Nay Aung

List of Publications by Year
in descending order

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Version: 2024-02-01

66 papers	2,577 citations	304368 22 h-index	214527 47 g-index
70 all docs	70 docs citations	70 times ranked	4005 citing authors

#	Article	IF	Citations
1	Automated cardiovascular magnetic resonance image analysis with fully convolutional networks. Journal of Cardiovascular Magnetic Resonance, 2018, 20, 65.	1.6	468
2	Reference ranges for cardiac structure and function using cardiovascular magnetic resonance (CMR) in Caucasians from the UK Biobank population cohort. Journal of Cardiovascular Magnetic Resonance, 2017, 19, 18.	1.6	391
3	Genome-Wide Analysis of Left Ventricular Image-Derived Phenotypes Identifies Fourteen Loci Associated With Cardiac Morphogenesis and Heart Failure Development. Circulation, 2019, 140, 1318-1330.	1.6	138
4	The Prognostic Significance of Quantitative Myocardial Perfusion: An Artificial Intelligence Based Approach Using Perfusion Mapping. Circulation, 2020, 141, 1282-1291.	1.6	100
5	Key Questions Relating to Left Ventricular Noncompaction Cardiomyopathy: Is the Emperor Still Wearing Any Clothes?. Canadian Journal of Cardiology, 2017, 33, 747-757.	0.8	99
6	A population-based phenome-wide association study of cardiac and aortic structure and function. Nature Medicine, 2020, 26, 1654-1662.	15.2	98
7	Automated quality control in image segmentation: application to the UK Biobank cardiovascular magnetic resonance imaging study. Journal of Cardiovascular Magnetic Resonance, 2019, 21, 18.	1.6	78
8	Improving the Generalizability of Convolutional Neural Network-Based Segmentation on CMR Images. Frontiers in Cardiovascular Medicine, 2020, 7, 105.	1.1	74
9	Expansion of the red cell distribution width and evolving iron deficiency as predictors of poor outcome in chronic heart failure. International Journal of Cardiology, 2013, 168, 1997-2002.	0.8	72
10	Association Between Ambient Air Pollution and Cardiac Morpho-Functional Phenotypes. Circulation, 2018, 138, 2175-2186.	1.6	70
11	The impact of cardiovascular risk factors on cardiac structure and function: Insights from the UK Biobank imaging enhancement study. PLoS ONE, 2017, 12, e0185114.	1.1	52
12	Right ventricular shape and function: cardiovascular magnetic resonance reference morphology and biventricular risk factor morphometrics in UK Biobank. Journal of Cardiovascular Magnetic Resonance, 2019, 21, 41.	1.6	47
13	Fully-automated left ventricular mass and volume MRI analysis in the UK Biobank population cohort: evaluation of initial results. International Journal of Cardiovascular Imaging, 2018, 34, 281-291.	0.7	46
14	Changes in Cardiac Morphology and Function in Individuals With Diabetes Mellitus. Circulation: Cardiovascular Imaging, 2019, 12, e009476.	1.3	43
15	Independent Left Ventricular Morphometric Atlases Show Consistent Relationships with Cardiovascular Risk Factors: A UK Biobank Study. Scientific Reports, 2019, 9, 1130.	1.6	43
16	Quantitative CMR population imaging on 20,000 subjects of the UK Biobank imaging study: LV/RV quantification pipeline and its evaluation. Medical Image Analysis, 2019, 56, 26-42.	7.0	41
17	Progressive rise in red cell distribution width is associated with poor outcome after transcatheter aortic valve implantation. Heart, 2013, 99, 1261-1266.	1.2	37
18	Prospective association between handgrip strength and cardiac structure and function in UK adults. PLoS ONE, 2018, 13, e0193124.	1.1	37

