Sven Plein

List of Publications by Year in descending order

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416 papers	19,086 citations	15504 65 h-index	15732 125 g-index
425 all docs	425 docs citations	425 times ranked	14599 citing authors

#	Article	IF	Citations
1	Pathophysiology of LV Remodeling Following STEMI. JACC: Cardiovascular Imaging, 2023, 16, 159-171.	5.3	5
2	2D high resolution vs. 3D whole heart myocardial perfusion cardiovascular magnetic resonance. European Heart Journal Cardiovascular Imaging, 2022, 23, 811-819.	1.2	4
3	Invasive and non-invasive assessment of ischaemia in chronic coronary syndromes: translating pathophysiology to clinical practice. European Heart Journal, 2022, 43, 105-117.	2.2	13
4	How to do quantitative myocardial perfusion cardiovascular magnetic resonance. European Heart Journal Cardiovascular Imaging, 2022, 23, 315-318.	1.2	8
5	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
6	Primary systemic sclerosis heart involvement: A systematic literature review and preliminary data-driven, consensus-based WSF/HFA definition. Journal of Scleroderma and Related Disorders, 2022, 7, 24-32.	1.7	25
7	Phenotyping hypertrophic cardiomyopathy using cardiac diffusion magnetic resonance imaging: the relationship between microvascular dysfunction and microstructural changes. European Heart Journal Cardiovascular Imaging, 2022, 23, 352-362.	1.2	12
8	Non-invasive imaging in coronary syndromes: recommendations of the European Association of Cardiovascular Imaging and the American Society of Echocardiography, in collaboration with the American Society of Nuclear Cardiology, Society of Cardiovascular Computed Tomography, and Society for Cardiovascular Magnetic Resonance. European Heart Journal Cardiovascular Imaging, 2022, 23, e6-e33.	1.2	29
9	Longitudinal Changes in Left Ventricular Blood Flow Kinetic Energy After Myocardial Infarction: Predictive Relevance for Cardiac Remodeling. Journal of Magnetic Resonance Imaging, 2022, 56, 768-778.	3.4	3
10	Detection of Intramyocardial Iron in Patients Following ST â€Elevation Myocardial Infarction Using Cardiac Diffusion Tensor Imaging. Journal of Magnetic Resonance Imaging, 2022, , .	3.4	2
11	Predicting myocardial infarction through retinal scans and minimal personal information. Nature Machine Intelligence, 2022, 4, 55-61.	16.0	30
12	Non-invasive imaging as the cornerstone of cardiovascular precision medicine. European Heart Journal Cardiovascular Imaging, 2022, 23, 465-475.	1.2	15
13	Acute Myocarditis Mimicking Hypertrophic Cardiomyopathy in MarfanÂSyndrome and Morphologically Abnormal Mitral Valve. JACC: Case Reports, 2022, 4, 105-110.	0.6	2
14	The role of cardiovascular magnetic resonance in the evaluation of acute myocarditis and inflammatory cardiomyopathies in clinical practice â€" a comprehensive review. European Heart Journal Cardiovascular Imaging, 2022, 23, 450-464.	1.2	13
15	Prospective Longitudinal Characterization of the Relationship between Diabetes and Cardiac Structural and Functional Changes. Cardiology Research and Practice, 2022, 2022, 1-12.	1.1	4
16	Coronary microvascular function and visceral adiposity in patients with normal body weight and type 2 diabetes. Obesity, 2022, 30, 1079-1090.	3.0	7
17	30-minute CMR for common clinical indications:ÂaÂSociety for Cardiovascular Magnetic Resonance white paper. Journal of Cardiovascular Magnetic Resonance, 2022, 24, 13.	3.3	21
18	Cost-effectiveness in diagnosis of stable angina patients: a decision-analytical modelling approach. Open Heart, 2022, 9, e001700.	2.3	6

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19	Training and clinical testing of artificial intelligence derived right atrial cardiovascular magnetic resonance measurements. Journal of Cardiovascular Magnetic Resonance, 2022, 24, 25.	3.3	8
