

# Stefan Neubauer

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/1924921/stefan-neubauer-publications-by-year.pdf>

**Version:** 2024-04-19

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	Long COVID: post-acute sequelae of COVID-19 with a cardiovascular focus.. <i>European Heart Journal</i> , <b>2022</b> ,	9.5	22
212	Improving robustness of automatic cardiac function quantification from cine magnetic resonance imaging using synthetic image data.. <i>Scientific Reports</i> , <b>2022</b> , 12, 2391	4.9	0
211	Fairness in Cardiac Magnetic Resonance Imaging: Assessing Sex and Racial Bias in Deep Learning-Based Segmentation.. <i>Frontiers in Cardiovascular Medicine</i> , <b>2022</b> , 9, 859310	5.4	2
210	Society for Cardiovascular Magnetic Resonance (SCMR) guidelines for reporting cardiovascular magnetic resonance examinations.. <i>Journal of Cardiovascular Magnetic Resonance</i> , <b>2022</b> , 24, 29	6.9	0
209	Automatic 3D+t Four-Chamber CMR Quantification of the UK Biobank: integrating imaging and non-imaging data priors at scale. <i>Medical Image Analysis</i> , <b>2022</b> , 102498	15.4	
208	Sex-specific associations between alcohol consumption, cardiac morphology, and function as assessed by magnetic resonance imaging: insights from the UK Biobank Population Study. <i>European Heart Journal Cardiovascular Imaging</i> , <b>2021</b> , 22, 1009-1016	4.1	0
207	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> , <b>2021</b> ,	4.1	2
206	Cardiac Magnetic Resonance Radiomics Reveal Differential Impact of Sex, Age, and Vascular Risk Factors on Cardiac Structure and Myocardial Tissue.. <i>Frontiers in Cardiovascular Medicine</i> , <b>2021</b> , 8, 763361	5.4	1
205	Energetic Basis for Exercise-Induced Pulmonary Congestion in Heart Failure With Preserved Ejection Fraction. <i>Circulation</i> , <b>2021</b> , 144, 1664-1678	16.7	9
204	Association Between Sarcomeric Variants in Hypertrophic Cardiomyopathy and Myocardial Oxygenation: Insights From a Novel Oxygen-Sensitive Cardiovascular Magnetic Resonance Approach. <i>Circulation</i> , <b>2021</b> , 144, 1656-1658	16.7	0
203	The impact of atrial fibrillation and stroke risk factors on left atrial blood flow characteristics. <i>European Heart Journal Cardiovascular Imaging</i> , <b>2021</b> ,	4.1	2
202	Incremental value of left atrial booster and reservoir strain in predicting atrial fibrillation in patients with hypertrophic cardiomyopathy: a cardiovascular magnetic resonance study. <i>Journal of Cardiovascular Magnetic Resonance</i> , <b>2021</b> , 23, 109	6.9	1
201	Symptom Persistence Despite Improvement in Cardiopulmonary Health - Insights from longitudinal CMR, CPET and lung function testing post-COVID-19. <i>EclinicalMedicine</i> , <b>2021</b> , 41, 101159	11.3	8
200	Physical, cognitive, and mental health impacts of COVID-19 after hospitalisation (PHOSP-COVID): a UK multicentre, prospective cohort study. <i>Lancet Respiratory Medicine</i> , <b>2021</b> , 9, 1275-1287	35.1	58
199	Adapting the UK Biobank Brain Imaging Protocol and Analysis Pipeline for the C-MORE Multi-Organ Study of COVID-19 Survivors. <i>Frontiers in Neurology</i> , <b>2021</b> , 12, 753284	4.1	2
198	Data-driven modelling of mutational hotspots and in silico predictors in hypertrophic cardiomyopathy. <i>Journal of Medical Genetics</i> , <b>2021</b> , 58, 556-564	5.8	0
197	Adverse cardiovascular magnetic resonance phenotypes are associated with greater likelihood of incident coronavirus disease 2019: findings from the UK Biobank. <i>Ageing Clinical and Experimental Research</i> , <b>2021</b> , 33, 1133-1144	4.8	7

