Felipe Atienza FernÃ¡ndez

List of Publications by Year
in descending order

118 papers	4,353 citations	159585 30 h-index	114465 63 g-index
128 all docs	128 docs citations	128 times ranked	4051 citing authors

#	Article	IF	Citations
1	Mechanisms of Wave Fractionation at Boundaries of High-Frequency Excitation in the Posterior Left Atrium of the Isolated Sheep Heart During Atrial Fibrillation. Circulation, 2006, 113, 626-633.	1.6	386
2	Real-time dominant frequency mapping and ablation of dominant frequency sites in atrial fibrillation with left-to-right frequency gradients predicts long-term maintenance of sinus rhythm. Heart Rhythm, 2009, 6, 33-40.	0.7	319
3	Activation of Inward Rectifier Potassium Channels Accelerates Atrial Fibrillation in Humans. Circulation, 2006, 114, 2434-2442.	1.6	249
4	Tachycardia-Related Channel in the Scar Tissue in Patients With Sustained Monomorphic Ventricular Tachycardias. Circulation, 2004, 110, 2568-2574.	1.6	246
5	Do Self-Management Interventions Work in Patients With Heart Failure?. Circulation, 2016, 133, 1189-1198.	1.6	212
6	Comparison of Radiofrequency CatheterÂAblation of Drivers and Circumferential Pulmonary Vein IsolationÂin Atrial Fibrillation. Journal of the American College of Cardiology, 2014, 64, 2455-2467.	2.8	197
7	Noninvasive Identification of Ventricular Tachycardia-Related Conducting Channels Using Contrast-Enhanced Magnetic Resonance Imaging in Patients With Chronic Myocardial Infarction. Journal of the American College of Cardiology, 2011, 57, 184-194.	2.8	173
8	Multicenter randomized trial of a comprehensive hospital discharge and outpatient heart failure management program. European Journal of Heart Failure, 2004, 6, 643-652.	7.1	154
9	In Humans, Chronic Atrial Fibrillation Decreases the Transient Outward Current and Ultrarapid Component of the Delayed Rectifier Current Differentially on Each Atria and Increases the Slow Component of the Delayed Rectifier Current in Both. Journal of the American College of Cardiology, 2010, 55, 2346-2354.	2.8	152
10	First postpacing interval after tachycardia entrainment with correction for atrioventricular node delay: A simple maneuver for differential diagnosis of atrioventricular nodal reentrant tachycardias versus orthodromic reciprocating tachycardias. Heart Rhythm, 2006, 3, 674-679.	0.7	133
11	Worldwide Survey of COVID-19â€“Associated Arrhythmias. Circulation: Arrhythmia and Electrophysiology, 2021, 14, e009458.	4.8	127
12	Noninvasive Localization of Maximal Frequency Sites of Atrial Fibrillation by Body Surface Potential Mapping. Circulation: Arrhythmia and Electrophysiology, 2013, 6, 294-301.	4.8	120
13	Body surface localization of left and right atrial high-frequency rotors in atrial fibrillation patients: A clinical-computational study. Heart Rhythm, 2014, 11, 1584-1591.	0.7	120
14	Arrhythmic Burden as Determined by Ambulatory Continuous Cardiac Monitoring in Patients With New-Onset Persistent Left Bundle Branch Block Following Transcatheter Aortic ValveÂReplacement. JACC: Cardiovascular Interventions, 2018, 11, 1495-1505.	2.9	112
15	Mechanisms of Fractionated Electrograms Formation in the Posterior Left Atrium During Paroxysmal Atrial Fibrillation in Humans. Journal of the American College of Cardiology, 2011, 57, 1081-1092.	2.8	105
16	Presence and stability of rotors in atrial fibrillation: evidence and therapeutic implications. Cardiovascular Research, 2016, 109, 480-492.	3.8	78
17	Acute and long-term outcome of transvenous cryoablation of midseptal and parahissian accessory pathways in patients at high risk of atrioventricular block during radiofrequency ablation. American Journal of Cardiology, 2004, 93, 1302-1305.	1.6	70
