

Hiroshi Ashikaga

List of Publications by Year in descending order

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Version: 2024-02-01

125
papers

4,656
citations

109321

35
h-index

110387

64
g-index

132
all docs

132
docs citations

132
times ranked

5193
citing authors

#	ARTICLE	IF	CITATIONS
1	Purkinje network and myocardial substrate at the onset of human ventricular fibrillation: implications for catheter ablation. <i>European Heart Journal</i> , 2022, 43, 1234-1247.	2.2	30
2	On the nature of delays allowing anatomical re-entry involving the Purkinje network: a simulation study. <i>Europace</i> , 2021, 23, i71-i79.	1.7	3
3	Ventricular ectopy and arrhythmia by HIV serostatus, viremia, and CD4+ cell count. <i>Aids</i> , 2021, 35, 846-849.	2.2	2
4	Association between human immunodeficiency virus serostatus and the prevalence of atrial fibrillation. <i>Medicine (United States)</i> , 2021, 100, e26663.	1.0	4
5	Characterization of the Electrophysiologic Remodeling of Patients With Ischemic Cardiomyopathy by Clinical Measurements and Computer Simulations Coupled With Machine Learning. <i>Frontiers in Physiology</i> , 2021, 12, 684149.	2.8	10
6	Quantifying arrhythmic long QT effects of hydroxychloroquine and azithromycin with whole-heart optical mapping and simulations. <i>Heart Rhythm O2</i> , 2021, 2, 394-404.	1.7	16
7	Association of Longitudinal Changes in NT-proBNP With Changes in Left Atrial Volume and Function: MESA. <i>American Journal of Hypertension</i> , 2021, 34, 626-635.	2.0	6
8	Extrapolation of Ventricular Activation Times From Sparse Electroanatomical Data Using Graph Convolutional Neural Networks. <i>Frontiers in Physiology</i> , 2021, 12, 694869.	2.8	2
9	Short- and long-term associations of atrial fibrillation catheter ablation with left atrial structure and function: A cardiac magnetic resonance study. <i>Journal of Cardiovascular Electrophysiology</i> , 2021, 32, 316-324.	1.7	5
10	Cine cardiac magnetic resonance to predict ventricular arrhythmia (CERTAINTY). <i>Scientific Reports</i> , 2021, 11, 22683.	3.3	6
11	HIV Infection Is Associated With Variability in Ventricular Repolarization. <i>Circulation</i> , 2020, 141, 176-187.	1.6	22
12	Associations between QT interval subcomponents, HIV serostatus, and inflammation. <i>Annals of Noninvasive Electrocardiology</i> , 2020, 25, e12705.	1.1	13
13	Baseline and Dynamic Risk Predictors of Appropriate Implantable Cardioverter Defibrillator Therapy. <i>Journal of the American Heart Association</i> , 2020, 9, e017002.	3.7	25
14	Fatal arrhythmias: Another reason why doctors remain cautious about chloroquine/hydroxychloroquine for treating COVID-19. <i>Heart Rhythm</i> , 2020, 17, 1445-1451.	0.7	25
15	Association between interatrial block, left atrial fibrosis, and mechanical dyssynchrony: Electrocardiography-magnetic resonance imaging correlation. <i>Journal of Cardiovascular Electrophysiology</i> , 2020, 31, 1719-1725.	1.7	26
16	Accurate Conduction Velocity Maps and Their Association With Scar Distribution on Magnetic Resonance Imaging in Patients With Postinfarction Ventricular Tachycardias. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2020, 13, e007792.	4.8	20
17	Mechanism of spontaneous initiation of ventricular fibrillation in patients with implantable defibrillators. <i>Journal of Cardiovascular Electrophysiology</i> , 2020, 31, 2415-2424.	1.7	2
18	Early Signs of Critical Slowing Down in Heart Surface Electrograms of Ventricular Fibrillation Victims. <i>Lecture Notes in Computer Science</i> , 2020, , 334-347.	1.3	3

