

# PaweL Kuklik

## List of Publications by Citations

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84  
papers

3,276  
citations

27  
h-index

56  
g-index

91  
ext. papers

4,004  
ext. citations

4.5  
avg, IF

4.57  
L-index

#	Paper	IF	Citations
84	Long-term outcomes of catheter ablation of atrial fibrillation: a systematic review and meta-analysis. <i>Journal of the American Heart Association</i> , <b>2013</b> , 2, e004549	6	431
83	Outcomes of long-standing persistent atrial fibrillation ablation: a systematic review. <i>Heart Rhythm</i> , <b>2010</b> , 7, 835-46	6.7	338
82	Paroxysmal lone atrial fibrillation is associated with an abnormal atrial substrate: characterizing the "second factor". <i>Journal of the American College of Cardiology</i> , <b>2009</b> , 53, 1182-91	15.1	252
81	Obesity results in progressive atrial structural and electrical remodeling: implications for atrial fibrillation. <i>Heart Rhythm</i> , <b>2013</b> , 10, 90-100	6.7	233
80	Atrial remodeling in obstructive sleep apnea: implications for atrial fibrillation. <i>Heart Rhythm</i> , <b>2012</b> , 9, 321-7	6.7	213
79	Hypertension and atrial fibrillation: evidence of progressive atrial remodeling with electrostructural correlate in a conscious chronically instrumented ovine model. <i>Heart Rhythm</i> , <b>2010</b> , 7, 1282-90	6.7	132
78	Electrical remodelling of the left and right atria due to rheumatic mitral stenosis. <i>European Heart Journal</i> , <b>2008</b> , 29, 2234-43	9.5	111
77	Bipolar electrogram shannon entropy at sites of rotational activation: implications for ablation of atrial fibrillation. <i>Circulation: Arrhythmia and Electrophysiology</i> , <b>2013</b> , 6, 48-57	6.4	86
76	Reconstruction of instantaneous phase of unipolar atrial contact electrogram using a concept of sinusoidal recomposition and Hilbert transform. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2015</b> , 62, 296-302	5	84
75	Left atrial remodeling in patients with atrial septal defects. <i>Heart Rhythm</i> , <b>2009</b> , 6, 1000-6	6.7	80
74	Reverse remodeling of the atria after treatment of chronic stretch in humans: implications for the atrial fibrillation substrate. <i>Journal of the American College of Cardiology</i> , <b>2010</b> , 55, 1217-1226	15.1	74
73	Short-term hypertension is associated with the development of atrial fibrillation substrate: a study in an ovine hypertensive model. <i>Heart Rhythm</i> , <b>2010</b> , 7, 396-404	6.7	73
72	High-density mapping of atrial fibrillation in humans: relationship between high-frequency activation and electrogram fractionation. <i>Journal of Cardiovascular Electrophysiology</i> , <b>2008</b> , 19, 1245-53	2.7	66
71	Atrial arrhythmia in ageing spontaneously hypertensive rats: unraveling the substrate in hypertension and ageing. <i>PLoS ONE</i> , <b>2013</b> , 8, e72416	3.7	65
70	Image integration using NavX Fusion: initial experience and validation. <i>Heart Rhythm</i> , <b>2008</b> , 5, 526-35	6.7	65
69	The effect of electrogram duration on quantification of complex fractionated atrial electrograms and dominant frequency. <i>Journal of Cardiovascular Electrophysiology</i> , <b>2008</b> , 19, 252-8	2.7	61
68	Disruption of cardiac cholinergic neurons enhances susceptibility to ventricular arrhythmias. <i>Nature Communications</i> , <b>2017</b> , 8, 14155	17.4	52