18	Combined Evaluation of Bedside Clinical Variables and the Electrocardiogram for the Differential Diagnosis of Paroxysmal Atrioventricular Reciprocating Tachycardias in Patients Without Pre-Excitation. Journal of the American College of Cardiology, 2009, 53, 2353-2358.	2.8	64

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19	miR-208b upregulation interferes with calcium handling in HL-1 atrial myocytes: Implications in human chronic atrial fibrillation. Journal of Molecular and Cellular Cardiology, 2016, 99, 162-173.	1.9	64
20	Nitric Oxide Increases Cardiac I K1 by Nitrosylation of Cysteine 76 of Kir2.1 Channels. Circulation Research, 2009, 105, 383-392.	4.5	61
21	Chronic atrial fibrillation up-regulates Î²1-Adrenoceptors affecting repolarizing currents and action potential duration. Cardiovascular Research, 2013, 97, 379-388.	3.8	57
22	Technical Considerations on Phase Mapping for Identification of Atrial Reentrant Activity in Direct- and Inverse-Computed Electrograms. Circulation: Arrhythmia and Electrophysiology, 2017, 10, .	4.8	57
23	Short- and long-term results of a programme for the prevention of readmissions and mortality in patients with heart failure: Are effects maintained after stopping the programme?. European Journal of Heart Failure, 2005, 7, 921-926.	7.1	55
24	Nerves projecting from the intrinsic cardiac ganglia of the pulmonary veins modulate sinoatrial node pacemaker function. Cardiovascular Research, 2013, 99, 566-575.	3.8	50
25	Universal scaling law of electrical turbulence in the mammalian heart. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 20985-20989.	7.1	47
26	Safety, Long-Term Results, and Predictors of Recurrence After Complete Endocardial Ventricular Tachycardia Substrate Ablation in Patients With Previous Myocardial Infarction. American Journal of Cardiology, 2013, 111, 499-505.	1.6	47
27	Reentry and atrial fibrillation. Heart Rhythm, 2007, 4, S13-S16.	0.7	44
28	Regularization Techniques for ECG Imaging during Atrial Fibrillation: A Computational Study. Frontiers in Physiology, 2016, 7, 466.	2.8	44
29	Assessment of quality of life in patients with chest pain and normal coronary arteriogram (syndrome) Tj ETQq1 1 0.784314 rgBT /Ove	1.8	42
30	Noninvasive Estimation of Epicardial Dominant Highâ€Frequency Regions During Atrial Fibrillation. Journal of Cardiovascular Electrophysiology, 2016, 27, 435-442.	1.7	40
31	Safety and efficacy of cryoablation vs. radiofrequency ablation of septal accessory pathways: systematic review of the literature and meta-analyses. Europace, 2018, 20, 1334-1342.	1.7	32
32	Highest dominant frequency and rotor positions are robust markers of driver location during noninvasive mapping of atrial fibrillation: A computational study. Heart Rhythm, 2017, 14, 1224-1233.	0.7	30
33	Non-invasive localization of atrial ectopic beats by using simulated body surface P-wave integral maps. PLoS ONE, 2017, 12, e0181263.	2.5	30
34	Role of atrial tissue remodeling on rotor dynamics: an in vitro study. American Journal of Physiology - Heart and Circulatory Physiology, 2015, 309, H1964-H1973.	3.2	27
35	Comparison of the Safety and Feasibility of Arrhythmia Ablation Using the Amigo Robotic Remote Catheter System Versus Manual Ablation. American Journal of Cardiology, 2014, 113, 827-831.	1.6	25
36	Fast ventricular tachycardias in patients with implantable cardioverter-defibrillators: Efficacy and safety of antitachycardia pacing. Journal of the American College of Cardiology, 2005, 45, 460-461.	2.8	24