20	Non-Invasive Imaging in Coronary Syndromes: Recommendations of The European Association of Cardiovascular Imaging and the American Society of Echocardiography, in Collaboration with The American Society of Nuclear Cardiology, Society of Cardiovascular Computed Tomography, and Society for Cardiovascular Magnetic Resonance. Journal of the American Society of Echocardiography, 2022, 35, 329-354.	2.8	6
21	Left ventricular four-dimensional blood flow distribution, energetics, and vorticity in chronic myocardial infarction patients with/without left ventricular thrombus. European Journal of Radiology, 2022, 150, 110233.	2.6	4
22	High-resolution non-contrast free-breathing coronary cardiovascularÃ‚Âmagnetic resonance angiography for detection of coronary artery disease: validation against invasive coronary angiography. Journal of Cardiovascular Magnetic Resonance, 2022, 24, 26.	3.3	10
23	Mitral regurgitation quantified by CMR 4D-flow is associated with microvascular obstruction post reperfused ST-segment elevation myocardial infarction. BMC Research Notes, 2022, 15, 181.	1.4	5
24	Comprehensive assessment of hypertensive heart disease: cardiac magnetic resonance in focus. Heart Failure Reviews, 2021, 26, 1383-1390.	3.9	12
25	Insight Into Myocardial Microstructure of Athletes and Hypertrophic Cardiomyopathy Patients Using Diffusion Tensor Imaging. Journal of Magnetic Resonance Imaging, 2021, 53, 73-82.	3.4	13
26	Cardiac magnetic resonance imaging for the detection of myocardial involvement in granulomatosis with polyangiitis. International Journal of Cardiovascular Imaging, 2021, 37, 1053-1062.	1.5	8
27	Motionâ€compensated gradient waveforms for tensorâ€valued diffusion encoding by constrained numerical optimization. Magnetic Resonance in Medicine, 2021, 85, 2117-2126.	3.0	23
28	Predictors of subclinical systemic sclerosis primary heart involvement characterised by microvasculopathy and myocardial fibrosis. Rheumatology, 2021, 60, 2934-2945.	1.9	18
29	Quantitative cardiovascular magnetic resonance myocardial perfusion mapping to assess hyperaemic response to adenosine stress. European Heart Journal Cardiovascular Imaging, 2021, 22, 273-281.	1.2	15
30	Exercise cardiovascular magnetic resonance: feasibility and development of biventricular function and great vessel flow assessment, during continuous exercise accelerated by Compressed SENSE: preliminary results in healthy volunteers. International Journal of Cardiovascular Imaging, 2021, 37, 685-698.	1.5	6
31	Cost-effectiveness of cardiovascular imaging for stable coronary heart disease. Heart, 2021, 107, 381-388.	2.9	12
32	Multisystem inflammatory syndrome in an adult with SARS-CoV-2 infection. European Heart Journal Cardiovascular Imaging, 2021, 22, e17-e17.	1.2	10
33	Role of cardiovascular magnetic resonance imaging in cardio-oncology. European Heart Journal Cardiovascular Imaging, 2021, 22, 383-396.	1.2	31
34	Response to: â€˜Correspondence on â€˜Cardiovascular effects of biological versus conventional synthetic disease-modifying antirheumatic drug therapy in treatment-naive, early rheumatoid arthritisâ€™â€™ by Georgiadis et al. Annals of the Rheumatic Diseases, 2021, , annrheumdis-2021-219926.	0.9	0
35	Using cardiovascular magnetic resonance to define mechanisms of comorbidity and to measure the effect of biological therapy: the CADERA observational study. Efficacy and Mechanism Evaluation, 2021, 8, 1-42.	0.7	0
36	A comparison of standard and high dose adenosine protocols in routine vasodilator stress cardiovascular magnetic resonance: dosage affects hyperaemic myocardial blood flow in patients with severe left ventricular systolic impairment. Journal of Cardiovascular Magnetic Resonance, 2021, 23, 37.	3.3	11

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37	Feasibility and validation of trans-valvular flow derived by four-dimensional flow cardiovascular magnetic resonance imaging in patients with atrial fibrillation. Wellcome Open Research, 2021, 6, 73.	1.8	5