196	Subtle Role for Adenylate Kinase 1 in Maintaining Normal Basal Contractile Function and Metabolism in the Murine Heart. <i>Frontiers in Physiology</i> , <b>2021</b> , 12, 623969	4.6	0
195	Left atrial 4D flow cardiovascular magnetic resonance: a reproducibility study in sinus rhythm and atrial fibrillation. <i>Journal of Cardiovascular Magnetic Resonance</i> , <b>2021</b> , 23, 29	6.9	5
194	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> , <b>2021</b> , 330, 251-258	3.2	7
193	Associations of Meat and Fish Consumption With Conventional and Radiomics Cardiovascular Magnetic Resonance Phenotypes in the UK Biobank. <i>Frontiers in Cardiovascular Medicine</i> , <b>2021</b> , 8, 667845	5.4	2
192	Subclinical Changes in Cardiac Functional Parameters as Determined by Cardiovascular Magnetic Resonance (CMR) Imaging in Sleep Apnea and Snoring: Findings from UK Biobank. <i>Medicina (Lithuania)</i> , <b>2021</b> , 57,	3.1	1
191	Design and rationale of the EMPA-VISION trial: investigating the metabolic effects of empagliflozin in patients with heart failure. <i>ESC Heart Failure</i> , <b>2021</b> , 8, 2580-2590	3.7	5
190	Diagnostic accuracy of non-invasive tests for advanced fibrosis in patients with NAFLD: an individual patient data meta-analysis. <i>Gut</i> , <b>2021</b> ,	19.2	31
189	Fat-Secreted Ceramides Regulate Vascular Redox State and Influence Outcomes in Patients With Cardiovascular Disease. <i>Journal of the American College of Cardiology</i> , <b>2021</b> , 77, 2494-2513	15.1	17
188	Cardiovascular magnetic resonance stress and rest T1-mapping using regadenoson for detection of ischemic heart disease compared to healthy controls. <i>International Journal of Cardiology</i> , <b>2021</b> , 333, 239-245	3.2	2
187	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. <i>Journal of Cardiovascular Magnetic Resonance</i> , <b>2021</b> , 23, 77	6.9	6
186	Cardiac stress T1-mapping response and extracellular volume stability of MOLLI-based T1-mapping methods. <i>Scientific Reports</i> , <b>2021</b> , 11, 13568	4.9	3
185	Rationale and design of the African Cardiomyopathy and Myocarditis Registry Program: The IMHOTEP study. <i>International Journal of Cardiology</i> , <b>2021</b> , 333, 119-126	3.2	0
184	Maximal Wall Thickness Measurement in Hypertrophic Cardiomyopathy: Biomarker Variability and its Impact on Clinical Care. <i>JACC: Cardiovascular Imaging</i> , <b>2021</b> , 14, 2123-2134	8.4	2
183	Cardiovascular magnetic resonance imaging in the UK Biobank: a major international health research resource. <i>European Heart Journal Cardiovascular Imaging</i> , <b>2021</b> , 22, 251-258	4.1	9
182	Recovering from missing data in population imaging - Cardiac MR image imputation via conditional generative adversarial nets. <i>Medical Image Analysis</i> , <b>2021</b> , 67, 101812	15.4	6
181	Poor Bone Quality is Associated With Greater Arterial Stiffness: Insights From the UK Biobank. <i>Journal of Bone and Mineral Research</i> , <b>2021</b> , 36, 90-99	6.3	3
180	Liver cT decreases following direct-acting antiviral therapy in patients with chronic hepatitis C virus. <i>Abdominal Radiology</i> , <b>2021</b> , 46, 1947-1957	3	4
179	Quantifying the effect of dobutamine stress on myocardial Pi and pH in healthy volunteers: A P MRS study at 7T. <i>Magnetic Resonance in Medicine</i> , <b>2021</b> , 85, 1147-1159	4.4	4

178	Common genetic variants and modifiable risk factors underpin hypertrophic cardiomyopathy susceptibility and expressivity. <i>Nature Genetics</i> , <b>2021</b> , 53, 135-142	36.3	33
177	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> , <b>2021</b> , 31, 100683	11.3	164
176	Automated Quality-Controlled Cardiovascular Magnetic Resonance Pericardial Fat Quantification Using a Convolutional Neural Network in the UK Biobank. <i>Frontiers in Cardiovascular Medicine</i> , <b>2021</b> , 8, 677574	5.4	4
175	Deep neural network ensemble for on-the-fly quality control-driven segmentation of cardiac MRI T1 mapping. <i>Medical Image Analysis</i> , <b>2021</b> , 71, 102029	15.4	12
174	Super-Resolution of Cardiac MR Cine Imaging using Conditional GANs and Unsupervised Transfer Learning. <i>Medical Image Analysis</i> , <b>2021</b> , 71, 102037	15.4	8
173	Standardized measurement of coronary inflammation using cardiovascular computed tomography: integration in clinical care as a prognostic medical device. <i>Cardiovascular Research</i> , <b>2021</b> , 117, 2677-2690 <sup>9.9</sup>	9.9	4
172	Association of Preterm Birth With Myocardial Fibrosis and Diastolic Dysfunction in Young Adulthood. <i>Journal of the American College of Cardiology</i> , <b>2021</b> , 78, 683-692	15.1	8
171	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> , <b>2021</b> , 75, 284-291	13.4	21
170	Obesity modifies the energetic phenotype of dilated cardiomyopathy. <i>European Heart Journal</i> , <b>2021</b> ,	9.5	3
169	Diagnostic accuracy of elastography and magnetic resonance imaging in patients with NAFLD: A systematic review and meta-analysis. <i>Journal of Hepatology</i> , <b>2021</b> , 75, 770-785	13.4	19
168	Shape registration with learned deformations for 3D shape reconstruction from sparse and incomplete point clouds. <i>Medical Image Analysis</i> , <b>2021</b> , 74, 102228	15.4	2
167	Myocardial Energy Response to Glyceryl Trinitrate: Physiology Revisited.. <i>Frontiers in Physiology</i> , <b>2021</b> , 12, 790525	4.6	0
166	Non-invasive investigation of myocardial energetics in cardiac disease using P magnetic resonance spectroscopy. <i>Cardiovascular Diagnosis and Therapy</i> , <b>2020</b> , 10, 625-635	2.6	6
165	Uncovering the skeleton in the heart: an unusual case of mitral annular calcification extending to the left ventricular myocardium. <i>European Heart Journal Cardiovascular Imaging</i> , <b>2020</b> , 21, 1301	4.1	
164	The UK Biobank imaging enhancement of 100,000 participants: rationale, data collection, management and future directions. <i>Nature Communications</i> , <b>2020</b> , 11, 2624	17.4	81
163	Male sex adversely affects the phenotypic expression of diabetic heart disease. <i>Therapeutic Advances in Endocrinology and Metabolism</i> , <b>2020</b> , 11, 2042018820927179	4.5	1
162	Reevaluation of the South Asian Intronic Deletion in Hypertrophic Cardiomyopathy. <i>Circulation Genomic and Precision Medicine</i> , <b>2020</b> , 13, e002783	5.2	14
161	Myocardial Energetics in Obesity: Enhanced ATP Delivery Through Creatine Kinase With Blunted Stress Response. <i>Circulation</i> , <b>2020</b> , 141, 1152-1163	16.7	17

