Stefan Neubauer

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/1924921/publications.pdf Version: 2024-02-01

		18482	16650
231	17,754	62	123
papers	citations	h-index	g-index
242	242	242	19491
all docs	docs citations	times ranked	citing authors

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#	Article	IF	CITATIONS
1	The Failing Heart — An Engine Out of Fuel. New England Journal of Medicine, 2007, 356, 1140-1151.	27.0	1,929
2	4D flow cardiovascular magnetic resonance consensus statement. Journal of Cardiovascular Magnetic Resonance, 2015, 17, 72.	3.3	642
3	Myocardial Phosphocreatine-to-ATP Ratio Is a Predictor of Mortality in Patients With Dilated Cardiomyopathy. Circulation, 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. Lancet, The, 2018, 392, 929-939.	13.7	589
5	Detecting human coronary inflammation by imaging perivascular fat. Science Translational Medicine, 2017, 9, .	12.4	562
6	Abnormal Cardiac and Skeletal Muscle Energy Metabolism in Patients With Type 2 Diabetes. Circulation, 2003, 107, 3040-3046.	1.6	468
7	Automated cardiovascular magnetic resonance image analysis with fully convolutional networks. Journal of Cardiovascular Magnetic Resonance, 2018, 20, 65.	3.3	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. EClinicalMedicine, 2021, 31, 100683.	7.1	435
9	Physical, cognitive, and mental health impacts of COVID-19 after hospitalisation (PHOSP-COVID): a UK multicentre, prospective cohort study. Lancet Respiratory Medicine,the, 2021, 9, 1275-1287.	10.7	394
10	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.	3.3	391
11	Nutritional Ketosis Alters Fuel Preference and Thereby Endurance Performance in Athletes. Cell Metabolism, 2016, 24, 256-268.	16.2	377
12	Multiparametric magnetic resonance for the non-invasive diagnosis of liver disease. Journal of Hepatology, 2014, 60, 69-77.	3.7	367
13	The UK Biobank imaging enhancement of 100,000 participants: rationale, data collection, management and future directions. Nature Communications, 2020, 11, 2624.	12.8	324
14	T1 Mapping for the Diagnosis of Acute Myocarditis Using CMR. JACC: Cardiovascular Imaging, 2013, 6, 1048-1058.	5.3	318
15	Long COVID: post-acute sequelae of COVID-19 with a cardiovascular focus. European Heart Journal, 2022, 43, 1157-1172.	2.2	297
16	A novel machine learning-derived radiotranscriptomic signature of perivascular fat improves cardiac risk prediction using coronary CT angiography. European Heart Journal, 2019, 40, 3529-3543.	2.2	268
17	UK Biobank's cardiovascular magnetic resonance protocol. Journal of Cardiovascular Magnetic Resonance, 2016, 18, 8.	3.3	254
18	Assessing Cardiac Metabolism. Circulation Research, 2016, 118, 1659-1701.	4.5	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. Gut, 2022, 71, 1006-1019.	12.1	195
20	Relationship Between Left Ventricular Structural and Metabolic Remodeling in Type 2 Diabetes. Diabetes, 2016, 65, 44-52.	0.6	177
21	Beneficial Cardiovascular Effects of Bariatric Surgical and Dietary Weight Loss in Obesity. Journal of the American College of Cardiology, 2009, 54, 718-726.	2.8	176
22	Multiparametric magnetic resonance imaging predicts clinical outcomes in patients with chronic liver disease. Journal of Hepatology, 2016, 64, 308-315.	3.7	170
23	Ectopic and Visceral Fat Deposition inÂLean and Obese Patients With TypeÂ2ÂDiabetes. Journal of the American College of Cardiology, 2016, 68, 53-63.	2.8	165
24	Common genetic variants and modifiable risk factors underpin hypertrophic cardiomyopathy susceptibility and expressivity. Nature Genetics, 2021, 53, 135-142.	21.4	165
25	Diffuse Myocardial Fibrosis and Inflammation in Rheumatoid Arthritis. JACC: Cardiovascular Imaging, 2015, 8, 526-536.	5.3	164
26	Distinct Subgroups in Hypertrophic Cardiomyopathy in the NHLBI HCM Registry. Journal of the American College of Cardiology, 2019, 74, 2333-2345.	2.8	152