38	Influence of the arterial input sampling location on the diagnostic accuracy of cardiovascular magnetic resonance stressÂmyocardial perfusion quantification. Journal of Cardiovascular Magnetic Resonance, 2021, 23, 35.	3.3	6
39	SAUN: Stack attention Uâ€Net for left ventricle segmentation from cardiac cine magnetic resonance imaging. Medical Physics, 2021, 48, 1750-1763.	3.0	15
40	Acute Microstructural Changes after ST-Segment Elevation Myocardial Infarction Assessed with Diffusion Tensor Imaging. Radiology, 2021, 299, 86-96.	7.3	13
41	Feasibility and validation of trans-valvular flow derived by four-dimensional flow cardiovascular magnetic resonance imaging in patients with atrial fibrillation. Wellcome Open Research, 2021, 6, 73.	1.8	7
42	Detrimental Immediate- and Medium-Term Clinical Effects of Right Ventricular Pacing in Patients With Myocardial Fibrosis. Circulation: Cardiovascular Imaging, 2021, 14, e012256.	2.6	3
43	Quality assurance of quantitative cardiac T1-mapping in multicenter clinical trials â€“ A T1 phantom program from the hypertrophic cardiomyopathy registry (HCMR) study. International Journal of Cardiology, 2021, 330, 251-258.	1.7	21
44	Rationale and design of the randomised controlled cross-over trial: Cardiovascular effects of empaglifozin in diabetes mellitus. Diabetes and Vascular Disease Research, 2021, 18, 147916412110215.	2.0	1
45	Standard and emerging CMR methods for mitral regurgitation quantification. International Journal of Cardiology, 2021, 331, 316-321.	1.7	24
46	A 30-Year-Old Man With Primary CardiacÂAngiosarcoma. JACC: Case Reports, 2021, 3, 944-949.	0.6	2
47	Multimodality imaging of myocardial viability: an expert consensus document from the European Association of Cardiovascular Imaging (EACVI). European Heart Journal Cardiovascular Imaging, 2021, 22, e97-e125.	1.2	32
48	Accuracy of dynamic three-dimensional magnetic resonance perfusion imaging for the detection of coronary artery disease in patients with reduced ejection fraction. Imaging, 2021, 13, 61-68.	0.3	0
49	Diffusion tensor imaging in cubital tunnel syndrome. Scientific Reports, 2021, 11, 14982.	3.3	9
50	Reproducibility of left ventricular blood flow kinetic energy measured by four-dimensional flow CMR. BMC Research Notes, 2021, 14, 289.	1.4	1
51	Impact of age, sex and ethnicity on intra-cardiac flow components and left ventricular kinetic energy derived from 4D flow CMR. International Journal of Cardiology, 2021, 336, 105-112.	1.7	10
52	Fourâ€Dimensional Flow Magnetic Resonance Imaging in the Assessment of Blood Flow in the Heart and Great Vessels: A Systematic Review. Journal of Magnetic Resonance Imaging, 2021, , .	3.4	6
53	Are We There Yet?. JACC: Cardiovascular Imaging, 2021, 14, 1755-1757.	5.3	6
54	Cardiovascular magnetic resonance imaging: emerging techniques and applications. Heart, 2021, 107, 697-704.	2.9	16

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55	Cardiovascular outcomes in systemic sclerosis with abnormal cardiovascular MRI and serum cardiac biomarkers. RMD Open, 2021, 7, e001689.	3.8	11
56	Empagliflozin Treatment Is Associated With Improvements in Cardiac Energetics and Function and Reductions in Myocardial Cellular Volume in Patients With Type 2 Diabetes. Diabetes, 2021, 70, 2810-2822.	0.6	36
57	The impact of dark-blood versus conventional bright-blood late gadolinium enhancement on the myocardial ischemic burden. European Journal of Radiology, 2021, 144, 109947.	2.6	1
58	Clinical Application of Dynamic Contrast Enhanced Perfusion Imaging by Cardiovascular Magnetic Resonance. Frontiers in Cardiovascular Medicine, 2021, 8, 768563.	2.4	5
59	14â€...The presence of diabetes as a comorbidity adversely affects the phenotypic expression of hypertrophic cardiomyopathy. , 2021, , .		0