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19	Computationally guided personalized targeted ablation of persistent atrial fibrillation. Nature Biomedical Engineering, 2019, 3, 870-879.	22.5	170
20	Change in left atrial function predicts incident atrial fibrillation: the Multi-Ethnic Study of Atherosclerosis. European Heart Journal Cardiovascular Imaging, 2019, 20, 979-987.	1.2	43
21	Heart rate increase after pulmonary vein isolation predicts freedom from atrial fibrillation at 1 year. Journal of Cardiovascular Electrophysiology, 2019, 30, 2818-2822.	1.7	15
22	Scale-invariant structures of spiral waves. Computers in Biology and Medicine, 2019, 104, 291-298.	7.0	2
23	Periatrial Fat Quality Predicts Atrial Fibrillation Ablation Outcome. Circulation: Cardiovascular Imaging, 2019, 12, e008764.	2.6	28
24	Ablation Lesion Characterization in Scarred Substrate Assessed Using Cardiac Magnetic Resonance. JACC: Clinical Electrophysiology, 2019, 5, 91-100.	3.2	29
25	Predictors of electrocardiographic QT interval prolongation in men with HIV. Heart, 2019, 105, 559-565.	2.9	31
26	Intra-Atrial Dyssynchrony During Sinus Rhythm Predicts Recurrence After the First Catheter Ablation for Atrial Fibrillation. JACC: Cardiovascular Imaging, 2019, 12, 310-319.	5.3	29
27	Intra-Atrial Dyssynchrony Using Cardiac Magnetic Resonance to Quantify Tissue Remodeling in Patients with Atrial Fibrillation. Arquivos Brasileiros De Cardiologia, 2019, 112, 441-450.	0.8	2
28	Response by Zghaib et al to Letter Regarding Article, "Standard Ablation Versus Magnetic Resonance Imaging-Guided Ablation in the Treatment of Ventricular Tachycardia". Circulation: Arrhythmia and Electrophysiology, 2018, 11, e006413.	4.8	3
29	Locating Order-Disorder Phase Transition in a Cardiac System. Scientific Reports, 2018, 8, 1967.	3.3	10
30	The Extent of Left Atrial Low-Voltage Areas Included in Pulmonary Vein Isolation Is Associated With Freedom from Recurrent Atrial Arrhythmia. Canadian Journal of Cardiology, 2018, 34, 73-79.	1.7	25
31	Multimodal Examination of Atrial Fibrillation Substrate. JACC: Clinical Electrophysiology, 2018, 4, 59-68.	3.2	44
32	Standard Ablation Versus Magnetic Resonance Imaging-Guided Ablation in the Treatment of Ventricular Tachycardia. Circulation: Arrhythmia and Electrophysiology, 2018, 11, e005973.	4.8	39
33	Relation of Electrocardiographic Left Atrial Abnormalities to Risk of Stroke in Patients with Atrial Fibrillation. American Journal of Cardiology, 2018, 122, 242-247.	1.6	5
34	Current management and clinical outcomes for catheter ablation of atrioventricular nodal re-entrant tachycardia. Europace, 2018, 20, e51-e59.	1.7	40
35	Mechanical dyssynchrony of the left atrium during sinus rhythm is associated with history of stroke in patients with atrial fibrillation. European Heart Journal Cardiovascular Imaging, 2018, 19, 433-441.	1.2	23
36	Impact of number of co-existing rotors and inter-electrode distance on accuracy of rotor localization. Journal of Electrocardiology, 2018, 51, 82-91.	0.9	11