27	Diagnostic accuracy of elastography and magnetic resonance imaging in patients with NAFLD: A systematic review and meta-analysis. Journal of Hepatology, 2021, 75, 770-785.	3.7	149
28	Multiparametric magnetic resonance imaging for the assessment of nonâ€alcoholic fatty liver disease severity. Liver International, 2017, 37, 1065-1073.	3.9	145
29	Noncontrast myocardial <i>T</i> ₁ mapping using cardiovascular magnetic resonance for iron overload. Journal of Magnetic Resonance Imaging, 2015, 41, 1505-1511.	3.4	139
30	Pheochromocytoma Is Characterized byÂCatecholamine-Mediated Myocarditis, Focal and Diffuse Myocardial Fibrosis, andÂMyocardial Dysfunction. Journal of the American College of Cardiology, 2016, 67, 2364-2374.	2.8	139
31	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
32	Determination of Clinical Outcome in Mitral Regurgitation With Cardiovascular Magnetic Resonance Quantification. Circulation, 2016, 133, 2287-2296.	1.6	137
33	Cardiac energetics, oxygenation, and perfusion during increased workload in patients with type 2 diabetes mellitus. European Heart Journal, 2016, 37, 3461-3469.	2.2	124
34	Prospective evaluation of the prevalence of non-alcoholic fatty liver disease and steatohepatitis in a large middle-aged US cohort. Journal of Hepatology, 2021, 75, 284-291.	3.7	124
35	Effect of Selective Heart Rate Slowing in Heart Failure With Preserved Ejection Fraction. Circulation, 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. JACC: Cardiovascular Imaging, 2016, 9, 27-36.	5.3	118

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37	Effects of Catecholamine Stress on Diastolic Function and Myocardial Energetics in Obesity. Circulation, 2012, 125, 1511-1519.	1.6	117
38	Myocardial Tissue Characterization and Fibrosis by Imaging. JACC: Cardiovascular Imaging, 2020, 13, 1221-1234.	5.3	111
39	Sex-Specific Differences in Hepatic Fat Oxidation and Synthesis May Explain the Higher Propensity for NAFLD in Men. Journal of Clinical Endocrinology and Metabolism, 2015, 100, 4425-4433.	3.6	108
40	Association of Cardiovascular Risk Factors With MRI Indices of Cerebrovascular Structure and Function and White Matter Hyperintensities in Young Adults. JAMA - Journal of the American Medical Association, 2018, 320, 665.	7.4	105
41	Noninvasive In Vivo Assessment of Cardiac Metabolism in the Healthy and Diabetic Human Heart Using Hyperpolarized ¹³ C MRI. Circulation Research, 2020, 126, 725-736.	4.5	105
42	A prospective, double-blind, randomized controlled trial of the angiotensin-converting enzyme inhibitor Ramipril In Aortic Stenosis (RIAS trial). European Heart Journal Cardiovascular Imaging, 2015, 16, 834-841.	1.2	101
43	A population-based phenome-wide association study of cardiac and aortic structure and function. Nature Medicine, 2020, 26, 1654-1662.	30.7	98
44	Physiological Stress Elicits ImpairedÂLeftÂVentricular Function inÂPreterm-Born Adults. Journal of the American College of Cardiology, 2018, 71, 1347-1356.	2.8	96
45	Reciprocal Effects of Systemic Inflammation and Brain Natriuretic Peptide on Adiponectin Biosynthesis in Adipose Tissue of Patients With Ischemic Heart Disease. Arteriosclerosis, Thrombosis, and Vascular Biology, 2014, 34, 2151-2159.	2.4	95
46	Progression of myocardial fibrosis in hypertrophic cardiomyopathy: mechanisms and clinical implications. European Heart Journal Cardiovascular Imaging, 2019, 20, 157-167.	1.2	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. European Heart Journal, 2015, 36, 1923-1934.	2.2	88
48	HIV-1–Related Cardiovascular Disease Is Associated With Chronic Inflammation, Frequent Pericardial Effusions, and Probable Myocardial Edema. Circulation: Cardiovascular Imaging, 2016, 9, e004430.	2.6	88
