

Stefan Neubauer

List of Publications by Year in descending order

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Version: 2024-02-01

231
papers

17,754
citations

18436

62
h-index

16605

123
g-index

242
all docs

242
docs citations

242
times ranked

19491
citing authors

#	ARTICLE	IF	CITATIONS
1	The Failing Heart – An Engine Out of Fuel. <i>New England Journal of Medicine</i> , 2007, 356, 1140-1151.	13.9	1,929
2	4D flow cardiovascular magnetic resonance consensus statement. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2015, 17, 72.	1.6	642
3	Myocardial Phosphocreatine-to-ATP Ratio Is a Predictor of Mortality in Patients With Dilated Cardiomyopathy. <i>Circulation</i> , 1997, 96, 2190-2196.	1.6	611
4	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</i> , 2018, 392, 929-939.	6.3	589
5	Detecting human coronary inflammation by imaging perivascular fat. <i>Science Translational Medicine</i> , 2017, 9, .	5.8	562
6	Abnormal Cardiac and Skeletal Muscle Energy Metabolism in Patients With Type 2 Diabetes. <i>Circulation</i> , 2003, 107, 3040-3046.	1.6	468
7	Automated cardiovascular magnetic resonance image analysis with fully convolutional networks. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2018, 20, 65.	1.6	468
8	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.	3.2	435
9	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.	5.2	394
10	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.	1.6	391
11	Nutritional Ketosis Alters Fuel Preference and Thereby Endurance Performance in Athletes. <i>Cell Metabolism</i> , 2016, 24, 256-268.	7.2	377
12	Multiparametric magnetic resonance for the non-invasive diagnosis of liver disease. <i>Journal of Hepatology</i> , 2014, 60, 69-77.	1.8	367
13	The UK Biobank imaging enhancement of 100,000 participants: rationale, data collection, management and future directions. <i>Nature Communications</i> , 2020, 11, 2624.	5.8	324
14	T1 Mapping for the Diagnosis of Acute Myocarditis Using CMR. <i>JACC: Cardiovascular Imaging</i> , 2013, 6, 1048-1058.	2.3	318
15	Long COVID: post-acute sequelae of COVID-19 with a cardiovascular focus. <i>European Heart Journal</i> , 2022, 43, 1157-1172.	1.0	297
16	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.	1.0	268
17	UK Biobank's cardiovascular magnetic resonance protocol. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2016, 18, 8.	1.6	254
18	Assessing Cardiac Metabolism. <i>Circulation Research</i> , 2016, 118, 1659-1701.	2.0	211

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19	Diagnostic accuracy of non-invasive tests for advanced fibrosis in patients with NAFLD: an individual patient data meta-analysis. <i>Gut</i> , 2022, 71, 1006-1019.	6.1	195
20	Relationship Between Left Ventricular Structural and Metabolic Remodeling in Type 2 Diabetes. <i>Diabetes</i> , 2016, 65, 44-52.	0.3	177
21	Beneficial Cardiovascular Effects of Bariatric Surgical and Dietary Weight Loss in Obesity. <i>Journal of the American College of Cardiology</i> , 2009, 54, 718-726.	1.2	176
22	Multiparametric magnetic resonance imaging predicts clinical outcomes in patients with chronic liver disease. <i>Journal of Hepatology</i> , 2016, 64, 308-315.	1.8	170
23	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.	1.2	165
24	Common genetic variants and modifiable risk factors underpin hypertrophic cardiomyopathy susceptibility and expressivity. <i>Nature Genetics</i> , 2021, 53, 135-142.	9.4	165
25	Diffuse Myocardial Fibrosis and Inflammation in Rheumatoid Arthritis. <i>JACC: Cardiovascular Imaging</i> , 2015, 8, 526-536.	2.3	164
26	Distinct Subgroups in Hypertrophic Cardiomyopathy in the NHLBI HCM Registry. <i>Journal of the American College of Cardiology</i> , 2019, 74, 2333-2345.	1.2	152
27	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.	1.8	149
28	Multiparametric magnetic resonance imaging for the assessment of non-alcoholic fatty liver disease severity. <i>Liver International</i> , 2017, 37, 1065-1073.	1.9	145
29	Noncontrast myocardial T_1 mapping using cardiovascular magnetic resonance for iron overload. <i>Journal of Magnetic Resonance Imaging</i> , 2015, 41, 1505-1511.	1.9	139
30	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.	1.2	139
31	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.	1.6	138
32	Determination of Clinical Outcome in Mitral Regurgitation With Cardiovascular Magnetic Resonance Quantification. <i>Circulation</i> , 2016, 133, 2287-2296.	1.6	137
33	Cardiac energetics, oxygenation, and perfusion during increased workload in patients with type 2 diabetes mellitus. <i>European Heart Journal</i> , 2016, 37, 3461-3469.	1.0	124
34	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.	1.8	124
35	Effect of Selective Heart Rate Slowing in Heart Failure With Preserved Ejection Fraction. <i>Circulation</i> , 2015, 132, 1719-1725.	1.6	119
36	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.	2.3	118