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37	Increased rates of atrial fibrillation recurrence following pulmonary vein isolation in overweight and obese patients. <i>Journal of Cardiovascular Electrophysiology</i> , 2018, 29, 239-245.	1.7	57
38	Initiation of a High-Frequency Jet Ventilation Strategy for Catheter Ablation for Atrial Fibrillation. <i>JACC: Clinical Electrophysiology</i> , 2018, 4, 1519-1525.	3.2	22
39	Personalized virtual-heart technology for guiding the ablation of infarct-related ventricular tachycardia. <i>Nature Biomedical Engineering</i> , 2018, 2, 732-740.	22.5	184
40	The Fibrotic Substrate in Persistent Atrial Fibrillation Patients: Comparison Between Predictions From Computational Modeling and Measurements From Focal Impulse and Rotor Mapping. <i>Frontiers in Physiology</i> , 2018, 9, 1151.	2.8	31
41	Causal Scale of Rotors in a Cardiac System. <i>Frontiers in Physics</i> , 2018, 6, .	2.1	5
42	Is human atrial fibrillation stochastic or deterministic? Insights from missing ordinal patterns and causal entropy-complexity plane analysis. <i>Chaos</i> , 2018, 28, 063130.	2.5	15
43	Inter-scale information flow as a surrogate for downward causation that maintains spiral waves. <i>Chaos</i> , 2018, 28, 075306.	2.5	9
44	Acute Pulmonary Vein Reconnection after Ablation using Contact-force Sensing Catheters: Incidence, Timing, and Ablation Lesion Characteristics. <i>Journal of Atrial Fibrillation</i> , 2018, 11, 2084.	0.5	1
45	Hidden structures of information transport underlying spiral wave dynamics. <i>Chaos</i> , 2017, 27, 013106.	2.5	10
46	Impact of rotor temperospatial stability on acute and one-year atrial fibrillation ablation outcomes. <i>Clinical Cardiology</i> , 2017, 40, 383-389.	1.8	13
47	Projection-based motion estimation for cardiac functional analysis with high temporal resolution: a proof-of-concept study with digital phantom experiment. <i>Proceedings of SPIE</i> , 2017, , .	0.8	2
48	Impaired left atrial function predicts inappropriate shocks in primary prevention implantable cardioverter-defibrillator candidates. <i>Journal of Cardiovascular Electrophysiology</i> , 2017, 28, 796-805.	1.7	10
49	Trends in Transesophageal Echocardiography Use, Findings, and Clinical Outcomes in the Era of Minimally Interrupted Anticoagulation for Atrial Fibrillation Ablation. <i>JACC: Clinical Electrophysiology</i> , 2017, 3, 329-336.	3.2	21
50	Association of Rate-Dependent Conduction Block Between Eccentric Coronary Sinus to Left Atrial Connections With Inducible Atrial Fibrillation and Flutter. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2017, 10, .	4.8	8
51	Vectors through a cross-sectional image (VCI): A visualization method for four-dimensional motion analysis for cardiac computed tomography. <i>Journal of Cardiovascular Computed Tomography</i> , 2017, 11, 468-473.	1.3	5
52	Rotors. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2017, 10, .	4.8	9
53	Electrocardiographic Strain Pattern Is Associated With Left Ventricular Concentric Remodeling, Scar, and Mortality Over 10 Years: The Multi-Ethnic Study of Atherosclerosis. <i>Journal of the American Heart Association</i> , 2017, 6, .	3.7	10
54	Motion estimation for cardiac functional analysis using two x-ray computed tomography scans. <i>Medical Physics</i> , 2017, 44, 4677-4686.	3.0	5