60	Cardiac magnetic resonance perfusion abnormality due to anaemia. European Heart Journal Cardiovascular Imaging, 2021, , .	1.2	0
61	Automatic inâ€line quantitative myocardial perfusion mapping: Processing algorithm and implementation. Magnetic Resonance in Medicine, 2020, 83, 712-730.	3.0	27
62	Cardiac perfusion, structure, and function in type 2 diabetes mellitus with and without diabetic complications. European Heart Journal Cardiovascular Imaging, 2020, 21, 887-895.	1.2	28
63	Abnormal electrophysiological testing associates with future incidental significant arrhythmia in scleroderma. Rheumatology, 2020, 59, 899-900.	1.9	4
64	Standardization of Preclinical PET/CT Imaging to Improve Quantitative Accuracy, Precision, and Reproducibility: A Multicenter Study. Journal of Nuclear Medicine, 2020, 61, 461-468.	5.0	23
65	Myocardial Effects of Aldosterone Antagonism in Heart Failure With Preserved Ejection Fraction. Journal of the American Heart Association, 2020, 9, e011521.	3.7	21
66	Chronic infarct size after spontaneous coronary artery dissection: implications for pathophysiology and clinical management. European Heart Journal, 2020, 41, 2197-2205.	2.2	35
67	Feasibility and reproducibility of a cardiovascular magnetic resonance free-breathing, multi-shot, navigated image acquisition technique for ventricular volume quantification during continuous exercise. Quantitative Imaging in Medicine and Surgery, 2020, 10, 1837-1851.	2.0	5
68	Increased cardiovascular mortality in African Americans with COVID-19. Lancet Respiratory Medicine,the, 2020, 8, 649-651.	10.7	40
69	Age-associated changes in 4D flow CMR derived Tricuspid Valvular Flow and Right Ventricular Blood Flow Kinetic Energy. Scientific Reports, 2020, 10, 9908.	3.3	13
70	Cardiac Imaging in the Post-ISCHEMIA Trial Era. JACC: Cardiovascular Imaging, 2020, 13, 1815-1833.	5.3	21
71	Feasibility and validation of trans-valvular flow derived by four-dimensional flow cardiovascular magnetic resonance imaging in pacemaker recipients. Magnetic Resonance Imaging, 2020, 74, 46-55.	1.8	5
72	Cardiovascular effects of biological versus conventional synthetic disease-modifying antirheumatic drug therapy in treatment-naÃ¯ve, early rheumatoid arthritis. Annals of the Rheumatic Diseases, 2020, 79, 1414-1422.	0.9	32

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73	Society for Cardiovascular Magnetic Resonance (SCMR) recommended CMR protocols for scanning patients with active or convalescent phase COVID-19 infection. Journal of Cardiovascular Magnetic Resonance, 2020, 22, 61.	3.3	63
74	Society for Cardiovascular Magnetic Resonance (SCMR) guidance for re-activation of cardiovascular magnetic resonance practice after peak phase of the COVID-19 pandemic. Journal of Cardiovascular Magnetic Resonance, 2020, 22, 58.	3.3	13
75	Automated Inline Analysis of Myocardial Perfusion MRI with Deep Learning. Radiology: Artificial Intelligence, 2020, 2, e200009.	5.8	32
76	Reduced Myocardial Perfusion Reserve in Type 2 Diabetes Is Caused by Increased Perfusion at Rest and Decreased Maximal Perfusion During Stress. Diabetes Care, 2020, 43, 1285-1292.	8.6	25
77	Automated detection of left ventricle in arterial input function images for inline perfusion mapping using deep learning: A study of 15,000 patients. Magnetic Resonance in Medicine, 2020, 84, 2788-2800.	3.0	19
78	T1 mapping performance and measurement repeatability: results from the multi-national T1 mapping standardization phantom program (T1MES). Journal of Cardiovascular Magnetic Resonance, 2020, 22, 31.	3.3	23
79	Inline perfusion mapping provides insights into the disease mechanism in hypertrophic cardiomyopathy. Heart, 2020, 106, 824-829.	2.9	26
