Steffen E Petersen

List of Publications by Year
in descending order

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376 papers	49,402 citations	10979 71 h-index	1934 207 g-index
403 all docs	403 docs citations	403 times ranked	37814 citing authors

#	Article	IF	Citations
1	2020 ESC Guidelines for the diagnosis and management of atrial fibrillation developed in collaboration with the European Association for Cardio-Thoracic Surgery (EACTS). European Heart Journal, 2021, 42, 373-498.	1.0	5,583
2	2021 ESC Guidelines for the diagnosis and treatment of acute and chronic heart failure. European Heart Journal, 2021, 42, 3599-3726.	1.0	5,558
3	2019 ESC/EAS Guidelines for the management of dyslipidaemias: lipid modification to reduce cardiovascular risk. European Heart Journal, 2020, 41, 111-188.	1.0	4,871
4	2019 ESC Guidelines for the diagnosis and management of chronic coronary syndromes. European Heart Journal, 2020, 41, 407-477.	1.0	4,210
5	2019 ESC Guidelines on diabetes, pre-diabetes, and cardiovascular diseases developed in collaboration with the EASD. European Heart Journal, 2020, 41, 255-323.	1.0	2,811
6	2021 ESC Guidelines on cardiovascular disease prevention in clinical practice. European Heart Journal, 2021, 42, 3227-3337.	1.0	2,517
7	2019 ESC/EAS guidelines for the management of dyslipidaemias: Lipid modification to reduce cardiovascular risk. Atherosclerosis, 2019, 290, 140-205.	0.4	1,753
8	Left Ventricular Non-Compaction. Journal of the American College of Cardiology, 2005, 46, 101-105.	1.2	1,075
9	2020 ESC Guidelines for the management of adult congenital heart disease. European Heart Journal, 2021, 42, 563-645.	1.0	971
10	Deep Learning Techniques for Automatic MRI Cardiac Multi-Structures Segmentation and Diagnosis: Is the Problem Solved?. IEEE Transactions on Medical Imaging, 2018, 37, 2514-2525.	5.4	926
11	2020 ESC Guidelines on sports cardiology and exercise in patients with cardiovascular disease. European Heart Journal, 2021, 42, 17-96.	1.0	830
12	2021 ESC Guidelines for the diagnosis and treatment of acute and chronic heart failure. European Journal of Heart Failure, 2022, 24, 4-131.	2.9	820
13	European Society of Cardiology: Cardiovascular Disease Statistics 2019. European Heart Journal, 2020, 41, 12-85.	1.0	690
14	2019 ESC Guidelines for the management of patients with supraventricular tachycardiaThe Task Force for the management of patients with supraventricular tachycardia of the European Society of Cardiology (ESC). European Heart Journal, 2020, 41, 655-720.	1.0	647
15	Normal Human Left and Right Ventricular and Left Atrial Dimensions Using Steady State Free Precession Magnetic Resonance Imaging. Journal of Cardiovascular Magnetic Resonance, 2005, 7, 775-782.	1.6	527
16	Automated cardiovascular magnetic resonance image analysis with fully convolutional networks. Journal of Cardiovascular Magnetic Resonance, 2018, 20, 65.	1.6	468
17	STARD 2015: An Updated List of Essential Items for Reporting Diagnostic Accuracy Studies. Clinical Chemistry, 2015, 61, 1446-1452.	1.5	449
18	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

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19	Troponin Elevation After Percutaneous Coronary Intervention Directly Represents the Extent of Irreversible Myocardial Injury. Circulation, 2005, 111, 1027-1032.	1.6	367
20	European Society of Cardiology: cardiovascular disease statistics 2021. European Heart Journal, 2022, 43, 716-799.	1.0	343
21	The UK Biobank imaging enhancement of 100,000 participants:â€‰rationale, data collection, management and future directions. Nature Communications, 2020, 11, 2624.	5.8	324
22	Evidence for Microvascular Dysfunction in Hypertrophic Cardiomyopathy. Circulation, 2007, 115, 2418-2425.	1.6	315
23	Value of Delayed-Enhancement Cardiovascular Magnetic Resonance Imaging in Predicting Myocardial Viability After Surgical Revascularization. Circulation, 2004, 110, 1535-1541.	1.6	314
24	Prior SARS-CoV-2 infection rescues B and T cell responses to variants after first vaccine dose. Science, 2021, 372, 1418-1423.	6.0	286
25	Pre-existing polymerase-specific T cells expand in abortive seronegative SARS-CoV-2. Nature, 2022, 601, 110-117.	13.7	280
26	Greater risk of severe COVID-19 in Black, Asian and Minority Ethnic populations is not explained by cardiometabolic, socioeconomic or behavioural factors, or by 25(OH)-vitamin D status: study of 1326 cases from the UK Biobank. Journal of Public Health, 2020, 42, 451-460.	1.0	260
27	UK Biobank's cardiovascular magnetic resonance protocol. Journal of Cardiovascular Magnetic Resonance, 2016, 18, 8.	1.6	254
28	Global and regional left ventricular myocardial deformation measures by magnetic resonance feature tracking in healthy volunteers: comparison with tagging and relevance of gender. Journal of Cardiovascular Magnetic Resonance, 2013, 15, 8.	1.6	244
29	COVID-19 pandemic and cardiac imaging: EACVI recommendations on precautions, indications, prioritization, and protection for patients and healthcare personnel. European Heart Journal Cardiovascular Imaging, 2020, 21, 592-598.	0.5	237
30	Prediction model to estimate presence of coronary artery disease: retrospective pooled analysis of existing cohorts. BMJ, The, 2012, 344, e3485-e3485.	3.0	225
31	2021 ESC Guidelines on cardiovascular disease prevention in clinical practice. European Journal of Preventive Cardiology, 2022, 29, 5-115.	0.8	220
32	Role of multimodality cardiac imaging in the management of patients with hypertrophic cardiomyopathy: an expert consensus of the European Association of Cardiovascular Imaging Endorsed by the Saudi Heart Association. European Heart Journal Cardiovascular Imaging, 2015, 16, 280-280.	0.5	214
33	European cardiovascular magnetic resonance (EuroCMR) registry â€“ multi national results from 57 centers in 15 countries. Journal of Cardiovascular Magnetic Resonance, 2013, 15, 9.	1.6	208
34	The multi-modality cardiac imaging approach to the Athlete's heart: an expert consensus of the European Association of Cardiovascular Imaging. European Heart Journal Cardiovascular Imaging, 2015, 16, 353-353r.	0.5	199
35	A review of heart chamber segmentation for structural and functional analysis using cardiac magnetic resonance imaging. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2016, 29, 155-195.	1.1	190
36	Imaging in population science: cardiovascular magnetic resonance in 100,000 participants of UK Biobank - rationale, challenges and approaches. Journal of Cardiovascular Magnetic Resonance, 2013, 15, 46.	1.6	188

