40
20	Ventricular beats induce variations in cycle length of rapid (type II) atrial flutter in humans. Evidence of leading circle reentry.. <i>Circulation</i> , 1994, 89, 2107-2116.	1.6	38
21	Heart Rate Turbulence Is a Powerful Predictor of Cardiac Death and Ventricular Arrhythmias in Postmyocardial Infarction and Heart Failure Patients. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2016, 9, .	2.1	37
22	Capture Window in Human Atrial Fibrillation.. <i>Journal of Cardiovascular Electrophysiology</i> , 1999, 10, 319-327.	0.8	36
23	Isolation of the left atrial surface from cardiac multi-detector CT images based on marker controlled watershed segmentation. <i>Medical Engineering and Physics</i> , 2008, 30, 48-58.	0.8	36
24	Anatomic Localization of Rapid Repetitive Sources in Persistent Atrial Fibrillation. <i>JACC: Cardiovascular Imaging</i> , 2012, 5, 1211-1220.	2.3	36
25	Variations in Human Atrial Flutter Cycle Length Induced by Ventricular Beats: Evidence of a Reentrant Circuit with a Partially Excitable Gap. <i>Journal of Cardiovascular Electrophysiology</i> , 1991, 2, 375-387.	0.8	33
26	Computational mapping in atrial fibrillation: how the integration of signal-derived maps may guide the localization of critical sources. <i>Europace</i> , 2014, 16, 714-723.	0.7	33
27	The logical operator map identifies novel candidate markers for critical sites in patients with atrial fibrillation. <i>Progress in Biophysics and Molecular Biology</i> , 2014, 115, 186-197.	1.4	33
28	Implementation and validation of real-time algorithms for atrial fibrillation detection on a wearable ECG device. <i>Computers in Biology and Medicine</i> , 2020, 116, 103540.	3.9	29
29	A morphology-based approach to the evaluation of atrial fibrillation organization. <i>IEEE Engineering in Medicine and Biology Magazine</i> , 2007, 26, 59-67.	1.1	27
30	A Novel Approach to Propagation Pattern Analysis in Intracardiac Atrial Fibrillation Signals. <i>Annals of Biomedical Engineering</i> , 2011, 39, 310-323.	1.3	27
31	Electroanatomic Mapping and Late Gadolinium Enhancement MRI in a Genetic Model of Arrhythmogenic Atrial Cardiomyopathy. <i>Journal of Cardiovascular Electrophysiology</i> , 2014, 25, 964-970.	0.8	24
32	An Automatic System for the Analysis and Classification of Human Atrial Fibrillation Patterns from Intracardiac Electrograms. <i>IEEE Transactions on Biomedical Engineering</i> , 2008, 55, 2275-2285.	2.5	22
33	Propagation Pattern Analysis During Atrial Fibrillation Based on Sparse Modeling. <i>IEEE Transactions on Biomedical Engineering</i> , 2012, 59, 1319-1328.	2.5	22
34	Upregulation of miR-133b and miR-328 in Patients With Atrial Dilatation: Implications for Stretch-Induced Atrial Fibrillation. <i>Frontiers in Physiology</i> , 2019, 10, 1133.	1.3	21
35	Mechanical modulation of atrial flutter cycle length. <i>Progress in Biophysics and Molecular Biology</i> , 2008, 97, 417-434.	1.4	20
36	Dynamics of AV coupling during human atrial fibrillation: role of atrial rate. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2015, 309, H198-H205.	1.5	20

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37	Automatic reconstruction of activation and velocity maps from electro-anatomic data by radial basis functions. , 2010, 2010, 2608-11.		19
38	Nodal recovery, dual pathway physiology, and concealed conduction determine complex AV dynamics in human atrial tachyarrhythmias. American Journal of Physiology - Heart and Circulatory Physiology, 2012, 303, H1219-H1228.	1.5	19
39	A stochastic approach for automatic registration and fusion of left atrial electroanatomic maps with 3D CT anatomical images. Physics in Medicine and Biology, 2007, 52, 6323-6337.	1.6	18
40	Understanding Atrial Fibrillation: The Signal Processing Contribution, Part II. Synthesis Lectures on Biomedical Engineering, 2008, 3, 1-139.	0.1	17