49	Identification of Myocardial Disarray inÂPatients With HypertrophicÂCardiomyopathy and Ventricular Arrhythmias. Journal of the American College of Cardiology, 2019, 73, 2493-2502.	2.8	88
50	Symptom Persistence Despite Improvement in Cardiopulmonary Health – Insights from longitudinal CMR, CPET and lung function testing post-COVID-19. EClinicalMedicine, 2021, 41, 101159.	7.1	87
51	Genome-wide and Mendelian randomisation studies of liver MRI yield insights into the pathogenesis of steatohepatitis. Journal of Hepatology, 2020, 73, 241-251.	3.7	83
52	Splenic T1-mapping: a novel quantitative method for assessing adenosine stress adequacy for cardiovascular magnetic resonance. Journal of Cardiovascular Magnetic Resonance, 2016, 19, 1.	3.3	81
53	Automated quality control in image segmentation: application to the UK Biobank cardiovascular magnetic resonance imaging study. Journal of Cardiovascular Magnetic Resonance, 2019, 21, 18.	3.3	78
54	Long-term cerebral white and gray matter changes after preeclampsia. Neurology, 2017, 88, 1256-1264.	1.1	77

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55	Improving the Generalizability of Convolutional Neural Network-Based Segmentation on CMR Images. Frontiers in Cardiovascular Medicine, 2020, 7, 105.	2.4	74
56	Breast Milk Consumption in Preterm Neonates and Cardiac Shape in Adulthood. Pediatrics, 2016, 138, .	2.1	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. European Heart Journal, 2017, 38, 1222-1229.	2.2	72
58	Serial cine-magnetic resonance imaging of left ventricular remodeling after myocardial infarction in rats. Journal of Magnetic Resonance Imaging, 2001, 14, 547-555.	3.4	71
59	CMR Native T1 Mapping Allows Differentiation of Reversible Versus Irreversible Myocardial Damage in ST-Segment–Elevation Myocardial Infarction. Circulation: Cardiovascular Imaging, 2017, 10, .	2.6	71
60	Lone Atrial Fibrillation Is Associated With Impaired Left Ventricular Energetics That Persists Despite Successful Catheter Ablation. Circulation, 2016, 134, 1068-1081.	1.6	70
61	Association Between Ambient Air Pollution and Cardiac Morpho-Functional Phenotypes. Circulation, 2018, 138, 2175-2186.	1.6	70
62	Metabolic remodeling in hypertrophied and failing myocardium: a review. American Journal of Physiology - Heart and Circulatory Physiology, 2017, 313, H597-H616.	3.2	68
63	Early change in invasive measures of microvascular function can predict myocardial recovery following PCI for ST-elevation myocardial infarction. European Heart Journal, 2014, 35, 1971-1980.	2.2	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 (shMOLLI- <i>T</i> ₁) in the liver. Journal of Magnetic Resonance Imaging, 2017, 45, 450-462.	3.4	64
65	Noninvasive Immunometabolic Cardiac Inflammation Imaging Using Hyperpolarized Magnetic Resonance. Circulation Research, 2018, 122, 1084-1093.	4.5	64
66	Beyond Bernoulli. Circulation: Cardiovascular Imaging, 2017, 10, .	2.6	60
67	Measurement of myocardial native T1 in cardiovascular diseases and norm in 1291 subjects. Journal of Cardiovascular Magnetic Resonance, 2016, 19, 74.	3.3	60
68	Perivascular Fat Attenuation Index Stratifies Cardiac Risk Associated With High-Risk Plaques in the American College of Cardiology, 2020, 76, 755-757.	2.8	59
69	Fat-Secreted Ceramides Regulate Vascular Redox State and Influence Outcomes in Patients With Cardiovascular Disease. Journal of the American College of Cardiology, 2021, 77, 2494-2513.	2.8	59
70	Anti-TNF modulation reduces myocardial inflammation and improves cardiovascular function in systemic rheumatic diseases. International Journal of Cardiology, 2018, 270, 253-259.	1.7	58
71	Neuropeptide-Y causes coronary microvascular constriction and is associated with reduced ejection fraction following ST-elevation myocardial infarction. European Heart Journal, 2019, 40, 1920-1929.	2.2	58