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37	Effects of Off-Pump Versus On-Pump Coronary Surgery on Reversible and Irreversible Myocardial Injury. Circulation, 2004, 109, 345-350.	1.6	184
38	Beneficial Cardiovascular Effects of Bariatric Surgical and Dietary Weight Loss in Obesity. Journal of the American College of Cardiology, 2009, 54, 718-726.	1.2	176
39	The Relationship of Left Ventricular Trabeculation to Ventricular Function and Structure Over a 9.5-Year Follow-Up. Journal of the American College of Cardiology, 2014, 64, 1971-1980.	1.2	176
40	The morphological spectrum of ventricular noncompaction. Cardiology in the Young, 2005, 15, 345-364.	0.4	168
41	Multi-Centre, Multi-Vendor and Multi-Disease Cardiac Segmentation: The M&Ms Challenge. IEEE Transactions on Medical Imaging, 2021, 40, 3543-3554.	5.4	168
42	Common genetic variants and modifiable risk factors underpin hypertrophic cardiomyopathy susceptibility and expressivity. Nature Genetics, 2021, 53, 135-142.	9.4	165
43	The science of clinical practice: disease diagnosis or patient prognosis? Evidence about â€œwhat is likely to happenâ€•should shape clinical practice. BMC Medicine, 2015, 13, 20.	2.3	163
44	Image-Based Cardiac Diagnosis With Machine Learning: A Review. Frontiers in Cardiovascular Medicine, 2020, 7, 1.	1.1	143
45	Resting Myocardial Blood Flow Is Impaired in Hibernating Myocardium. Circulation, 2005, 112, 3289-3296.	1.6	140
46	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
47	European Association of Cardiovascular Imaging expert consensus paper: a comprehensive review of cardiovascular magnetic resonance normal values of cardiac chamber size and aortic root in adults and recommendations for grading severity. European Heart Journal Cardiovascular Imaging, 2019, 20, 1321-1331.	0.5	122
48	Automated analysis of atrial late gadolinium enhancement imaging that correlates with endocardial voltage and clinical outcomes: A 2-center study. Heart Rhythm, 2013, 10, 1184-1191.	0.3	120
49	Global impairment of brachial, carotid, and aortic vascular function in young smokers. Journal of the American College of Cardiology, 2004, 44, 2056-2064.	1.2	119
50	Diagnostic performance of hyperaemic myocardial blood flow index obtained by dynamic computed tomography: does it predict functionally significant coronary lesions?. European Heart Journal Cardiovascular Imaging, 2014, 15, 85-94.	0.5	119
51	Acute myocarditis presenting as acute coronary syndrome: role of early cardiac magnetic resonance in its diagnosis. Heart, 2011, 97, 1312-1318.	1.2	117
52	Differentiation of Athlete's Heart from Pathological Forms of Cardiac Hypertrophy by Means of Geometric Indices Derived from Cardiovascular Magnetic Resonance. Journal of Cardiovascular Magnetic Resonance, 2005, 7, 551-558.	1.6	115
53	With the â€œUniversal Definition,â€•Measurement of Creatine Kinase-Myocardial Band Rather Than Troponin Allows More Accurate Diagnosis of Periprocedural Necrosis and Infarction After Coronary Intervention. Journal of the American College of Cardiology, 2011, 57, 653-661.	1.2	114
54	Lung Deflation and Cardiovascular Structure and Function in Chronic Obstructive Pulmonary Disease. A Randomized Controlled Trial. American Journal of Respiratory and Critical Care Medicine, 2016, 193, 717-726.	2.5	111

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55	Pericardial, But Not Hepatic, Fat by CT Is Associated With CV Outcomes andÂStructure. JACC: Cardiovascular Imaging, 2017, 10, 1016-1027.	2.3	111
56	Application of C1-Esterase Inhibitor During Reperfusion of Ischemic Myocardium. Circulation, 2001, 104, 3125-3131.	1.6	109
57	Society for Cardiovascular Magnetic Resonance (SCMR) expert consensus for CMR imaging endpoints in clinical research: part I - analytical validation and clinical qualification. Journal of Cardiovascular Magnetic Resonance, 2018, 20, 67.	1.6	101
58	The Prognostic Significance of Quantitative Myocardial Perfusion: An Artificial Intelligence Based Approach Using Perfusion Mapping. Circulation, 2020, 141, 1282-1291.	1.6	100
59	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
60	A population-based phenome-wide association study of cardiac and aortic structure and function. Nature Medicine, 2020, 26, 1654-1662.	15.2	98
61	Myocardial Tissue Phase Mapping with Cine Phase-Contrast MR Imaging: Regional Wall Motion Analysis in Healthy Volunteers. Radiology, 2006, 238, 816-826.	3.6	94
62	Determinants of left ventricular mass in obesity; a cardiovascular magnetic resonance study. Journal of Cardiovascular Magnetic Resonance, 2009, 11, 9.	1.6	93
63	Detailed analysis of myocardial motion in volunteers and patients using high-temporal-resolution MR tissue phase mapping. Journal of Magnetic Resonance Imaging, 2006, 24, 1033-1039.	1.9	92
64	Progression of myocardial fibrosis in hypertrophic cardiomyopathy: mechanisms and clinical implications. European Heart Journal Cardiovascular Imaging, 2019, 20, 157-167.	0.5	92
65	Multimodality Imaging in Restrictive Cardiomyopathies: An EACVI expert consensus document In collaboration with the â€œWorking Group on myocardial and pericardial diseasesâ€•of the European Society of Cardiology Endorsed by The Indian Academy of Echocardiography. European Heart Journal Cardiovascular Imaging, 2017, 18, 1090-1121.	0.5	91
66	Gender-specific differences in left ventricular remodelling in obesity: insights from cardiovascular magnetic resonance imaging. European Heart Journal, 2013, 34, 292-299.	1.0	85
67	Determination of cardiac volumes and mass with FLASH and SSFP cine sequences at 1.5 vs. 3 Tesla: A validation study. Journal of Magnetic Resonance Imaging, 2006, 24, 312-318.	1.9	81
68	Extracellular volume quantification in isolated hypertension - changes at the detectable limits?. Journal of Cardiovascular Magnetic Resonance, 2015, 17, 74.	1.6	79
69	Cardiovascular Magnetic Resonance for Patients With COVID-19. JACC: Cardiovascular Imaging, 2022, 15, 685-699.	2.3	79
70	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
71	Self-Supervised Learning for Cardiac MR Image Segmentation by Anatomical Position Prediction. Lecture Notes in Computer Science, 2019, , 541-549.	1.0	78
72	ACCF/ACR/AIUM/ASE/ASN/ICAVL/SCAI/SCCT/SIR/SVM/SVS 2012 Appropriate Use Criteria for Peripheral Vascular Ultrasound and Physiological Testing Part I: Arterial Ultrasound and Physiological Testing. Journal of the American College of Cardiology, 2012, 60, 242-276.	1.2	75

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73	Splenic Switch-off: A Tool to Assess Stress Adequacy in Adenosine Perfusion Cardiac MR Imaging. Radiology, 2015, 276, 732-740.	3.6	75
74	A Multicenter, Scan-Rescan, Human and Machine Learning CMR Study to Test Generalizability and Precision in Imaging Biomarker Analysis. Circulation: Cardiovascular Imaging, 2019, 12, e009214.	1.3	75
75	Inflammation does not decrease intraluminal pH in chronic inflammatory bowel disease. Digestive Diseases and Sciences, 1999, 44, 1434-1439.	1.1	74
76	Joint Learning of Motion Estimation and Segmentation for Cardiac MR Image Sequences. Lecture Notes in Computer Science, 2018, , 472-480.	1.0	74
77	Improving the Generalizability of Convolutional Neural Network-Based Segmentation on CMR Images. Frontiers in Cardiovascular Medicine, 2020, 7, 105.	1.1	74
78	Prognostic Significance of Left Ventricular Noncompaction. Circulation: Cardiovascular Imaging, 2020, 13, e009712.	1.3	74
79	Association Between Ambient Air Pollution and Cardiac Morpho-Functional Phenotypes. Circulation, 2018, 138, 2175-2186.	1.6	70
80	Thrombus Detection in the Left Atrial Appendage Using Contrast-Enhanced MRI: A Pilot Study. American Journal of Roentgenology, 2006, 186, 198-205.	1.0	69
81	The role of cardiovascular imaging for myocardial injury in hospitalized COVID-19 patients. European Heart Journal Cardiovascular Imaging, 2020, 21, 709-714.	0.5	69
82	The Optimal Imaging Strategy for Patients With Stable Chest Pain. Annals of Internal Medicine, 2015, 162, 474-484.	2.0	66
83	Chronic obstructive pulmonary disease: a modifiable risk factor for cardiovascular disease?. Heart, 2012, 98, 1055-1062.	1.2	65
84	Diagnostic Accuracy of Cardiac Magnetic Resonance Imaging in the Detection and Characterization of Left Atrial Catheter Ablation Lesions: A Multicenter Experience. Journal of Cardiovascular Electrophysiology, 2013, 24, 396-403.	0.8	65
85	2015 Update on Acute Adverse Reactions to Gadolinium based Contrast Agents in Cardiovascular MR. Large Multi-National and Multi-Ethnical Population Experience With 37788 Patients From the EuroCMR Registry. Journal of Cardiovascular Magnetic Resonance, 2015, 17, 58.	1.6	65
86	Cardiac magnetic resonance radiomics: basic principles and clinical perspectives. European Heart Journal Cardiovascular Imaging, 2020, 21, 349-356.	0.5	64
87	Diagnosis of Patent Foramen Ovale Using Contrast-Enhanced Dynamic MRI: A Pilot Study. American Journal of Roentgenology, 2005, 184, 234-240.	1.0	62
88	Ventricular hypertrophy and cavity dilatation in relation to body mass index in women with uncomplicated obesity. Heart, 2011, 97, 203-208.	1.2	61
89	Managing Superior Vena Cava Syndrome as a Complication of Pacemaker Implantation: A Pooled Analysis of Clinical Practice. PACE - Pacing and Clinical Electrophysiology, 2010, 33, 420-425.	0.5	58
90	Diagnosis and risk stratification in hypertrophic cardiomyopathy using machine learning wall thickness measurement: a comparison with human test-retest performance. The Lancet Digital Health, 2021, 3, e20-e28.	5.9	57