41	A Model for Mechano-Electrical Feedback Effects on Atrial Flutter Interval Variability. Bulletin of Mathematical Biology, 2008, 70, 1326-1347.	0.9	16
42	Characterization of rate and regularity of ventricular response during atrial tachyarrhythmias. Insight on atrial and nodal determinants. Physiological Measurement, 2017, 38, 800-818.	1.2	14
43	A Multi-Variate Predictability Framework to Assess Invasive Cardiac Activity and Interactions During Atrial Fibrillation. IEEE Transactions on Biomedical Engineering, 2017, 64, 1157-1168.	2.5	13
44	Assessing the accuracy of computer-planned osteotomy guided by stereolithographic template: A methodological framework applied to the mandibular bone harvesting. Computers in Biology and Medicine, 2019, 114, 103435.	3.9	13
45	Cardiorespiratory interactions in patients with atrial flutter. Journal of Applied Physiology, 2009, 106, 29-39.	1.2	12
46	Declining clinical benefit of ICD in heart failure patients: Temporal trend of mortality outcomes from randomized controlled trials. Journal of Cardiology, 2020, 75, 148-154.	0.8	11
47	A Fully Adaptive Multiresolution Algorithm for Atrial Arrhythmia Simulation on Anatomically Realistic Unstructured Meshes. IEEE Transactions on Biomedical Engineering, 2013, 60, 2585-2593.	2.5	10
48	Capture of Atrial Fibrillation Reduces the Atrial Defibrillation Threshold. PACE - Pacing and Clinical Electrophysiology, 2002, 25, 1159-1165.	0.5	8
49	The AV synchrogram: A novel approach to quantify atrioventricular coupling during atrial arrhythmias. Biomedical Signal Processing and Control, 2013, 8, 1008-1016.	3.5	8
50	The role of multidetector CT in the evaluation of the left atrium and pulmonary veins anatomy before and after radio-frequency catheter ablation for atrial fibrillation. Preliminary results and work in progress. Technical note. Radiologia Medica, 2005, 110, 52-60.	4.7	8
51	Ventricular tachycardia-inducibility predicts arrhythmic events in post-myocardial infarction patients with low ejection fraction. A systematic review and meta-analysis. IJC Heart and Vasculature, 2018, 20, 7-13.	0.6	7
52	Optimized algorithms for atrial fibrillation detection by wearable tele-holter devices. , 2016, , .		6
53	Implantable Cardioverter-Defibrillator in Dilated Cardiomyopathy after the DANISH-Trial Lesson. A Poly-Parametric Risk Evaluation Is Needed to Improve the Selection of Patients. Frontiers in Physiology, 2017, 8, 873.	1.3	6
54	Study on How Catheter Ablation Affects Atrial Structures in Patients with Paroxysmal Atrial Fibrillation: The Case of the Coronary Sinus. , 2020, , .		6

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55	Unsupervised Classification of Atrial Electrograms for Electroanatomic Mapping of Human Persistent Atrial Fibrillation. <i>IEEE Transactions on Biomedical Engineering</i> , 2021, 68, 1131-1141.	2.5	6
56	Atrial Flutter Cycle Length Oscillations and Role of the Autonomic Nervous System. <i>Circulation</i> , 1998, 98, 607-608.	1.6	5
57	Enormous bi-atrial enlargement in a persistent idiopathic atrial standstill. <i>European Heart Journal</i> , 2005, 26, 2276-2276.	1.0	5
58	MicroRNAs: New contributors to mechano-electric coupling and atrial fibrillation. <i>Progress in Biophysics and Molecular Biology</i> , 2021, 159, 146-156.	1.4	5
59	Image fusion shows the role of incomplete ablation lines in creating a substrate for left atrial flutter occurring after atrial fibrillation ablation. <i>Heart Rhythm</i> , 2008, 5, 163-164.	0.3	3
60	A patient-specific mass-spring model for biomechanical simulation of aortic root tissue during transcatheter aortic valve implantation. <i>Physics in Medicine and Biology</i> , 2019, 64, 085014.	1.6	3