72	Adenosine stress CMR T1-mapping detects early microvascular dysfunction in patients with type 2 diabetes mellitus without obstructive coronary artery disease. Journal of Cardiovascular Magnetic Resonance, 2016, 19, 81.	3.3	57

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73	Distinct ECG Phenotypes Identified in Hypertrophic Cardiomyopathy Using Machine Learning Associate With Arrhythmic Risk Markers. Frontiers in Physiology, 2018, 9, 213.	2.8	57
74	Systolic ShMOLLI myocardial T1-mapping for improved robustness to partial-volume effects and applications in tachyarrhythmias. Journal of Cardiovascular Magnetic Resonance, 2015, 17, 77.	3.3	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. PLoS ONE, 2018, 13, e0203054.	2.5	55
76	On the pivotal role of PPARa in adaptation of the heart to hypoxia and why fat in the diet increases hypoxic injury. FASEB Journal, 2016, 30, 2684-2697.	0.5	54
77	The cardiac sympathetic co-transmitter neuropeptide Y is pro-arrhythmic following ST-elevation myocardial infarction despite beta-blockade. European Heart Journal, 2020, 41, 2168-2179.	2.2	53
78	MECHANISMS IN ENDOCRINOLOGY: Diabetic cardiomyopathy: pathophysiology and potential metabolic interventions state of the art review. European Journal of Endocrinology, 2018, 178, R127-R139.	3.7	52
79	The impact of cardiovascular risk factors on cardiac structure and function: Insights from the UK Biobank imaging enhancement study. PLoS ONE, 2017, 12, e0185114.	2.5	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. Journal of Cardiovascular Magnetic Resonance, 2018, 20, 88.	3.3	51
81	Interobserver Variability in Histologic Evaluation of Liver Fibrosis Using Categorical and Quantitative Scores. American Journal of Clinical Pathology, 2017, 147, 364-369.	0.7	49
82	Myocardial Energetics in Obesity. Circulation, 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. Medical Image Analysis, 2021, 71, 102029.	11.6	49
84	Pirfenidone in Heart Failure with Preserved Ejection Fraction—Rationale and Design of the PIROUETTE Trial. Cardiovascular Drugs and Therapy, 2019, 33, 461-470.	2.6	48
85	Energetic Basis for Exercise-Induced Pulmonary Congestion in Heart Failure With Preserved Ejection Fraction. Circulation, 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. Journal of Cardiovascular Magnetic Resonance, 2019, 21, 41.	3.3	47
87	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.	1.5	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. American Heart Journal, 2015, 169, 605-612.	2.7	44
89	Assessment of Metformin-Induced Changes in Cardiac and Hepatic Redox State Using Hyperpolarized[1-13C]Pyruvate. Diabetes, 2016, 65, 3544-3551.	0.6	43
90	Changes in Cardiac Morphology and Function in Individuals With Diabetes Mellitus. Circulation: Cardiovascular Imaging, 2019, 12, e009476.	2.6	43

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91	Independent Left Ventricular Morphometric Atlases Show Consistent Relationships with Cardiovascular Risk Factors: A UK Biobank Study. Scientific Reports, 2019, 9, 1130.	3.3	43
92	State-of-the-art review: stress T1 mapping—technical considerations, pitfalls and emerging clinical applications. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2018, 31, 131-141.	2.0	42
93	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.	11.6	42
94	The Importance of the Fatty Acid Transporter L-Carnitine in Non-Alcoholic Fatty Liver Disease (NAFLD). Nutrients, 2020, 12, 2178.	4.1	42
95	Optimization of ECG-triggered 3D23Na MRI of the human heart. Magnetic Resonance in Medicine, 2001, 45, 164-166.	3.0	41
96	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.	11.6	41
97	Left Ventricular Flow Analysis. Circulation: Cardiovascular Imaging, 2019, 12, e008130.	2.6	41
98	Dietary Supplementation with Homoarginine Preserves Cardiac Function in a Murine Model of Post-Myocardial Infarction Heart Failure. Circulation, 2017, 135, 400-402.	1.6	40
