

Katherine C Wu

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

81
papers

4,830
citations

24
h-index

69
g-index

112
ext. papers

5,663
ext. citations

6.6
avg, IF

5.21
L-index

#	Paper	IF	Citations
81	Prognostic significance of microvascular obstruction by magnetic resonance imaging in patients with acute myocardial infarction. <i>Circulation</i> , 1998 , 97, 765-72	16.7	1090
80	Infarct tissue heterogeneity by magnetic resonance imaging identifies enhanced cardiac arrhythmia susceptibility in patients with left ventricular dysfunction. <i>Circulation</i> , 2007 , 115, 2006-14	16.7	625
79	Late gadolinium enhancement by cardiovascular magnetic resonance heralds an adverse prognosis in nonischemic cardiomyopathy. <i>Journal of the American College of Cardiology</i> , 2008 , 51, 2414-21	15.1	447
78	Contrast-enhanced multidetector computed tomography viability imaging after myocardial infarction: characterization of myocyte death, microvascular obstruction, and chronic scar. <i>Circulation</i> , 2006 , 113, 394-404	16.7	336
77	Quantification and time course of microvascular obstruction by contrast-enhanced echocardiography and magnetic resonance imaging following acute myocardial infarction and reperfusion. <i>Journal of the American College of Cardiology</i> , 1998 , 32, 1756-64	15.1	256
76	Autologous mesenchymal stem cells produce concordant improvements in regional function, tissue perfusion, and fibrotic burden when administered to patients undergoing coronary artery bypass grafting: The Prospective Randomized Study of Mesenchymal Stem Cell Therapy in Patients Undergoing Cardiac Surgery (PROMETHEUS) trial. <i>Circulation Research</i> , 2014 , 114, 1302-10	15.7	242
75	Microvascular obstruction and left ventricular remodeling early after acute myocardial infarction. <i>Circulation</i> , 2000 , 101, 2734-41	16.7	223
74	Arrhythmia risk stratification of patients after myocardial infarction using personalized heart models. <i>Nature Communications</i> , 2016 , 7, 11437	17.4	197
73	Cardiac magnetic resonance assessment of dyssynchrony and myocardial scar predicts function class improvement following cardiac resynchronization therapy. <i>JACC: Cardiovascular Imaging</i> , 2008 , 1, 561-8	8.4	173
72	CMR of microvascular obstruction and hemorrhage in myocardial infarction. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2012 , 14, 68	6.9	112
71	ECG quantification of myocardial scar in cardiomyopathy patients with or without conduction defects: correlation with cardiac magnetic resonance and arrhythmogenesis. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2008 , 1, 327-36	6.4	102
70	Noninvasive imaging of myocardial viability: current techniques and future developments. <i>Circulation Research</i> , 2003 , 93, 1146-58	15.7	82
69	Localization of myocardial scar in patients with cardiomyopathy and left bundle branch block using electrocardiographic Selvester QRS scoring - comparison with cardiac magnetic resonance. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2013 , 15,	6.9	78
68	Combined cardiac magnetic resonance imaging and C-reactive protein levels identify a cohort at low risk for defibrillator firings and death. <i>Circulation: Cardiovascular Imaging</i> , 2012 , 5, 178-86	3.9	72
67	Metabolic rates of ATP transfer through creatine kinase (CK Flux) predict clinical heart failure events and death. <i>Science Translational Medicine</i> , 2013 , 5, 215re3	17.5	68
66	An ECG index of myocardial scar enhances prediction of defibrillator shocks: an analysis of the Sudden Cardiac Death in Heart Failure Trial. <i>Heart Rhythm</i> , 2011 , 8, 38-45	6.7	47
65	Clinical risk prediction with random forests for survival, longitudinal, and multivariate (RF-SLAM) data analysis. <i>BMC Medical Research Methodology</i> , 2019 , 20, 1	4.7	46