61	Letter by MasÃ et al Regarding Article, "Granger Causality-Based Analysis for Classification of Fibrillation Mechanisms and Localization of Rotational Drivers". <i>Circulation: Arrhythmia and Electrophysiology</i> , 2020, 13, e008675.	2.1	3
62	A Divergence-Based Approach for the Identification of Atrial Fibrillation Focal Drivers From Multipolar Mapping: A Computational Study. <i>Frontiers in Physiology</i> , 2021, 12, 749430.	1.3	3
63	Heart failure patients unresponsive to implantable cardioverter-defibrillator therapy: a neglected problem. <i>European Journal of Heart Failure</i> , 2019, 21, 1507-1509.	2.9	2
64	Modeling Framework for the Generation of Synthetic RR Series during Atrial Arrhythmias*. , 2019, 2019, 6347-6350.		2
65	Understanding the effects of heartbeat irregularity on ventricular function in human atrial fibrillation: simulation models may help to untie the knot. <i>Europace</i> , 2021, 23, 1868.	0.7	2
66	Optimizing Atrial Electrogram Classification Based on Local Ablation Outcome in Human Atrial Fibrillation. , 0, , .		2
67	Novel Photoplethysmographic and Electrocardiographic Features for Enhanced Detection of Hypertensive Individuals. , 2021, , .		2
68	Long-term biatrial recordings in post-operative atrial fibrillation. , 2010, 2010, 2654-7.		1
69	Modeling fibrosis distribution for the study of wave propagation patterns during atrial fibrillation. , 2014, , .		1
70	Atrial fibrillation and NPPA gene p.S64R mutation. <i>Journal of Cardiovascular Medicine</i> , 2016, 17, 177-180.	0.6	1
71	The post-DANISH era in clinical cardiology: Need of a better selection of patients for implantable cardioverter-defibrillator in dilated cardiomyopathy. <i>Journal of Cardiovascular Electrophysiology</i> , 2017, 28, E7.	0.8	1
72	Dimensional Analysis of the Ventricular Fibrillation ECG. <i>NATO ASI Series Series B: Physics</i> , 1991, , 335-342.	0.2	1

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73	Phase Singularities in Cardiac Patch Model with Non-conductive Fibrotic Area during Atrial Fibrillation. , 0, , .		1
74	Unsupervised classification of dimension-reduced principal component scores from persistent atrial fibrillation electrograms. , 2021, , .		1
75	A time-domain approach for the identification of atrial fibrillation drivers. , 2011, 2011, 5527-30.		0
76	Propagation pattern analysis during atrial fibrillation based on the adaptive group LASSO. , 2011, 2011, 5535-8.		0
77	Pulmonary Veins and Cardiac Veins. , 2012, , 79-89.		0
78	Unified framework for the combined assessment of autonomic function and ectopic activity before post-operative atrial fibrillation. , 2014, , .		0
79	A spectral approach for the quantitative description of cardiac collagen network from nonlinear optical imaging. , 2015, 2015, 6257-60.		0
80	Detection of Dominant Reentries in Multichannel Electrograms of Atrial Fibrillation. , 2019, , .		0
81	Towards the definition of selective markers for atrial fibrillation ablation targets: Robustness, complementarity, and integration of features as guiding principles. Journal of Cardiovascular Electrophysiology, 2020, 31, 2551-2552.	0.8	0
82	Authorâ€™s reply: â€œDeclining clinical benefit of ICD in heart failure patientsâ€œ. Journal of Cardiology, 2020, 75, 584-585.	0.8	0
83	The paradox of implantable cardioverter-defibrillator: When guidelines may play against care improvement. American Heart Journal, 2021, 233, 149-150.	1.2	0
84	Determination of Synchronization of Electrical Activity in the Heart by Shannon Entropy Measure. , 2005, , 235-239.		0
85	Lo studio dellâ€™atrio sinistro e delle vene polmonari. , 2006, , 144-167.		0
86	Mechanical Modulation of a Reentrant Arrhythmia: The Atrial Flutter Case. , 2010, , 301-325.		0
87	Studying cardiac mechano-sensitivity in man. , 2011, , 234-240.		0
88	Stretch Effects on Atrial Conduction: A Potential Contributor to Arrhythmogenesis. , 2012, , 303-325.		0