99	Differential flow improvements after valve replacements in bicuspid aortic valve disease: a cardiovascular magnetic resonance assessment. Journal of Cardiovascular Magnetic Resonance, 2018, 20, 10.	3.3	37
100	Prospective association between handgrip strength and cardiac structure and function in UK adults. PLoS ONE, 2018, 13, e0193124.	2.5	37
101	Prognostic value of multiparametric magnetic resonance imaging, transient elastography and bloodâ€based fibrosis markers in patients with chronic liver disease. Liver International, 2020, 40, 3071-3082.	3.9	37
102	Test-retest variability of left ventricular 4D flow cardiovascular magnetic resonance measurements in healthy subjects. Journal of Cardiovascular Magnetic Resonance, 2018, 20, 15.	3.3	35
103	Measuring inorganic phosphate and intracellular pH in the healthy and hypertrophic cardiomyopathy hearts by in vivo 7T 31P-cardiovascular magnetic resonance spectroscopy. Journal of Cardiovascular Magnetic Resonance, 2019, 21, 19.	3.3	35
104	Association of Preterm Birth With Myocardial Fibrosis and Diastolic Dysfunction in Young Adulthood. Journal of the American College of Cardiology, 2021, 78, 683-692.	2.8	34
105	Over-expression of mitochondrial creatine kinase in the murine heart improves functional recovery and protects against injury following ischaemia–reperfusion. Cardiovascular Research, 2018, 114, 858-869.	3.8	33
106	Super-Resolution of Cardiac MR Cine Imaging using Conditional GANs and Unsupervised Transfer Learning. Medical Image Analysis, 2021, 71, 102037.	11.6	33
107	Radiomics Signatures of Cardiovascular Risk Factors in Cardiac MRI: Results From the UK Biobank. Frontiers in Cardiovascular Medicine, 2020, 7, 591368.	2.4	32
108	Cardiovascular magnetic resonance imaging in the UK Biobank: a major international health research resource. European Heart Journal Cardiovascular Imaging, 2021, 22, 251-258.	1.2	32

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109	No Evidence of Myocardial Oxygen Deprivation in Nonischemic Heart Failure. Circulation: Heart Failure, 2015, 8, 1088-1093.	3.9	31
110	Dilated Cardiomyopathy: Phosphorus 31 MR Spectroscopy at 7 T. Radiology, 2016, 281, 409-417.	7.3	31
111	Reevaluation of the South Asian <i>MYBPC3</i> ^{î"25bp} Intronic Deletion in Hypertrophic Cardiomyopathy. Circulation Genomic and Precision Medicine, 2020, 13, e002783.	3.6	31
112	HIV is an independent predictor of aortic stiffness. Journal of Cardiovascular Magnetic Resonance, 2014, 16, 57.	3.3	30
113	Highâ€energy phosphotransfer in the failing mouse heart: role of adenylate kinase and glycolytic enzymes. European Journal of Heart Failure, 2010, 12, 1282-1289.	7.1	29
114	Electrocardiogram phenotypes in hypertrophic cardiomyopathy caused by distinct mechanisms: apico-basal repolarization gradients vs. Purkinje-myocardial coupling abnormalities. Europace, 2018, 20, iii102-iii112.	1.7	29
115	Rationale and design of a multicentre, randomized, placeboâ€controlled trial of mirabegron, a Beta3â€adrenergic receptor agonist on left ventricular mass and diastolic function in patients with structural heart disease Beta3â€left ventricular hypertrophy (Beta3â€LVH). ESC Heart Failure, 2018, 5, 830-841.	3.1	29
116	Fully Automated Myocardial Strain Estimation from Cardiovascular MRI–tagged Images Using a Deep Learning Framework in the UK Biobank. Radiology: Cardiothoracic Imaging, 2020, 2, e190032.	2.5	29
117	Overexpression of mitochondrial creatine kinase preserves cardiac energetics without ameliorating murine chronic heart failure. Basic Research in Cardiology, 2020, 115, 12.	5.9	29
118	Improvements in ECG accuracy for diagnosis of left ventricular hypertrophy in obesity. Heart, 2016, 102, 1566-1572.	2.9	27
119	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.	1.8	27