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19	Athleteâ€™s Heart: Diagnostic Challenges and Future Perspectives. Sports Medicine, 2018, 48, 2463-2477.	3.1	31
20	Fully Automated Myocardial Strain Estimation from Cardiovascular MRIâ€“tagged Images Using a Deep Learning Framework in the UK Biobank. Radiology: Cardiothoracic Imaging, 2020, 2, e190032.	0.9	29
21	Genome-wide association study identifies loci for arterial stiffness index in 127,121 UK Biobank participants. Scientific Reports, 2019, 9, 9143.	1.6	28
22	Automated localization and quality control of the aorta in cine CMR can significantly accelerate processing of the UK Biobank population data. PLoS ONE, 2019, 14, e0212272.	1.1	26
23	The Effect of Blood Lipids on the LeftÂVentricle. Journal of the American College of Cardiology, 2020, 76, 2477-2488.	1.2	26
24	Frequency, Penetrance, and Variable Expressivity of Dilated Cardiomyopathyâ€“Associated Putative Pathogenic Gene Variants in UK Biobank Participants. Circulation, 2022, 146, 110-124.	1.6	25
25	Left atrial structure and function are associated with cardiovascular outcomes independent of left ventricular measures: a UK Biobank CMR study. European Heart Journal Cardiovascular Imaging, 2022, 23, 1191-1200.	0.5	24
26	Real-Time Prediction of Segmentation Quality. Lecture Notes in Computer Science, 2018, , 578-585.	1.0	23
27	Proteomic Profiling for Cardiovascular Biomarker Discovery in Orthostatic Hypotension. Hypertension, 2018, 71, 465-472.	1.3	21
28	Physical activity and left ventricular trabeculation in the UK Biobank community-based cohort study. Heart, 2019, 105, 990-998.	1.2	21
29	Cardiovascular magnetic resonance reference values of mitral and tricuspid annular dimensions: the UK Biobank cohort. Journal of Cardiovascular Magnetic Resonance, 2021, 23, 5.	1.6	21
30	Serum albumin changes and multivariate dynamic risk modelling in chronic heart failure. International Journal of Cardiology, 2014, 176, 437-443.	0.8	20
31	Light to moderate coffee consumption is associated with lower risk of death: a UK Biobank study. European Journal of Preventive Cardiology, 2022, 29, 982-991.	0.8	20
32	The impact of menopausal hormone therapy (MHT) on cardiac structure and function: Insights from the UK Biobank imaging enhancement study. PLoS ONE, 2018, 13, e0194015.	1.1	19
33	Genome-wide association analysis reveals insights into the genetic architecture of right ventricular structure and function. Nature Genetics, 2022, 54, 783-791.	9.4	19
34	Inflammatory biomarker profiling in classical orthostatic hypotension: Insights from the SYSTEMA cohort. International Journal of Cardiology, 2018, 259, 192-197.	0.8	18
35	Community delivery of semiautomated fractal analysis tool in cardiac mr for trabecular phenotyping. Journal of Magnetic Resonance Imaging, 2017, 46, 1082-1088.	1.9	15
36	Variation in left ventricular cardiac magnetic resonance normal reference ranges: systematic review and meta-analysis. European Heart Journal Cardiovascular Imaging, 2021, 22, 494-504.	0.5	15

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37	Recent Trends and Potential Drivers of Non-invasive Cardiovascular Imaging Use in the United States of America and England. Frontiers in Cardiovascular Medicine, 2020, 7, 617771.	1.1	15
38	Quality Control-Driven Image Segmentation Towards Reliable Automatic Image Analysis in Large-Scale Cardiovascular Magnetic Resonance Aortic Cine Imaging. Lecture Notes in Computer Science, 2019, , 750-758.	1.0	15
39	Pulmonary blood volume index as a quantitative biomarker of haemodynamic congestion in hypertrophic cardiomyopathy. European Heart Journal Cardiovascular Imaging, 2019, 20, 1368-1376.	0.5	14
40	Cardiovascular Predictive Value and Genetic Basis of Ventricular Repolarization Dynamics. Circulation: Arrhythmia and Electrophysiology, 2019, 12, e007549.	2.1	13
41	Women With Diabetes Are at Increased Relative Risk of Heart Failure Compared to Men: Insights From UK Biobank. Frontiers in Cardiovascular Medicine, 2021, 8, 658726.	1.1	13
42	Associations of cognitive performance with cardiovascular magnetic resonance phenotypes in the UK Biobank. European Heart Journal Cardiovascular Imaging, 2022, 23, 663-672.	0.5	12
43	New Imaging Signatures of Cardiac Alterations in Ischaemic Heart Disease and Cerebrovascular Disease Using CMR Radiomics. Frontiers in Cardiovascular Medicine, 2021, 8, 716577.	1.1	12
44	Left Ventricular Noncompaction, or Is It? â^—. Journal of the American College of Cardiology, 2016, 68, 2182-2184.	1.2	11
45	Poor Bone Quality is Associated With Greater Arterial Stiffness: Insights From the UK Biobank. Journal of Bone and Mineral Research, 2020, 36, 90-99.	3.1	11
46	Genome-wide association study of cardiac troponin I in the general population. Human Molecular Genetics, 2021, 30, 2027-2039.	1.4	11
47	Towards the Semantic Enrichment of Free-Text Annotation of Image Quality Assessment for UK Biobank Cardiac Cine MRI Scans. Lecture Notes in Computer Science, 2016, , 238-248.	1.0	11
48	LV Noncompaction Cardiomyopathy orÂJust a Lot of Trabeculations?. JACC: Cardiovascular Imaging, 2017, 10, 704-707.	2.3	10
49	The Role of Multimodality Cardiovascular Imaging in Peripartum Cardiomyopathy. Frontiers in Cardiovascular Medicine, 2020, 7, 4.	1.1	10
50	Cardiac Magnetic Resonance Radiomics Reveal Differential Impact of Sex, Age, and Vascular Risk Factors on Cardiac Structure and Myocardial Tissue. Frontiers in Cardiovascular Medicine, 2021, 8, 763361.	1.1	10
51	Proteomic analysis reveals sex-specific biomarker signature in postural orthostatic tachycardia syndrome. BMC Cardiovascular Disorders, 2020, 20, 190.	0.7	8
52	Prevalence of Hypertrophic Cardiomyopathy in the UK Biobank Population. JAMA Cardiology, 2021, 6, 852.	3.0	8
53	Proconvertase Furin Is Downregulated in Postural Orthostatic Tachycardia Syndrome. Frontiers in Neuroscience, 2019, 13, 301.	1.4	7
54	Associations of Meat and Fish Consumption With Conventional and Radiomics Cardiovascular Magnetic Resonance Phenotypes in the UK Biobank. Frontiers in Cardiovascular Medicine, 2021, 8, 667849.	1.1	7

