

Frida Sandberg

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

529
citations

759190

12
h-index

713444

21
g-index

55
all docs

55
docs citations

55
times ranked

448
citing authors

#	ARTICLE	IF	CITATIONS
1	Predicting spontaneous termination of atrial fibrillation using the surface ECG. Medical Engineering and Physics, 2006, 28, 802-808.	1.7	77
2	Frequency Tracking of Atrial Fibrillation Using Hidden Markov Models. IEEE Transactions on Biomedical Engineering, 2008, 55, 502-511.	4.2	58
3	Classification of Paroxysmal and Persistent Atrial Fibrillation in Ambulatory ECG Recordings. IEEE Transactions on Biomedical Engineering, 2011, 58, 1441-1449.	4.2	50
4	An Atrioventricular Node Model for Analysis of the Ventricular Response During Atrial Fibrillation. IEEE Transactions on Biomedical Engineering, 2011, 58, 3386-3395.	4.2	44
5	Noninvasive Techniques for Prevention of Intradialytic Hypotension. IEEE Reviews in Biomedical Engineering, 2012, 5, 45-59.	18.0	29
6	ECG-Derived Respiratory Rate in Atrial Fibrillation. IEEE Transactions on Biomedical Engineering, 2020, 67, 905-914.	4.2	26
7	Extracting a Cardiac Signal From the Extracorporeal Pressure Sensors of a Hemodialysis Machine. IEEE Transactions on Biomedical Engineering, 2015, 62, 1305-1315.	4.2	25
8	Prediction of hypotension in hemodialysis patients. Physiological Measurement, 2014, 35, 1885-1898.	2.1	21
9	Model-Based Assessment of f-Wave Signal Quality in Patients With Atrial Fibrillation. IEEE Transactions on Biomedical Engineering, 2018, 65, 2600-2611.	4.2	21
10	Atrioventricular nodal function during atrial fibrillation: Model building and robust estimation. Biomedical Signal Processing and Control, 2013, 8, 1017-1025.	5.7	20
11	Circadian variation in dominant atrial fibrillation frequency in persistent atrial fibrillation. Physiological Measurement, 2010, 31, 531-542.	2.1	18
12	A Statistical Atrioventricular Node Model Accounting for Pathway Switching During Atrial Fibrillation. IEEE Transactions on Biomedical Engineering, 2016, 63, 1842-1849.	4.2	13
13	Non-invasive assessment of the effect of beta blockers and calcium channel blockers on the AV node during permanent atrial fibrillation. Journal of Electrocardiology, 2015, 48, 861-866.	0.9	12
14	Understanding Atrial Fibrillation: The Signal Processing Contribution, Part I. Synthesis Lectures on Biomedical Engineering, 2008, 3, 1-129.	0.1	12
15	Long-term characterization of persistent atrial fibrillation: wave morphology, frequency, and irregularity analysis. Medical and Biological Engineering and Computing, 2014, 52, 1053-1060.	2.8	10
16	Noninvasive estimation of organization in atrial fibrillation as a predictor of sinus rhythm maintenance. Journal of Electrocardiology, 2011, 44, 171-175.	0.9	9
17	Characterisation of human AV-nodal properties using a network model. Medical and Biological Engineering and Computing, 2018, 56, 247-259.	2.8	9
18	Application of frequency and sample entropy to discriminate long-term recordings of paroxysmal and persistent atrial fibrillation. , 2010, 2010, 4558-61.		8