80	Standardized image interpretation and post-processing in cardiovascular magnetic resonance - 2020 update. Journal of Cardiovascular Magnetic Resonance, 2020, 22, 19.	3.3	467
81	Rapid Cardiovascular Magnetic Resonance for Ischemic Heart Disease Investigation (RAPID-IHD). JACC: Cardiovascular Imaging, 2020, 13, 1632-1634.	5.3	16
82	Imaging, biomarker and invasive assessment of diffuse left ventricular myocardial fibrosis in atrial fibrillation. Journal of Cardiovascular Magnetic Resonance, 2020, 22, 13.	3.3	12
83	Motionâ€compensated bâ€tensor encoding for in vivo cardiac diffusionâ€weighted imaging. NMR in Biomedicine, 2020, 33, e4213.	2.8	20
84	Cardiovascular MRI evidence of reduced systolic function and reduced LV mass in rheumatoid arthritis: impact of disease phenotype. International Journal of Cardiovascular Imaging, 2020, 36, 491-501.	1.5	7
85	The Prognostic Significance of Quantitative Myocardial Perfusion: An Artificial Intelligence Based Approach Using Perfusion Mapping. Circulation, 2020, 141, 1282-1291.	1.6	100
86	Society for Cardiovascular Magnetic Resonance (SCMR) guidance for the practice of cardiovascular magnetic resonance during the COVID-19 pandemic. Journal of Cardiovascular Magnetic Resonance, 2020, 22, 26.	3.3	58
87	Assessment of Multivessel Coronary Artery Disease Using Cardiovascular Magnetic Resonance Pixelwise Quantitative Perfusion Mapping. JACC: Cardiovascular Imaging, 2020, 13, 2546-2557.	5.3	30
88	Fibroblast growth factor-23 is associated with imaging markers of diabetic cardiomyopathy and anti-diabetic therapeutics. Cardiovascular Diabetology, 2020, 19, 158.	6.8	14
89	Computed tomography coronary angiography: Diagnostic yield and downstream testing. Clinical Medicine, 2020, 20, 81-85.	1.9	6
90	Applications of Quantitative Perfusion and Permeability in the Body. Advances in Magnetic Resonance Technology and Applications, 2020, , 427-454.	0.1	0

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91	An unusual case of apical myocarditis: a case report. European Heart Journal - Case Reports, 2020, 4, 1-5.	0.6	0
92	Left ventricular thrombus formation in myocardial infarction is associated with altered left ventricular blood flow energetics. European Heart Journal Cardiovascular Imaging, 2019, 20, 108-117.	1.2	57
93	Pulmonary arteriovenous malformations and embolic myocardial infarction identified with cardiovascular magnetic resonance. European Heart Journal Cardiovascular Imaging, 2019, 20, 1430-1431.	1.2	0
94	Quantitative Myocardial Perfusion in Fabry Disease. Circulation: Cardiovascular Imaging, 2019, 12, e008872.	2.6	32
95	Incidental significant arrhythmia in scleroderma associates with cardiac magnetic resonance measure of fibrosis and hs-TnI and NT-proBNP. Rheumatology, 2019, 58, 1221-1226.	1.9	31
96	Multimodality imaging in the diagnosis, risk stratification, and management of patients with dilated cardiomyopathies: an expert consensus document from the European Association of Cardiovascular Imaging. European Heart Journal Cardiovascular Imaging, 2019, 20, 1075-1093.	1.2	65
97	P wave indices, heart rate variability and anthropometry in a healthy South Asian population. PLoS ONE, 2019, 14, e0220662.	2.5	9
98	Regression of Left Ventricular Mass in Athletes Undergoing Complete Detraining Is Mediated by Decrease in Intracellular but Not Extracellular Compartments. Circulation: Cardiovascular Imaging, 2019, 12, e009417.	2.6	18
99	European Association of Cardiovascular Imaging expert consensus paper: a comprehensive review of cardiovascular magnetic resonance normal values of cardiac chamber size and aortic root in adults and recommendations for grading severity. European Heart Journal Cardiovascular Imaging, 2019, 20, 1321-1331.	1.2	122
100	Quantitative myocardial perfusion in coronary artery disease: A perfusion mapping study. Journal of Magnetic Resonance Imaging, 2019, 50, 756-762.	3.4	35
