

Tobias G Oesterlein

List of Publications by Year in descending order

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Version: 2024-02-01

39
papers

415
citations

840776

11
h-index

794594

19
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41
all docs

41
docs citations

41
times ranked

524
citing authors

#	ARTICLE	IF	CITATIONS
1	P wave detection and delineation in the ECG based on the phase free stationary wavelet transform and using intracardiac atrial electrograms as reference. <i>Biomedizinische Technik</i> , 2016, 61, 37-56.	0.8	45
2	Local catheter impedance drop during pulmonary vein isolation predicts acute conduction block in patients with paroxysmal atrial fibrillation: initial results of the LOCALIZE clinical trial. <i>Europace</i> , 2021, 23, 1042-1051.	1.7	42
3	Left atrial voltage, circulating biomarkers of fibrosis, and atrial fibrillation ablation. A prospective cohort study. <i>PLoS ONE</i> , 2018, 13, e0189936.	2.5	34
4	Dynamic Approximate Entropy Electroanatomic Maps Detect Rotors in a Simulated Atrial Fibrillation Model. <i>PLoS ONE</i> , 2014, 9, e114577.	2.5	33
5	Basket-Type Catheters: Diagnostic Pitfalls Caused by Deformation and Limited Coverage. <i>BioMed Research International</i> , 2016, 2016, 1-13.	1.9	28
6	Regional conduction velocity calculation from clinical multichannel electrograms in human atria. <i>Computers in Biology and Medicine</i> , 2018, 92, 188-196.	7.0	27
7	Patient-Specific Identification of Atrial Flutter Vulnerability—A Computational Approach to Reveal Latent Reentry Pathways. <i>Frontiers in Physiology</i> , 2018, 9, 1910.	2.8	27
8	Intra-cardiac and peripheral levels of biochemical markers of fibrosis in patients undergoing catheter ablation for atrial fibrillation. <i>Europace</i> , 2017, 19, 1944-1950.	1.7	23
9	Fuzzy decision tree to classify complex fractionated atrial electrograms. <i>Biomedizinische Technik</i> , 2015, 60, 245-55.	0.8	18
10	A Computational Framework to Benchmark Basket Catheter Guided Ablation in Atrial Fibrillation. <i>Frontiers in Physiology</i> , 2018, 9, 1251.	2.8	15
11	Virtualizing clinical cases of atrial flutter in a fast marching simulation including conduction velocity and ablation scars. <i>Current Directions in Biomedical Engineering</i> , 2015, 1, 405-408.	0.4	12
12	Imaging, biomarker and invasive assessment of diffuse left ventricular myocardial fibrosis in atrial fibrillation. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2020, 22, 13.	3.3	12
13	Experimental observations of active invariance striations in a tank environment. <i>Journal of the Acoustical Society of America</i> , 2010, 128, 611-618.	1.1	11
14	Analysis and visualization of intracardiac electrograms in diagnosis and research: Concept and application of KaPAVIE. <i>Computer Methods and Programs in Biomedicine</i> , 2016, 127, 165-173.	4.7	11
15	Local Impedance Drop Predicts Durable Conduction Block in Patients With Paroxysmal Atrial Fibrillation. <i>JACC: Clinical Electrophysiology</i> , 2022, 8, 595-604.	3.2	11
16	Automatic Identification of Reentry Mechanisms and Critical Sites During Atrial Tachycardia by Analyzing Areas of Activity. <i>IEEE Transactions on Biomedical Engineering</i> , 2018, 65, 2334-2344.	4.2	10
17	Mapping and Removing the Ventricular Far Field Component in Unipolar Atrial Electrograms. <i>IEEE Transactions on Biomedical Engineering</i> , 2020, 67, 2905-2915.	4.2	9
18	Mini Electrodes on Ablation Catheters: Valuable Addition or Redundant Information?—Insights from a Computational Study. <i>Computational and Mathematical Methods in Medicine</i> , 2017, 2017, 1-13.	1.3	7

#	ARTICLE	IF	CITATIONS
19	Estimating refractory periods during atrial fibrillation based on electrogram cycle lengths in a heterogeneous simulation setup. <i>Current Directions in Biomedical Engineering</i> , 2017, 3, 317-320.	0.4	6
20	Extraction of time-frequency target features. , 2010, , .		4
21	Classification of cardiac excitation patterns during atrial fibrillation. <i>Current Directions in Biomedical Engineering</i> , 2016, 2, 161-166.	0.4	4
22	Cycle length statistics during human atrial fibrillation reveal refractory properties of the underlying substrate: a combined <i>in silico</i> and clinical test of concept study. <i>Europace</i> , 2021, 23, i133-i142.	1.7	4
23	Atrial Signals – Modeling Meets Biosignal Analysis. <i>IFMBE Proceedings</i> , 2018, , 723-726.	0.3	4
24	Definition, estimation and limitations of the dominant frequency in intracardiac electrograms. <i>Current Directions in Biomedical Engineering</i> , 2017, 3, 95-98.	0.4	3
25	An Interactive Virtual Reality Environment for Analysis of Clinical Atrial Arrhythmias and Ablation Planning. , 0, , .		3
26	Local Electrical Impedance Mapping of the Atria: Conclusions on Substrate Properties and Confounding Factors. <i>Frontiers in Physiology</i> , 2021, 12, 788885.	2.8	3
27	Orthogonal component analysis to remove ventricular far field in non periodic sustained atrial flutter. , 2015, , .		2
28	Preprocessing of unipolar signals acquired by a novel intracardiac mapping system. <i>Current Directions in Biomedical Engineering</i> , 2016, 2, 259-262.	0.4	2
29	A Computational Framework to Benchmark Basket Catheter Guided Ablation. , 2017, , .		2
30	Interactive visualization of cardiac anatomy and atrial excitation for medical diagnosis and research. <i>Current Directions in Biomedical Engineering</i> , 2015, 1, 400-404.	0.4	1
31	Model assisted biosignal analysis of atrial electrograms. <i>TM Technisches Messen</i> , 2016, 83, 102-111.	0.7	1
32	Automatic detection and mapping of double potentials in intracardiac electrograms. <i>Current Directions in Biomedical Engineering</i> , 2016, 2, 179-183.	0.4	1
33	Locating regions of arrhythmogenic substrate by analyzing the duration of triggered atrial activities. <i>Current Directions in Biomedical Engineering</i> , 2015, 1, 50-53.	0.4	0
34	Analyzing the atrial depolarization wavefront triggered from sinus node and coronary sinus for identification of the arrhythmogenic substrate. , 2015, , .		0
35	Assessment of local high-density mapping for the analysis of radiofrequency ablation lesions in the left atrium. <i>Current Directions in Biomedical Engineering</i> , 2017, 3, 109-112.	0.4	0
36	High-density Mapping Reveals Short-term Reversibility of Atrial Ablation Lesions. <i>Current Directions in Biomedical Engineering</i> , 2018, 4, 385-388.	0.4	0

#	ARTICLE	IF	CITATIONS
37	Local Impedance Drop Predicts Durable Conduction Block in Patients With Paroxysmal Atrial Fibrillation. SSRN Electronic Journal, 0, , .	0.4	0
38	B-PO02-108 LOCAL IMPEDANCE MEASUREMENTS WITH THE INTELLANAV MIFI OI AND THE INTELLANAV STABLEPOINT ABLATION CATHETER ARE LINEARLY RELATED. Heart Rhythm, 2021, 18, S141.	0.7	0
39	Virtual Reality Visualization of Arrhythmias on a Smartphone. , 0, , .		0