

Stefan Neubauer

List of Publications by Citations

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

213
papers

10,483
citations

49
h-index

98
g-index

242
ext. papers

14,447
ext. citations

7.9
avg, IF

6.51
L-index

#	Paper	IF	Citations
213	The failing heart--an engine out of fuel. <i>New England Journal of Medicine</i> , 2007 , 356, 1140-51	59.2	1545
212	Myocardial phosphocreatine-to-ATP ratio is a predictor of mortality in patients with dilated cardiomyopathy. <i>Circulation</i> , 1997 , 96, 2190-6	16.7	496
211	4D flow cardiovascular magnetic resonance consensus statement. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2015 , 17, 72	6.9	446
210	Abnormal cardiac and skeletal muscle energy metabolism in patients with type 2 diabetes. <i>Circulation</i> , 2003 , 107, 3040-6	16.7	408
209	Detecting human coronary inflammation by imaging perivascular fat. <i>Science Translational Medicine</i> , 2017 , 9,	17.5	285
208	Automated cardiovascular magnetic resonance image analysis with fully convolutional networks. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2018 , 20, 65	6.9	285
207	Multiparametric magnetic resonance for the non-invasive diagnosis of liver disease. <i>Journal of Hepatology</i> , 2014 , 60, 69-77	13.4	272
206	T(1) mapping for the diagnosis of acute myocarditis using CMR: comparison to T2-weighted and late gadolinium enhanced imaging. <i>JACC: Cardiovascular Imaging</i> , 2013 , 6, 1048-1058	8.4	260
205	Non-invasive detection of coronary inflammation using computed tomography and prediction of residual cardiovascular risk (the CRISP CT study): a post-hoc analysis of prospective outcome data. <i>Lancet, The</i> , 2018 , 392, 929-939	40	255
204	Reference ranges for cardiac structure and function using cardiovascular magnetic resonance (CMR) in Caucasians from the UK Biobank population cohort. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2017 , 19, 18	6.9	244
203	Nutritional Ketosis Alters Fuel Preference and Thereby Endurance Performance in Athletes. <i>Cell Metabolism</i> , 2016 , 24, 256-68	24.6	240
202	Medium-term effects of SARS-CoV-2 infection on multiple vital organs, exercise capacity, cognition, quality of life and mental health, post-hospital discharge. <i>EClinicalMedicine</i> , 2021 , 31, 100683	11.3	164
201	Beneficial cardiovascular effects of bariatric surgical and dietary weight loss in obesity. <i>Journal of the American College of Cardiology</i> , 2009 , 54, 718-26	15.1	150
200	UK Biobank cardiovascular magnetic resonance protocol. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2016 , 18, 8	6.9	145
199	Assessing Cardiac Metabolism: A Scientific Statement From the American Heart Association. <i>Circulation Research</i> , 2016 , 118, 1659-701	15.7	142
198	Diffuse Myocardial Fibrosis and Inflammation in Rheumatoid Arthritis: Insights From CMR T1 Mapping. <i>JACC: Cardiovascular Imaging</i> , 2015 , 8, 526-536	8.4	134
197	A novel machine learning-derived radiotranscriptomic signature of perivascular fat improves cardiac risk prediction using coronary CT angiography. <i>European Heart Journal</i> , 2019 , 40, 3529-3543	9.5	127