101	Magnetic Resonance Perfusion or Fractional Flow Reserve in Coronary Disease. New England Journal of Medicine, 2019, 380, 2418-2428.	27.0	326
102	Sex and Heart Failure with Preserved Ejection Fraction: From Pathophysiology to Clinical Studies. Journal of Clinical Medicine, 2019, 8, 792.	2.4	32
103	First cardiovascular MRI study in individuals at risk of rheumatoid arthritis detects abnormal aortic stiffness suggesting an anti-citrullinated peptide antibody-mediated role for accelerated atherosclerosis. Annals of the Rheumatic Diseases, 2019, 78, 1138-1140.	0.9	15
104	The Additive Value of Cardiovascular Magnetic Resonance Imaging in Hypertensive Heart Disease. Updates in Hypertension and Cardiovascular Protection, 2019, , 185-197.	0.1	0
105	Silent cerebral infarction and cognitive function following TAVI: an observational two-centre UK comparison of the first-generation CoreValve and second-generation Lotus valve. BMJ Open, 2019, 9, e022329.	1.9	6
106	Automated Pixel-Wise Quantitative Myocardial Perfusion Mapping by CMRÂtoÂDetect Obstructive Coronary Artery Disease and Coronary Microvascular Dysfunction. JACC: Cardiovascular Imaging, 2019, 12, 1958-1969.	5.3	140
107	SAT0227â€…MYOCARDIAL FIBROSIS IS ASSOCIATED WITH ANCA STATUS, ORGAN INVOLVEMENT AND DISEASE SEVERITY IN PATIENTSWITH GRANULOMATOSIS WITH POLYANGIITIS. , 2019, , .		0
108	107â€…Nice 2016 stable chest pain guidelines: improved yield of severe coronary artery disease at invasive coronary angiography. , 2019, , .		0

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109	Role of CMR in Prognostic Stratification in Myocardial Infarction. Revista Espanola De Cardiologia (English Ed), 2019, 72, 115-119.	0.6	1
110	CMR quantitation of change in mitral regurgitation following transcatheter aortic valve replacement (TAVR): impact on left ventricular reverse remodeling and outcome. International Journal of Cardiovascular Imaging, 2019, 35, 161-170.	1.5	10
111	Feasibility study of a single breathâ€hold, 3D mDIXON pulse sequence for late gadolinium enhancement imaging of ischemic scar. Journal of Magnetic Resonance Imaging, 2019, 49, 1437-1445.	3.4	11
112	The Year in Cardiology 2018: imaging. European Heart Journal, 2019, 40, 508-517.	2.2	14
113	Clinical evaluation of two dark blood methods of late gadolinium quantification of ischemic scar. Journal of Magnetic Resonance Imaging, 2019, 50, 146-152.	3.4	15
114	Cardiorresonancia para la estratificaciÃ³n pronÃ³stica del infarto de miocardio. Revista Espanola De Cardiologia, 2019, 72, 115-119.	1.2	5
115	Deep Learningâ€“based Method for Fully Automatic Quantification of Left Ventricle Function from Cine MR Images: A Multivendor, Multicenter Study. Radiology, 2019, 290, 81-88.	7.3	152
116	Simultaneous 13N-Ammonia and gadolinium first-pass myocardial perfusion with quantitative hybrid PET-MR imaging: a phantom and clinical feasibility study. European Journal of Hybrid Imaging, 2019, 3, 15.	1.5	10
117	Myocardial Perfusion Cardiovascular Magnetic Resonance. , 2019, , 51-65.e2.		0
118	The year in cardiology 2017: imaging. European Heart Journal, 2018, 39, 275-285.	2.2	5
119	Cardiovascular magnetic resonance measures of aortic stiffness in asymptomatic patients with type 2 diabetes: association with glycaemic control and clinical outcomes. Cardiovascular Diabetology, 2018, 17, 35.	6.8	15
120	Cardiovascular magnetic resonance assessment of 1st generation CoreValve and 2nd generation Lotus valves. Journal of Interventional Cardiology, 2018, 31, 391-399.	1.2	6
121	Effects of Vildagliptin on Ventricular Function in Patients With TypeÂ2ÂDiabetes Mellitus and Heart Failure. JACC: Heart Failure, 2018, 6, 443-444.	4.1	1
122	Patient-specific coronary blood supply territories for quantitative perfusion analysis. Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization, 2018, 6, 137-154.	1.9	3