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55	Quantifying left atrial structure and function using single-plane tissue-tracking cardiac magnetic resonance. Magnetic Resonance Imaging, 2017, 42, 130-138.	1.8	8
56	Electrocardiographic Impact of Myocardial Diffuse Fibrosis and Scar: MESA (Multi-Ethnic Study of) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	7.3	30
57	Ablation as targeted perturbation to rewire communication network of persistent atrial fibrillation. PLoS ONE, 2017, 12, e0179459.	2.5	16
58	False dyssynchrony: problem with image-based cardiac functional analysis using x-ray computed tomography. Proceedings of SPIE, 2017, , .	0.8	3
59	Clinical predictors of cardiac magnetic resonance late gadolinium enhancement in patients with atrial fibrillation. Europace, 2016, 19, euw019.	1.7	25
60	Myofiber Architecture of the Human Atria as Revealed by Submillimeter Diffusion Tensor Imaging. Circulation: Arrhythmia and Electrophysiology, 2016, 9, e004133.	4.8	137
61	Association of left atrial epicardial adipose tissue with electrogram bipolar voltage and fractionation: Electrophysiologic substrates for atrial fibrillation. Heart Rhythm, 2016, 13, 2333-2339.	0.7	40
62	Factors impacting complication rates for catheter ablation of atrial fibrillation from 2003 to 2015. Europace, 2016, 19, euw178.	1.7	35
63	The association of baseline left atrial structure and function measured with cardiac magnetic resonance and pulmonary vein isolation outcome in patients with drug-refractory atrial fibrillation. Heart Rhythm, 2016, 13, 1037-1044.	0.7	39
64	Left Atrial LGE and Arrhythmia Recurrence Following Pulmonary Vein Isolation forÂParoxysmal and Persistent AF. JACC: Cardiovascular Imaging, 2016, 9, 142-148.	5.3	94
65	Association of Left Atrial Local Conduction Velocity With Late Gadolinium Enhancement on Cardiac Magnetic Resonance in Patients With Atrial Fibrillation. Circulation: Arrhythmia and Electrophysiology, 2016, 9, e002897.	4.8	77
66	Association Between Left Atrial Stiffness Index and Atrial Fibrillation Recurrence in Patients Undergoing Left Atrial Ablation. Circulation: Arrhythmia and Electrophysiology, 2016, 9, .	4.8	65
67	A Computational Framework for Personalized Blood Flow Analysis in the Human Left Atrium. Annals of Biomedical Engineering, 2016, 44, 3284-3294.	2.5	92
68	Lack of regional association between atrial late gadolinium enhancement on cardiac magnetic resonance and atrial fibrillation rotors. Heart Rhythm, 2016, 13, 654-660.	0.7	43
69	Regional function analysis of left atrial appendage using motion estimation CT and risk of stroke in patients with atrial fibrillation. European Heart Journal Cardiovascular Imaging, 2016, 17, 788-796.	1.2	9
70	1E32 Personalized Left Atrial Blood Flow Analysis Using Computational Fluid Dynamics. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2016, 2016.28, _1E32-1_-_1E32-4_.	0.0	0
71	Reprint of 'Model of unidirectional block formation leading to reentrant ventricular tachycardia in the infarct border zone of postinfarction canine hearts'. Computers in Biology and Medicine, 2015, 65, 256-266.	7.0	1
72	MRI Evaluation of Radiofrequency, Cryothermal, and Laser Left Atrial Lesion Formation in Patients with Atrial Fibrillation. PACE - Pacing and Clinical Electrophysiology, 2015, 38, 1317-1324.	1.2	23