196	Multiparametric magnetic resonance imaging predicts clinical outcomes in patients with chronic liver disease. <i>Journal of Hepatology</i> , 2016 , 64, 308-315	13.4	127
195	Relationship Between Left Ventricular Structural and Metabolic Remodeling in Type 2 Diabetes. <i>Diabetes</i> , 2016 , 65, 44-52	0.9	125
194	Noncontrast myocardial T1 mapping using cardiovascular magnetic resonance for iron overload. <i>Journal of Magnetic Resonance Imaging</i> , 2015 , 41, 1505-11	5.6	111
193	Ectopic and Visceral Fat Deposition in Lean and Obese Patients With Type 2 Diabetes. <i>Journal of the American College of Cardiology</i> , 2016 , 68, 53-63	15.1	105
192	Multiparametric magnetic resonance imaging for the assessment of non-alcoholic fatty liver disease severity. <i>Liver International</i> , 2017 , 37, 1065-1073	7.9	103
191	Determination of Clinical Outcome in Mitral Regurgitation With Cardiovascular Magnetic Resonance Quantification. <i>Circulation</i> , 2016 , 133, 2287-96	16.7	98
190	Effect of Selective Heart Rate Slowing in Heart Failure With Preserved Ejection Fraction. <i>Circulation</i> , 2015 , 132, 1719-25	16.7	94
189	Cardiac energetics, oxygenation, and perfusion during increased workload in patients with type 2 diabetes mellitus. <i>European Heart Journal</i> , 2016 , 37, 3461-3469	9.5	90
188	Adenosine Stress and Rest T1 Mapping Can Differentiate Between Ischemic, Infarcted, Remote, and Normal Myocardium Without the Need for Gadolinium Contrast Agents. <i>JACC: Cardiovascular Imaging</i> , 2016 , 9, 27-36	8.4	89
187	Effects of catecholamine stress on diastolic function and myocardial energetics in obesity. <i>Circulation</i> , 2012 , 125, 1511-9	16.7	89
186	Pheochromocytoma Is Characterized by Catecholamine-Mediated Myocarditis, Focal and Diffuse Myocardial Fibrosis, and Myocardial Dysfunction. <i>Journal of the American College of Cardiology</i> , 2016 , 67, 2364-2374	15.1	86
185	The UK Biobank imaging enhancement of 100,000 participants: rationale, data collection, management and future directions. <i>Nature Communications</i> , 2020 , 11, 2624	17.4	81
184	Sex-Specific Differences in Hepatic Fat Oxidation and Synthesis May Explain the Higher Propensity for NAFLD in Men. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2015 , 100, 4425-33	5.6	74
183	Diagnosis of Microvascular Angina Using Cardiac Magnetic Resonance. <i>Journal of the American College of Cardiology</i> , 2018 , 71, 969-979	15.1	74
182	A prospective, double-blind, randomized controlled trial of the angiotensin-converting enzyme inhibitor Ramipril In Aortic Stenosis (RIAS trial). <i>European Heart Journal Cardiovascular Imaging</i> , 2015 , 16, 834-41	4.1	73
181	Reciprocal effects of systemic inflammation and brain natriuretic peptide on adiponectin biosynthesis in adipose tissue of patients with ischemic heart disease. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2014 , 34, 2151-9	9.4	69
180	Association of Cardiovascular Risk Factors With MRI Indices of Cerebrovascular Structure and Function and White Matter Hyperintensities in Young Adults. <i>JAMA - Journal of the American Medical Association</i> , 2018 , 320, 665-673	27.4	66
179	Serial cine-magnetic resonance imaging of left ventricular remodeling after myocardial infarction in rats. <i>Journal of Magnetic Resonance Imaging</i> , 2001 , 14, 547-55	5.6	66