64	Right, but not left, bundle branch block is associated with large anteroseptal scar. <i>Journal of the American College of Cardiology</i> , 2013 , 62, 959-67	15.1	42
63	Sudden Cardiac Death Substrate Imaged by Magnetic Resonance Imaging: From Investigational Tool to Clinical Applications. <i>Circulation: Cardiovascular Imaging</i> , 2017 , 10,	3.9	32
62	Imaging-Based Simulations for Predicting Sudden Death and Guiding Ventricular Tachycardia Ablation. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2017 , 10,	6.4	32
61	Left Ventricular Scar and Prognosis in Chronic Chagas Cardiomyopathy. <i>Journal of the American College of Cardiology</i> , 2018 , 72, 2567-2576	15.1	29
60	Myocardial Infarct Segmentation From Magnetic Resonance Images for Personalized Modeling of Cardiac Electrophysiology. <i>IEEE Transactions on Medical Imaging</i> , 2016 , 35, 1408-1419	11.7	28
59	Cardiovascular Magnetic Resonance to Predict Appropriate Implantable Cardioverter Defibrillator Therapy in Ischemic and Nonischemic Cardiomyopathy Patients Using Late Gadolinium Enhancement Border Zone: Comparison of Four Analysis Methods. <i>Circulation: Cardiovascular Imaging</i> , 2017 , 10,	3.9	28
58	Comparison of the relation between left ventricular anatomy and QRS duration in patients with cardiomyopathy with versus without left bundle branch block. <i>American Journal of Cardiology</i> , 2014 , 113, 1717-22	3	25
57	Image-based left ventricular shape analysis for sudden cardiac death risk stratification. <i>Heart Rhythm</i> , 2014 , 11, 1693-700	6.7	23
56	Screening entire health system ECG databases to identify patients at increased risk of death. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2013 , 6, 1156-62	6.4	23
55	Quantifying the uncertainty in model parameters using Gaussian process-based Markov chain Monte Carlo in cardiac electrophysiology. <i>Medical Image Analysis</i> , 2018 , 48, 43-57	15.4	23
54	Left ventricular mechanical dyssynchrony by cardiac magnetic resonance is greater in patients with strict vs nonstrict electrocardiogram criteria for left bundle-branch block. <i>American Heart Journal</i> , 2013 , 165, 956-63	4.9	21
53	Predictors of electrocardiographic QT interval prolongation in men with HIV. <i>Heart</i> , 2019 , 105, 559-565	5.1	21
52	Cardiac MRI scar patterns differ by sex in an implantable cardioverter-defibrillator and cardiac resynchronization therapy cohort. <i>Heart Rhythm</i> , 2013 , 10, 659-65	6.7	19
51	Imaging microvascular obstruction and its clinical significance following acute myocardial infarction. <i>Heart Failure Reviews</i> , 2006 , 11, 305-12	5	19
50	Brief report: antisynthetase syndrome-associated myocarditis. <i>Journal of Cardiac Failure</i> , 2014 , 20, 939-45	3.3	18
49	Spatially Adaptive Multi-Scale Optimization for Local Parameter Estimation in Cardiac Electrophysiology. <i>IEEE Transactions on Medical Imaging</i> , 2017 , 36, 1966-1978	11.7	15
48	HIV Infection Is Associated With Variability in Ventricular Repolarization: The Multicenter AIDS Cohort Study (MACS). <i>Circulation</i> , 2020 , 141, 176-187	16.7	14
47	Localization of myocardial scar in patients with cardiomyopathy and left bundle branch block using electrocardiographic Selvester QRS scoring. <i>Journal of Electrocardiology</i> , 2013 , 46, 249-55	1.4	13