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73	Accuracy of prediction of infarct-related arrhythmic circuits from image-based models reconstructed from low and high resolution MRI. <i>Frontiers in Physiology</i> , 2015, 6, 282.	2.8	55
74	Comparison of preexisting and ablation-induced late gadolinium enhancement on left atrial magnetic resonance imaging. <i>Heart Rhythm</i> , 2015, 12, 668-672.	0.7	25
75	Association of Left Atrial Function and Left Atrial Enhancement in Patients With Atrial Fibrillation. <i>Circulation: Cardiovascular Imaging</i> , 2015, 8, e002769.	2.6	141
76	Model of unidirectional block formation leading to reentrant ventricular tachycardia in the infarct border zone of postinfarction canine hearts. <i>Computers in Biology and Medicine</i> , 2015, 62, 254-263.	7.0	19
77	The association of left atrial low-voltage regions on electroanatomic mapping with low attenuation regions on cardiac computed tomography perfusion imaging in patients with atrial fibrillation. <i>Heart Rhythm</i> , 2015, 12, 857-864.	0.7	27
78	Quantitative Tissue Tracking Cardiac Magnetic Resonance (CMR) of Left Atrial Deformation and the Risk of Stroke in Patients With Atrial Fibrillation. <i>Journal of the American Heart Association</i> , 2015, 4, .	3.7	56
79	Modelling the heart as a communication system. <i>Journal of the Royal Society Interface</i> , 2015, 12, 20141201.	3.4	14
80	Model of Bipolar Electrogram Fractionation and Conduction Block Associated With Activation Wavefront Direction at Infarct Border Zone Lateral Isthmus Boundaries. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2014, 7, 152-163.	4.8	25
81	The Association of Pre-Existing Left Atrial Fibrosis with Clinical Variables in Patients Referred for Catheter Ablation of Atrial Fibrillation. <i>Clinical Medicine Insights: Cardiology</i> , 2014, 8s1, CMC.S15036.	1.8	21
82	Quantitative Assessment of Single-Image Super-Resolution in Myocardial Scar Imaging. <i>IEEE Journal of Translational Engineering in Health and Medicine</i> , 2014, 2, 1-12.	3.7	31
83	Quantitative Assessment of Atrial Regional Function Using Motion Estimation Computed Tomography. <i>Journal of Computer Assisted Tomography</i> , 2014, 38, 773-778.	0.9	6
84	CT and MRI for Electrophysiology. , 2014, , 595-603.		0
85	Relationship between left atrial appendage morphology and stroke in patients with atrial fibrillation. <i>Heart Rhythm</i> , 2013, 10, 1843-1849.	0.7	182
86	Feasibility of image-based simulation to estimate ablation target in human ventricular arrhythmia. <i>Heart Rhythm</i> , 2013, 10, 1109-1116.	0.7	184
87	Phrenic Nerve Injury: An Underrecognized and Potentially Preventable Complication of Pulmonary Vein Isolation Using a Wide-Area Circumferential Ablation Approach. <i>Journal of Cardiovascular Electrophysiology</i> , 2013, 24, 1086-1091.	1.7	32
88	Safety and Efficacy of Atrial Fibrillation Ablation in Young Patients. <i>Journal of Atrial Fibrillation</i> , 2013, 6, 915.	0.5	3
89	In Vivo Validation of Longitudinal Circumferential Area Change Ratio to Estimate Myofiber Shortening in the Heart. <i>IEEE Transactions on Biomedical Engineering</i> , 2012, 59, 1391-1397.	4.2	2
90	The critical isthmus sites of ischemic ventricular tachycardia are in zones of tissue heterogeneity, visualized by magnetic resonance imaging. <i>Heart Rhythm</i> , 2011, 8, 1942-1949.	0.7	146

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91	MR-Based, Patient-Specific Computational Simulation to Recapitulate Scar-Related Ventricular Tachycardia. Journal of Arrhythmia, 2011, 27, YIAC_3.	1.2	0
92	Origin of the Electrocardiographic U Wave: Effects of M Cells and Dynamic Gap Junction Coupling. Annals of Biomedical Engineering, 2010, 38, 1060-1070.	2.5	6
93	Hemodynamic Improvement in Cardiac Resynchronization Does Not Require Improvement in Left Ventricular Rotation Mechanics. Circulation: Cardiovascular Imaging, 2010, 3, 456-463.	2.6	16
94	Prevention of atrial fibrillation: another good reason to recommend statins to women?. Heart, 2009, 95, 693-694.	2.9	5
95	Utility of Ezetimibe. American Journal of Cardiology, 2009, 103, 1321-1322.	1.6	1
96	Transmural Myocardial Mechanics During Isovolumic Contraction. JACC: Cardiovascular Imaging, 2009, 2, 202-211.	5.3	54
97	A Statistical Approach for Detecting Tubular Structures in Myocardial Infarct Scars. Lecture Notes in Computer Science, 2009, , 114-123.	1.3	0
98	Abnormal Sympathetic Innervation of Viable Myocardium and the Substrate of Ventricular Tachycardia After Myocardial Infarction. Journal of the American College of Cardiology, 2008, 51, 2266-2275.	2.8	166
99	Changes in regional myocardial volume during the cardiac cycle: implications for transmural blood flow and cardiac structure. American Journal of Physiology - Heart and Circulatory Physiology, 2008, 295, H610-H618.	3.2	34
100	Feasibility of Real-Time Magnetic Resonance Imaging for Catheter Guidance in Electrophysiology Studies. Circulation, 2008, 118, 223-229.	1.6	186
101	The visceral pericardium: macromolecular structure and contribution to passive mechanical properties of the left ventricle. American Journal of Physiology - Heart and Circulatory Physiology, 2007, 293, H3379-H3387.	3.2	37
102	Magnetic Resonance-Based Anatomical Analysis of Scar-Related Ventricular Tachycardia. Circulation Research, 2007, 101, 939-947.	4.5	199
103	Characterization of acute and subacute radiofrequency ablation lesions with nonenhanced magnetic resonance imaging. Heart Rhythm, 2007, 4, 208-214.	0.7	98
104	Model of reentrant ventricular tachycardia based on infarct border zone geometry predicts reentrant circuit features as determined by activation mapping. Heart Rhythm, 2007, 4, 1034-1045.	0.7	73
105	Transmural Dispersion of Myofiber Mechanics. Journal of the American College of Cardiology, 2007, 49, 909-916.	2.8	131
106	Geodesic Based Registration of Sensor Data and Anatomical Surface Image Data. Annals of Biomedical Engineering, 2007, 35, 1771-1781.	2.5	6
107	YI1-2. Heart Rhythm, 2006, 3, S106.	0.7	0
108	AB36-2. Heart Rhythm, 2006, 3, S74.	0.7	1