120	Non-invasive assessment of portal hypertension by multi-parametric magnetic resonance imaging of the spleen: A proof of concept study. PLoS ONE, 2019, 14, e0221066.	2.5	27
121	Myocardial Perfusion Is Impaired and Relates to Cardiac Dysfunction in Patients With Atrial Fibrillation Both Before and After Successful Catheter Ablation. Journal of the American Heart Association, 2018, 7, e009218.	3.7	26
122	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.	2.5	26
123	The Effect of Blood Lipids on the LeftÂVentricle. Journal of the American College of Cardiology, 2020, 76, 2477-2488.	2.8	26
124	Standardized measurement of coronary inflammation using cardiovascular computed tomography: integration in clinical care as a prognostic medical device. Cardiovascular Research, 2021, 117, 2677-2690.	3.8	26
125	Fairness in Cardiac Magnetic Resonance Imaging: Assessing Sex and Racial Bias in Deep Learning-Based Segmentation. Frontiers in Cardiovascular Medicine, 2022, 9, 859310.	2.4	26
126	Acute Microvascular Impairment Post-Reperfused STEMI Is Reversible and Has Additional Clinical Predictive Value. JACC: Cardiovascular Imaging, 2019, 12, 1783-1793.	5.3	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. Basic Research in Cardiology, 2012, 107, 276.	5.9	24
128	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.	1.2	24
129	Evidence of a Direct Effect of Myocardial Steatosis on LV Hypertrophy and Diastolic Dysfunction in Adult and Adolescent Obesity. JACC: Cardiovascular Imaging, 2015, 8, 1468-1470.	5.3	23
130	Hyperpolarised magnetic resonance for in vivo real-time metabolic imaging. Heart, 2018, 104, 1484-1491.	2.9	23
131	Genetic studies of abdominal MRI data identify genes regulating hepcidin as major determinants of liver iron concentration. Journal of Hepatology, 2019, 71, 594-602.	3.7	23
132	Increasing creatine kinase activity protects against hypoxia / reoxygenation injury but not against anthracycline toxicity in vitro. PLoS ONE, 2017, 12, e0182994.	2.5	22
133	Effect of CPAP on Cardiac Function in Minimally Symptomatic Patients with OSA: Results from a Subset of the MOSAIC Randomized Trial. Journal of Clinical Sleep Medicine, 2015, 11, 967-973.	2.6	21
134	Quality assurance of quantitative cardiac T1-mapping in multicenter clinical trials – A T1 phantom program from the hypertrophic cardiomyopathy registry (HCMR) study. International Journal of Cardiology, 2021, 330, 251-258.	1.7	21
135	Cardiovascular magnetic resonance reference values of mitral and tricuspid annular dimensions: the UK Biobank cohort. Journal of Cardiovascular Magnetic Resonance, 2021, 23, 5.	3.3	21
136	Investigating a Liver Fat. Arteriosclerosis, Thrombosis, and Vascular Biology, 2016, 36, 198-203.	2.4	20
137	Light to moderate coffee consumption is associated with lower risk of death: a UK Biobank study. European Journal of Preventive Cardiology, 2022, 29, 982-991.	1.8	20
138	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.	2.5	19
139	Cardiac dysfunction and peri-weaning mortality in malonyl-coenzyme A decarboxylase (MCD) knockout mice as a consequence of restricting substrate plasticity. Journal of Molecular and Cellular Cardiology, 2014, 75, 76-87.	1.9	18
140	Obese Subjects Show Sex-Specific Differences in Right Ventricular Hypertrophy. Circulation: Cardiovascular Imaging, 2015, 8, .	2.6	18
141	Design and rationale of the EMPAâ€VISION trial: investigating the metabolic effects of empagliflozin in patients with heart failure. ESC Heart Failure, 2021, 8, 2580-2590.	3.1	18
142	Maximal Wall Thickness Measurement in Hypertrophic Cardiomyopathy. JACC: Cardiovascular Imaging, 2021, 14, 2123-2134.	5.3	18
143	Cardiac Energetics in Patients With Aortic Stenosis and Preserved Versus Reduced Ejection Fraction. Circulation, 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. Journal of Magnetic Resonance Imaging, 2001, 14, 789-794.	3.4	17

