

Katherine C Wu

List of Publications by Year in descending order

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103
papers

6,187
citations

201385

27
h-index

69108

77
g-index

112
all docs

112
docs citations

112
times ranked

5901
citing authors

#	ARTICLE	IF	CITATIONS
1	Prognostic Significance of Microvascular Obstruction by Magnetic Resonance Imaging in Patients With Acute Myocardial Infarction. <i>Circulation</i> , 1998, 97, 765-772.	1.6	1,272
2	Infarct Tissue Heterogeneity by Magnetic Resonance Imaging Identifies Enhanced Cardiac Arrhythmia Susceptibility in Patients With Left Ventricular Dysfunction. <i>Circulation</i> , 2007, 115, 2006-2014.	1.6	790
3	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, 2414-2421.	1.2	535
4	Contrast-Enhanced Multidetector Computed Tomography Viability Imaging After Myocardial Infarction. <i>Circulation</i> , 2006, 113, 394-404.	1.6	379
5	Autologous Mesenchymal Stem Cells Produce Concordant Improvements in Regional Function, Tissue Perfusion, and Fibrotic Burden When Administered to Patients Undergoing Coronary Artery Bypass Grafting. <i>Circulation Research</i> , 2014, 114, 1302-1310.	2.0	305
6	Arrhythmia risk stratification of patients after myocardial infarction using personalized heart models. <i>Nature Communications</i> , 2016, 7, 11437.	5.8	302
7	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, 1756-1764.	1.2	300
8	Microvascular Obstruction and Left Ventricular Remodeling Early After Acute Myocardial Infarction. <i>Circulation</i> , 2000, 101, 2734-2741.	1.6	270
9	Cardiac Magnetic Resonance Assessment of Dyssynchrony and Myocardial Scar Predicts Function Class Improvement Following Cardiac Resynchronization Therapy. <i>JACC: Cardiovascular Imaging</i> , 2008, 1, 561-568.	2.3	200
10	Clinical risk prediction with random forests for survival, longitudinal, and multivariate (RF-SLAM) data analysis. <i>BMC Medical Research Methodology</i> , 2020, 20, 1.	1.4	161
11	CMR of microvascular obstruction and hemorrhage in myocardial infarction. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2012, 14, 72.	1.6	136
12	ECG Quantification of Myocardial Scar in Cardiomyopathy Patients With or Without Conduction Defects. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2008, 1, 327-336.	2.1	134
13	Noninvasive Imaging of Myocardial Viability. <i>Circulation Research</i> , 2003, 93, 1146-1158.	2.0	99
14	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, 178-186.	1.3	93
15	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.	5.8	93
16	Sudden Cardiac Death Substrate Imaged by Magnetic Resonance Imaging. <i>Circulation: Cardiovascular Imaging</i> , 2017, 10, .	1.3	59
17	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.	0.3	58
18	Imaging-Based Simulations for Predicting Sudden Death and Guiding Ventricular Tachycardia Ablation. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2017, 10, .	2.1	54

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19	Right, But Not Left, Bundle Branch Block Is Associated With Large Anteroseptal Scar. <i>Journal of the American College of Cardiology</i> , 2013, 62, 959-967.	1.2	46
20	Left Ventricular Scar and Prognosis in Chronic Chagas Cardiomyopathy. <i>Journal of the American College of Cardiology</i> , 2018, 72, 2567-2576.	1.2	46
21	Arrhythmic sudden death survival prediction using deep learning analysis of scarring in the heart. , 2022, 1, 334-343.		43
22	Myocardial Infarct Segmentation From Magnetic Resonance Images for Personalized Modeling of Cardiac Electrophysiology. <i>IEEE Transactions on Medical Imaging</i> , 2016, 35, 1408-1419.	5.4	41
23	Cardiovascular Magnetic Resonance to Predict Appropriate Implantable Cardioverter Defibrillator Therapy in Ischemic and Nonischemic Cardiomyopathy Patients Using Late Gadolinium Enhancement Border Zone. <i>Circulation: Cardiovascular Imaging</i> , 2017, 10, .	1.3	39
24	Substrate Spatial Complexity Analysis for the Prediction of Ventricular Arrhythmias in Patients With Ischemic Cardiomyopathy. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2020, 13, e007975.	2.1	33
25	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.	7.0	32
26	Image-based left ventricular shape analysis for sudden cardiac death risk stratification. <i>Heart Rhythm</i> , 2014, 11, 1693-1700.	0.3	31
27	Predictors of electrocardiographic QT interval prolongation in men with HIV. <i>Heart</i> , 2019, 105, 559-565.	1.2	31
28	Screening Entire Health System ECG Databases to Identify Patients at Increased Risk of Death. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2013, 6, 1156-1162.	2.1	29
29	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, 1717-1722.	0.7	29
30	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, 956-963.	1.2	28
31	Baseline and Dynamic Risk Predictors of Appropriate Implantable Cardioverter Defibrillator Therapy. <i>Journal of the American Heart Association</i> , 2020, 9, e017002.	1.6	25
32	Brief Report: Antisynthetase Syndromeâ€™Associated Myocarditis. <i>Journal of Cardiac Failure</i> , 2014, 20, 939-945.	0.7	24
33	Cardiac MRI scar patterns differ by sex in an implantable cardioverter-defibrillator and cardiac resynchronization therapy cohort. <i>Heart Rhythm</i> , 2013, 10, 659-665.	0.3	22
34	HIV Infection Is Associated With Variability in Ventricular Repolarization. <i>Circulation</i> , 2020, 141, 176-187.	1.6	22
35	Imaging microvascular obstruction and its clinical significance following acute myocardial infarction. <i>Heart Failure Reviews</i> , 2006, 11, 305-312.	1.7	20
36	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> , 2022, 11, e022787.	1.6	19