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37	Translational Research in Atrial Fibrillation. Circulation: Arrhythmia and Electrophysiology, 2012, 5, 1207-1215.	4.8	23
38	Identification of Dominant Excitation Patterns and Sources of Atrial Fibrillation by Causality Analysis. Annals of Biomedical Engineering, 2016, 44, 2364-2376.	2.5	23
39	Noninvasive Assessment of Complexity of Atrial Fibrillation. Circulation: Arrhythmia and Electrophysiology, 2020, 13, e007700.	4.8	23
40	Solving Inaccuracies in Anatomical Models for Electrocardiographic Inverse Problem Resolution by Maximizing Reconstruction Quality. IEEE Transactions on Medical Imaging, 2018, 37, 733-740.	8.9	22
41	Cryoablation time-dependent dose-response effect at minimal temperatures (-80ÂC): an experimental study. Europace, 2009, 11, 1538-1545.	1.7	21
42	Differences in Ventriculoatrial Intervals During Entrainment and Tachycardia: A Simpler Method for Distinguishing Paroxysmal Supraventricular Tachycardia with Long Ventriculoatrial Intervals. Journal of Cardiovascular Electrophysiology, 2011, 22, 915-921.	1.7	20
43	High-rate pacing-induced atrial fibrillation effectively reveals properties of spontaneously occurring paroxysmal atrial fibrillation in humans. Europace, 2012, 14, 1560-1566.	1.7	20
44	Clinical Characteristics and Electrophysiological Mechanisms Underlying Brugada ECG in Patients With Severe Hyperkalemia. Journal of the American Heart Association, 2019, 8, e010115.	3.7	20
45	Electrocardiographic Imaging for Atrial Fibrillation: A Perspective From Computer Models and Animal Experiments to Clinical Value. Frontiers in Physiology, 2021, 12, 653013.	2.8	20
46	Specificity of electrocardiographic criteria for the differential diagnosis of wide QRS complex tachycardia in patients with intraventricular conduction defect. Heart Rhythm, 2013, 10, 1393-1401.	0.7	19
47	Identification of conduction gaps in the ablation line during left atrium circumferential ablation: Facilitation of pulmonary vein disconnection after endpoint modification according to electrogram characteristics. Heart Rhythm, 2008, 5, 994-1002.	0.7	17
48	Differentiation of ventricular and supraventricular tachycardias based on the analysis of the first postpacing interval after sequential anti-tachycardia pacing in implantable cardioverter-defibrillator patients. Heart Rhythm, 2007, 4, 316-322.	0.7	16
49	Artificial intelligence for a personalized diagnosis and treatment of atrial fibrillation. American Journal of Physiology - Heart and Circulatory Physiology, 2021, 320, H1337-H1347.	3.2	15
50	Independent predictive accuracy of classical electrocardiographic criteria in the diagnosis of paroxysmal atrioventricular reciprocating tachycardias in patients without pre-excitation. Europace, 2008, 10, 624-628.	1.7	14
51	Scar Extension Measured by Magnetic Resonanceâ€“Based Signal Intensity MappingÂPredicts Ventricular Tachycardia Recurrence After Substrate Ablation in Patients With Previous Myocardial Infarction. JACC: Clinical Electrophysiology, 2015, 1, 353-365.	3.2	14
52	Late Electrocardiographic Changes in Patients With New-Onset Left Bundle Branch Block Following Transcatheter Aortic Valve Implantation. American Journal of Cardiology, 2020, 125, 795-802.	1.6	13
53	Dominant frequency differences in atrial fibrillation patients with and without left ventricular systolic dysfunction. Europace, 2008, 11, 450-457.	1.7	12
54	New Diagnostic and Therapeutic Approaches to Treat Ventricular Tachycardias Originating at the Summit of the Left Ventricle. Circulation: Arrhythmia and Electrophysiology, 2013, 6, e80-4.	4.8	12