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109	Building maps of local apparent conductivity of the epicardium with a 2-D electrophysiological model of the heart. IEEE Transactions on Biomedical Engineering, 2006, 53, 1457-1466.	4.2	31
110	Mechanical insights into transmural dispersion of electrical sequence. Journal of Electrocardiology, 2006, 39, S31.	0.9	0
111	Transvenous Access to the Pericardial Space: An Approach to Epicardial Lead Implantation for Cardiac Resynchronization Therapy. PACE - Pacing and Clinical Electrophysiology, 2005, 28, 1018-1024.	1.2	18
112	Estimating Local Apparent Conductivity with a 2-D Electrophysiological Model of the Heart. Lecture Notes in Computer Science, 2005, , 256-266.	1.3	1
113	Electromechanical analysis of infarct border zone in chronic myocardial infarction. American Journal of Physiology - Heart and Circulatory Physiology, 2005, 289, H1099-H1105.	3.2	77
114	Direct measurement of transmural laminar architecture in the anterolateral wall of the ovine left ventricle: new implications for wall thickening mechanics. American Journal of Physiology - Heart and Circulatory Physiology, 2005, 288, H1324-H1330.	3.2	85
115	Diastolic dysfunction in volume-overload hypertrophy is associated with abnormal shearing of myolaminar sheets. American Journal of Physiology - Heart and Circulatory Physiology, 2005, 288, H2603-H2610.	3.2	22
116	Transvenous access to the pericardial space: A novel approach to epicardial lead implantation for cardiac resynchronization therapy. Heart Rhythm, 2005, 2, S161-S162.	0.7	0
117	Prospects for Gene Therapy for the Fibrosed Heart: Targeting Regulators of Extracellular Matrix Turnover. , 2005, , 343-354.		1
118	Transmural left ventricular mechanics underlying torsional recoil during relaxation. American Journal of Physiology - Heart and Circulatory Physiology, 2004, 286, H640-H647.	3.2	132
119	Transmural mechanics at left ventricular epicardial pacing site. American Journal of Physiology - Heart and Circulatory Physiology, 2004, 286, H2401-H2407.	3.2	41
120	Time-dependent remodeling of transmural architecture underlying abnormal ventricular geometry in chronic volume overload heart failure. American Journal of Physiology - Heart and Circulatory Physiology, 2004, 287, H1994-H2002.	3.2	21
121	Blood Coagulation and Atherothrombosis. , 2004, , 498-518.		2
122	Coronary Restenosis. , 2002, , 455-469.		0
123	Propanolol Administration in a Patient with Thyroid Storm. Annals of Internal Medicine, 2000, 132, 681.	3.9	10
124	Biotechnology and Cardiovascular Medicine: Recombinant Protein Therapy. , 1996, , 1-15.		1
125	Imaging of Myocardial Mechanics. , 0, , 328-335.		0