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37	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, 249-255.	0.4	17
38	Spatially Adaptive Multi-Scale Optimization for Local Parameter Estimation in Cardiac Electrophysiology. <i>IEEE Transactions on Medical Imaging</i> , 2017, 36, 1966-1978.	5.4	17
39	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.	1.3	17
40	Multimodality Imaging in Arrhythmogenic Right Ventricular Cardiomyopathy. <i>Circulation: Cardiovascular Imaging</i> , 2022, 15, CIRCIMAGING121013725.	1.3	17
41	Imaging myocardial scar and arrhythmic risk prediction—a role for the electrocardiogram?. <i>Journal of Electrocardiology</i> , 2009, 42, 138.e1-138.e8.	0.4	15
42	Powerlessness of a Number. <i>Circulation: Cardiovascular Imaging</i> , 2016, 9, .	1.3	15
43	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.	0.5	15
44	Screening for Cardiac Magnetic Resonance Scar Features by 12-Lead ECG, in Patients with Preserved Ejection Fraction. , 2016, 21, 49-59.		14
45	Embedding high-dimensional Bayesian optimization via generative modeling: Parameter personalization of cardiac electrophysiological models. <i>Medical Image Analysis</i> , 2020, 62, 101670.	7.0	14
46	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.	0.5	14
47	Myocardial perfusion imaging by magnetic resonance imaging. <i>Current Cardiology Reports</i> , 2003, 5, 63-68.	1.3	13
48	Associations between QT interval subcomponents, HIV serostatus, and inflammation. <i>Annals of Noninvasive Electrocardiology</i> , 2020, 25, e12705.	0.5	13
49	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.	1.6	13
50	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, .	1.6	12
51	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.	7.0	12
52	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, 1661-1666.	0.3	11
53	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.	1.2	11
54	Variation on a Theme. <i>JACC: Cardiovascular Imaging</i> , 2009, 2, 843-845.	2.3	10