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37	Effects of Catecholamine Stress on Diastolic Function and Myocardial Energetics in Obesity. <i>Circulation</i> , 2012, 125, 1511-1519.	1.6	117
38	Myocardial Tissue Characterization and Fibrosis by Imaging. <i>JACC: Cardiovascular Imaging</i> , 2020, 13, 1221-1234.	2.3	111
39	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, 4425-4433.	1.8	108
40	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.	3.8	105
41	Noninvasive In Vivo Assessment of Cardiac Metabolism in the Healthy and Diabetic Human Heart Using Hyperpolarized ¹³ C MRI. <i>Circulation Research</i> , 2020, 126, 725-736.	2.0	105
42	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, 834-841.	0.5	101
43	A population-based phenome-wide association study of cardiac and aortic structure and function. <i>Nature Medicine</i> , 2020, 26, 1654-1662.	15.2	98
44	Physiological Stress Elicits Impaired Left Ventricular Function in Preterm-Born Adults. <i>Journal of the American College of Cardiology</i> , 2018, 71, 1347-1356.	1.2	96
45	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, 2151-2159.	1.1	95
46	Progression of myocardial fibrosis in hypertrophic cardiomyopathy: mechanisms and clinical implications. <i>European Heart Journal Cardiovascular Imaging</i> , 2019, 20, 157-167.	0.5	92
47	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, 1923-1934.	1.0	88
48	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.	1.3	88
49	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.	1.2	88
50	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.	3.2	87
51	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.	1.8	83
52	Splenic T1-mapping: a novel quantitative method for assessing adenosine stress adequacy for cardiovascular magnetic resonance. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2016, 19, 1.	1.6	81
53	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.	1.6	78
54	Long-term cerebral white and gray matter changes after preeclampsia. <i>Neurology</i> , 2017, 88, 1256-1264.	1.5	77