160	Improving the Generalizability of Convolutional Neural Network-Based Segmentation on CMR Images. <i>Frontiers in Cardiovascular Medicine</i> , <b>2020</b> , 7, 105	5.4	40
159	Noninvasive In Vivo Assessment of Cardiac Metabolism in the Healthy and Diabetic Human Heart Using Hyperpolarized C MRI. <i>Circulation Research</i> , <b>2020</b> , 126, 725-736	15.7	49
158	Fully Automated Myocardial Strain Estimation from Cardiovascular MRI-tagged Images Using a Deep Learning Framework in the UK Biobank. <i>Radiology: Cardiothoracic Imaging</i> , <b>2020</b> , 2, e190032	8.3	15
157	Overexpression of mitochondrial creatine kinase preserves cardiac energetics without ameliorating murine chronic heart failure. <i>Basic Research in Cardiology</i> , <b>2020</b> , 115, 12	11.8	23
156	Genome-wide and Mendelian randomisation studies of liver MRI yield insights into the pathogenesis of steatohepatitis. <i>Journal of Hepatology</i> , <b>2020</b> , 73, 241-251	13.4	28
155	Abstract 16467: A Novel CT-derived Radiotranscriptomic Signature of Perivascular Adipose Tissue Stratifies COVID-19 Vascular Cytokine Burst and Predicts in Hospital Outcomes. <i>Circulation</i> , <b>2020</b> , 142,	16.7	1
154	Cardiac Energetics in Patients With Aortic Stenosis and Preserved Versus Reduced Ejection Fraction. <i>Circulation</i> , <b>2020</b> , 141, 1971-1985	16.7	8
153	Cardiovascular magnetic resonance reference values of mitral and tricuspid annular dimensions: the UK Biobank cohort. <i>Journal of Cardiovascular Magnetic Resonance</i> , <b>2020</b> , 23, 5	6.9	5
152	Response by Peterzan et al to Letter Regarding Article, "Cardiac Energetics in Patients With Aortic Stenosis and Preserved Versus Reduced Ejection Fraction". <i>Circulation</i> , <b>2020</b> , 142, e377-e378	16.7	
151	Magnetic resonance phase contrast velocity mapping for flow quantification in irregular heart rhythms using radial k-space ultrashort echo time imaging. <i>International Journal of Cardiology</i> , <b>2020</b> , 317, 211-215	3.2	0
150	Improving cardiac MRI convolutional neural network segmentation on small training datasets and dataset shift: A continuous kernel cut approach. <i>Medical Image Analysis</i> , <b>2020</b> , 61, 101636	15.4	29
149	Sodium-glucose cotransporter 2 inhibition does not reduce hepatic steatosis in overweight, insulin-resistant patients without type 2 diabetes. <i>JGH Open</i> , <b>2020</b> , 4, 433-440	1.8	1
148	The cardiac sympathetic co-transmitter neuropeptide Y is pro-arrhythmic following ST-elevation myocardial infarction despite beta-blockade. <i>European Heart Journal</i> , <b>2020</b> , 41, 2168-2179	9.5	27
147	The Effect of Blood Lipids on the Left Ventricle: A Mendelian Randomization Study. <i>Journal of the American College of Cardiology</i> , <b>2020</b> , 76, 2477-2488	15.1	10
146	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> , <b>2020</b> , 76, 755-757	15.1	21
145	Obesity-related ventricular remodelling is exacerbated in dilated and hypertrophic cardiomyopathy. <i>Cardiovascular Diagnosis and Therapy</i> , <b>2020</b> , 10, 559-567	2.6	1
144	The Importance of the Fatty Acid Transporter L-Carnitine in Non-Alcoholic Fatty Liver Disease (NAFLD). <i>Nutrients</i> , <b>2020</b> , 12,	6.7	15
143	Prognostic value of multiparametric magnetic resonance imaging, transient elastography and blood-based fibrosis markers in patients with chronic liver disease. <i>Liver International</i> , <b>2020</b> , 40, 3071-3082	7.9	17