67	Identification of Rotors during Human Atrial Fibrillation Using Contact Mapping and Phase Singularity Detection: Technical Considerations. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2017</b> , 64, 310-318	5	51
66	Myocardial infarction and atrial fibrillation: importance of atrial ischemia. <i>Circulation: Arrhythmia and Electrophysiology</i> , <b>2013</b> , 6, 738-45	6.4	44
65	Nonlinear oscillator model reproducing various phenomena in the dynamics of the conduction system of the heart. <i>Chaos</i> , <b>2007</b> , 17, 015121	3.3	42
64	High-density mapping of ventricular scar: a comparison of ventricular tachycardia (VT) supporting channels with channels that do not support VT. <i>Circulation: Arrhythmia and Electrophysiology</i> , <b>2014</b> , 7, 90-8	6.4	41
63	Indices of bipolar complex fractionated atrial electrograms correlate poorly with each other and atrial fibrillation substrate complexity. <i>Heart Rhythm</i> , <b>2015</b> , 12, 1415-23	6.7	38
62	Characterization, Mapping, and Ablation of Complex Atrial Tachycardia: Initial Experience With a Novel Method of Ultra High-Density 3D Mapping. <i>Journal of Cardiovascular Electrophysiology</i> , <b>2016</b> , 27, 1139-1150	2.7	38
61	Cardiovascular magnetic resonance of total and atrial pericardial adipose tissue: a validation study and development of a 3 dimensional pericardial adipose tissue model. <i>Journal of Cardiovascular Magnetic Resonance</i> , <b>2013</b> , 15, 73	6.9	31
60	High-density mapping of the sinus node in humans: role of preferential pathways and the effect of remodeling. <i>Journal of Cardiovascular Electrophysiology</i> , <b>2010</b> , 21, 532-9	2.7	30
59	Rotors Detected by Phase Analysis of Filtered, Epicardial Atrial Fibrillation Electrograms Colocalize With Regions of Conduction Block. <i>Circulation: Arrhythmia and Electrophysiology</i> , <b>2018</b> , 11, e005858	6.4	30
58	Cardiac glial cells release neurotrophic S100B upon catheter-based treatment of atrial fibrillation. <i>Science Translational Medicine</i> , <b>2019</b> , 11,	17.5	27
57	Atrial remodeling in an ovine model of anthracycline-induced nonischemic cardiomyopathy: remodeling of the same sort. <i>Journal of Cardiovascular Electrophysiology</i> , <b>2011</b> , 22, 175-82	2.7	27
56	Direction-dependent conduction in lone atrial fibrillation. <i>Heart Rhythm</i> , <b>2010</b> , 7, 1192-9	6.7	26
55	Atrial Fibrillation Complexity Parameters Derived From Surface ECGs Predict Procedural Outcome and Long-Term Follow-Up of Stepwise Catheter Ablation for Atrial Fibrillation. <i>Circulation: Arrhythmia and Electrophysiology</i> , <b>2016</b> , 9, e003354	6.4	25
54	Loss of Pace Capture on the Ablation Line During Pulmonary Vein Isolation versus "Dormant Conduction": Is Adenosine Expendable?. <i>Journal of Cardiovascular Electrophysiology</i> , <b>2015</b> , 26, 1075-80	2.7	23
53	Atrial protective effects of n-3 polyunsaturated fatty acids: a long-term study in ovine chronic heart failure. <i>Heart Rhythm</i> , <b>2011</b> , 8, 575-82	6.7	23
52	Substrate characterization and catheter ablation in patients with scar-related ventricular tachycardia using ultra high-density 3-D mapping. <i>Journal of Cardiovascular Electrophysiology</i> , <b>2017</b> , 28, 1058-1067	2.7	21
51	Frequency mapping: hype or hope?. <i>Heart Rhythm</i> , <b>2009</b> , 6, 41-3	6.7	19
50	Characterization of atrial remodeling studied remote from episodes of typical atrial flutter. <i>American Journal of Cardiology</i> , <b>2010</b> , 106, 528-34	3	19