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91	Myocardial deformation assessment using cardiovascular magnetic resonance-feature tracking technique. British Journal of Radiology, 2017, 90, 20170072.	1.0	56
92	Causal Inference for Genetic Obesity, Cardiometabolic Profile and COVID-19 Susceptibility: A Mendelian Randomization Study. Frontiers in Genetics, 2020, 11, 586308.	1.1	56
93	Cardiovascular Risk Assessment. Annals of Internal Medicine, 2016, 165, 713.	2.0	55
94	Assessment of Left Atrial Volumes at 1.5 Tesla and 3 Tesla Using FLASH and SSFP Cine Imaging. Journal of Cardiovascular Magnetic Resonance, 2007, 9, 673-679.	1.6	54
95	Early changes in arterial structure and function following statin initiation: Quantification by magnetic resonance imaging. Atherosclerosis, 2008, 197, 951-958.	0.4	54
96	Visceral adiposity and left ventricular remodeling: The Multi-Ethnic Study of Atherosclerosis. Nutrition, Metabolism and Cardiovascular Diseases, 2015, 25, 667-676.	1.1	54
97	Quantitative Computed Tomographic Coronary Angiography. Circulation: Cardiovascular Imaging, 2014, 7, 43-51.	1.3	53
98	Left Atrial Structure in Relationship to Age, Sex, Ethnicity, and Cardiovascular Risk Factors. Circulation: Cardiovascular Imaging, 2017, 10, .	1.3	52
99	Blood transcriptional biomarkers of acute viral infection for detection of pre-symptomatic SARS-CoV-2 infection: a nested, case-control diagnostic accuracy study. Lancet Microbe, The, 2021, 2, e508-e517.	3.4	52
100	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
101	Fractal Analysis of Myocardial Trabeculations in 2547 Study Participants: Multi-Ethnic Study of Atherosclerosis. Radiology, 2015, 277, 707-715.	3.6	50
102	Acute exacerbation of COPD is associated with fourfold elevation of cardiac troponin T. Heart, 2013, 99, 122-126.	1.2	49
103	Right ventricular longitudinal strain in the clinical routine: a state-of-the-art review. European Heart Journal Cardiovascular Imaging, 2022, 23, 898-912.	0.5	49
104	Quantification of shunt volumes in congenital heart diseases using a breath-hold MR phase contrast technique--comparison with oximetry. International Journal of Cardiovascular Imaging, 2002, 18, 53-60.	0.2	48
105	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
106	Relationship of irreversible myocardial injury to troponin I and creatine kinase-MB elevation after coronary artery bypass surgery: Insights from cardiovascular magnetic resonance imaging. Journal of the American College of Cardiology, 2005, 45, 629-631.	1.2	46
107	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
108	Functional and Structural Vascular Remodeling in Elite Rowers Assessed by Cardiovascular Magnetic Resonance. Journal of the American College of Cardiology, 2006, 48, 790-797.	1.2	44

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109	Sex-specific characteristics of cardiac function, geometry, and mass in young adult elite athletes. Journal of Magnetic Resonance Imaging, 2006, 24, 297-303.	1.9	44
110	Diagnosis and Prognosis in Sudden Cardiac Arrest Survivors Without Coronary Artery Disease. Circulation: Cardiovascular Imaging, 2017, 10, e006709.	1.3	44
111	Artificial Intelligence Will Transform Cardiac Imagingâ€"Opportunities and Challenges. Frontiers in Cardiovascular Medicine, 2019, 6, 133.	1.1	44
112	Changes in Cardiac Morphology and Function in Individuals With Diabetes Mellitus. Circulation: Cardiovascular Imaging, 2019, 12, e009476.	1.3	43
113	Independent Left Ventricular Morphometric Atlases Show Consistent Relationships with Cardiovascular Risk Factors: A UK Biobank Study. Scientific Reports, 2019, 9, 1130.	1.6	43
114	Improving cardiac MRI convolutional neural network segmentation on small training datasets and dataset shift: A continuous kernel cut approach. Medical Image Analysis, 2020, 61, 101636.	7.0	42
115	Cost-minimization analysis of three decision strategies for cardiac revascularization: results of the â€œsuspected CADâ€•cohort of the european cardiovascular magnetic resonance registry. Journal of Cardiovascular Magnetic Resonance, 2016, 18, 3.	1.6	41
116	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
117	Late Gadolinium Enhancement CMR Predicts Adverse Cardiovascular Outcomes and Mortality in Patients With Coronary Artery Disease: Systematic Review and Meta-Analysis. Progress in Cardiovascular Diseases, 2011, 54, 215-229.	1.6	40
118	Lifestyle advice and interventions for cardiovascular risk reduction: A systematic review of guidelines. International Journal of Cardiology, 2018, 263, 142-151.	0.8	39
119	Prospective association between handgrip strength and cardiac structure and function in UK adults. PLoS ONE, 2018, 13, e0193124.	1.1	37
120	Influence of Contrast Agent Dose and Image Acquisition Timing on the Quantitative Determination of Nonviable Myocardial Tissue Using Delayed Contrast?Enhanced Magnetic Resonance Imaging. Journal of Cardiovascular Magnetic Resonance, 2004, 6, 541-548.	1.6	36
121	Shorter leukocyte telomere length is associated with adverse COVID-19 outcomes: A cohort study in UK Biobank. EBioMedicine, 2021, 70, 103485.	2.7	36
122	High-Resolution 3D Unenhanced ECG-Gated Respiratory-Navigated MR Angiography of the Renal Arteries: Comparison With Contrast-Enhanced MR Angiography. American Journal of Roentgenology, 2010, 195, 1423-1428.	1.0	33
123	Fractal frontiers in cardiovascular magnetic resonance: towards clinical implementation. Journal of Cardiovascular Magnetic Resonance, 2015, 17, 80.	1.6	33
124	Super-Resolution of Cardiac MR Cine Imaging using Conditional GANs and Unsupervised Transfer Learning. Medical Image Analysis, 2021, 71, 102037.	7.0	33
125	Cardiac Cine MR-Imaging at 3T: FLASH vs SSFP. Journal of Cardiovascular Magnetic Resonance, 2006, 8, 709-715.	1.6	32
126	ACCF/ACR/AIUM/ASE/ASN/ICAVL/SCAI/SCCT/SIR/SVM/SVS 2012 appropriate use criteria for peripheral vascular ultrasound and physiological testing part I: Arterial ultrasound and physiological testing. Journal of Vascular Surgery, 2012, 56, e17-e51.	0.6	32