142	Radiomics Signatures of Cardiovascular Risk Factors in Cardiac MRI: Results From the UK Biobank. <i>Frontiers in Cardiovascular Medicine</i> , <b>2020</b> , 7, 591368	5.4	13
141	Nicotinic acid receptor agonists impair myocardial contractility by energy starvation. <i>FASEB Journal</i> , <b>2020</b> , 34, 14878-14891	0.9	1
140	A population-based phenome-wide association study of cardiac and aortic structure and function. <i>Nature Medicine</i> , <b>2020</b> , 26, 1654-1662	50.5	23
139	Myocardial Tissue Characterization and Fibrosis by Imaging. <i>JACC: Cardiovascular Imaging</i> , <b>2020</b> , 13, 1228-1234	12.4	42
138	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> , <b>2020</b> , 298, 128-134	3.2	8
137	A novel machine learning-derived radiotranscriptomic signature of perivascular fat improves cardiac risk prediction using coronary CT angiography. <i>European Heart Journal</i> , <b>2019</b> , 40, 3529-3543	9.5	127
136	Changes in Cardiac Morphology and Function in Individuals With Diabetes Mellitus: The UK Biobank Cardiovascular Magnetic Resonance Substudy. <i>Circulation: Cardiovascular Imaging</i> , <b>2019</b> , 12, e009476	3.9	20
135	Genome-Wide Analysis of Left Ventricular Image-Derived Phenotypes Identifies Fourteen Loci Associated With Cardiac Morphogenesis and Heart Failure Development. <i>Circulation</i> , <b>2019</b> , 140, 1318-1330	16.7	56
134	Marked variation in heritability estimates of left ventricular mass depending on modality of measurement. <i>Scientific Reports</i> , <b>2019</b> , 9, 13556	4.9	1
133	Acute Microvascular Impairment Post-Reperfused STEMI Is Reversible and Has Additional Clinical Predictive Value: A CMR OxAMI Study. <i>JACC: Cardiovascular Imaging</i> , <b>2019</b> , 12, 1783-1793	8.4	14
132	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> , <b>2019</b> , 56, 26-42	15.4	28
131	Genetic studies of abdominal MRI data identify genes regulating hepcidin as major determinants of liver iron concentration. <i>Journal of Hepatology</i> , <b>2019</b> , 71, 594-602	13.4	10
130	Left Ventricular Flow Analysis. <i>Circulation: Cardiovascular Imaging</i> , <b>2019</b> , 12, e008130	3.9	22
129	Pirfenidone in Heart Failure with Preserved Ejection Fraction-Rationale and Design of the PIROUETTE Trial. <i>Cardiovascular Drugs and Therapy</i> , <b>2019</b> , 33, 461-470	3.9	31
128	Identification of Myocardial Disarray in Patients With Hypertrophic Cardiomyopathy and Ventricular Arrhythmias. <i>Journal of the American College of Cardiology</i> , <b>2019</b> , 73, 2493-2502	15.1	47
127	Automated quality control in image segmentation: application to the UK Biobank cardiovascular magnetic resonance imaging study. <i>Journal of Cardiovascular Magnetic Resonance</i> , <b>2019</b> , 21, 18	6.9	49
126	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> , <b>2019</b> , 21, 19	6.9	17
125	Neuropeptide-Y causes coronary microvascular constriction and is associated with reduced ejection fraction following ST-elevation myocardial infarction. <i>European Heart Journal</i> , <b>2019</b> , 40, 1920-1929	9.5	28