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55	Improving the Generalizability of Convolutional Neural Network-Based Segmentation on CMR Images. <i>Frontiers in Cardiovascular Medicine</i> , 2020, 7, 105.	1.1	74
56	Breast Milk Consumption in Preterm Neonates and Cardiac Shape in Adulthood. <i>Pediatrics</i> , 2016, 138, .	1.0	72
57	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.	1.0	72
58	Serial cine-magnetic resonance imaging of left ventricular remodeling after myocardial infarction in rats. <i>Journal of Magnetic Resonance Imaging</i> , 2001, 14, 547-555.	1.9	71
59	CMR Native T1 Mapping Allows Differentiation of Reversible Versus Irreversible Myocardial Damage in ST-Segmentâ€Elevation Myocardial Infarction. <i>Circulation: Cardiovascular Imaging</i> , 2017, 10, .	1.3	71
60	Lone Atrial Fibrillation Is Associated With Impaired Left Ventricular Energetics That Persists Despite Successful Catheter Ablation. <i>Circulation</i> , 2016, 134, 1068-1081.	1.6	70
61	Association Between Ambient Air Pollution and Cardiac Morpho-Functional Phenotypes. <i>Circulation</i> , 2018, 138, 2175-2186.	1.6	70
62	Metabolic remodeling in hypertrophied and failing myocardium: a review. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2017, 313, H597-H616.	1.5	68
63	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, 1971-1980.	1.0	64
64	A model for hepatic fibrosis: the competing effects of cell loss and iron on shortened modified Look-Locker inversion recovery<i>T</i>₁</i> (shMOLLI-<i>T</i>₁) in the liver. <i>Journal of Magnetic Resonance Imaging</i> , 2017, 45, 450-462.	1.9	64
65	Noninvasive Immunometabolic Cardiac Inflammation Imaging Using Hyperpolarized Magnetic Resonance. <i>Circulation Research</i> , 2018, 122, 1084-1093.	2.0	64
66	Beyond Bernoulli. <i>Circulation: Cardiovascular Imaging</i> , 2017, 10, .	1.3	60
67	Measurement of myocardial native T1 in cardiovascular diseases and norm in 1291 subjects. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2016, 19, 74.	1.6	60
68	Perivascular Fat Attenuation Index Stratifies Cardiac Risk Associated With High-Risk Plaques in theâ€CRISP-CT Study. <i>Journal of the American College of Cardiology</i> , 2020, 76, 755-757.	1.2	59
69	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.	1.2	59
70	Anti-TNF modulation reduces myocardial inflammation and improves cardiovascular function in systemic rheumatic diseases. <i>International Journal of Cardiology</i> , 2018, 270, 253-259.	0.8	58
71	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.	1.0	58
72	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> , 2016, 19, 81.	1.6	57

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73	Distinct ECG Phenotypes Identified in Hypertrophic Cardiomyopathy Using Machine Learning Associate With Arrhythmic Risk Markers. <i>Frontiers in Physiology</i> , 2018, 9, 213.	1.3	57
74	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.	1.6	55
75	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.	1.1	55
76	On the pivotal role of PPAR α in adaptation of the heart to hypoxia and why fat in the diet increases hypoxic injury. <i>FASEB Journal</i> , 2016, 30, 2684-2697.	0.2	54
77	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.	1.0	53
78	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.	1.9	52
79	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.	1.1	52
80	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.	1.6	51
81	Interobserver Variability in Histologic Evaluation of Liver Fibrosis Using Categorical and Quantitative Scores. <i>American Journal of Clinical Pathology</i> , 2017, 147, 364-369.	0.4	49
82	Myocardial Energetics in Obesity. <i>Circulation</i> , 2020, 141, 1152-1163.	1.6	49
83	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.	7.0	49
84	Pirfenidone in Heart Failure with Preserved Ejection Fractionâ€”Rationale and Design of the PIROUETTE Trial. <i>Cardiovascular Drugs and Therapy</i> , 2019, 33, 461-470.	1.3	48
85	Energetic Basis for Exercise-Induced Pulmonary Congestion in Heart Failure With Preserved Ejection Fraction. <i>Circulation</i> , 2021, 144, 1664-1678.	1.6	48
86	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.	1.6	47
87	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.	0.7	46
88	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, 605-612.	1.2	44
89	Assessment of Metformin-Induced Changes in Cardiac and Hepatic Redox State Using Hyperpolarized[1-13C]Pyruvate. <i>Diabetes</i> , 2016, 65, 3544-3551.	0.3	43
90	Changes in Cardiac Morphology and Function in Individuals With Diabetes Mellitus. <i>Circulation: Cardiovascular Imaging</i> , 2019, 12, e009476.	1.3	43