178	HIV-1-Related Cardiovascular Disease Is Associated With Chronic Inflammation, Frequent Pericardial Effusions, and Probable Myocardial Edema. <i>Circulation: Cardiovascular Imaging</i> , 2016 , 9, e004430	3.9	60
177	Distinct Subgroups in Hypertrophic Cardiomyopathy in the NHLBI HCM Registry. <i>Journal of the American College of Cardiology</i> , 2019 , 74, 2333-2345	15.1	60
176	Physical, cognitive, and mental health impacts of COVID-19 after hospitalisation (PHOSP-COVID): a UK multicentre, prospective cohort study. <i>Lancet Respiratory Medicine</i> , 2021 , 9, 1275-1287	35.1	58
175	Acute myocardial infarction activates distinct inflammation and proliferation pathways in circulating monocytes, prior to recruitment, and identified through conserved transcriptional responses in mice and humans. <i>European Heart Journal</i> , 2015 , 36, 1923-34	9.5	57
174	Genome-Wide Analysis of Left Ventricular Image-Derived Phenotypes Identifies Fourteen Loci Associated With Cardiac Morphogenesis and Heart Failure Development. <i>Circulation</i> , 2019 , 140, 1318-1330	16.7	56
173	Gadolinium-Free Cardiac MR Stress T1-Mapping to Distinguish Epicardial From Microvascular Coronary Disease. <i>Journal of the American College of Cardiology</i> , 2018 , 71, 957-968	15.1	56
172	CMR Native T1 Mapping Allows Differentiation of Reversible Versus Irreversible Myocardial Damage in ST-Segment-Elevation Myocardial Infarction: An OxAMI Study (Oxford Acute Myocardial Infarction). <i>Circulation: Cardiovascular Imaging</i> , 2017 , 10,	3.9	56
171	Physiological Stress Elicits Impaired Left Ventricular Function in Preterm-Born Adults. <i>Journal of the American College of Cardiology</i> , 2018 , 71, 1347-1356	15.1	55
170	Early change in invasive measures of microvascular function can predict myocardial recovery following PCI for ST-elevation myocardial infarction. <i>European Heart Journal</i> , 2014 , 35, 1971-80	9.5	52
169	Long-term cerebral white and gray matter changes after preeclampsia. <i>Neurology</i> , 2017 , 88, 1256-1264	6.5	51
168	Lone Atrial Fibrillation Is Associated With Impaired Left Ventricular Energetics That Persists Despite Successful Catheter Ablation. <i>Circulation</i> , 2016 , 134, 1068-1081	16.7	51
167	Automated quality control in image segmentation: application to the UK Biobank cardiovascular magnetic resonance imaging study. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2019 , 21, 18	6.9	49
166	Noninvasive In Vivo Assessment of Cardiac Metabolism in the Healthy and Diabetic Human Heart Using Hyperpolarized C MRI. <i>Circulation Research</i> , 2020 , 126, 725-736	15.7	49
165	Comparison of exercise testing and CMR measured myocardial perfusion reserve for predicting outcome in asymptomatic aortic stenosis: the PRognostic Importance of Microvascular Dysfunction in Aortic Stenosis (PRIMID AS) Study. <i>European Heart Journal</i> , 2017 , 38, 1222-1229	9.5	49
164	Identification of Myocardial Disarray in Patients With Hypertrophic Cardiomyopathy and Ventricular Arrhythmias. <i>Journal of the American College of Cardiology</i> , 2019 , 73, 2493-2502	15.1	47
163	Association Between Ambient Air Pollution and Cardiac Morpho-Functional Phenotypes: Insights From the UK Biobank Population Imaging Study. <i>Circulation</i> , 2018 , 138, 2175-2186	16.7	47
162	Splenic T1-mapping: a novel quantitative method for assessing adenosine stress adequacy for cardiovascular magnetic resonance. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2017 , 19, 1	6.9	47
161	Breast Milk Consumption in Preterm Neonates and Cardiac Shape in Adulthood. <i>Pediatrics</i> , 2016 , 138,	7.4	46