124	Localized rest and stress human cardiac creatine kinase reaction kinetics at 3T. <i>NMR in Biomedicine</i> , <b>2019</b> , 32, e4085	4.4	11
123	Age-Dependent Decline in Cardiac Function in Guanidinoacetate--Methyltransferase Knockout Mice. <i>Frontiers in Physiology</i> , <b>2019</b> , 10, 1535	4.6	7
122	Non-invasive assessment of portal hypertension by multi-parametric magnetic resonance imaging of the spleen: A proof of concept study. <i>PLoS ONE</i> , <b>2019</b> , 14, e0221066	3.7	19
121	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> , <b>2019</b> , 21, 41	6.9	21
120	Distinct Subgroups in Hypertrophic Cardiomyopathy in the NHLBI HCM Registry. <i>Journal of the American College of Cardiology</i> , <b>2019</b> , 74, 2333-2345	15.1	60
119	Does self-reported pregnancy loss identify women at risk of an adverse cardiovascular phenotype in later life? Insights from UK Biobank. <i>PLoS ONE</i> , <b>2019</b> , 14, e0223125	3.7	1
118	Combined T1-mapping and tissue tracking analysis predicts severity of ischemic injury following acute STEMI-an Oxford Acute Myocardial Infarction (OxAMI) study. <i>International Journal of Cardiovascular Imaging</i> , <b>2019</b> , 35, 1297-1308	2.5	6
117	Independent Left Ventricular Morphometric Atlases Show Consistent Relationships with Cardiovascular Risk Factors: A UK Biobank Study. <i>Scientific Reports</i> , <b>2019</b> , 9, 1130	4.9	23
116	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> , <b>2019</b> , 14, e0212272	3.7	12
115	Validation of Cardiovascular Magnetic Resonance-Derived Equation for Predicted Left Ventricular Mass Using the UK Biobank Imaging Cohort: Tool for Donor-Recipient Size Matching. <i>Circulation: Heart Failure</i> , <b>2019</b> , 12, e006362	7.6	2
114	Very low calorie diets are associated with transient ventricular impairment before reversal of diastolic dysfunction in obesity. <i>International Journal of Obesity</i> , <b>2019</b> , 43, 2536-2544	5.5	7
113	Progression of myocardial fibrosis in hypertrophic cardiomyopathy: mechanisms and clinical implications. <i>European Heart Journal Cardiovascular Imaging</i> , <b>2019</b> , 20, 157-167	4.1	46
112	Cardiovascular magnetic resonance characterization of myocardial and vascular function in rheumatoid arthritis patients. <i>Hellenic Journal of Cardiology</i> , <b>2019</b> , 60, 28-35	2.1	7
111	Over-expression of mitochondrial creatine kinase in the murine heart improves functional recovery and protects against injury following ischaemia-reperfusion. <i>Cardiovascular Research</i> , <b>2018</b> , 114, 858-869	9.9	24
110	Gadolinium-Free Cardiac MR Stress T1-Mapping to Distinguish Epicardial From Microvascular Coronary Disease. <i>Journal of the American College of Cardiology</i> , <b>2018</b> , 71, 957-968	15.1	56
109	Diagnosis of Microvascular Angina Using Cardiac Magnetic Resonance. <i>Journal of the American College of Cardiology</i> , <b>2018</b> , 71, 969-979	15.1	74
108	MECHANISMS IN ENDOCRINOLOGY: Diabetic cardiomyopathy: pathophysiology and potential metabolic interventions state of the art review. <i>European Journal of Endocrinology</i> , <b>2018</b> , 178, R127-R139	6.5	33
107	Noninvasive Immunometabolic Cardiac Inflammation Imaging Using Hyperpolarized Magnetic Resonance. <i>Circulation Research</i> , <b>2018</b> , 122, 1084-1093	15.7	40

106	Hyperpolarised magnetic resonance for in vivo real-time metabolic imaging. <i>Heart</i> , <b>2018</b> , 104, 1484-1491	15.1	15
105	Test-retest variability of left ventricular 4D flow cardiovascular magnetic resonance measurements in healthy subjects. <i>Journal of Cardiovascular Magnetic Resonance</i> , <b>2018</b> , 20, 15	6.9	22
104	Differential flow improvements after valve replacements in bicuspid aortic valve disease: a cardiovascular magnetic resonance assessment. <i>Journal of Cardiovascular Magnetic Resonance</i> , <b>2018</b> , 20, 10	6.9	30
103	Physiological Stress Elicits Impaired Left Ventricular Function in Preterm-Born Adults. <i>Journal of the American College of Cardiology</i> , <b>2018</b> , 71, 1347-1356	15.1	55
102	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> , <b>2018</b> , 34, 281-291	2.5	33
101	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> , <b>2018</b> , 31, 131-141	2.8	29
100	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> , <b>2018</b> , 5, 830-841	3.7	20
99	Association Between Ambient Air Pollution and Cardiac Morpho-Functional Phenotypes: Insights From the UK Biobank Population Imaging Study. <i>Circulation</i> , <b>2018</b> , 138, 2175-2186	16.7	47
98	Distinct ECG Phenotypes Identified in Hypertrophic Cardiomyopathy Using Machine Learning Associate With Arrhythmic Risk Markers. <i>Frontiers in Physiology</i> , <b>2018</b> , 9, 213	4.6	36
97	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> , <b>2018</b> , 392, 929-939	40	255
96	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> , <b>2018</b> , 320, 665-673	27.4	66
95	Prospective association between handgrip strength and cardiac structure and function in UK adults. <i>PLoS ONE</i> , <b>2018</b> , 13, e0193124	3.7	29
94	The impact of menopausal hormone therapy (MHT) on cardiac structure and function: Insights from the UK Biobank imaging enhancement study. <i>PLoS ONE</i> , <b>2018</b> , 13, e0194015	3.7	12
93	Variation in lung function and alterations in cardiac structure and function-Analysis of the UK Biobank cardiovascular magnetic resonance imaging substudy. <i>PLoS ONE</i> , <b>2018</b> , 13, e0194434	3.7	5
92	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> , <b>2018</b> , 7, e009218	6	16
91	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> , <b>2018</b> , 20, 88	6.9	33
90	Discrepancy Between Pathological Progression and Clinical Stability in a Young Patient With Hypertrophic Cardiomyopathy. <i>Circulation: Cardiovascular Imaging</i> , <b>2018</b> , 11, e008154	3.9	0
89	Electrocardiogram phenotypes in hypertrophic cardiomyopathy caused by distinct mechanisms: apico-basal repolarization gradients vs. Purkinje-myocardial coupling abnormalities. <i>Europace</i> , <b>2018</b> , 20, iii102-iii112	3.9	14