49	How disruption of endo-epicardial electrical connections enhances endo-epicardial conduction during atrial fibrillation. <i>Europace</i> , <b>2017</b> , 19, 308-318	3.9	18
48	Absence of rotational activity detected using 2-dimensional phase mapping in the corresponding 3-dimensional phase maps in human persistent atrial fibrillation. <i>Heart Rhythm</i> , <b>2018</b> , 15, 182-192	6.7	17
47	Renewal Theory as a Universal Quantitative Framework to Characterize Phase Singularity Regeneration in Mammalian Cardiac Fibrillation. <i>Circulation: Arrhythmia and Electrophysiology</i> , <b>2019</b> , 12, e007569	6.4	17
46	Information Theory and Atrial Fibrillation (AF): A Review. <i>Frontiers in Physiology</i> , <b>2018</b> , 9, 957	4.6	16
45	The reconstruction, from a set of points, and analysis of the interior surface of the heart chamber. <i>Physiological Measurement</i> , <b>2004</b> , 25, 617-27	2.9	16
44	Direction-dependent conduction abnormalities in the chronically stretched atria. <i>Europace</i> , <b>2012</b> , 14, 954-61	3.9	15
43	Transient Rotor Activity During Prolonged 3-Dimensional Phase Mapping in Human Persistent Atrial Fibrillation. <i>JACC: Clinical Electrophysiology</i> , <b>2018</b> , 4, 72-83	4.6	13
42	Reentry wave formation in excitable media with stochastically generated inhomogeneities. <i>Chaos</i> , <b>2005</b> , 15, 33301	3.3	13
41	High-density mapping of atrial fibrillation in a chronic substrate: evidence for distinct modes of repetitive wavefront propagation. <i>International Journal of Cardiology</i> , <b>2015</b> , 199, 407-14	3.2	12
40	Reduction of Radiation Exposure in Atrial Fibrillation Ablation Using a New Image Integration Module: A Prospective Randomized Trial in Patients Undergoing Pulmonary Vein Isolation. <i>Journal of Cardiovascular Electrophysiology</i> , <b>2015</b> , 26, 747-53	2.7	12
39	Origin and characteristics of high Shannon entropy at the pivot of locally stable rotors: insights from computational simulation. <i>PLoS ONE</i> , <b>2014</b> , 9, e110662	3.7	12
38	Characteristics of ectopic triggers associated with paroxysmal and persistent atrial fibrillation: evidence for a changing role. <i>Heart Rhythm</i> , <b>2012</b> , 9, 1367-74	6.7	11
37	Development of Time- and Voltage-Domain Mapping (V-T-Mapping) to Localize Ventricular Tachycardia Channels During Sinus Rhythm. <i>Circulation: Arrhythmia and Electrophysiology</i> , <b>2016</b> , 9,	6.4	11
36	Clinical validation and comparison of alternative methods for evaluation of entrainment mapping. <i>Journal of Cardiovascular Electrophysiology</i> , <b>2009</b> , 20, 741-8	2.7	10
35	High-Density Mapping and Ablation of Primary Nonfocal Left Atrial Tachycardia: Characterizing a Distinct Arrhythmogenic Substrate. <i>JACC: Clinical Electrophysiology</i> , <b>2019</b> , 5, 417-426	4.6	7
34	Spiral wave breakup in excitable media with an inhomogeneity of conduction anisotropy. <i>Computers in Biology and Medicine</i> , <b>2010</b> , 40, 775-80	7	7
33	M/M/Infinity Birth-Death Processes - A Quantitative Representational Framework to Summarize and Explain Phase Singularity and Wavelet Dynamics in Atrial Fibrillation. <i>Frontiers in Physiology</i> , <b>2020</b> , 11, 616866	4.6	7
32	Electrophysiologic features of protected channels in late postinfarction patients with and without spontaneous ventricular tachycardia. <i>Journal of Interventional Cardiac Electrophysiology</i> , <b>2018</b> , 51, 13-24	2.4	6

31	Attraction and repulsion of spiral waves by inhomogeneity of conduction anisotropy--a model of spiral wave interaction with electrical remodeling of heart tissue. <i>Journal of Biological Physics</i> , <b>2013</b> , 39, 67-80	1.6	6
30	Development of nonfibrotic left ventricular hypertrophy in an ANG II-induced chronic ovine hypertension model. <i>Physiological Reports</i> , <b>2016</b> , 4, e12897	2.6	6
29	Sympathetic and Parasympathetic Coactivation Induces Perturbed Heart Rate Dynamics in Patients with Paroxysmal Atrial Fibrillation. <i>Medical Science Monitor</i> , <b>2018</b> , 24, 2164-2172	3.2	6
28	Contact force facilitates the achievement of an unexcitable ablation line during pulmonary vein isolation. <i>Clinical Research in Cardiology</i> , <b>2018</b> , 107, 632-641	6.1	5
27	Spatiotemporal characteristics of atrial fibrillation electrograms: A novel marker for arrhythmia stability and termination. <i>Journal of Arrhythmia</i> , <b>2017</b> , 33, 40-48	1.5	5
26	Quantitative description of the 3D regional mechanics of the left atrium using cardiac magnetic resonance imaging. <i>Physiological Measurement</i> , <b>2014</b> , 35, 763-75	2.9	4
25	Feasibility of high-density electrophysiological study using multiple-electrode array in isolated small animal atria. <i>Clinical and Experimental Pharmacology and Physiology</i> , <b>2010</b> , 37, 1023-7	3	4
24	Mismatch Between Cardiac Perfusion, Sympathetic Innervation, and Left Ventricular Electroanatomical Map in a Patient with Recurrent Ventricular Tachycardia. <i>American Journal of Case Reports</i> , <b>2016</b> , 17, 280-2	1.3	4
23	Catheter Ablation Targeting Complex Fractionated Atrial Electrogram in Atrial Fibrillation. <i>Journal of Atrial Fibrillation</i> , <b>2013</b> , 6, 907	0.8	4
22	Local Electrical Dyssynchrony during Atrial Fibrillation: Theoretical Considerations and Initial Catheter Ablation Results. <i>PLoS ONE</i> , <b>2016</b> , 11, e0164236	3.7	4
21	Temporal stability and specificity of high bipolar electrogram entropy regions in sustained atrial fibrillation: Implications for mapping. <i>Journal of Electrocardiology</i> , <b>2019</b> , 53, 18-27	1.4	4
20	Impact of Intracardiac Neurons on Cardiac Electrophysiology and Arrhythmogenesis in an Ex Vivo Langendorff System. <i>Journal of Visualized Experiments</i> , <b>2018</b> ,	1.6	4
19	Slowed atrial and atrioventricular conduction and depressed HRV in a murine model of hypertrophic cardiomyopathy. <i>Clinical and Experimental Pharmacology and Physiology</i> , <b>2016</b> , 43, 95-101	3	3
18	Quantitative description of the regional mechanics of the left atria by electroanatomical mapping. <i>Physiological Measurement</i> , <b>2010</b> , 31, 555-64	2.9	3
17	Electrophysiological and Structural Remodeling of the Atria in a Mouse Model of Troponin-I Mutation Linked Hypertrophic Cardiomyopathy: Implications for Atrial Fibrillation. <i>International Journal of Molecular Sciences</i> , <b>2021</b> , 22,	6.3	3
16	Integration of the data from electroanatomical mapping system and CT imaging modality. <i>International Journal of Cardiovascular Imaging</i> , <b>2009</b> , 25, 425-32	2.5	2
15	Role of spiral wave pinning in inhomogeneous active media in the termination of atrial fibrillation by electrical cardioversion. <i>Computers in Biology and Medicine</i> , <b>2010</b> , 40, 363-72	7	2
14	Motion Estimation of Vortical Blood Flow Within the Right Atrium in a Patient with Atrial Septal Defect <b>2007</b> ,		2