160	Metabolic remodeling in hypertrophied and failing myocardium: a review. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2017 , 313, H597-H616	5.2	46
159	Progression of myocardial fibrosis in hypertrophic cardiomyopathy: mechanisms and clinical implications. <i>European Heart Journal Cardiovascular Imaging</i> , 2019 , 20, 157-167	4.1	46
158	Measurement of myocardial native T1 in cardiovascular diseases and norm in 1291 subjects. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2017 , 19, 74	6.9	44
157	A model for hepatic fibrosis: the competing effects of cell loss and iron on shortened modified Look-Locker inversion recovery T (shMOLLI-T) in the liver. <i>Journal of Magnetic Resonance Imaging</i> , 2017 , 45, 450-462	5.6	42
156	Systolic ShMOLLI myocardial T1-mapping for improved robustness to partial-volume effects and applications in tachyarrhythmias. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2015 , 17, 77	6.9	42
155	Myocardial Tissue Characterization and Fibrosis by Imaging. <i>JACC: Cardiovascular Imaging</i> , 2020 , 13, 1228-1234	8.1	42
154	Improving the Generalizability of Convolutional Neural Network-Based Segmentation on CMR Images. <i>Frontiers in Cardiovascular Medicine</i> , 2020 , 7, 105	5.4	40
153	Noninvasive Immunometabolic Cardiac Inflammation Imaging Using Hyperpolarized Magnetic Resonance. <i>Circulation Research</i> , 2018 , 122, 1084-1093	15.7	40
152	Beyond Bernoulli: Improving the Accuracy and Precision of Noninvasive Estimation of Peak Pressure Drops. <i>Circulation: Cardiovascular Imaging</i> , 2017 , 10,	3.9	39
151	The impact of cardiovascular risk factors on cardiac structure and function: Insights from the UK Biobank imaging enhancement study. <i>PLoS ONE</i> , 2017 , 12, e0185114	3.7	39
150	Distinct ECG Phenotypes Identified in Hypertrophic Cardiomyopathy Using Machine Learning Associate With Arrhythmic Risk Markers. <i>Frontiers in Physiology</i> , 2018 , 9, 213	4.6	36
149	Optimization of ECG-triggered 3D (23)Na MRI of the human heart. <i>Magnetic Resonance in Medicine</i> , 2001 , 45, 164-6	4.4	36
148	Utility and variability of three non-invasive liver fibrosis imaging modalities to evaluate efficacy of GR-MD-02 in subjects with NASH and bridging fibrosis during a phase-2 randomized clinical trial. <i>PLoS ONE</i> , 2018 , 13, e0203054	3.7	36
147	Design and rationale of a prospective, collaborative meta-analysis of all randomized controlled trials of angiotensin receptor antagonists in Marfan syndrome, based on individual patient data: A report from the Marfan Treatment Trialists Collaboration. <i>American Heart Journal</i> , 2015 , 169, 605-12	4.9	35
146	Assessment of Metformin-Induced Changes in Cardiac and Hepatic Redox State Using Hyperpolarized[1-13C]Pyruvate. <i>Diabetes</i> , 2016 , 65, 3544-3551	0.9	35
145	On the pivotal role of PPAR β in adaptation of the heart to hypoxia and why fat in the diet increases hypoxic injury. <i>FASEB Journal</i> , 2016 , 30, 2684-97	0.9	35
144	MECHANISMS IN ENDOCRINOLOGY: Diabetic cardiomyopathy: pathophysiology and potential metabolic interventions state of the art review. <i>European Journal of Endocrinology</i> , 2018 , 178, R127-R139	6.5	33
143	Fully-automated left ventricular mass and volume MRI analysis in the UK Biobank population cohort: evaluation of initial results. <i>International Journal of Cardiovascular Imaging</i> , 2018 , 34, 281-291	2.5	33