88	Automated cardiovascular magnetic resonance image analysis with fully convolutional networks. <i>Journal of Cardiovascular Magnetic Resonance</i> , <b>2018</b> , 20, 65	6.9	285
87	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> , <b>2018</b> , 13, e0203054	3.7	36
86	Data on uncoupling protein-3 levels, hypoxia, low flow ischemia, and insulin stimulation in dystrophin-deficient mouse hearts. <i>Data in Brief</i> , <b>2018</b> , 20, 277-280	1.2	
85	Imaging endpoints for non-alcoholic steatohepatitis (NASH) therapeutic trials: A growing role for multiparametric MRI?. <i>Journal of Hepatology</i> , <b>2018</b> , 69, 755-756	13.4	1
84	Anti-TNF modulation reduces myocardial inflammation and improves cardiovascular function in systemic rheumatic diseases. <i>International Journal of Cardiology</i> , <b>2018</b> , 270, 253-259	3.2	30
83	Reply to: "Multiparametric magnetic resonance imaging to predict clinical outcomes in patients with chronic liver disease: A cautionary note on a promising technique". <i>Journal of Hepatology</i> , <b>2017</b> , 66, 457-458	13.4	1
82	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> , <b>2017</b> , 45, 450-462	5.6	42
81	Beyond Bernoulli: Improving the Accuracy and Precision of Noninvasive Estimation of Peak Pressure Drops. <i>Circulation: Cardiovascular Imaging</i> , <b>2017</b> , 10,	3.9	39
80	Dietary Supplementation with Homoarginine Preserves Cardiac Function in a Murine Model of Post-Myocardial Infarction Heart Failure. <i>Circulation</i> , <b>2017</b> , 135, 400-402	16.7	30
79	Long-term cerebral white and gray matter changes after preeclampsia. <i>Neurology</i> , <b>2017</b> , 88, 1256-1264	6.5	51
78	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> , <b>2017</b> , 19, 18	6.9	244
77	Protocol and quality assurance for carotid imaging in 100,000 participants of UK Biobank: development and assessment. <i>European Journal of Preventive Cardiology</i> , <b>2017</b> , 24, 1799-1806	3.9	15
76	Measurement of myocardial native T1 in cardiovascular diseases and norm in 1291 subjects. <i>Journal of Cardiovascular Magnetic Resonance</i> , <b>2017</b> , 19, 74	6.9	44
75	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> , <b>2017</b> , 19, 81	6.9	31
74	Detecting human coronary inflammation by imaging perivascular fat. <i>Science Translational Medicine</i> , <b>2017</b> , 9,	17.5	285
73	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> , <b>2017</b> , 10,	3.9	56
72	022 Novel perfusion CMR reference standard for the objective diagnosis of microcirculatory dysfunction Validation against prognostic invasive markers of coronary physiology. <i>Heart</i> , <b>2017</b> , 103, A18-A18	5.1	
71	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> , <b>2017</b> , 38, 1222-1229	9.5	49

70	Metabolic remodeling in hypertrophied and failing myocardium: a review. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2017</b> , 313, H597-H616	5.2	46
69	Interobserver Variability in Histologic Evaluation of Liver Fibrosis Using Categorical and Quantitative Scores. <i>American Journal of Clinical Pathology</i> , <b>2017</b> , 147, 364-369	1.9	31
68	Splenic T1-mapping: a novel quantitative method for assessing adenosine stress adequacy for cardiovascular magnetic resonance. <i>Journal of Cardiovascular Magnetic Resonance</i> , <b>2017</b> , 19, 1	6.9	47
67	Multiparametric magnetic resonance imaging for the assessment of non-alcoholic fatty liver disease severity. <i>Liver International</i> , <b>2017</b> , 37, 1065-1073	7.9	103
66	Creatine kinase rate constant in the human heart measured with 3D-localization at 7 tesla. <i>Magnetic Resonance in Medicine</i> , <b>2017</b> , 78, 20-32	4.4	13
65	C Hyperpolarized magnetic resonance imaging of cardiac inflammation and repair. <i>Heart</i> , <b>2017</b> , 103, A154.1-A151	4.1	1
64	Abnormal Haemodynamic Flow Patterns in Bicuspid Valve Disease. <i>Frontiers in Physiology</i> , <b>2017</b> , 8, 374	4.6	2
63	Increasing creatine kinase activity protects against hypoxia / reoxygenation injury but not against anthracycline toxicity in vitro. <i>PLoS ONE</i> , <b>2017</b> , 12, e0182994	3.7	17
62	The impact of cardiovascular risk factors on cardiac structure and function: Insights from the UK Biobank imaging enhancement study. <i>PLoS ONE</i> , <b>2017</b> , 12, e0185114	3.7	39
61	Relationship Between Left Ventricular Structural and Metabolic Remodeling in Type 2 Diabetes. <i>Diabetes</i> , <b>2016</b> , 65, 44-52	0.9	125
60	Assessment of Metformin-Induced Changes in Cardiac and Hepatic Redox State Using Hyperpolarized[1-13C]Pyruvate. <i>Diabetes</i> , <b>2016</b> , 65, 3544-3551	0.9	35
59	Lone Atrial Fibrillation Is Associated With Impaired Left Ventricular Energetics That Persists Despite Successful Catheter Ablation. <i>Circulation</i> , <b>2016</b> , 134, 1068-1081	16.7	51
58	Dilated Cardiomyopathy: Phosphorus 31 MR Spectroscopy at 7 T. <i>Radiology</i> , <b>2016</b> , 281, 409-417	20.5	21
57	Breast Milk Consumption in Preterm Neonates and Cardiac Shape in Adulthood. <i>Pediatrics</i> , <b>2016</b> , 138,	7.4	46
56	Ectopic and Visceral Fat Deposition in Lean and Obese Patients With Type 2 Diabetes. <i>Journal of the American College of Cardiology</i> , <b>2016</b> , 68, 53-63	15.1	105
55	Investigating a Liver Fat: Arterial Stiffening Pathway in Adult and Childhood Obesity. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , <b>2016</b> , 36, 198-203	9.4	16
54	Multiparametric magnetic resonance imaging predicts clinical outcomes in patients with chronic liver disease. <i>Journal of Hepatology</i> , <b>2016</b> , 64, 308-315	13.4	127
53	HIV-1-Related Cardiovascular Disease Is Associated With Chronic Inflammation, Frequent Pericardial Effusions, and Probable Myocardial Edema. <i>Circulation: Cardiovascular Imaging</i> , <b>2016</b> , 9, e004430	3.9	60