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127	Radiomics Signatures of Cardiovascular Risk Factors in Cardiac MRI: Results From the UK Biobank. Frontiers in Cardiovascular Medicine, 2020, 7, 591368.	1.1	32
128	Cardiovascular magnetic resonance imaging in the UK Biobank: a major international health research resource. European Heart Journal Cardiovascular Imaging, 2021, 22, 251-258.	0.5	32
129	Fairness in Cardiac MR Image Analysis: An Investigation of Bias Due to Data Imbalance in Deep Learning Based Segmentation. Lecture Notes in Computer Science, 2021, , 413-423.	1.0	32
130	Use of Cardiac Magnetic Resonance and Echocardiography in Population-Based Studies. Circulation: Cardiovascular Imaging, 2013, 6, 590-596.	1.3	31
131	Athleteâ€™s Heart: Diagnostic Challenges and Future Perspectives. Sports Medicine, 2018, 48, 2463-2477.	3.1	31
132	Comparative cost-effectiveness analyses of cardiovascular magnetic resonance and coronary angiography combined with fractional flow reserve for the diagnosis of coronary artery disease. Journal of Cardiovascular Magnetic Resonance, 2014, 16, 13.	1.6	30
133	Automated Quality Assessment of Cardiac MR Images Using Convolutional Neural Networks. Lecture Notes in Computer Science, 2016, , 138-145.	1.0	30
134	Myocardial Injury following Coronary Artery Surgery versus Angioplasty (MICASA): a randomised trial using biochemical markers and cardiac magnetic resonance imaging. EuroIntervention, 2011, 6, 703-710.	1.4	30
135	Precision measurement of cardiac structure and function in cardiovascular magnetic resonance using machine learning. Journal of Cardiovascular Magnetic Resonance, 2022, 24, 16.	1.6	30
136	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
137	European Society of Cardiology: cardiovascular disease statistics 2021: Executive Summary. European Heart Journal Quality of Care & Clinical Outcomes, 2022, 8, 377-382.	1.8	29
138	Quantification of resting myocardial blood flow in a pig model of acute ischemia based on first-pass MRI. Magnetic Resonance in Medicine, 2005, 53, 1223-1227.	1.9	28
139	The global cardiovascular magnetic resonance registry (GCMR) of the society for cardiovascular magnetic resonance (SCMR): its goals, rationale, data infrastructure, and current developments. Journal of Cardiovascular Magnetic Resonance, 2016, 19, 23.	1.6	28
140	Genome-wide association study identifies loci for arterial stiffness index in 127,121 UK Biobank participants. Scientific Reports, 2019, 9, 9143.	1.6	28
141	Learning Shape Priors for Robust Cardiac MR Segmentation from Multi-view Images. Lecture Notes in Computer Science, 2019, , 523-531.	1.0	28
142	Associations between moderate alcohol consumption, brain iron, and cognition in UK Biobank participants: Observational and mendelian randomization analyses. PLoS Medicine, 2022, 19, e1004039.	3.9	28
143	Time-Resolved Contrast-Enhanced MR Angiography of the Thorax in Adults with Congenital Heart Disease. American Journal of Roentgenology, 2006, 187, 1107-1114.	1.0	27
144	Dynamic Contrast-Enhanced MRI Before and After Transcatheter Occlusion of Patent Foramen Ovale. American Journal of Roentgenology, 2007, 188, 844-849.	1.0	27

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145	High-resolution 3D non-contrast-enhanced, ECG-gated, multi-step MR angiography of the lower extremities: Comparison with contrast-enhanced MR angiography. European Radiology, 2011, 21, 434-442.	2.3	27
146	Protocol and quality assurance for carotid imaging in 100,000 participants of UK Biobank: development and assessment. European Journal of Preventive Cardiology, 2017, 24, 1799-1806.	0.8	27
147	Prediction of Coronary Revascularization in Stable Angina. JACC: Cardiovascular Imaging, 2020, 13, 994-1004.	2.3	27
148	The Promise of AI in Detection, Diagnosis, and Epidemiology for Combating COVID-19: Beyond the Hype. Frontiers in Artificial Intelligence, 2021, 4, 652669.	2.0	27
149	Comparative cost-effectiveness of non-invasive imaging tests in patients presenting with chronic stable chest pain with suspected coronary artery disease: a systematic review. European Heart Journal Quality of Care & Clinical Outcomes, 2016, 2, 245-260.	1.8	26
150	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
151	Mitral valve prolapse. Expert Review of Cardiovascular Therapy, 2019, 17, 43-51.	0.6	26
152	The Effect of Blood Lipids on the LeftÂVentricle. Journal of the American College of Cardiology, 2020, 76, 2477-2488.	1.2	26
153	Inline perfusion mapping provides insights into the disease mechanism in hypertrophic cardiomyopathy. Heart, 2020, 106, 824-829.	1.2	26
154	Vitamin D and coronavirus disease 2019 (COVID-19): rapid evidence review. Aging Clinical and Experimental Research, 2021, 33, 2031-2041.	1.4	26
155	Fairness in Cardiac Magnetic Resonance Imaging: Assessing Sex and Racial Bias in Deep Learning-Based Segmentation. Frontiers in Cardiovascular Medicine, 2022, 9, 859310.	1.1	26
156	Hypertrabeculated Left Ventricular Myocardium in Relationship to Myocardial Function and Fibrosis: The Multi-Ethnic Study of Atherosclerosis. Radiology, 2017, 284, 667-675.	3.6	25
157	A Radiomics Approach to Computer-Aided Diagnosis with Cardiac Cine-MRI. Lecture Notes in Computer Science, 2018, , 82-90.	1.0	25
158	CHA₂DS₂VASc score and adverse outcomes in middle-aged individuals without atrial fibrillation. European Journal of Preventive Cardiology, 2019, 26, 1987-1997.	0.8	25
159	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
160	Cardiovascular MRI in clinical trials: expanded applications through novel surrogate endpoints. Heart, 2011, 97, 1286-1292.	1.2	24
161	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
162	Contrast-enhanced CMR in patients after percutaneous closure of the left atrial appendage: A pilot study. Journal of Cardiovascular Magnetic Resonance, 2011, 13, 33.	1.6	23

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163	Calcium and Vitamin D Supplementation Are Not Associated With Risk of Incident Ischemic Cardiac Events or Death: Findings From the UK Biobank Cohort. Journal of Bone and Mineral Research, 2018, 33, 803-811.	3.1	23
164	Real-Time Prediction of Segmentation Quality. Lecture Notes in Computer Science, 2018, , 578-585.	1.0	23
165	EACVI appropriateness criteria for the use of cardiovascular imaging in heart failure derived from European National Imaging Societies voting. European Heart Journal Cardiovascular Imaging, 2016, 17, 711-721.	0.5	22
166	Age, sex and disease-specific associations between resting heart rate and cardiovascularÂmortality in the UK BIOBANK. PLoS ONE, 2020, 15, e0233898.	1.1	22
167	AlzEye: longitudinal record-level linkage of ophthalmic imaging and hospital admissions of 353â€‰157 patients in London, UK. BMJ Open, 2022, 12, e058552.	0.8	22
168	Update of the European Association of Cardiovascular Imaging (EACVI) Core Syllabus for the European Cardiovascular Magnetic Resonance Certification Exam. European Heart Journal Cardiovascular Imaging, 2014, 15, 728-729.	0.5	21
169	Linking left ventricular function and mural architecture: what does the clinician need to know?. Heart, 2014, 100, 1289-1298.	1.2	21
170	Evaluation of splenic switch off in a tertiary imaging centre: validation and assessment of utility. European Heart Journal Cardiovascular Imaging, 2017, 18, 1216-1221.	0.5	21
171	Physical activity and left ventricular trabeculation in the UK Biobank community-based cohort study. Heart, 2019, 105, 990-998.	1.2	21
172	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
173	Healthcare Workers Bioresource: Study outline and baseline characteristics of a prospective healthcare worker cohort to study immune protection and pathogenesis in COVID-19. Wellcome Open Research, 2020, 5, 179.	0.9	21
174	CMR and LV Noncompaction. JACC: Cardiovascular Imaging, 2013, 6, 941-943.	2.3	20
175	A mathematical model of the mechanical link between shortening of the cardiomyocytes and systolic deformation of the left ventricular myocardium. Technology and Health Care, 2013, 21, 63-79.	0.5	19
176	Automatic Assessment of Full Left Ventricular Coverage in Cardiac Cine Magnetic Resonance Imaging With Fisher-Discriminative 3-D CNN. IEEE Transactions on Biomedical Engineering, 2019, 66, 1975-1986.	2.5	19
177	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
178	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
179	Anteroseptal or Apical Myocardial Infarction: A Controversy Addressed Using Delayed Enhancement Cardiovascular Magnetic Resonance Imaging #. Journal of Cardiovascular Magnetic Resonance, 2004, 6, 653-661.	1.6	18
180	Obese Subjects Show Sex-Specific Differences in Right Ventricular Hypertrophy. Circulation: Cardiovascular Imaging, 2015, 8, .	1.3	18