123	Comparison of fast acquisition strategies in wholeâ€heart fourâ€dimensional flow cardiac MR: Twoâ€center, 1.5 Tesla, phantom and in vivo validation study. Journal of Magnetic Resonance Imaging, 2018, 47, 272-281.	3.4	52
124	Quantitative deformation analysis differentiates ischaemic and non-ischaemic cardiomyopathy: sub-group analysis of the VINDICATE trial. European Heart Journal Cardiovascular Imaging, 2018, 19, 816-823.	1.2	7
125	Doppler Versus Thermodilution-Derived Coronary Microvascular Resistance to Predict Coronary Microvascular Dysfunction in Patients With Acute Myocardial Infarction or Stable Angina Pectoris. American Journal of Cardiology, 2018, 121, 1-8.	1.6	70
126	Role of cardiovascular magnetic resonance in the management of patients with stable coronary artery disease. Heart, 2018, 104, 888-894.	2.9	15

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127	A joint procedural position statement on imaging in cardiac sarcoidosis: from the Cardiovascular and Inflammation & Infection Committees of the European Association of Nuclear Medicine, the European Association of Cardiovascular Imaging, and the American Society of Nuclear Cardiology. Journal of Nuclear Cardiology, 2018, 25, 298-319.	2.1	97
128	O15â€ƒImplantable loop recorder in systemic sclerosis over three years confirms incidental significant arrhythmia and suggests CMR and cardiac biomarker association. Rheumatology, 2018, 57, .	1.9	0
129	Simultaneous multi slice (SMS) balanced steady state free precession first-pass myocardial perfusion cardiovascular magnetic resonance with iterative reconstruction at 1.5ÂT. Journal of Cardiovascular Magnetic Resonance, 2018, 20, 84.	3.3	33
130	Multimodality imaging for the quantitative assessment of mitral regurgitation. Quantitative Imaging in Medicine and Surgery, 2018, 8, 342-359.	2.0	18
131	Role of Cardiac T1 Mapping and Extracellular Volume (ECV) in the Assessment of Myocardial Infarction. Anatolian Journal of Cardiology, 2018, 19, 404-411.	0.9	17
132	17â€…Single breath-hold, 3d mdixon pulse sequence for late gadolinium enhancement imaging of ischaemic scar: a feasibility study. , 2018, , .		0
133	Carotid artery volumetric measures associate with clinical ten-year cardiovascular (CV) risk scores and individual traditional CV risk factors in rheumatoid arthritis; a carotid-MRI feasibility study. Arthritis Research and Therapy, 2018, 20, 266.	3.5	4
134	Impact of Age and Diastolic Function on Novel, 4D flow CMR Biomarkers of Left Ventricular Blood Flow Kinetic Energy. Scientific Reports, 2018, 8, 14436.	3.3	42
135	Left ventricular blood flow kinetic energy after myocardial infarction - insights from 4D flow cardiovascular magnetic resonance. Journal of Cardiovascular Magnetic Resonance, 2018, 20, 61.	3.3	64
136	Heart failure in Diabetic patients. European Heart Journal, 2018, 39, 1755-1757.	2.2	2
137	Automated Pixelwise Perfusion MappingÂby CMR. JACC: Cardiovascular Imaging, 2018, 11, 708-710.	5.3	0
138	Deleterious Effects of Cold Air Inhalation on Coronary Physiological Indices in Patients With Obstructive Coronary Artery Disease. Journal of the American Heart Association, 2018, 7, e008837.	3.7	6
139	Fully automated, inline quantification of myocardial blood flow with cardiovascular magnetic resonance: repeatability of measurements in healthy subjects. Journal of Cardiovascular Magnetic Resonance, 2018, 20, 48.	3.3	54
140	Hybrid positron emission tomographyâ€“magnetic resonance of the heart: current state of the art and future applications. European Heart Journal Cardiovascular Imaging, 2018, 19, 962-974.	1.2	29
141	Quantitative Myocardial Perfusion Imaging Versus Visual Analysis in Diagnosing Myocardial Ischemia. JACC: Cardiovascular Imaging, 2018, 11, 711-718.	5.3	21