52	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> , <b>2016</b> , 9, 27-36	8.4	89
51	Pyruvate dehydrogenase as a therapeutic target for obesity cardiomyopathy. <i>Expert Opinion on Therapeutic Targets</i> , <b>2016</b> , 20, 755-66	6.4	7
50	Cardiac energetics, oxygenation, and perfusion during increased workload in patients with type 2 diabetes mellitus. <i>European Heart Journal</i> , <b>2016</b> , 37, 3461-3469	9.5	90
49	UK Biobank cardiovascular magnetic resonance protocol. <i>Journal of Cardiovascular Magnetic Resonance</i> , <b>2016</b> , 18, 8	6.9	145
48	Protective Effect of Creatine Elevation against Ischaemia Reperfusion Injury Is Retained in the Presence of Co-Morbidities and during Cardioplegia. <i>PLoS ONE</i> , <b>2016</b> , 11, e0146429	3.7	9
47	YI-1 Changes in ascending aortic flow pattern after bicuspid aortic valve replacement differ with prosthesis type. <i>Heart</i> , <b>2016</b> , 102, A25.1-A25	5.1	
46	Improvements in ECG accuracy for diagnosis of left ventricular hypertrophy in obesity. <i>Heart</i> , <b>2016</b> , 102, 1566-72	5.1	21
45	Determination of Clinical Outcome in Mitral Regurgitation With Cardiovascular Magnetic Resonance Quantification. <i>Circulation</i> , <b>2016</b> , 133, 2287-96	16.7	98
44	Pheochromocytoma Is Characterized by Catecholamine-Mediated Myocarditis, Focal and Diffuse Myocardial Fibrosis, and Myocardial Dysfunction. <i>Journal of the American College of Cardiology</i> , <b>2016</b> , 67, 2364-2374	15.1	86
43	Assessing Cardiac Metabolism: A Scientific Statement From the American Heart Association. <i>Circulation Research</i> , <b>2016</b> , 118, 1659-701	15.7	142
42	Response to Letter Regarding Article, "The Effect of Selective Heart Rate Slowing in Heart Failure With Preserved Ejection Fraction". <i>Circulation</i> , <b>2016</b> , 133, e604	16.7	1
41	On the pivotal role of PPAR $\alpha$ adaptation of the heart to hypoxia and why fat in the diet increases hypoxic injury. <i>FASEB Journal</i> , <b>2016</b> , 30, 2684-97	0.9	35
40	Proteomic and metabolomic changes driven by elevating myocardial creatine suggest novel metabolic feedback mechanisms. <i>Amino Acids</i> , <b>2016</b> , 48, 1969-81	3.5	13
39	Nutritional Ketosis Alters Fuel Preference and Thereby Endurance Performance in Athletes. <i>Cell Metabolism</i> , <b>2016</b> , 24, 256-68	24.6	240
38	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> , <b>2016</b> , 75, 962-72	4.4	10
37	Obese subjects show sex-specific differences in right ventricular hypertrophy. <i>Circulation: Cardiovascular Imaging</i> , <b>2015</b> , 8,	3.9	15
36	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> , <b>2015</b> , 36, 1923-34	9.5	57
35	Diffuse Myocardial Fibrosis and Inflammation in Rheumatoid Arthritis: Insights From CMR T1 Mapping. <i>JACC: Cardiovascular Imaging</i> , <b>2015</b> , 8, 526-536	8.4	134