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55	Impaired left atrial function predicts inappropriate shocks in primary prevention implantable cardioverter-defibrillator candidates. <i>Journal of Cardiovascular Electrophysiology</i> , 2017, 28, 796-805.	0.8	10
56	HIV and Global Cardiovascular Health. <i>Current Cardiology Reports</i> , 2022, 24, 1149-1157.	1.3	10
57	Microvascular Obstruction After Nonsurgical Septal Reduction for the Treatment of Hypertrophic Cardiomyopathy. <i>Circulation</i> , 2001, 104, 1868-1868.	1.6	9
58	Intravascular Stem Cell Bioreactor for Prevention of Adverse Remodeling After Myocardial Infarction. <i>Journal of the American Heart Association</i> , 2019, 8, e012351.	1.6	9
59	MRI Assessment of Myocardial Viability. <i>Seminars in Ultrasound, CT and MRI</i> , 2006, 27, 11-19.	0.7	8
60	Quantifying left atrial structure and function using single-plane tissue-tracking cardiac magnetic resonance. <i>Magnetic Resonance Imaging</i> , 2017, 42, 130-138.	1.0	8
61	Myocardial Infarct Segmentation and Reconstruction from 2D Late-Gadolinium Enhanced Magnetic Resonance Images. <i>Lecture Notes in Computer Science</i> , 2014, 17, 554-561.	1.0	8
62	CinE caRdiac magneTic resonAnce to predct veNTricular arrhYthmia (CERTAINTY). <i>Scientific Reports</i> , 2021, 11, 22683.	1.6	6
63	Fast Posterior Estimation of Cardiac Electrophysiological Model Parameters via Bayesian Active Learning. <i>Frontiers in Physiology</i> , 2021, 12, 740306.	1.3	5
64	Review: Update on Newer Antihypertensive Medicines and Interventions. <i>Journal of Cardiovascular Pharmacology and Therapeutics</i> , 2010, 15, 257-267.	1.0	4
65	Left-ventricular shape analysis for predicting sudden cardiac death risk. , 2012, 2012, 4067-70.		4
66	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, P343.	1.6	4
67	Prevalence and Clinical Correlates of Echo-Estimated Right and Left Heart Filling Pressures in Hospitalized Patients With Coronavirus Disease 2019. , 2020, 2, e0227.		4
68	Association between human immunodeficiency virus serostatus and the prevalence of atrial fibrillation. <i>Medicine (United States)</i> , 2021, 100, e26663.	0.4	4
69	Association of left ventricular tissue heterogeneity and intramyocardial fat on computed tomography with ventricular arrhythmias in ischemic cardiomyopathy. <i>Heart Rhythm O2</i> , 2022, 3, 241-247.	0.6	4
70	Applications of Cardiac MR Imaging in Electrophysiology. <i>Magnetic Resonance Imaging Clinics of North America</i> , 2019, 27, 465-473.	0.6	3
71	Multimodality Evaluation of Aortic Insufficiency and Aortitis in Rheumatologic Diseases. <i>Frontiers in Cardiovascular Medicine</i> , 2022, 9, 874242.	1.1	3
72	Myocardial ATP depletion detected noninvasively predicts sudden cardiac death risk in patients with heart failure. <i>JCI Insight</i> , 2022, 7, .	2.3	3

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73	MRI with late gadolinium enhancement as a predictor of ventricular arrhythmias. <i>Current Cardiovascular Imaging Reports</i> , 2009, 2, 116-123.	0.4	2
74	Ventricular ectopy and arrhythmia by HIV serostatus, viremia, and CD4+ cell count. <i>Aids</i> , 2021, 35, 846-849.	1.0	2
75	Spatial dispersion analysis of LGEâ€œCMR for prediction of ventricular arrhythmias in patients with cardiac sarcoidosis. <i>PACE - Pacing and Clinical Electrophysiology</i> , 2021, 44, 2067-2074.	0.5	2
76	More Than Meets the Eye. <i>JACC: Cardiovascular Imaging</i> , 2022, 15, 793-795.	2.3	2
77	Association of HIV Serostatus and Inflammation With Ascending Aortic Size. <i>Journal of the American Heart Association</i> , 2022, 11, e023997.	1.6	2
78	Effect of HIV Serostatus on ICU Admission and Mortality Among Hospitalized Patients With Coronavirus Disease 2019 (COVID-19). <i>Journal of Acquired Immune Deficiency Syndromes (1999)</i> , 2022, 90, e13-e16.	0.9	2
79	Left ventricular mechanical dyssynchrony by cardiac magnetic resonance is greater in patients with strict vs. conventional ECG criteria for left bundle branch block. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2013, 15, P152.	1.6	1
80	Bringing Order to Disorder. <i>JACC: Cardiovascular Imaging</i> , 2019, 12, 1185-1187.	2.3	1
81	A CLURE for What Ails in Cardiacâ€œResynchronization Therapy. <i>JACC: Cardiovascular Imaging</i> , 2020, 13, 937-939.	2.3	1
82	Testosterone use and shorter electrocardiographic QT interval duration in men living with and without HIV. <i>HIV Medicine</i> , 2021, 22, 418-421.	1.0	1
83	Perfusion Measurements of the Myocardium. , 2015, , 1279-1354.		1
84	Abstract 18343: Antisynthetase Syndrome-Associated Myocarditis. <i>Circulation</i> , 2014, 130, .	1.6	1
85	HIV and Ventricular Arrhythmia Susceptibility: Insights from Cardiac Patch Monitoring. <i>Journal of Clinical Case Reports</i> , 2017, 7, .	0.0	1
86	Utility of cardiac MRI in the diagnosis of hypertrophic cardiomyopathy. <i>Current Cardiology Reports</i> , 2006, 8, 41.	1.3	1
87	Response to Letter Regarding Article, â€œCombined Cardiac Magnetic Resonance Imaging and C-Reactive Protein Levels Identify a Cohort at Low Risk for Defibrillator Firings and Deathâ€œ. <i>Circulation: Cardiovascular Imaging</i> , 2012, 5, .	1.3	0
88	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, P61.	1.6	0
89	Response by Jablonowski et al to Letter Regarding Article, â€œCardiovascular 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 Methodsâ€œ. <i>Circulation: Cardiovascular Imaging</i> , 2018, 11, e007333.	1.3	0
90	The Johns Hopkins Ciccarone Center's expanded â€œABC's approach to highlight 2020 updates in cardiovascular disease prevention. <i>American Journal of Preventive Cardiology</i> , 2021, 6, 100181.	1.3	0