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55	Automatic 3D+t four-chamber CMR quantification of the UK biobank: integrating imaging and non-imaging data priors at scale. Medical Image Analysis, 2022, 80, 102498.	7.0	7
56	Variation in lung function and alterations in cardiac structure and functionâ€"Analysis of the UK Biobank cardiovascular magnetic resonance imaging substudy. PLoS ONE, 2018, 13, e0194434.	1.1	6
57	Sex-specific associations between alcohol consumption, cardiac morphology, and function as assessed by magnetic resonance imaging: insights form the UK Biobank Population Study. European Heart Journal Cardiovascular Imaging, 2021, 22, 1009-1016.	0.5	4
58	Does self-reported pregnancy loss identify women at risk of an adverse cardiovascular phenotype in later life? Insights from UK Biobank. PLoS ONE, 2019, 14, e0223125.	1.1	3
59	Tissue-tracking in the assessment of late gadolinium enhancement in myocarditis and myocardial infarction. Magnetic Resonance Imaging, 2020, 73, 62-69.	1.0	3
60	Subclinical Changes in Cardiac Functional Parameters as Determined by Cardiovascular Magnetic Resonance (CMR) Imaging in Sleep Apnea and Snoring: Findings from UK Biobank. Medicina (Lithuania), 2021, 57, 555.	0.8	3
61	Biobanks and Artificial Intelligence. Contemporary Medical Imaging, 2022, , 81-93.	0.3	2
62	End-Diastolic and End-Systolic LV Morphology in the Presence of Cardiovascular Risk Factors: A UK Biobank Study. Lecture Notes in Computer Science, 2019, , 304-312.	1.0	1
63	A Systematic Quality Scoring Analysis to Assess Automated Cardiovascular Magnetic Resonance Segmentation Algorithms. Frontiers in Cardiovascular Medicine, 2021, 8, 816985.	1.1	1
64	Corrigendum to: Left atrial structure and function are associated with cardiovascular outcomes independent of left ventricular measures: a UK Biobank CMR study. European Heart Journal Cardiovascular Imaging, 0, , .	0.5	1
65	Response by Aung and Petersen to Letter Regarding Article, â€œAssociation Between Ambient Air Pollution and Cardiac Morpho-Functional Phenotypes: Insights From the UK Biobank Population Imaging Studyâ€• Circulation, 2019, 139, 1859-1860.	1.6	0
66	Authorsâ€™ Reply to Kindermann et al.â€™s Comment on: â€œAthleteâ€™s Heart: Diagnostic Challenges and Future Perspectivesâ€• Sports Medicine, 2019, 49, 495-496.	3.1	0