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91	Independent Left Ventricular Morphometric Atlases Show Consistent Relationships with Cardiovascular Risk Factors: A UK Biobank Study. <i>Scientific Reports</i> , 2019, 9, 1130.	1.6	43
92	State-of-the-art review: stress T1 mappingâ€”technical considerations, pitfalls and emerging clinical applications. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2018, 31, 131-141.	1.1	42
93	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.	7.0	42
94	The Importance of the Fatty Acid Transporter L-Carnitine in Non-Alcoholic Fatty Liver Disease (NAFLD). <i>Nutrients</i> , 2020, 12, 2178.	1.7	42
95	Optimization of ECG-triggered 3D ²³ Na MRI of the human heart. <i>Magnetic Resonance in Medicine</i> , 2001, 45, 164-166.	1.9	41
96	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.	7.0	41
97	Left Ventricular Flow Analysis. <i>Circulation: Cardiovascular Imaging</i> , 2019, 12, e008130.	1.3	41
98	Dietary Supplementation with Homoarginine Preserves Cardiac Function in a Murine Model of Post-Myocardial Infarction Heart Failure. <i>Circulation</i> , 2017, 135, 400-402.	1.6	40
99	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.	1.6	37
100	Prospective association between handgrip strength and cardiac structure and function in UK adults. <i>PLoS ONE</i> , 2018, 13, e0193124.	1.1	37
101	Prognostic value of multiparametric magnetic resonance imaging, transient elastography and bloodâ€”based fibrosis markers in patients with chronic liver disease. <i>Liver International</i> , 2020, 40, 3071-3082.	1.9	37
102	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.	1.6	35
103	Measuring inorganic phosphate and intracellular pH in the healthy and hypertrophic cardiomyopathy hearts by in vivo 7T ³¹ P-cardiovascular magnetic resonance spectroscopy. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2019, 21, 19.	1.6	35
104	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.	1.2	34
105	Over-expression of mitochondrial creatine kinase in the murine heart improves functional recovery and protects against injury following ischaemiaâ€”reperfusion. <i>Cardiovascular Research</i> , 2018, 114, 858-869.	1.8	33
106	Super-Resolution of Cardiac MR Cine Imaging using Conditional GANs and Unsupervised Transfer Learning. <i>Medical Image Analysis</i> , 2021, 71, 102037.	7.0	33
107	Radiomics Signatures of Cardiovascular Risk Factors in Cardiac MRI: Results From the UK Biobank. <i>Frontiers in Cardiovascular Medicine</i> , 2020, 7, 591368.	1.1	32
108	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.	0.5	32