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55	AnÃ¡lisis de coste-beneficio de los programas de prevenciÃ³n de reingresos en pacientes hospitalizados por insuficiencia cardÃaca. Impacto econÃ³mico de las nuevas formas de asistencia a la insuficiencia cardÃaca. Revista Espanola De Cardiologia, 2005, 58, 32-36.	1.2	11
56	Implantable Defibrillator Electrograms and Origin of Left Ventricular Impulses: An Analysis of Regionalization Ability and Visual Spatial Resolution. Journal of Cardiovascular Electrophysiology, 2012, 23, 506-514.	1.7	11
57	Generation of realistic atrial to atrial interval series during atrial fibrillation. Medical and Biological Engineering and Computing, 2011, 49, 1261-1268.	2.8	10
58	Ventricular Tachycardia and Early Fibrillation in Patients With Brugada Syndrome and Ischemic Cardiomyopathy Show Predictable Frequency-Phase Properties on the Precordial ECG Consistent With the Respective Arrhythmogenic Substrate. Circulation: Arrhythmia and Electrophysiology, 2015, 8, 1133-1143.	4.8	10
59	Arrhythmic burden in patients with new-onset persistent left bundle branch block after transcatheter aortic valve replacement: 2-year results of the MARE study. Europace, 2021, 23, 254-263.	1.7	10
60	Rate-related changes in QRS morphology in patients with fixed bundle branch block: implications for differential diagnosis of wide QRS complex tachycardia. European Heart Journal, 2008, 29, 2351-2358.	2.2	9
61	Utility of Nonfluoroscopic Three-Dimensional Electroanatomical Mapping in Accessory Pathways With Prior Unsuccessful Ablation Attempts. American Journal of Cardiology, 2005, 96, 564-569.	1.6	8
62	Efficacy and safety of rivaroxaban in real-life patients with atrial fibrillation. Expert Review of Cardiovascular Therapy, 2015, 13, 341-353.	1.5	8
63	Electrophysiological characteristics of permanent atrial fibrillation: insights from research models of cardiac remodeling. Expert Review of Cardiovascular Therapy, 2015, 13, 1-3.	1.5	8
64	Wavefront Field Mapping Reveals a Physiologic Network Between Drivers Where Ablation Terminates Atrial Fibrillation. Circulation: Arrhythmia and Electrophysiology, 2019, 12, e006835.	4.8	8
65	Epicardial Idiopathic Ventricular Tachycardia Originating Within the Left Main Coronary Artery Ostium Area: Identification Using the LocaLisa Nonfluoroscopic Catheter Navigation System. Journal of Cardiovascular Electrophysiology, 2005, 16, 1239-1242.	1.7	7
66	Differential Responses of the Septal Ventricle and the Atrial Signals During Ongoing Entrainment. Circulation: Arrhythmia and Electrophysiology, 2015, 8, 1201-1209.	4.8	7
67	Transient atrioventricular block shortly after uneventful cryoablation of atrioventricular nodal re-entrant tachycardias: report of two cases. Europace, 2007, 9, 927-930.	1.7	6
68	Frontiers in Noninvasive Cardiac Mapping. Cardiac Electrophysiology Clinics, 2015, 7, 59-69.	1.7	6
69	Safety of Outpatient Implantation of the Implantable Cardioverter-defibrillator. Revista Espanola De Cardiologia (English Ed), 2015, 68, 579-584.	0.6	6
70	Electrophysiological Effects of Extracellular Vesicles Secreted by Cardiosphere-Derived Cells: Unraveling the Antiarrhythmic Properties of Cell Therapies. Processes, 2020, 8, 924.	2.8	6
71	Artificial Intelligence-Driven Algorithm for Drug Effect Prediction on Atrial Fibrillation: An in silico Population of Models Approach. Frontiers in Physiology, 2021, 12, 768468.	2.8	6
72	Long electrodes for radio frequency ablation: comparative study of surface versus intramural application. Medical Engineering and Physics, 2003, 25, 869-877.	1.7	5