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145	Creatine kinase rate constant in the human heart measured with 3 <scp>D</scp> â€localization at 7 tesla. Magnetic Resonance in Medicine, 2017, 78, 20-32.	3.0	17
146	Cardiovascular magnetic resonance characterization of myocardial and vascular function in rheumatoid arthritis patients. Hellenic Journal of Cardiology, 2019, 60, 28-35.	1.0	17
147	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.	2.9	17
148	Shape registration with learned deformations for 3D shape reconstruction from sparse and incomplete point clouds. Medical Image Analysis, 2021, 74, 102228.	11.6	17
149	Cardiac magnetic resonance spectroscopy. Current Cardiology Reports, 2003, 5, 75-82.	2.9	16
150	Localized rest and stress human cardiac creatine kinase reaction kinetics at 3ÂT. NMR in Biomedicine, 2019, 32, e4085.	2.8	16
151	Standardized image post-processing of cardiovascular magnetic resonance T1-mapping reduces variability and improves accuracy and consistency in myocardial tissue characterization. International Journal of Cardiology, 2020, 298, 128-134.	1.7	16
152	Obesity modifies the energetic phenotype of dilated cardiomyopathy. European Heart Journal, 2021, , .	2.2	16
153	Multimodality imaging approach to left ventricular dysfunction in diabetes: an expert consensus document from the European Association of Cardiovascular Imaging. European Heart Journal Cardiovascular Imaging, 2022, 23, e62-e84.	1.2	16
154	Adapting the UK Biobank Brain Imaging Protocol and Analysis Pipeline for the C-MORE Multi-Organ Study of COVID-19 Survivors. Frontiers in Neurology, 2021, 12, 753284.	2.4	16
155	Proteomic and metabolomic changes driven by elevating myocardial creatine suggest novel metabolic feedback mechanisms. Amino Acids, 2016, 48, 1969-1981.	2.7	15
156	Combined T1-mapping and tissue tracking analysis predicts severity of ischemic injury following acute STEMI—an Oxford Acute Myocardial Infarction (OxAMI) study. International Journal of Cardiovascular Imaging, 2019, 35, 1297-1308.	1.5	15
157	Myocardial Creatine Levels Do Not Influence Response to Acute Oxidative Stress in Isolated Perfused Heart. PLoS ONE, 2014, 9, e109021.	2.5	15
158	Pyruvate dehydrogenase as a therapeutic target for obesity cardiomyopathy. Expert Opinion on Therapeutic Targets, 2016, 20, 755-766.	3.4	14
159	Recovering from missing data in population imaging – Cardiac MR image imputation via conditional generative adversarial nets. Medical Image Analysis, 2021, 67, 101812.	11.6	14
160	Left atrial 4D flow cardiovascular magnetic resonance: a reproducibility study in sinus rhythm and atrial fibrillation. Journal of Cardiovascular Magnetic Resonance, 2021, 23, 29.	3.3	14
161	Demographic, multi-morbidity and genetic impact on myocardial involvement and its recovery from COVID-19: protocol design of COVID-HEART—a UK, multicentre, observational study. Journal of Cardiovascular Magnetic Resonance, 2021, 23, 77.	3.3	14
162	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.	2.4	14

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163	Incremental value of left atrial booster and reservoir strain in predicting atrial fibrillation in patients with hypertrophic cardiomyopathy: a cardiovascular magnetic resonance study. Journal of Cardiovascular Magnetic Resonance, 2021, 23, 109.	3.3	14
164	Temporal fluctuations of myocardial high-energy phosphate metabolites with the cardiac cycle. Basic Research in Cardiology, 2001, 96, 553-556.	5.9	13
165	Cardiovascular magnetic resonance stress and rest T1-mapping using regadenoson for detection of ischemic heart disease compared to healthy controls. International Journal of Cardiology, 2021, 333, 239-245.	1.7	13
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