

# Brian Hansen

## List of Publications by Year in descending order

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35  
papers

1,725  
citations

304743

22  
h-index

395702

33  
g-index

35  
all docs

35  
docs citations

35  
times ranked

1817  
citing authors

#	ARTICLE	IF	CITATIONS
1	Comprehensive evaluation of electrophysiological and 3D structural features of human atrial myocardium with insights on atrial fibrillation maintenance mechanisms. <i>Journal of Molecular and Cellular Cardiology</i> , 2021, 151, 56-71.	1.9	11
2	Fibroblast-Specific Proteotranscriptomes Reveal Distinct Fibrotic Signatures of Human Sinoatrial Node in Nonfailing and Failing Hearts. <i>Circulation</i> , 2021, 144, 126-143.	1.6	22
3	Altered microRNA and mRNA profiles during heart failure in the human sinoatrial node. <i>Scientific Reports</i> , 2021, 11, 19328.	3.3	12
4	Unmasking Arrhythmogenic Hubs of Reentry Driving Persistent Atrial Fibrillation for Patient-Specific Treatment. <i>Journal of the American Heart Association</i> , 2020, 9, e017789.	3.7	18
5	Silencing miR-370-3p rescues funny current and sinus node function in heart failure. <i>Scientific Reports</i> , 2020, 10, 11279.	3.3	30
6	Optical Mapping-Validated Machine Learning Improves Atrial Fibrillation Driver Detection by Multi-Electrode Mapping. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2020, 13, e008249.	4.8	21
7	Impaired neuronal sodium channels cause intranodal conduction failure and reentrant arrhythmias in human sinoatrial node. <i>Nature Communications</i> , 2020, 11, 512.	12.8	39
8	A robust computational framework for estimating 3D Bi-Atrial chamber wall thickness. <i>Computers in Biology and Medicine</i> , 2019, 114, 103444.	7.0	16
9	Canine and human sinoatrial node: differences and similarities in the structure, function, molecular profiles, and arrhythmia. <i>Journal of Veterinary Cardiology</i> , 2019, 22, 2-19.	0.9	38
10	A Secret Marriage Between Fibrosis and Atrial Fibrillation Drivers. <i>JACC: Clinical Electrophysiology</i> , 2018, 4, 30-32.	3.2	2
11	Now You See a Rotor, Now You Don't™. <i>JACC: Clinical Electrophysiology</i> , 2018, 4, 84-86.	3.2	2
12	First In Vivo Use of High-Resolution Near-Infrared Optical Mapping to Assess Atrial Activation During Sinus Rhythm and Atrial Fibrillation in a Large Animal Model. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2018, 11, e006870.	4.8	11
13	Human Atrial Fibrillation Drivers Resolved With Integrated Functional and Structural Imaging to Benefit Clinical Mapping. <i>JACC: Clinical Electrophysiology</i> , 2018, 4, 1501-1515.	3.2	51
14	Mechanisms of Normal and Dysfunctional Sinoatrial Nodal Excitability and Propagation. , 2018, , 259-271.		3
15	Novel application of 3D contrast-enhanced CMR to define fibrotic structure of the human sinoatrial node in vivo. <i>European Heart Journal Cardiovascular Imaging</i> , 2017, 18, 862-869.	1.2	35
16	Fibrosis and Atrial Fibrillation: Computerized and Optical Mapping. <i>JACC: Clinical Electrophysiology</i> , 2017, 3, 531-546.	3.2	77
17	Redundant and diverse intranodal pacemakers and conduction pathways protect the human sinoatrial node from failure. <i>Science Translational Medicine</i> , 2017, 9, .	12.4	76
18	Three-dimensional Integrated Functional, Structural, and Computational Mapping to Define the Structural "Fingerprints" of Heart-Specific Atrial Fibrillation Drivers in Human Heart Ex Vivo. <i>Journal of the American Heart Association</i> , 2017, 6, .	3.7	120

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19	Atrial fibrillation driver mechanisms: Insight from the isolated human heart. <i>Trends in Cardiovascular Medicine</i> , 2017, 27, 1-11.	4.9	27
20	Response by Li et al to Letter Regarding Article, "Adenosine-Induced Atrial Fibrillation: Localized Reentrant Drivers in Lateral Right Atria Due to Heterogeneous Expression of Adenosine A1 Receptors and GIRK4 Subunits in the Human Heart". <i>Circulation</i> , 2016, 134, e648-e649.	1.6	5
21	Maintenance of Atrial Fibrillation. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2016, 9, .	4.8	37
22	Adenosine-Induced Atrial Fibrillation. <i>Circulation</i> , 2016, 134, 486-498.	1.6	85
23	Rationally engineered Troponin C modulates in vivo cardiac function and performance in health and disease. <i>Nature Communications</i> , 2016, 7, 10794.	12.8	45
24	Human sinoatrial node structure: 3D microanatomy of sinoatrial conduction pathways. <i>Progress in Biophysics and Molecular Biology</i> , 2016, 120, 164-178.	2.9	81
25	Atrial fibrillation driven by micro-anatomic intramural re-entry revealed by simultaneous sub-epicardial and sub-endocardial optical mapping in explanted human hearts. <i>European Heart Journal</i> , 2015, 36, 2390-2401.	2.2	347
26	Integration of High-Resolution Optical Mapping and 3-Dimensional Micro-Computed Tomographic Imaging to Resolve the Structural Basis of Atrial Conduction in the Human Heart. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2015, 8, 1514-1517.	4.8	51
27	Fibrosis: a structural modulator of sinoatrial node physiology and dysfunction. <i>Frontiers in Physiology</i> , 2015, 6, 37.	2.8	93
28	Optimization of Catheter Ablation of Atrial Fibrillation: Insights Gained from Clinically-Derived Computer Models. <i>International Journal of Molecular Sciences</i> , 2015, 16, 10834-10854.	4.1	33
29	Molecular Mapping of Sinoatrial Node HCN Channel Expression in the Human Heart. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2015, 8, 1219-1227.	4.8	72
30	Calsequestrin 2 deletion causes sinoatrial node dysfunction and atrial arrhythmias associated with altered sarcoplasmic reticulum calcium cycling and degenerative fibrosis within the mouse atrial pacemaker complex1. <i>European Heart Journal</i> , 2015, 36, 686-697.	2.2	110
31	Abstract 18402: Human Atrial Fibrillation Drivers Seen Simultaneously by Focal Impulse and Rotor Mapping and High-resolution Optical Mapping. <i>Circulation</i> , 2015, 132, .	1.6	15
32	Abstract 18171: HCN Channel Distribution in the Human Sinoatrial Node and Latent Atrial Pacemakers <i>(Best of Basic Science Abstract)</i>. <i>Circulation</i> , 2015, 132, .	1.6	0
33	Upregulation of Adenosine A1 Receptors Facilitates Sinoatrial Node Dysfunction in Chronic Canine Heart Failure by Exacerbating Nodal Conduction Abnormalities Revealed by Novel Dual-Sided Intramural Optical Mapping. <i>Circulation</i> , 2014, 130, 315-324.	1.6	70
34	Tachy-brady arrhythmias: The critical role of adenosine-induced sinoatrial conduction block in post-tachycardia pauses. <i>Heart Rhythm</i> , 2013, 10, 110-118.	0.7	29
35	Sinoatrial Node Reentry in a Canine Chronic Left Ventricular Infarct Model. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2013, 6, 984-994.	4.8	41