142	Common genetic variants and modifiable risk factors underpin hypertrophic cardiomyopathy susceptibility and expressivity. <i>Nature Genetics</i> , 2021 , 53, 135-142	36.3	33
141	The interplay between metabolic alterations, diastolic strain rate and exercise capacity in mild heart failure with preserved ejection fraction: a cardiovascular magnetic resonance study. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2018 , 20, 88	6.9	33
140	Pirfenidone in Heart Failure with Preserved Ejection Fraction-Rationale and Design of the PIROUETTE Trial. <i>Cardiovascular Drugs and Therapy</i> , 2019 , 33, 461-470	3.9	31
139	Adenosine stress CMR T1-mapping detects early microvascular dysfunction in patients with type 2 diabetes mellitus without obstructive coronary artery disease. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2017 , 19, 81	6.9	31
138	Interobserver Variability in Histologic Evaluation of Liver Fibrosis Using Categorical and Quantitative Scores. <i>American Journal of Clinical Pathology</i> , 2017 , 147, 364-369	1.9	31
137	Diagnostic accuracy of non-invasive tests for advanced fibrosis in patients with NAFLD: an individual patient data meta-analysis. <i>Gut</i> , 2021 ,	19.2	31
136	Dietary Supplementation with Homoarginine Preserves Cardiac Function in a Murine Model of Post-Myocardial Infarction Heart Failure. <i>Circulation</i> , 2017 , 135, 400-402	16.7	30
135	Differential flow improvements after valve replacements in bicuspid aortic valve disease: a cardiovascular magnetic resonance assessment. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2018 , 20, 10	6.9	30
134	Anti-TNF modulation reduces myocardial inflammation and improves cardiovascular function in systemic rheumatic diseases. <i>International Journal of Cardiology</i> , 2018 , 270, 253-259	3.2	30
133	State-of-the-art review: stress T1 mapping-technical considerations, pitfalls and emerging clinical applications. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2018 , 31, 131-141	2.8	29
132	Prospective association between handgrip strength and cardiac structure and function in UK adults. <i>PLoS ONE</i> , 2018 , 13, e0193124	3.7	29
131	Improving cardiac MRI convolutional neural network segmentation on small training datasets and dataset shift: A continuous kernel cut approach. <i>Medical Image Analysis</i> , 2020 , 61, 101636	15.4	29
130	Quantitative CMR population imaging on 20,000 subjects of the UK Biobank imaging study: LV/RV quantification pipeline and its evaluation. <i>Medical Image Analysis</i> , 2019 , 56, 26-42	15.4	28
129	Neuropeptide-Y causes coronary microvascular constriction and is associated with reduced ejection fraction following ST-elevation myocardial infarction. <i>European Heart Journal</i> , 2019 , 40, 1920-1929	9.5	28
128	Genome-wide and Mendelian randomisation studies of liver MRI yield insights into the pathogenesis of steatohepatitis. <i>Journal of Hepatology</i> , 2020 , 73, 241-251	13.4	28
127	The cardiac sympathetic co-transmitter neuropeptide Y is pro-arrhythmic following ST-elevation myocardial infarction despite beta-blockade. <i>European Heart Journal</i> , 2020 , 41, 2168-2179	9.5	27
126	Over-expression of mitochondrial creatine kinase in the murine heart improves functional recovery and protects against injury following ischaemia-reperfusion. <i>Cardiovascular Research</i> , 2018 , 114, 858-869	9.9	24
125	HIV is an independent predictor of aortic stiffness. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2014 , 16, 57	6.9	24