#	Article	IF	Citations
181	Renin-Angiotensin-Aldosterone System Blockers Are Not Associated With Coronavirus Disease 2019 (COVID-19) Hospitalization: Study of 1,439 UK Biobank Cases. Frontiers in Cardiovascular Medicine, 2020, 7, 138.	1.1	18
182	Prognostic Value of Pulmonary Transit Time and Pulmonary Blood Volume Estimation Using Myocardial PerfusionÂCMR. JACC: Cardiovascular Imaging, 2021, 14, 2107-2119.	2.3	18
183	Maximal Wall Thickness Measurement in Hypertrophic Cardiomyopathy. JACC: Cardiovascular Imaging, 2021, 14, 2123-2134.	2.3	18
184	HLAâ€DR polymorphism in SARSâ€CoVâ€2 infection and susceptibility to symptomatic COVIDâ€19. Immunology, 2022, 166, 68-77.	2.0	18
185	Cardiovascular research highlights from the UK Biobank: opportunities and challenges. Cardiovascular Research, 2020, 116, e12-e15.	1.8	17
186	Repeatability of Cardiac Magnetic Resonance Radiomics: A Multi-Centre Multi-Vendor Test-Retest Study. Frontiers in Cardiovascular Medicine, 2020, 7, 586236.	1.1	17
187	Adverse cardiovascular magnetic resonance phenotypes are associated with greater likelihood of incident coronavirus disease 2019: findings from the UK Biobank. Aging Clinical and Experimental Research, 2021, 33, 1133-1144.	1.4	17
188	Medical image segmentation automatic quality control: A multi-dimensional approach. Medical Image Analysis, 2021, 74, 102213.	7.0	17
189	Shape registration with learned deformations for 3D shape reconstruction from sparse and incomplete point clouds. Medical Image Analysis, 2021, 74, 102228.	7.0	17
190	Combining Multi-Sequence and Synthetic Images for Improved Segmentation of Late Gadolinium Enhancement Cardiac MRI. Lecture Notes in Computer Science, 2020, , 290-299.	1.0	17
191	Concentric left ventricular remodeling and aortic stiffness: A comparison of obesity and hypertension. International Journal of Cardiology, 2013, 167, 2989-2994.	0.8	16
192	Cardiovascular magnetic resonance imaging for amyloidosis: The state-of-the-art. Trends in Cardiovascular Medicine, 2019, 29, 83-94.	2.3	16
193	Diagnostic value of routine clinical parameters in acute myocardial infarction: a comparison to delayed contrast enhanced magnetic resonance imaging. Delayed enhancement and routine clinical parameters after myocardial infarction. International Journal of Cardiovascular Imaging, 2003, 19, 409-416.	0.2	15
194	31P cardiac magnetic resonance spectroscopy during leg exercise at 3 Tesla. International Journal of Cardiovascular Imaging, 2009, 25, 819-826.	0.7	15
195	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
196	Ineffective and prolonged apical contraction is associated with chest pain and ischaemia in apical hypertrophic cardiomyopathy. International Journal of Cardiology, 2018, 251, 65-70.	0.8	15
197	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
198	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

#	Article	IF	Citations
199	Higher spatial resolution improves the interpretation of the extent of ventricular trabeculation. Journal of Anatomy, 2022, 240, 357-375.	0.9	15
200	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
201	Evidence-based cardiovascular magnetic resonance cost-effectiveness calculator for the detection of significant coronary artery disease. Journal of Cardiovascular Magnetic Resonance, 2022, 24, 1.	1.6	15
202	Cost-Minimization Analysis for Cardiac Revascularization in 12 Health Care Systems Based on the EuroCMR/SPINS Registries. JACC: Cardiovascular Imaging, 2022, 15, 607-625.	2.3	15
203	Myocardial tissue phase mapping reveals impaired myocardial tissue velocities in obesity. International Journal of Cardiovascular Imaging, 2015, 31, 339-347.	0.7	14
204	Multi-Input and Dataset-Invariant Adversarial Learning (MDAL) for Left and Right-Ventricular Coverage Estimation in Cardiac MRI. Lecture Notes in Computer Science, 2018, , 481-489.	1.0	14
205	Joint Motion Estimation and Segmentation from Undersampled Cardiac MR Image. Lecture Notes in Computer Science, 2018, , 55-63.	1.0	14
206	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
207	Factors associated with potentially serious incidental findings and with serious final diagnoses on multi-modal imaging in the UK Biobank Imaging Study: A prospective cohort study. PLoS ONE, 2019, 14, e0218267.	1.1	14
208	Recovering from missing data in population imaging â€“ Cardiac MR image imputation via conditional generative adversarial nets. Medical Image Analysis, 2021, 67, 101812.	7.0	14
209	Automated Quality-Controlled Cardiovascular Magnetic Resonance Pericardial Fat Quantification Using a Convolutional Neural Network in the UK Biobank. Frontiers in Cardiovascular Medicine, 2021, 8, 677574.	1.1	14
210	Radiation safety for cardiovascular computed tomography imaging in paediatric cardiology: a joint expert consensus document of the EACVI, ESCR, AEPC, and ESPR. European Heart Journal Cardiovascular Imaging, 2022, 23, e279-e289.	0.5	14
211	Effect of atrial fibrillation ablation on myocardial function: insights from cardiac magnetic resonance feature tracking analysis. International Journal of Cardiovascular Imaging, 2013, 29, 1807-1817.	0.7	13
212	Danish study of Non-Invasive testing in Coronary Artery Disease 2 (Dan-NICAD 2): Study design for a controlled study of diagnostic accuracy. American Heart Journal, 2019, 215, 114-128.	1.2	13
213	COVID-19 and the UK Biobankâ€"Opportunities and Challenges for Research and Collaboration With Other Large Population Studies. Frontiers in Cardiovascular Medicine, 2020, 7, 156.	1.1	13
214	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
215	Comparison of Cartesian and Non-Cartesian Real-Time MRI Sequences at 1.5T to Assess Velar Motion and Velopharyngeal Closure during Speech. PLoS ONE, 2016, 11, e0153322.	1.1	13
216	Hypertrophic cardiomyopathy in Noonan Syndrome closely mimics familial hypertrophic cardiomyopathy due to sarcomeric mutations. International Journal of Cardiovascular Imaging, 2006, 22, 493-495.	0.7	12

#	Article	IF	Citations
217	First experiences with contrast-enhanced first-pass MR perfusion imaging in patients with primary, benign cardiac masses and tumour-like lesions. European Radiology, 2008, 18, 1617-1624.	2.3	12
218	Association Between Recreational Cannabis Use and Cardiac Structure and Function. JACC: Cardiovascular Imaging, 2020, 13, 886-888.	2.3	12
219	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
220	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
221	Accuracy of Quantitative MR Vessel Wall Imaging Applying a Semi?Automated Gradient Detection Algorithm?A Validation Study. Journal of Cardiovascular Magnetic Resonance, 2004, 6, 895-907.	1.6	11
222	Reproducibility of arterial stiffness and wave reflections in chronic obstructive pulmonary disease: The contribution of lung hyperinflation and a comparison of techniques. Respiratory Medicine, 2013, 107, 1700-1708.	1.3	11
223	Cardiovascular magnetic resonance imaging of myocardial oedema following acute myocardial infarction: Is whole heart coverage necessary?. Journal of Cardiovascular Magnetic Resonance, 2016, 18, 7.	1.6	11
224	Left Ventricular Noncompaction, or Is It? â^—. Journal of the American College of Cardiology, 2016, 68, 2182-2184.	1.2	11
225	Cost-effectiveness of the polypill versus risk assessment for prevention of cardiovascular disease. Heart, 2017, 103, 483-491.	1.2	11
226	A Radiomics Approach to Analyze Cardiac Alterations in Hypertension. , 2019, , .		11
227	Left Ventricular Hypertrabeculation Is Not Associated With Cardiovascular Morbity or Mortality: Insights From the Eurocmr Registry. Frontiers in Cardiovascular Medicine, 2020, 7, 158.	1.1	11
228	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
229	Genome-wide association study of cardiac troponin I in the general population. Human Molecular Genetics, 2021, 30, 2027-2039.	1.4	11
230	3D Cardiac Shape Prediction with Deep Neural Networks: Simultaneous Use of Images and Patient Metadata. Lecture Notes in Computer Science, 2019, , 586-594.	1.0	11
231	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
232	Cardiology training using technology. European Heart Journal, 2021, 42, 1453-1455.	1.0	11
233	Personalized E-Coaching in Cardiovascular Risk Reduction: A Randomized Controlled Trial. Annals of Global Health, 2019, 85, 107.	0.8	11
234	Visualization of the Ruptured Plaque by Magnetic Resonance Imaging. Circulation, 2003, 108, 2542-2542.	1.6	10