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91	B-PO05-171 ASSOCIATION OF LEFT VENTRICULAR TISSUE HETEROGENEITY ON COMPUTED TOMOGRAPHY WITH VENTRICULAR ARRHYTHMIAS IN ISCHEMIC CARDIOMYOPATHY PATIENTS. Heart Rhythm, 2021, 18, S441-S442.	0.3	0
92	B-PO02-177 INCREASED SUBSTRATE HETEROGENEITY ASSESSED BY LGE-CMR IS ASSOCIATED WITH VENTRICULAR ARRHYTHMIAS AND MORTALITY IN PATIENTS WITH CARDIAC SARCOIDOSIS. Heart Rhythm, 2021, 18, S170.	0.3	0
93	B-PO05-174 CORE SCAR BURDEN ON CARDIAC MAGNETIC RESONANCE IMAGING IS ASSOCIATED WITH CLUSTERED VENTRICULAR ARRHYTHMIA AND LONGER CYCLE LENGTH IN NONISCHEMIC CARDIOMYOPATHY. Heart Rhythm, 2021, 18, S443.	0.3	0
94	Right Atrial Epidermoid Cyst: An Unusual Mass Discovered in the Workup for Arrhythmia in Pregnancy. Case, 2021, 5, 408-411.	0.1	0
95	Spatial Dispersion Analysis of LGE-CMR for Prediction of Ventricular Arrhythmias in Patients with Cardiac Sarcoidosis. SSRN Electronic Journal, 0, , .	0.4	0
96	Perfusion Measurements of the Myocardium: Radionuclide Methods and Related Techniques. , 2014, , 1-89.		0
97	Abstract 16017: Anatomically-Guided Deep Learning (DL) Approach to Late Gadolinium Enhanced (LGE)-CMR Left Ventricle (LV) Segmentation Enables Efficient and Accurate Clinical Analyses. Circulation, 2020, 142, .	1.6	0
98	Abstract 16148: Serum Gdf-15 Identifies Patients at Risk for Acute Heart Failure but Not Ventricular Arrhythmias and Sudden Death. Circulation, 2020, 142, .	1.6	0
99	Abstract 15681: Reduced Left Atrial Strain is Associated With the Development of Atrial Arrhythmias in Hospitalized Patients With COVID-19. Circulation, 2020, 142, .	1.6	0
100	Assessment of non-st-segment elevation acute coronary syndromes with cardiac MRI. Current Cardiology Reports, 2006, 8, 42-3.	1.3	0
101	ASSOCIATIONS BETWEEN HIGH SENSITIVITY TROPONIN LEVELS, HIV SEROSTATUS AND CARDIAC MRI MEASURES. Journal of the American College of Cardiology, 2022, 79, 1630.	1.2	0
102	CE-522-03 LONGITUDINAL PREDICTION OF VENTRICULAR ARRHYTHMIAS IN PATIENTS WITH ARRHYTHMOGENIC RIGHT VENTRICULAR CARDIOMYOPATHY. Heart Rhythm, 2022, 19, S27-S28.	0.3	0
103	DH-575-04 ARRHYTHMIC SUDDEN DEATH (SCDA) SURVIVAL PREDICTION USING DEEP LEARNING (DL) ANALYSIS OF CONTRAST-ENHANCED CARDIAC MAGNETIC RESONANCE IMAGING (LGE-CMR). Heart Rhythm, 2022, 19, S22.	0.3	0