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73	EGC Diagnosis of Paroxysmal Supraventricular Tachycardias in Patients without Preexcitation. , 2011, 16, 85-95.		5
74	Optical imaging of voltage and calcium in isolated hearts: Linking spatiotemporal heterogeneities and ventricular fibrillation initiation. PLoS ONE, 2019, 14, e0215951.	2.5	5
75	Tako-tsubo cardiomyopathy triggered by multiple shocks in electrical storm. European Heart Journal: Acute Cardiovascular Care, 2019, 8, 771-774.	1.0	5
76	Non-Fluoroscopic Electroanatomical Mapping (CARTO System) in the Ablation of Atrial Tachycardias. Revista Espanola De Cardiologia (English Ed), 2004, 57, 37-44.	0.6	4
77	CrioablaciÃ³n en lactante en soporte con oxigenador extracorpÃ³reo deÂmembrana. Revista Espanola De Cardiologia, 2017, 70, 779-781.	1.2	4
78	Pediatric Catheter Ablation: Characteristics and Results of a Series in a Tertiary Referral Hospital. Revista Espanola De Cardiologia (English Ed), 2018, 71, 794-800.	0.6	4
79	Ranolazine-Mediated Attenuation of Mechanoelectric Feedback in Atrial Myocyte Monolayers. Frontiers in Physiology, 2020, 11, 922.	2.8	4
80	Dominant Frequency and the Mechanisms of Initiation and Maintenance of Atrial Fibrillation. , 2014, , 419-432.		3
81	Atrial sources identification by causality analysis during atrial fibrillation. , 2015, 2015, 3783-6.		3
82	Electrocardiographic imaging including intracardiac information to achieve accurate global mapping during atrial fibrillation. Biomedical Signal Processing and Control, 2021, 64, 102354.	5.7	3
83	Personalized Evaluation of Atrial Complexity of Patients Undergoing Atrial Fibrillation Ablation: A Clinical Computational Study. Biology, 2021, 10, 838.	2.8	3
84	Ranolazine Attenuates Stretch-induced Modifications of Electrophysiological Characteristics in HL-1 Cells. , 0, , .		3
85	Structural Remodeling and Rotational Activity in Persistent/Long-Lasting Atrial Fibrillation: Gender-Effect Differences and Impact on Post-ablation Outcome. Frontiers in Cardiovascular Medicine, 2022, 9, 819429.	2.4	3
86	Recovery Curve and Concealed Conduction in the His-Purkinje System of the Rabbit Heart: Effects of Radiofrequency Modification of the Low AV Junction. PACE - Pacing and Clinical Electrophysiology, 1996, 19, 31-41.	1.2	2
87	Refining the Indications of Implantable Cardioverter Defibrillator in Patients with Left Ventricular Dysfunction. Reviews on Recent Clinical Trials, 2012, 7, 197-203.	0.8	2
88	Cryoablation in an Infant Receiving Extracorporeal Membrane Oxygenation Support. Revista Espanola De Cardiologia (English Ed), 2017, 70, 779-781.	0.6	2
89	Dual Extruder 3D-Bioprinter for Computer Designed Cardiac Structures. , 0, , .		2
90	Electrophysiological Parameters in the Electrical Propagation During Atrial Fibrillation: a Population of Models Study. , 0, , .		2

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91	Optimized singleâ€point left ventricular pacing leads to improved resynchronization compared with multipoint pacing. PACE - Pacing and Clinical Electrophysiology, 2021, 44, 519-527.	1.2	2
92	Alteraciones graves del potasio plasmÃ¡tico: prevalencia, caracterizaciÃ³n clÃ¡nica-electrocardiogrÃ¡fica y su pronÃ³stico. REC: CardioClinics, 2021, 56, 98-107.	0.1	2
93	Current Indications for Implantable Cardioverter Defibrillators in Non-Ischemic Cardiomyopathies and Channelopathies. Reviews on Recent Clinical Trials, 2015, 10, 111-127.	0.8	2
94	Noninvasive Identification of Atrial Fibrillation Drivers: Simulation and Patient Data Evaluation. , 0, , .		2