#	Article	IF	Citations
235	LV Noncompaction Cardiomyopathy orÂJust a Lot of Trabeculations?. JACC: Cardiovascular Imaging, 2017, 10, 704-707.	2.3	10
236	Two-Minute k-Space and Timeâ€“accelerated Aortic Four-dimensional Flow MRI: Dual-Center Study of Feasibility and Impact on Velocity and Wall Shear Stress Quantification. Radiology: Cardiothoracic Imaging, 2019, 1, e180008.	0.9	10
237	Prevalence and Clinical Relevance of Extracardiac Findings in Cardiovascular Magnetic Resonance Imaging. Journal of Thoracic Imaging, 2019, 34, 48-55.	0.8	10
238	Comparison of quantitative flow ratio and fractional flow reserve with myocardial perfusion scintigraphy and cardiovascular magnetic resonance as reference standard. A Dan-NICAD substudy. International Journal of Cardiovascular Imaging, 2020, 36, 395-402.	0.7	10
239	The Role of Multimodality Cardiovascular Imaging in Peripartum Cardiomyopathy. Frontiers in Cardiovascular Medicine, 2020, 7, 4.	1.1	10
240	Healthcare Workers Bioresource: Study outline and baseline characteristics of a prospective healthcare worker cohort to study immune protection and pathogenesis in COVID-19. Wellcome Open Research, 2020, 5, 179.	0.9	10
241	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
242	Pericardial adiposity is independently linked to adverse cardiovascular phenotypes: a CMR study of 42 598 UK Biobank participants. European Heart Journal Cardiovascular Imaging, 2022, 23, 1471-1481.	0.5	10
243	Effects of steady state free precession parameters on cardiac mass, function, and volumes. International Journal of Cardiovascular Imaging, 2007, 23, 583-589.	0.7	9
244	Raised troponin in COPD: clinical implications and possible mechanisms. Heart, 2013, 99, 71-72.	1.2	9
245	Simplifying cardiovascular magnetic resonance pulse sequence terminology. Journal of Cardiovascular Magnetic Resonance, 2014, 16, 3960.	1.6	9
246	Reporting standards in cardiac MRI, CT, and SPECT diagnostic accuracy studies: analysis of the impact of STARD criteria. European Heart Journal Cardiovascular Imaging, 2014, 15, 691-700.	0.5	9
247	â€œ3D Fusionâ€•Echocardiography Improves 3D Left Ventricular Assessment: Comparison with 2D Contrast Echocardiography. Echocardiography, 2015, 32, 302-309.	0.3	9
248	Coronary atherosclerotic plaque burden and composition by CT angiography in Caucasian and South Asian patients with stable chest pain. European Heart Journal Cardiovascular Imaging, 2017, 18, 556-567.	0.5	9
249	Doppler echocardiography underestimates the prevalence and magnitude of midâ€cavity obstruction in patients with symptomatic hypertrophic cardiomyopathy. Catheterization and Cardiovascular Interventions, 2018, 91, 783-789.	0.7	9
250	Editorial: Current and Future Role of Artificial Intelligence in Cardiac Imaging. Frontiers in Cardiovascular Medicine, 2020, 7, 137.	1.1	9
251	Stress myocardial perfusion with qualitative magnetic resonance and quantitative dynamic computed tomography: comparison of diagnostic performance and incremental value over coronary computed tomography angiography. European Heart Journal Cardiovascular Imaging, 2020, , .	0.5	9
252	Pathological Cluster Identification by Unsupervised Analysis in 3,822 UK Biobank Cardiac MRIs. Frontiers in Cardiovascular Medicine, 2020, 7, 539788.	1.1	9

#	Article	IF	Citations
253	Brain age estimation at tract group level and its association with daily life measures, cardiac risk factors and genetic variants. Scientific Reports, 2021, 11, 20563.	1.6	9
254	Validation of Cardiovascular Magnetic Resonanceâ€“Derived Equation for Predicted Left Ventricular Mass Using the UK Biobank Imaging Cohort. Circulation: Heart Failure, 2019, 12, e006362.	1.6	8
255	A new scheme for the assessment of the robustness of Explainable Methods Applied to Brain Age estimation. , 2021, , .		8
256	Prevalence of Hypertrophic Cardiomyopathy in the UK Biobank Population. JAMA Cardiology, 2021, 6, 852.	3.0	8
257	Percutaneous Left Atrial Appendage Transcatheter Occlusion (PLAATO): Planning and Follow-Up Using Contrast-Enhanced MRI. American Journal of Roentgenology, 2006, 186, 361-364.	1.0	7
258	Diagnostic Performance and Comparative Cost-Effectiveness of Non-invasive Imaging Tests in Patients Presenting with Chronic Stable Chest Pain with Suspected Coronary Artery Disease: A Systematic Overview. Current Cardiology Reports, 2014, 16, 537.	1.3	7
259	Left Ventricular Noncompaction. JACC: Cardiovascular Imaging, 2015, 8, 947-948.	2.3	7
260	Excessive Trabeculations and Prognosis. Circulation: Cardiovascular Imaging, 2017, 10, .	1.3	7
261	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
262	One-step anatomic and function testing by cardiac CT versus second-line functional testing in symptomatic patients with coronary artery stenosis: head-to-head comparison of CT-derived fractional flow reserve and myocardial perfusion imaging. EuroIntervention, 2021, 17, 576-583.	1.4	7
263	Generalizable Framework for Atrial Volume Estimation for Cardiac CT Images Using Deep Learning With Quality Control Assessment. Frontiers in Cardiovascular Medicine, 2022, 9, 822269.	1.1	7
264	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
265	Local Transient Myocardial Liposomal Gene Transfer of Inducible Nitric Oxide Synthase Does Not Aggravate Myocardial Function and Fibrosis and Leads to Moderate Neovascularization in Chronic Myocardial Ischemia in Pigs. Microcirculation, 2010, 17, 69-78.	1.0	6
266	Chronic Obstructive Pulmonary Disease as a Predictor of Cardiovascular Risk: A Case-Control Study. COPD: Journal of Chronic Obstructive Pulmonary Disease, 2020, 17, 81-89.	0.7	6
267	COVID-19 and the Digitalisation of Cardiovascular Training and Educationâ€”A Review of Guiding Themes for Equitable and Effective Post-graduate Telelearning. Frontiers in Cardiovascular Medicine, 2021, 8, 666119.	1.1	6
268	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
269	The Future of Cardiac Magnetic Resonance Clinical Trials. JACC: Cardiovascular Imaging, 2021, , .	2.3	6
270	Area at Risk and Viability after Myocardial Ischemia and Reperfusion Can Be Determined by Contrast-Enhanced Cardiac Magnetic Resonance Imaging. European Surgical Research, 2009, 43, 13-23.	0.6	5

#	Article	IF	Citations
271	Comparing analysis methods for quantification of myocardial oedema in patients following reperfused ST-elevation MI. Journal of Cardiovascular Magnetic Resonance, 2011, 13, .	1.6	5
272	Different Imaging Strategies in Patients With Possible Basilar Artery Occlusion. Stroke, 2015, 46, 1840-1849.	1.0	5
273	A comparison of cardiac motion analysis software packages: application to left ventricular deformation analysis in healthy subjects. Journal of Cardiovascular Magnetic Resonance, 2016, 18, P47.	1.6	5
274	The year 2017 in the European Heart Journalâ€"Cardiovascular Imaging: Part I. European Heart Journal Cardiovascular Imaging, 2018, 19, 1099-1106.	0.5	5
275	Using patient-reported outcome measures for primary percutaneous coronary intervention. Open Heart, 2019, 6, e000920.	0.9	5
276	Cardiovascular magnetic resonance imaging volume criteria for arrhythmogenic right ventricular cardiomyopathy: need for update?. European Heart Journal, 2020, 41, 1451-1451.	1.0	5
277	Vasodilator Myocardial Perfusion Cardiac Magnetic Resonance Imaging Is Superior to Dobutamine Stress Echocardiography in the Detection of Relevant Coronary Artery Stenosis: A Systematic Review and Meta-Analysis on Their Diagnostic Accuracy. Frontiers in Cardiovascular Medicine, 2021, 8, 630846.	1.1	5
278	P21â€...The applicability of current cardiovascular risk scores and cardiovascular surrogates in chronic obstructive pulmonary disease: A case-control study. Thorax, 2015, 70, A85.2-A86.	2.7	4
279	The year 2018 in the European Heart Journal â€“ Cardiovascular Imaging: Part I. European Heart Journal Cardiovascular Imaging, 2019, 20, 858-865.	0.5	4
280	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
281	Aortic dissection: visualisation of aortic blood flow and quantification of wall shear stress using time-resolved, 3D phase-contrast MRI. Journal of Cardiovascular Magnetic Resonance, 2011, 13, .	1.6	3
282	CMR right ventricular strain assessment using feature tracking cine images: agreement with echocardiography. Journal of Cardiovascular Magnetic Resonance, 2012, 14, .	1.6	3
283	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
284	Tissue-tracking in the assessment of late gadolinium enhancement in myocarditis and myocardial infarction. Magnetic Resonance Imaging, 2020, 73, 62-69.	1.0	3
285	The year 2019 in the European Heart Journalâ€"Cardiovascular Imaging: Part I. European Heart Journal Cardiovascular Imaging, 2020, 21, 1208-1215.	0.5	3
286	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
287	An agenda-setting paper on data sharing platforms: euCanSHare workshop. Open Research Europe, 0, 1, 80.	2.0	3
288	High Throughput Computation of Reference Ranges of Biventricular Cardiac Function on the UK Biobank Population Cohort. Lecture Notes in Computer Science, 2019, , 114-121.	1.0	3