124	High-energy phosphotransfer in the failing mouse heart: role of adenylate kinase and glycolytic enzymes. <i>European Journal of Heart Failure</i> , 2010 , 12, 1282-9	12.3	24
123	No Evidence of Myocardial Oxygen Deprivation in Nonischemic Heart Failure. <i>Circulation: Heart Failure</i> , 2015 , 8, 1088-93	7.6	23
122	Overexpression of mitochondrial creatine kinase preserves cardiac energetics without ameliorating murine chronic heart failure. <i>Basic Research in Cardiology</i> , 2020 , 115, 12	11.8	23
121	A population-based phenome-wide association study of cardiac and aortic structure and function. <i>Nature Medicine</i> , 2020 , 26, 1654-1662	50.5	23
120	Independent Left Ventricular Morphometric Atlases Show Consistent Relationships with Cardiovascular Risk Factors: A UK Biobank Study. <i>Scientific Reports</i> , 2019 , 9, 1130	4.9	23
119	Left Ventricular Flow Analysis. <i>Circulation: Cardiovascular Imaging</i> , 2019 , 12, e008130	3.9	22
118	Test-retest variability of left ventricular 4D flow cardiovascular magnetic resonance measurements in healthy subjects. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2018 , 20, 15	6.9	22
117	Long COVID: post-acute sequelae of COVID-19 with a cardiovascular focus.. <i>European Heart Journal</i> , 2022 ,	9.5	22
116	Dilated Cardiomyopathy: Phosphorus 31 MR Spectroscopy at 7 T. <i>Radiology</i> , 2016 , 281, 409-417	20.5	21
115	Right ventricular shape and function: cardiovascular magnetic resonance reference morphology and biventricular risk factor morphometrics in UK Biobank. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2019 , 21, 41	6.9	21
114	Chronic creatine kinase deficiency eventually leads to congestive heart failure, but severity is dependent on genetic background, gender and age. <i>Basic Research in Cardiology</i> , 2012 , 107, 276	11.8	21
113	Perivascular Fat Attenuation Index Stratifies Cardiac Risk Associated With High-Risk Plaques in the CRISP-CT Study. <i>Journal of the American College of Cardiology</i> , 2020 , 76, 755-757	15.1	21
112	Improvements in ECG accuracy for diagnosis of left ventricular hypertrophy in obesity. <i>Heart</i> , 2016 , 102, 1566-72	5.1	21
111	Prospective evaluation of the prevalence of non-alcoholic fatty liver disease and steatohepatitis in a large middle-aged US cohort. <i>Journal of Hepatology</i> , 2021 , 75, 284-291	13.4	21
110	Changes in Cardiac Morphology and Function in Individuals With Diabetes Mellitus: The UK Biobank Cardiovascular Magnetic Resonance Substudy. <i>Circulation: Cardiovascular Imaging</i> , 2019 , 12, e009476	3.9	20
109	Rationale and design of a multicentre, randomized, placebo-controlled trial of mirabegron, a Beta3-adrenergic receptor agonist on left ventricular mass and diastolic function in patients with structural heart disease Beta3-left ventricular hypertrophy (Beta3-LVH). <i>ESC Heart Failure</i> , 2018 , 5, 830-841	3.7	20
108	Non-invasive assessment of portal hypertension by multi-parametric magnetic resonance imaging of the spleen: A proof of concept study. <i>PLoS ONE</i> , 2019 , 14, e0221066	3.7	19
107	Diagnostic accuracy of elastography and magnetic resonance imaging in patients with NAFLD: A systematic review and meta-analysis. <i>Journal of Hepatology</i> , 2021 , 75, 770-785	13.4	19