95	Utilidad diagnÃ³stica de los electrogramas almacenados por el desfibrilador automÃ¡tico implantable. Revista Espanola De Cardiologia Suplementos, 2008, 8, 76A-85A.	0.2	1
96	Infranodal Atrioventricular Block as a Possible Cause of Exercise-induced Cardiac Arrest. Revista Espanola De Cardiologia (English Ed), 2014, 67, 675-678.	0.6	1
97	Immediate post-procedure bridging with unfractioned heparin versus low molecular weight heparin in patients undergoing radiofrequency ablation for atrial fibrillation with an interrupted oral anticoagulation strategy. Journal of Interventional Cardiac Electrophysiology, 2016, 45, 149-158.	1.3	1
98	Body Surface Frequencyâ€“Phase Mapping of Atrial Fibrillation. , 2018, , 437-446.		1
99	Automatic quality electrogram assessment improves phase-based reentrant activity identification in atrial fibrillation. Computers in Biology and Medicine, 2020, 117, 103593.	7.0	1
100	Predictors of pacemaker dependency in patients implanted with a pacemaker after Transaortic valve replacement. IJC Heart and Vasculature, 2020, 31, 100654.	1.1	1
101	Solving Inaccuracies in the Heart Position and Orientation for Inverse Solution by Using Electrical Information. , 0, , .		1
102	Association of age with clinical features and ablation outcomes of paroxysmal supraventricular tachycardias. Heart, 2022, 108, 1107-1113.	2.9	1
103	Clinical impact of defibrillation testing at the time of implantable cardioverter-defibrillator insertion. Cardiology Journal, 2015, 22, 253-259.	1.2	1
104	Performance of Inverse Problem Regularization Methods for Driver Location during Atrial Fibrillation. , 0, , .		1
105	Frontiers in noninvasive cardiac mapping rotors in atrial fibrillation-body surface frequency-phase mapping. Cardiac Electrophysiology Clinics, 2015, 7, 59-69.	1.7	1
106	Control intraoperatorio de la ablaciÃ³n de arritmias. Recurrencias. Cirugia Cardiovascular, 2010, 17, 249-258.	0.1	0
107	Cryoablation of Septal Accessory Pathways. , 2011, , 143-152.		0
108	Paroxysmal Supraventricular Tachycardia Immediately Following Heart Transplantation. Revista Espanola De Cardiologia (English Ed), 2014, 67, 668.	0.6	0

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109	Comments on the 2018 ESC Guidelines for the Diagnosis and Management of Syncope. Revista Espanola De Cardiologia (English Ed), 2018, 71, 787-793.	0.6	0
110	Extracorporeal Membrane Oxygenation in Patients With Electrical Storm: A Single-center Experience. Revista Espanola De Cardiologia (English Ed), 2019, 72, 182-183.	0.6	0
111	Letter by Atienza et al Regarding Article, â€œAutopsy as a Source of Discovery in Cardiovascular Medicine: Then and Nowâ€. Circulation, 2019, 139, 566-567.	1.6	0
112	Atrial fibrillation drivers mapping: should I burn or should I go?. Europace, 2020, 22, 843-844.	1.7	0
113	Radiofrequency treatment for electrical storm: Evolution and monitoring. Archivos De Cardiologï¿½a De Mï¿½xico (English Ed Internet), 2021, 90, .	0.0	0
114	High Resolution Microscopic Optical Mapping of Anatomical and Functional Reentries in Human Cardiac Cell Cultures. , 0, , .		0
115	Role of Substrate Flexibility on Cardiac Cell Culture Electrophysiological Properties. , 0, , .		0
116	Mechanism behind Hyperkalemic Brugada Phenocopy: A Computational Study. , 0, , .		0
117	Personalization of Atrial Fibrillation Antiarrhythmic Drug Treatments: a Population of Models Approach. , 0, , .		0
118	Cardiovascular Diseases in the Digital Health Era: A Translational Approach from the Lab to the Clinic. BioTech, 2022, 11, 23.	2.6	0