46	Response to Letter Regarding Article, Infarct Tissue Heterogeneity by Magnetic Resonance Imaging Identifies Enhanced Cardiac Arrhythmia Susceptibility in Patients With Left Ventricular Dysfunction. <i>Circulation</i> , 2007 , 116,	16.7	12
45	Substrate Spatial Complexity Analysis for the Prediction of Ventricular Arrhythmias in Patients With Ischemic Cardiomyopathy. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2020 , 13, e007975	6.4	11
44	Imaging myocardial scar and arrhythmic risk prediction--a role for the electrocardiogram?. <i>Journal of Electrocardiology</i> , 2009 , 42, 138.e1-8	1.4	11
43	Myocardial perfusion imaging by magnetic resonance imaging. <i>Current Cardiology Reports</i> , 2003 , 5, 63-8	4.2	11
42	Associations between scar characteristics by cardiac magnetic resonance and changes in left ventricular ejection fraction in primary prevention defibrillator recipients. <i>Heart Rhythm</i> , 2016 , 13, 1661-6	6.7	11
41	Screening for Cardiac Magnetic Resonance Scar Features by 12-Lead ECG, in Patients with Preserved Ejection Fraction. <i>Annals of Noninvasive Electrocardiology</i> , 2016 , 21, 49-59	1.5	10
40	Shape analysis of hypertrophic and hypertensive heart disease using MRI-based 3D surface models of left ventricular geometry. <i>Medical Image Analysis</i> , 2016 , 29, 12-23	15.4	9
39	Intravascular Stem Cell Bioreactor for Prevention of Adverse Remodeling After Myocardial Infarction. <i>Journal of the American Heart Association</i> , 2019 , 8, e012351	6	9
38	Impaired left atrial function predicts inappropriate shocks in primary prevention implantable cardioverter-defibrillator candidates. <i>Journal of Cardiovascular Electrophysiology</i> , 2017 , 28, 796-805	2.7	8
37	Variation on a theme: CMR as the "one-stop shop" for risk stratification after infarction?. <i>JACC: Cardiovascular Imaging</i> , 2009 , 2, 843-5	8.4	8
36	Myocardial infarct segmentation and reconstruction from 2D late-gadolinium enhanced magnetic resonance images. <i>Lecture Notes in Computer Science</i> , 2014 , 17, 554-61	0.9	8
35	Embedding high-dimensional Bayesian optimization via generative modeling: Parameter personalization of cardiac electrophysiological models. <i>Medical Image Analysis</i> , 2020 , 62, 101670	15.4	7
34	Microvascular obstruction after nonsurgical septal reduction for the treatment of hypertrophic cardiomyopathy. <i>Circulation</i> , 2001 , 104, 1868	16.7	7
33	Associations between QT interval subcomponents, HIV serostatus, and inflammation. <i>Annals of Noninvasive Electrocardiology</i> , 2020 , 25, e12705	1.5	7
32	Baseline and Dynamic Risk Predictors of Appropriate Implantable Cardioverter Defibrillator Therapy. <i>Journal of the American Heart Association</i> , 2020 , 9, e017002	6	7
31	Quantifying left atrial structure and function using single-plane tissue-tracking cardiac magnetic resonance. <i>Magnetic Resonance Imaging</i> , 2017 , 42, 130-138	3.3	6
30	MRI assessment of myocardial viability. <i>Seminars in Ultrasound, CT and MRI</i> , 2006 , 27, 11-9	1.7	6
29	Associations Between HIV Serostatus and Cardiac Structure and Function Evaluated by 2-Dimensional Echocardiography in the Multicenter AIDS Cohort Study. <i>Journal of the American Heart Association</i> , 2021 , 10, e019709	6	6