34	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> , <b>2015</b> , 169, 605-12	4.9	35
33	Evidence of a Direct Effect of Myocardial Steatosis on LV Hypertrophy and Diastolic Dysfunction in Adult and Adolescent Obesity. <i>JACC: Cardiovascular Imaging</i> , <b>2015</b> , 8, 1468-1470	8.4	14
32	Effect of Selective Heart Rate Slowing in Heart Failure With Preserved Ejection Fraction. <i>Circulation</i> , <b>2015</b> , 132, 1719-25	16.7	94
31	No Evidence of Myocardial Oxygen Deprivation in Nonischemic Heart Failure. <i>Circulation: Heart Failure</i> , <b>2015</b> , 8, 1088-93	7.6	23
30	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> , <b>2015</b> , 100, 4425-33	5.6	74
29	4D flow cardiovascular magnetic resonance consensus statement. <i>Journal of Cardiovascular Magnetic Resonance</i> , <b>2015</b> , 17, 72	6.9	446
28	Normalization of Visceral Fat and Complete Reversal of Cardiovascular Remodeling Accompany Gastric Bypass, not Banding. <i>Journal of the American College of Cardiology</i> , <b>2015</b> , 66, 2569-70	15.1	6
27	B Postnatal Cardiac Remodelling after Preterm Birth: Why Preterm-Born Individuals have a Unique Functional and Structural Phenotype in Young Adulthood?. <i>Heart</i> , <b>2015</b> , 101, A125.2-A126	5.1	1
26	Systolic ShMOLLI myocardial T1-mapping for improved robustness to partial-volume effects and applications in tachyarrhythmias. <i>Journal of Cardiovascular Magnetic Resonance</i> , <b>2015</b> , 17, 77	6.9	42
25	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> , <b>2015</b> , 11, 967-73	3.1	14
24	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> , <b>2015</b> , 16, 834-41	4.1	73
23	Noncontrast myocardial T1 mapping using cardiovascular magnetic resonance for iron overload. <i>Journal of Magnetic Resonance Imaging</i> , <b>2015</b> , 41, 1505-11	5.6	111
22	T1 Mapping in Ischemic Heart Disease. <i>Current Cardiovascular Imaging Reports</i> , <b>2014</b> , 7, 1	0.7	
21	Early change in invasive measures of microvascular function can predict myocardial recovery following PCI for ST-elevation myocardial infarction. <i>European Heart Journal</i> , <b>2014</b> , 35, 1971-80	9.5	52
20	Multiparametric magnetic resonance for the non-invasive diagnosis of liver disease. <i>Journal of Hepatology</i> , <b>2014</b> , 60, 69-77	13.4	272
19	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> , <b>2014</b> , 75, 76-87	5.8	14
18	HIV is an independent predictor of aortic stiffness. <i>Journal of Cardiovascular Magnetic Resonance</i> , <b>2014</b> , 16, 57	6.9	24
17	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> , <b>2014</b> , 34, 2151-9	9.4	69

16	Myocardial creatine levels do not influence response to acute oxidative stress in isolated perfused heart. <i>PLoS ONE</i> , <b>2014</b> , 9, e109021	3.7	10
15	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> , <b>2013</b> , 6, 1048-1058	8.4	260
14	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> , <b>2012</b> , 107, 276	11.8	21
13	Effects of catecholamine stress on diastolic function and myocardial energetics in obesity. <i>Circulation</i> , <b>2012</b> , 125, 1511-9	16.7	89
12	High-energy phosphotransfer in the failing mouse heart: role of adenylate kinase and glycolytic enzymes. <i>European Journal of Heart Failure</i> , <b>2010</b> , 12, 1282-9	12.3	24
11	Cardiovascular Magnetic Resonance: Basic Principles, Methods, and Techniques <b>2010</b> , 30-71		1
10	Beneficial cardiovascular effects of bariatric surgical and dietary weight loss in obesity. <i>Journal of the American College of Cardiology</i> , <b>2009</b> , 54, 718-26	15.1	150
9	The failing heart--an engine out of fuel. <i>New England Journal of Medicine</i> , <b>2007</b> , 356, 1140-51	59.2	1545
8	Cardiac magnetic resonance spectroscopy. <i>Current Cardiology Reports</i> , <b>2003</b> , 5, 75-82	4.2	13
7	Abnormal cardiac and skeletal muscle energy metabolism in patients with type 2 diabetes. <i>Circulation</i> , <b>2003</b> , 107, 3040-6	16.7	408
6	Temporal fluctuations of myocardia high-energy phosphate metabolite with the cardiac cycle. <i>Basic Research in Cardiology</i> , <b>2001</b> , 96, 553-6	11.8	12
5	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> , <b>2001</b> , 14, 789-94	5.6	14
4	Serial cine-magnetic resonance imaging of left ventricular remodeling after myocardial infarction in rats. <i>Journal of Magnetic Resonance Imaging</i> , <b>2001</b> , 14, 547-55	5.6	66
3	Optimization of ECG-triggered 3D (23)Na MRI of the human heart. <i>Magnetic Resonance in Medicine</i> , <b>2001</b> , 45, 164-6	4.4	36
2	Myocardial phosphocreatine-to-ATP ratio is a predictor of mortality in patients with dilated cardiomyopathy. <i>Circulation</i> , <b>1997</b> , 96, 2190-6	16.7	496
1	Physical, cognitive and mental health impacts of COVID-19 following hospitalisation  multi-centre prospective cohort study		17