#	ARTICLE	IF	CITATIONS
19	Non-invasive evaluation of the effect of metoprolol on the atrioventricular node during permanent atrial fibrillation. <i>Europace</i> , 2014, 16, iv129-iv134.	1.7	7
20	Detection of Brief Episodes of Atrial Fibrillation Based on Electrocardiomatrix and Convolutional Neural Network. <i>Frontiers in Physiology</i> , 2021, 12, 673819.	2.8	7
21	Noninvasive Assessment of Atrioventricular Nodal Function: Effect of Rate-Control Drugs during Atrial Fibrillation. , 2015, 20, 534-541.		6
22	Detection of ventricular premature beats based on the pressure signals of a hemodialysis machine. <i>Medical Engineering and Physics</i> , 2018, 51, 49-55.	1.7	6
23	Monitoring respiration using the pressure sensors in a dialysis machine. <i>Physiological Measurement</i> , 2019, 40, 025001.	2.1	6
24	Noninvasive characterization of atrioventricular conduction in patients with atrial fibrillation. <i>Journal of Electrocardiology</i> , 2015, 48, 938-942.	0.9	5
25	Automatic Detection of Atrial Fibrillation Using Electrocardiomatrix and Convolutional Neural Network. , 0, , .		5
26	Cardiac signal estimation based on the arterial and venous pressure signals of a hemodialysis machine. <i>Physiological Measurement</i> , 2016, 37, 1499-1515.	2.1	4
27	Non-invasive Characterization of Human AV-Nodal Conduction Delay and Refractory Period During Atrial Fibrillation. <i>Frontiers in Physiology</i> , 2021, 12, 728955.	2.8	4
28	Identification of patients prone to hypotension during hemodialysis based on the analysis of cardiovascular signals. <i>Medical Engineering and Physics</i> , 2015, 37, 1156-1161.	1.7	3
29	Changes in f-wave characteristics during cryoballoon catheter ablation. <i>Physiological Measurement</i> , 2018, 39, 105001.	2.1	3
30	Signal Quality Assessment of F-waves in Atrial Fibrillation. , 0, , .		2
31	Respiratory Induced Modulation in f-Wave Characteristics During Atrial Fibrillation. <i>Frontiers in Physiology</i> , 2021, 12, 653492.	2.8	2
32	Respiratory Modulation in Permanent Atrial Fibrillation. , 0, , .		2
33	Statistical modeling of the atrioventricular node during atrial fibrillation: Data length and estimator performance. , 2013, 2013, 2567-70.		1
34	Characterization of AV-nodal properties during atrial fibrillation using a multilevel modelling approach. , 2015, , .		1
35	Heart rate estimation from dual pressure sensors of a dialysis machine. , 2015, , .		1
36	Statistical Modeling of Atrioventricular Nodal Function During Atrial Fibrillation Focusing on the Refractory Period Estimation. <i>Communications in Computer and Information Science</i> , 2014, , 258-268.	0.5	1

#	ARTICLE	IF	CITATIONS
37	Relationship between Atrial Oscillatory Acetylcholine Release Pattern and f-wave Frequency Modulation: a Computational and Experimental Study. , 0, , .		1
38	Frequency Tracking of Atrial Fibrillation using Hidden Markov Models. , 2006, 2006, 1406-9.		0
39	A novel statistical model of the dual pathway atrioventricular node during atrial fibrillation. , 2015, , .		0
40	Preliminary Results from Clinical Validation Study of a Method for Non-Invasive Assessment of Atrioventricular Node Refractoriness During Atrial Fibrillation. , 2017, , .		0
41	Modeling and Analysis of Ventricular Response in Atrial Fibrillation. Series in Bioengineering, 2018, , 281-311.	0.6	0
42	Detection of Needle Dislodgement Using Extracorporeal Pressure Signals: A Feasibility Study. ASAIO Journal, 2020, 66, 454-462.	1.6	0
43	Characterization of Changes in P-Wave VCG Loops Following Pulmonary-Vein Isolation. Sensors, 2021, 21, 1923.	3.8	0
44	A Spatially Extended Model of the Human Atrioventricular Node. , 0, , .		0
45	Pulmonary Vein Isolation Induces Changes in Vectorcardiogram P-wave Loops. , 0, , .		0
46	Clinical Use And Limitations Of Non-Invasive Electrophysiological Tests In Patients With Atrial Fibrillation. Journal of Atrial Fibrillation, 2016, 9, 1424.	0.5	0
47	Changes in RR Series Characteristics During Atrial Fibrillation: An AV Node Simulation Study. , 2021, , .		0
48	Atrial Fibrillatory Rate Characterization Extracted from Implanted Cardiac Monitor Data. , 2021, , .		0
49	Non-Invasive Characterization of Atrio-Ventricular Properties During Atrial Fibrillation. , 2021, , .		0
50	Acute Cardiovascular Effects of Hydrotreated Vegetable Oil Exhaust. Frontiers in Physiology, 2022, 13, 828311.	2.8	0