#	Article	IF	Citations
289	Missing Slice Imputation in Population CMR Imaging via Conditional Generative Adversarial Nets. Lecture Notes in Computer Science, 2019, , 651-659.	1.0	3
290	EACVI survey on burnout amongst cardiac imaging specialists during the 2019 coronavirus disease pandemic. European Heart Journal Cardiovascular Imaging, 2022, , .	0.5	3
291	Improving robustness of automatic cardiac function quantification from cine magnetic resonance imaging using synthetic image data. Scientific Reports, 2022, 12, 2391.	1.6	3
292	Response to StÃ¶llberger and Finsterer. Cardiology in the Young, 2006, 16, 406.	0.4	2
293	Usefulness of MRI to Differentiate Between Temporary and Long-Term Coronary Artery Occlusion in a Minimally Invasive Model of Experimental Myocardial Infarction. CardioVascular and Interventional Radiology, 2009, 32, 1033-1041.	0.9	2
294	Aortic distensibility decreases during exercise in normal volunteers. Journal of Cardiovascular Magnetic Resonance, 2010, 12, .	1.6	2
295	Visualisation of aortic flow disturbance in Marfan syndrome by 4D phase-contrast CMR. Journal of Cardiovascular Magnetic Resonance, 2011, 13, .	1.6	2
296	108 4D-flow CMR demonstrates the regional distribution of aortic flow disturbance in Marfan syndrome. Heart, 2011, 97, A62-A62.	1.2	2
297	Cardiovascular changes in patients with adult-onset growth hormone deficiency assessed by CMR. Journal of Cardiovascular Magnetic Resonance, 2012, 14, .	1.6	2
298	CMR trabecular fractal analysis - technical development of a measurement system. Journal of Cardiovascular Magnetic Resonance, 2014, 16, P51.	1.6	2
299	LB01.07. Journal of Hypertension, 2015, 33, e46.	0.3	2
300	EuroEcho-Imaging 2014: highlights. European Heart Journal Cardiovascular Imaging, 2015, 16, 703-711.	0.5	2
301	Cardiovascular magnetic resonance feature tracking in patients with acute myocarditis and normal ejection fraction: potential for improved diagnosis and prognosis. Journal of Cardiovascular Magnetic Resonance, 2015, 17, M7.	1.6	2
302	A comparison of cardiac motion analysis software packages: application to left ventricular deformation analysis in hypertensive patients. Journal of Cardiovascular Magnetic Resonance, 2015, 17, P57.	1.6	2
303	The year 2020 in the European Heart Journal â€“ Cardiovascular Imaging: part I. European Heart Journal Cardiovascular Imaging, 2021, 22, 1219-1227.	0.5	2
304	Image Quality Assessment for Population Cardiac Magnetic Resonance Imaging. Advances in Computer Vision and Pattern Recognition, 2019, , 299-321.	0.9	2
305	Biobanks and Artificial Intelligence. Contemporary Medical Imaging, 2022, , 81-93.	0.3	2
306	A 'broken heart' artifact in cardiovascular MR. International Journal of Cardiovascular Imaging, 2003, 19, 437-437.	0.2	1

#	Article	IF	Citations
307	MRI after implantation of a novel femoral closure device following intra-arterial catheterisation: implications for subsequent contrast-enhanced MR angiography. European Radiology, 2010, 20, 1277-1283.	2.3	1
308	Letter by Yilmaz et al Regarding Article, â€œAnalysis of Dystrophin Deletion Mutations Predicts Age of Cardiomyopathy Onset in Becker Muscular Dystrophyâ€• Circulation: Cardiovascular Genetics, 2010, 3, e1; author reply e2.	5.1	1
309	Dystrophinopathies are characterised by impaired cardiac metabolism, contractile dysfunction and fibrosis in patients with and without coxsackie B3 exposure. Journal of Cardiovascular Magnetic Resonance, 2011, 13, .	1.6	1
310	Is there a role for stress CMR in stable chest pain with >60% predicted risk of coronary artery disease?. QJM - Monthly Journal of the Association of Physicians, 2012, 105, 1231-1231.	0.2	1
311	Cardiac magnetic resonance myocardial feature-tracking: the effect of treatment in patients with adult-onset growth hormone deficiency and acromegaly. Journal of Cardiovascular Magnetic Resonance, 2013, 15, E55.	1.6	1
312	Excessive left ventricular trabeculation does not promote cardiac dysfunction in asymptomatic middle aged and older individuals with preserved cardiac function: an analysis from the Multi-Ethnic Study of Atherosclerosis. Journal of Cardiovascular Magnetic Resonance, 2015, 17, O25.	1.6	1
313	The applicability of current global cardiovascular risk scores and cardiovascular surrogates in chronic obstructive pulmonary disease. Journal of Cardiovascular Magnetic Resonance, 2016, 18, P134.	1.6	1
314	Endomyocardial fibrosis masquerading as metastatic colorectal tumour; myocardial tissue characterization pivotal in guiding urgent surgical management. European Heart Journal, 2018, 39, 4043-4044.	1.0	1
315	Multi-modal Brain Age Estimation: A Comparative Study Confirms the Importance of Microstructure. Mathematics and Visualization, 2021, , 239-250.	0.4	1
316	Variation of cardiac magnetic resonance radiomics features by age and sex in healthy participants from the UK Biobank. European Heart Journal, 2020, 41, .	1.0	1
317	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
318	Genetic Architecture of Quantitative Cardiovascular Traits: Blood Pressure, ECG and Imaging Phenotypes. , 0, , .		1
319	An agenda-setting paper on data sharing platforms: euCanSHare workshop. Open Research Europe, 0, 1, 80.	2.0	1
320	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
321	Redefining cardiomyopathies: the role of cardiovascular magnetic resonance imaging. European Heart Journal, 2007, 28, 3094-3095.	1.0	0
322	2032 The relationship between electrocardiographic and cardiac magnetic resonance (CMR)-derived left ventricular parameters differs between physiologic and pathologic hypertrophy. Journal of Cardiovascular Magnetic Resonance, 2008, 10, .	1.6	0
323	137 Ventricular hypertrophy precedes ventricular cavity dilatation in response to increasing body mass index. Journal of Cardiovascular Magnetic Resonance, 2008, 10, .	1.6	0
324	The beneficial cardiovascular effects of bariatric surgery are similar to dietary weight loss in obesity. Journal of Cardiovascular Magnetic Resonance, 2009, 11, .	1.6	0