13	Simultaneous conduction mapping and intracellular membrane potential recording in isolated atria. <i>Canadian Journal of Physiology and Pharmacology</i> , <b>2016</b> , 94, 563-9	2.4	2
12	Causality in Atrial Fibrillation determined by transfer entropy <b>2015</b> ,		1
11	Far-field effect in unipolar electrograms revisited: High-density mapping of atrial fibrillation in humans. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2015</b> , 2015, 5680-3	0.9	1
10	Application of phase coherence in assessment of spatial alignment of electrodes during simultaneous endocardial-epicardial direct contact mapping of atrial fibrillation. <i>Europace</i> , <b>2014</b> , 16 Suppl 4, iv135-iv140	3.9	1
9	Concealed conduction effects in the atrium. <i>IEEE Engineering in Medicine and Biology Magazine</i> , <b>2009</b> , 28, 24-9		1
8	Respiratory sinus arrhythmia is reduced after pulmonary vein isolation in patients with paroxysmal atrial fibrillation. <i>Archives of Medical Science</i> , <b>2020</b> , 16, 1022-1030	2.9	1
7	Spatial concentration and distribution of phase singularities in human atrial fibrillation: Insights for the AF mechanism. <i>Journal of Arrhythmia</i> , <b>2021</b> , 37, 922-930	1.5	1
6	A novel algorithm for 3-D visualization of electrogram duration for substrate-mapping in patients with ischemic heart disease and ventricular tachycardia. <i>PLoS ONE</i> , <b>2021</b> , 16, e0254683	3.7	1
5	Spatial and temporal variability of rotational, focal, and irregular activity: Practical implications for mapping of atrial fibrillation. <i>Journal of Cardiovascular Electrophysiology</i> , <b>2021</b> , 32, 2393-2403	2.7	1
4	Bi-atrial high-density mapping reveals inhibition of wavefront turning and reduction of complex propagation patterns as main antiarrhythmic mechanisms of vernakalant. <i>Europace</i> , <b>2021</b> , 23, 1114-1123 <sup>3,9</sup>		1
3	Complex activity patterns in arterial wall: results from a model of calcium dynamics. <i>Computers in Biology and Medicine</i> , <b>2012</b> , 42, 267-75	7	0
2	Kolmogorov Complexity of Coronary Sinus Atrial Electrograms before Ablation Predicts Termination of Atrial Fibrillation after Pulmonary Vein Isolation. <i>Entropy</i> , <b>2019</b> , 21, 970	2.8	0
1	Differential pacing from two sites to diagnose risk of ventricular arrhythmia and death. <i>PACE - Pacing and Clinical Electrophysiology</i> , <b>2019</b> , 42, 189-200	1.6	0