106	Measuring inorganic phosphate and intracellular pH in the healthy and hypertrophic cardiomyopathy hearts by in vivo 7T P-cardiovascular magnetic resonance spectroscopy. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2019 , 21, 19	6.9	17
105	Myocardial Energetics in Obesity: Enhanced ATP Delivery Through Creatine Kinase With Blunted Stress Response. <i>Circulation</i> , 2020 , 141, 1152-1163	16.7	17
104	Increasing creatine kinase activity protects against hypoxia / reoxygenation injury but not against anthracycline toxicity in vitro. <i>PLoS ONE</i> , 2017 , 12, e0182994	3.7	17
103	Prognostic value of multiparametric magnetic resonance imaging, transient elastography and blood-based fibrosis markers in patients with chronic liver disease. <i>Liver International</i> , 2020 , 40, 3071-3082	7.9	17
102	Physical, cognitive and mental health impacts of COVID-19 following hospitalisation: a multi-centre prospective cohort study		17
101	Fat-Secreted Ceramides Regulate Vascular Redox State and Influence Outcomes in Patients With Cardiovascular Disease. <i>Journal of the American College of Cardiology</i> , 2021 , 77, 2494-2513	15.1	17
100	Investigating a Liver Fat: Arterial Stiffening Pathway in Adult and Childhood Obesity. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2016 , 36, 198-203	9.4	16
99	Myocardial Perfusion Is Impaired and Relates to Cardiac Dysfunction in Patients With Atrial Fibrillation Both Before and After Successful Catheter Ablation. <i>Journal of the American Heart Association</i> , 2018 , 7, e009218	6	16
98	Protocol and quality assurance for carotid imaging in 100,000 participants of UK Biobank: development and assessment. <i>European Journal of Preventive Cardiology</i> , 2017 , 24, 1799-1806	3.9	15
97	Obese subjects show sex-specific differences in right ventricular hypertrophy. <i>Circulation: Cardiovascular Imaging</i> , 2015 , 8,	3.9	15
96	Fully Automated Myocardial Strain Estimation from Cardiovascular MRI-tagged Images Using a Deep Learning Framework in the UK Biobank. <i>Radiology: Cardiothoracic Imaging</i> , 2020 , 2, e190032	8.3	15
95	Hyperpolarised magnetic resonance for in vivo real-time metabolic imaging. <i>Heart</i> , 2018 , 104, 1484-1491	15.1	15
94	The Importance of the Fatty Acid Transporter L-Carnitine in Non-Alcoholic Fatty Liver Disease (NAFLD). <i>Nutrients</i> , 2020 , 12,	6.7	15
93	Acute Microvascular Impairment Post-Reperused STEMI Is Reversible and Has Additional Clinical Predictive Value: A CMR OxAMI Study. <i>JACC: Cardiovascular Imaging</i> , 2019 , 12, 1783-1793	8.4	14
92	Evidence of a Direct Effect of Myocardial Steatosis on LV Hypertrophy and Diastolic Dysfunction in Adult and Adolescent Obesity. <i>JACC: Cardiovascular Imaging</i> , 2015 , 8, 1468-1470	8.4	14
91	Reevaluation of the South Asian Intronic Deletion in Hypertrophic Cardiomyopathy. <i>Circulation Genomic and Precision Medicine</i> , 2020 , 13, e002783	5.2	14
90	Cardiac dysfunction and peri-weaning mortality in malonyl-coenzyme A decarboxylase (MCD) knockout mice as a consequence of restricting substrate plasticity. <i>Journal of Molecular and Cellular Cardiology</i> , 2014 , 75, 76-87	5.8	14
89	Effect of CPAP on Cardiac Function in Minimally Symptomatic Patients with OSA: Results from a Subset of the MOSAIC Randomized Trial. <i>Journal of Clinical Sleep Medicine</i> , 2015 , 11, 967-73	3.1	14