28	Improving Clinical Translation of Machine Learning Approaches Through Clinician-Tailored Visual Displays of Black Box Algorithms: Development and Validation. <i>JMIR Medical Informatics</i> , 2020 , 8, e15791	3.6	5
27	Prevalence and Clinical Correlates of Echo-Estimated Right and Left Heart Filling Pressures in Hospitalized Patients With Coronavirus Disease 2019 2020 , 2, e0227		4
26	Update on newer antihypertensive medicines and interventions. <i>Journal of Cardiovascular Pharmacology and Therapeutics</i> , 2010 , 15, 257-67	2.6	4
25	Left-ventricular shape analysis for predicting sudden cardiac death risk. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2012 , 2012, 4067-70	0.9	4
24	Left Atrial Function in Patients with Coronavirus Disease 2019 and Its Association with Incident Atrial Fibrillation/Flutter. <i>Journal of the American Society of Echocardiography</i> , 2021 , 34, 1106-1109	5.8	4
23	Arrhythmic sudden death survival prediction using deep learning analysis of scarring in the heart. 2022 , 1, 334-343		3
22	Presence of scar by late gadolinium enhancement is a strong predictor of events in Chagas Heart Disease. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2014 , 16,	6.9	2
21	MRI with late gadolinium enhancement as a predictor of ventricular arrhythmias. <i>Current Cardiovascular Imaging Reports</i> , 2009 , 2, 116-123	0.7	2
20	Anatomically informed deep learning on contrast-enhanced cardiac magnetic resonance imaging for scar segmentation and clinical feature extraction.. <i>Cardiovascular Digital Health Journal</i> , 2022 , 3, 2-13 ²		2
19	Fast Posterior Estimation of Cardiac Electrophysiological Model Parameters Bayesian Active Learning. <i>Frontiers in Physiology</i> , 2021 , 12, 740306	4.6	2
18	Human immunodeficiency viral infection and differences in interstitial ventricular fibrosis and left atrial size. <i>European Heart Journal Cardiovascular Imaging</i> , 2021 , 22, 888-895	4.1	2
17	Applications of Cardiac MR Imaging in Electrophysiology: Current Status and Future Needs. <i>Magnetic Resonance Imaging Clinics of North America</i> , 2019 , 27, 465-473	1.6	2
16	Role of Multimodality Imaging in the Assessment of Myocardial Infarction With Nonobstructive Coronary Arteries: Beyond Conventional Coronary Angiography.. <i>Journal of the American Heart Association</i> , 2021 , e022787	6	1
15	Perfusion Measurements of the Myocardium 2015 , 1279-1354		1
14	Testosterone use and shorter electrocardiographic QT interval duration in men living with and without HIV. <i>HIV Medicine</i> , 2021 , 22, 418-421	2.7	1
13	Utility of cardiac MRI in the diagnosis of hypertrophic cardiomyopathy. <i>Current Cardiology Reports</i> , 2006 , 8, 41	4.2	1
12	Association of HIV Serostatus and Inflammation With Ascending Aortic Size.. <i>Journal of the American Heart Association</i> , 2022 , e023997	6	1
11	Multimodality Imaging in Arrhythmogenic Right Ventricular Cardiomyopathy.. <i>Circulation: Cardiovascular Imaging</i> , 2022 , CIRCIMAGING121013725	3.9	0

10	Cine cardiac magnetic resonance to predict ventricular arrhythmia (CERTAINTY). <i>Scientific Reports</i> , 2021 , 11, 22683	4.9	o
9	Spatial dispersion analysis of LGE-CMR for prediction of ventricular arrhythmias in patients with cardiac sarcoidosis. <i>PACE - Pacing and Clinical Electrophysiology</i> , 2021 , 44, 2067	1.6	o
8	Ventricular ectopy and arrhythmia by HIV serostatus, viremia, and CD4+ cell count. <i>Aids</i> , 2021 , 35, 846-849	3.5	o
7	Association between human immunodeficiency virus serostatus and the prevalence of atrial fibrillation. <i>Medicine (United States)</i> , 2021 , 100, e26663	1.8	o
6	Multimodality Evaluation of Aortic Insufficiency and Aortitis in Rheumatologic Diseases.. <i>Frontiers in Cardiovascular Medicine</i> , 2022 , 9, 874242	5.4	o
5	Response by Jablonowski et al to Letter Regarding Article, "Cardiovascular Magnetic Resonance to Predict Appropriate Implantable Cardioverter Defibrillator Therapy in Ischemic and Nonischemic Cardiomyopathy Patients Using Late Gadolinium Enhancement Border Zone: Comparison of Four Analysis Methods". <i>Circulation: Cardiovascular Imaging</i> , 2018 , 11, e007999	3.9	
4	Perfusion Measurements of the Myocardium: Radionuclide Methods and Related Techniques 2014 , 1-89		
3	The Johns Hopkins Ciccarone Center's expanded 'ABC's approach to highlight 2020 updates in cardiovascular disease prevention. <i>American Journal of Preventive Cardiology</i> , 2021 , 6, 100181	1.9	
2	Right Atrial Epidermoid Cyst: An Unusual Mass Discovered in the Workup for Arrhythmia in Pregnancy.. <i>Case</i> , 2021 , 5, 408-411	0.5	
1	Assessment of non-ST-segment elevation acute coronary syndromes with cardiac MRI. <i>Current Cardiology Reports</i> , 2006 , 8, 42-3	4.2	