#	Article	IF	Citations
325	Relationship of aortic stiffness measured by cardiovascular magnetic resonance to arterial stiffness estimates by tonometry. Journal of Cardiovascular Magnetic Resonance, 2009, 11, .	1.6	0
326	Evaluation of 3-dimensional left ventricular velocities with cardiac MR imaging using navigator gated high temporal resolution tissue phase mapping. Journal of Cardiovascular Magnetic Resonance, 2009, 11, .	1.6	0
327	The effects of continued obesity on the cardiovascular system. Journal of Cardiovascular Magnetic Resonance, 2009, 11, .	1.6	0
328	Two center study to assess the functional relevance of myocardial fibrosis in muscular dystrophy patients with and without left ventricular systolic dysfunction. Journal of Cardiovascular Magnetic Resonance, 2010, 12, .	1.6	0
329	CMR real-time, free-breathing, phase contrast flow quantification: a novel approach to assess ventricular coupling in constrictive pericarditis. Journal of Cardiovascular Magnetic Resonance, 2011, 13, .	1.6	0
330	Prognostic utility and clinical impact of adenosine stress perfusion CMR scan in patients with known coronary disease. Journal of Cardiovascular Magnetic Resonance, 2011, 13, .	1.6	0
331	Left and right ventricular function in acutely presenting Amyocarditis: sparing of the right ventricle. Journal of Cardiovascular Magnetic Resonance, 2011, 13, .	1.6	0
332	Coronary Artery Stents. , 2012, , 147-152.		0
333	The Influence Of Hyperinflation On Arterial Stiffness In Stable Chronic Obstructive Pulmonary Disease. , 2012, , .		0
334	Does change in heart rate and blood pressure during adenosine stress perfusion cardiovascular magnetic resonance (A-CMRP) imaging predict perfusion defects?. Journal of Cardiovascular Magnetic Resonance, 2012, 14, .	1.6	0
335	Cardiovascular changes in patients with acromegaly assessed by CMR. Journal of Cardiovascular Magnetic Resonance, 2012, 14, .	1.6	0
336	Cardiac magnetic resonance perfusion imaging using a single intravenous line. Journal of Cardiovascular Magnetic Resonance, 2012, 14, .	1.6	0
337	Magnetic resonance imaging pre and post pulmonary vein isolation for atrial fibrillation: diagnostic accuracy to detect and characterize ablation lesions. Journal of Cardiovascular Magnetic Resonance, 2012, 14, .	1.6	0
338	The natural time course of myocardial oedema in the 12 months post ST-elevation MI in patients treated with primary angioplasty. Journal of Cardiovascular Magnetic Resonance, 2012, 14, .	1.6	0
339	Gender specific differences in left ventricular remodelling in obesity may explain differences in obesity related mortality. Journal of Cardiovascular Magnetic Resonance, 2012, 14, .	1.6	0
340	Quality of reporting in cardiac MRI, CT and SPECT diagnostic accuracy studies: Analysis of the impact of STARD criteria. Journal of Cardiovascular Magnetic Resonance, 2013, 15, E76.	1.6	0
341	Clinical utilisation of adenosine stress CMR and its influence on patient management in a tertiary cardiac centre. Journal of Cardiovascular Magnetic Resonance, 2013, 15, P270.	1.6	0
342	Interstitial expansion in pressure overload left ventricular hypertrophy. Journal of Cardiovascular Magnetic Resonance, 2013, 15, O92.	1.6	0

#	Article	IF	Citations
343	Diffuse interstitial fibrosis in well-controlled hypertension. Journal of Cardiovascular Magnetic Resonance, 2013, 15, .	1.6	0
344	Cardiac magnetic resonance myocardial feature tracking: feasibility for use in left ventricular non-compaction. Journal of Cardiovascular Magnetic Resonance, 2013, 15, E119.	1.6	0
345	Influence of disease prevalence on cost-effectiveness of magnetic resonance imaging versus coronary angiography combined with fractional flow reserve testing. Journal of Cardiovascular Magnetic Resonance, 2014, 16, O98.	1.6	0
346	Impact of image plane selection on measures of left ventricular non-compaction. Journal of Cardiovascular Magnetic Resonance, 2014, 16, P274.	1.6	0
347	Clinical applicability of cardiac magnetic resonance feature tracking analysis in patients with atrial fibrillation undergoing ablation. Journal of Cardiovascular Magnetic Resonance, 2014, 16, P154.	1.6	0
348	208.â€ƒAssociations Between Stroke, Bone Quality and Fracture: Results from UK Biobank. Rheumatology, 0, , .	0.9	0
349	Splenic switch-off, a potential novel marker of lack of adenosine response: prevalence and measurement reproducibility. Journal of Cardiovascular Magnetic Resonance, 2015, 17, P122.	1.6	0
350	Quantification of the relationship between two cardiac magnetic resonance techniques: fast gradient echo and steady-state free precession for determination of left atrial volumes. Journal of Cardiovascular Magnetic Resonance, 2015, 17, P19.	1.6	0
351	The impact of chronic obstructive pulmonary disease (COPD) and its associated lung hyperinflation on cardiac structure and function. Journal of Cardiovascular Magnetic Resonance, 2015, 17, P353.	1.6	0
352	Assessment of cardiovascular magnetic resonance aortic stiffness in patients with increased cardiovascular risk: role of traditional risk factors and lung hyperinflation. Journal of Cardiovascular Magnetic Resonance, 2015, 17, P398.	1.6	0
353	Splenic switch-off, a potential novel marker of lack of adenosine response: relationship to heart rate response and demographic factors. Journal of Cardiovascular Magnetic Resonance, 2015, 17, P92.	1.6	0
354	Cardiac Remodeling. JACC: Cardiovascular Imaging, 2016, 9, 1174-1176.	2.3	0
355	The association of left atrial volume with age, ethnicity and cardiovascular risk factors in men and women: the Multi-Ethnic Study of Atherosclerosis (MESA). Journal of Cardiovascular Magnetic Resonance, 2016, 18, O65.	1.6	0
356	84â€…Cardiovascular Risk Reduction Using Contemporary Guideline Recommendations: Outcomes of the Heart Attack Prevention Programme for You (Happy) London Study: Abstract 84 Table 1. Heart, 2016, 102, A61.1-A61.	1.2	0
357	Can left ventricular endocardial surface roughness be measured by fractal dimension on fast gradient echo sequences?. Journal of Cardiovascular Magnetic Resonance, 2016, 18, P41.	1.6	0
358	Relationship of regional myocardial deformation and myocardial fibrosis to myocardial trabeculation: The Multi-Ethnic Study of Atherosclerosis. Journal of Cardiovascular Magnetic Resonance, 2016, 18, O77.	1.6	0
359	Advances in population-based imaging using cardiac magnetic resonance. Progress in Biomedical Engineering, 2019, 1, 012003.	2.8	0
360	Impact of Measurement Variations in Right Atrial Structure and Function on Outcomes. JACC: Cardiovascular Imaging, 2019, 12, 569-570.	2.3	0

#	Article	IF	Citations
361	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
362	9â€…Effect of coffee consumption on arterial stiffness from UK biobank imaging study. , 2019, , .		0
363	110â€…Corneal biomechanical properties and vascular compliance in the UK biobank cohort. , 2019, , .		0
364	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
365	Identify, Intervene, Improve. Circulation: Cardiovascular Imaging, 2020, 13, e012084.	1.3	0
366	Lifelong learning as a clinical academic key to job satisfaction. Heart, 2021, 107, 934-935.	1.2	0
367	Microvascular Obstruction. Circulation: Cardiovascular Imaging, 2021, 14, e012324.	1.3	0
368	O02â€ƒLow birthweight is associated with decreased grip strength and reduced leg muscle mass in middle age: findings from the UK Biobank imaging enhancement. Rheumatology, 2021, 60, .	0.9	0
369	Diagnosing excessive trabeculation cardiomyopathy: in pursuit of the â€œholy grailâ€• European Radiology, 2021, 31, 7550-7552.	2.3	0
370	Bright Is (Not Too) Bad. JACC: Cardiovascular Imaging, 2021, 14, 2366-2368.	2.3	0
371	050â€…Automated analysis of atrial delayed enhancement cardiac MRI correlates with voltage, AF recurrence post-ablation, and high stroke risk. Heart, 2012, 98, A30.2-A31.	1.2	0
372	Non-compaction or excessive trabeculation cardiomyopathy. , 2018, , 282-289.		0
373	Unsupervised Standard Plane Synthesis in Population Cine MRI via Cycle-Consistent Adversarial Networks. Lecture Notes in Computer Science, 2019, , 660-668.	1.0	0
374	Low birthweight is associated with poorer limb muscle mass and grip strength in middle age: findings from the UK Biobank Imaging Enhancement. Bone Abstracts, 0, , .	0.0	0
375	6â€…Healthier CMR phenotypes are linked to favourable brain MRI structure and function metrics in the UK Biobank. , 2021, , .		0
376	Reply to StÃ¶lberger et al.. Journal of Anatomy, 2022, , .	0.9	0