88	Time course of contrast enhancement patterns after Gd-BOPTA in correlation to myocardial infarction and viability: a feasibility study. <i>Journal of Magnetic Resonance Imaging</i> , 2001 , 14, 789-94	5.6	14
87	Electrocardiogram phenotypes in hypertrophic cardiomyopathy caused by distinct mechanisms: apico-basal repolarization gradients vs. Purkinje-myocardial coupling abnormalities. <i>Europace</i> , 2018 , 20, iii102-iii112	3.9	14
86	Creatine kinase rate constant in the human heart measured with 3D-localization at 7 tesla. <i>Magnetic Resonance in Medicine</i> , 2017 , 78, 20-32	4.4	13
85	Cardiac magnetic resonance spectroscopy. <i>Current Cardiology Reports</i> , 2003 , 5, 75-82	4.2	13
84	Radiomics Signatures of Cardiovascular Risk Factors in Cardiac MRI: Results From the UK Biobank. <i>Frontiers in Cardiovascular Medicine</i> , 2020 , 7, 591368	5.4	13
83	Proteomic and metabolomic changes driven by elevating myocardial creatine suggest novel metabolic feedback mechanisms. <i>Amino Acids</i> , 2016 , 48, 1969-81	3.5	13
82	Temporal fluctuations of myocardia high-energy phosphate metabolite with the cardiac cycle. <i>Basic Research in Cardiology</i> , 2001 , 96, 553-6	11.8	12
81	The impact of menopausal hormone therapy (MHT) on cardiac structure and function: Insights from the UK Biobank imaging enhancement study. <i>PLoS ONE</i> , 2018 , 13, e0194015	3.7	12
80	Automated localization and quality control of the aorta in cine CMR can significantly accelerate processing of the UK Biobank population data. <i>PLoS ONE</i> , 2019 , 14, e0212272	3.7	12
79	Deep neural network ensemble for on-the-fly quality control-driven segmentation of cardiac MRI T1 mapping. <i>Medical Image Analysis</i> , 2021 , 71, 102029	15.4	12
78	Localized rest and stress human cardiac creatine kinase reaction kinetics at 3T. <i>NMR in Biomedicine</i> , 2019 , 32, e4085	4.4	11
77	Genetic studies of abdominal MRI data identify genes regulating hepcidin as major determinants of liver iron concentration. <i>Journal of Hepatology</i> , 2019 , 71, 594-602	13.4	10
76	Myocardial creatine levels do not influence response to acute oxidative stress in isolated perfused heart. <i>PLoS ONE</i> , 2014 , 9, e109021	3.7	10
75	The Effect of Blood Lipids on the Left Ventricle: A Mendelian Randomization Study. <i>Journal of the American College of Cardiology</i> , 2020 , 76, 2477-2488	15.1	10
74	Suppression of skeletal muscle signal using a crusher coil: A human cardiac (31) p-MR spectroscopy study at 7 tesla. <i>Magnetic Resonance in Medicine</i> , 2016 , 75, 962-72	4.4	10
73	Protective Effect of Creatine Elevation against Ischaemia Reperfusion Injury Is Retained in the Presence of Co-Morbidities and during Cardioplegia. <i>PLoS ONE</i> , 2016 , 11, e0146429	3.7	9
72	Energetic Basis for Exercise-Induced Pulmonary Congestion in Heart Failure With Preserved Ejection Fraction. <i>Circulation</i> , 2021 , 144, 1664-1678	16.7	9
71	Cardiovascular magnetic resonance imaging in the UK Biobank: a major international health research resource. <i>European Heart Journal Cardiovascular Imaging</i> , 2021 , 22, 251-258	4.1	9

70	Cardiac Energetics in Patients With Aortic Stenosis and Preserved Versus Reduced Ejection Fraction. <i>Circulation</i> , 2020 , 141, 1971-1985	16.7	8
69	Symptom Persistence Despite Improvement in Cardiopulmonary Health - Insights from longitudinal CMR, CPET and lung function testing post-COVID-19. <i>EClinicalMedicine</i> , 2021 , 41, 101159	11.3	8
68	Standardized image post-processing of cardiovascular magnetic resonance T1-mapping reduces variability and improves accuracy and consistency in myocardial tissue characterization. <i>International Journal of Cardiology</i> , 2020 , 298, 128-134	3.2	8
67	Super-Resolution of Cardiac MR Cine Imaging using Conditional GANs and Unsupervised Transfer Learning. <i>Medical Image Analysis</i> , 2021 , 71, 102037	15.4	8
66	Association of Preterm Birth With Myocardial Fibrosis and Diastolic Dysfunction in Young Adulthood. <i>Journal of the American College of Cardiology</i> , 2021 , 78, 683-692	15.1	8
65	Age-Dependent Decline in Cardiac Function in Guanidinoacetate--Methyltransferase Knockout Mice. <i>Frontiers in Physiology</i> , 2019 , 10, 1535	4.6	7
64	Pyruvate dehydrogenase as a therapeutic target for obesity cardiomyopathy. <i>Expert Opinion on Therapeutic Targets</i> , 2016 , 20, 755-66	6.4	7
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