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109	No Evidence of Myocardial Oxygen Deprivation in Nonischemic Heart Failure. <i>Circulation: Heart Failure</i> , 2015, 8, 1088-1093.	1.6	31
110	Dilated Cardiomyopathy: Phosphorus 31 MR Spectroscopy at 7 T. <i>Radiology</i> , 2016, 281, 409-417.	3.6	31
111	Reevaluation of the South Asian <i>MYBPC3</i> Intronic Deletion in Hypertrophic Cardiomyopathy. <i>Circulation Genomic and Precision Medicine</i> , 2020, 13, e002783.	1.6	31
112	HIV is an independent predictor of aortic stiffness. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2014, 16, 57.	1.6	30
113	High-energy phosphotransfer in the failing mouse heart: role of adenylate kinase and glycolytic enzymes. <i>European Journal of Heart Failure</i> , 2010, 12, 1282-1289.	2.9	29
114	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.	0.7	29
115	Rationale and design of a multicentre, randomized, placebo-controlled trial of mirabegron, a β_3 -adrenergic receptor agonist on left ventricular mass and diastolic function in patients with structural heart disease β_3 -left ventricular hypertrophy (β_3 -LVH). <i>ESC Heart Failure</i> , 2018, 5, 830-841.	1.4	29
116	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.	0.9	29
117	Overexpression of mitochondrial creatine kinase preserves cardiac energetics without ameliorating murine chronic heart failure. <i>Basic Research in Cardiology</i> , 2020, 115, 12.	2.5	29
118	Improvements in ECG accuracy for diagnosis of left ventricular hypertrophy in obesity. <i>Heart</i> , 2016, 102, 1566-1572.	1.2	27
119	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.	0.8	27
120	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.	1.1	27
121	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.	1.6	26
122	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.	1.1	26
123	The Effect of Blood Lipids on the Left Ventricle. <i>Journal of the American College of Cardiology</i> , 2020, 76, 2477-2488.	1.2	26
124	Standardized measurement of coronary inflammation using cardiovascular computed tomography: integration in clinical care as a prognostic medical device. <i>Cardiovascular Research</i> , 2021, 117, 2677-2690.	1.8	26
125	Fairness in Cardiac Magnetic Resonance Imaging: Assessing Sex and Racial Bias in Deep Learning-Based Segmentation. <i>Frontiers in Cardiovascular Medicine</i> , 2022, 9, 859310.	1.1	26
126	Acute Microvascular Impairment Post-Reperused STEMI Is Reversible and Has Additional Clinical Predictive Value. <i>JACC: Cardiovascular Imaging</i> , 2019, 12, 1783-1793.	2.3	25

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127	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.	2.5	24
128	Left atrial structure and function are associated with cardiovascular outcomes independent of left ventricular measures: a UK Biobank CMR study. <i>European Heart Journal Cardiovascular Imaging</i> , 2022, 23, 1191-1200.	0.5	24
129	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.	2.3	23
130	Hyperpolarised magnetic resonance for in vivo real-time metabolic imaging. <i>Heart</i> , 2018, 104, 1484-1491.	1.2	23
131	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.	1.8	23
132	Increasing creatine kinase activity protects against hypoxia / reoxygenation injury but not against anthracycline toxicity in vitro. <i>PLoS ONE</i> , 2017, 12, e0182994.	1.1	22
133	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, 967-973.	1.4	21
134	Quality assurance of quantitative cardiac T1-mapping in multicenter clinical trials – A T1 phantom program from the hypertrophic cardiomyopathy registry (HCMR) study. <i>International Journal of Cardiology</i> , 2021, 330, 251-258.	0.8	21
135	Cardiovascular magnetic resonance reference values of mitral and tricuspid annular dimensions: the UK Biobank cohort. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2021, 23, 5.	1.6	21
136	Investigating a Liver Fat. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2016, 36, 198-203.	1.1	20
137	Light to moderate coffee consumption is associated with lower risk of death: a UK Biobank study. <i>European Journal of Preventive Cardiology</i> , 2022, 29, 982-991.	0.8	20
138	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.	1.1	19
139	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.	0.9	18
140	Obese Subjects Show Sex-Specific Differences in Right Ventricular Hypertrophy. <i>Circulation: Cardiovascular Imaging</i> , 2015, 8, .	1.3	18
141	Design and rationale of the EMPA-€VISION trial: investigating the metabolic effects of empagliflozin in patients with heart failure. <i>ESC Heart Failure</i> , 2021, 8, 2580-2590.	1.4	18
142	Maximal Wall Thickness Measurement in Hypertrophic Cardiomyopathy. <i>JACC: Cardiovascular Imaging</i> , 2021, 14, 2123-2134.	2.3	18
143	Cardiac Energetics in Patients With Aortic Stenosis and Preserved Versus Reduced Ejection Fraction. <i>Circulation</i> , 2020, 141, 1971-1985.	1.6	18
144	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, 789-794.	1.9	17

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145	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.	1.9	17
146	Cardiovascular magnetic resonance characterization of myocardial and vascular function in rheumatoid arthritis patients. <i>Hellenic Journal of Cardiology</i> , 2019, 60, 28-35.	0.4	17
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