142	Left atrial size and function in a South Asian population and their potential influence on the risk of atrial fibrillation. Clinical Cardiology, 2018, 41, 1379-1385.	1.8	12
143	Left atrial voltage, circulating biomarkers of fibrosis, and atrial fibrillation ablation. A prospective cohort study. PLoS ONE, 2018, 13, e0189936.	2.5	34
144	51â€…Assessment of cardiovascular response during continuous exercise using multi-shot, navigated, steady-state free precession cardiovascular magnetic resonance imaging: a pilot study of healthy controls. , 2018, , .		0

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145	Taxonomy of segmental myocardial systolic dysfunction. European Heart Journal, 2017, 38, ehw140.	2.2	11
146	The role of non-invasive cardiovascular imaging in the assessment of cardiovascular risk in rheumatoid arthritis: where we are and where we need to be. Annals of the Rheumatic Diseases, 2017, 76, 1169-1175.	0.9	41
147	Effect of cellular and extracellular pathology assessed by T1 mapping on regional contractile function in hypertrophic cardiomyopathy. Journal of Cardiovascular Magnetic Resonance, 2017, 19, 16.	3.3	32
148	Cardiac biomarkers of acute coronary syndrome: from history to high-sensitivity cardiac troponin. Internal and Emergency Medicine, 2017, 12, 147-155.	2.0	186
149	The utility of global longitudinal strain in the identification of prior myocardial infarction in patients with preserved left ventricular ejection fraction. International Journal of Cardiovascular Imaging, 2017, 33, 1561-1569.	1.5	21
150	Physiology of Angina and Its Alleviation With Nitroglycerin. Circulation, 2017, 136, 24-34.	1.6	21
151	Cardiac T1 Mapping and Extracellular Volume (ECV) in clinical practice: a comprehensive review. Journal of Cardiovascular Magnetic Resonance, 2017, 18, 89.	3.3	551
152	Multimodality Imaging in Restrictive Cardiomyopathies: An EACVI expert consensus document In collaboration with the â€œWorking Group on myocardial and pericardial diseasesâ€•of the European Society of Cardiology Endorsed by The Indian Academy of Echocardiography. European Heart Journal Cardiovascular Imaging, 2017, 18, 1090-1121.	1.2	91
153	Intra-cardiac and peripheral levels of biochemical markers of fibrosis in patients undergoing catheter ablation for atrial fibrillation. Europace, 2017, 19, 1944-1950.	1.7	23
154	Coronary sinus flow measurementâ€”a useful addition to first pass myocardial perfusion cardiovascular magnetic resonance?. European Heart Journal Cardiovascular Imaging, 2017, 18, 860-861.	1.2	0
155	Synthetic Myocardial Extracellular VolumeÂFraction. JACC: Cardiovascular Imaging, 2017, 10, 1402-1404.	5.3	30
156	Current perspectives in coronary microvascular dysfunction. Microcirculation, 2017, 24, e12340.	1.8	30
157	Clinical applications of intra-cardiac four-dimensional flow cardiovascular magnetic resonance: A systematic review. International Journal of Cardiology, 2017, 249, 486-493.	1.7	62
158	Diabetes Mellitus, Microalbuminuria, and Subclinical Cardiac Disease: Identification and Monitoring of Individuals at Risk of Heart Failure. Journal of the American Heart Association, 2017, 6, .	3.7	67
159	Multi-centre study of whole-heart dynamic 3D cardiac magnetic resonance perfusion imaging for the detection of coronary artery disease defined by fractional flow reserve: gender based analysis of diagnostic performance. European Heart Journal Cardiovascular Imaging, 2017, 18, 1099-1106.	1.2	9
160	The 2016 update to NICE CG95 guideline for the Âinvestigation of new onset stable chest pain: more Âinnovation, but at a cost?. Clinical Medicine, 2017, 17, 209-211.	1.9	14
161	Native T1 Mapping. Circulation: Cardiovascular Imaging, 2017, 10, .	2.6	1
162	Diagnosis and management of myocardial involvement in systemic immune-mediated diseases: a position statement of the European Society of Cardiology Working Group on Myocardial and Pericardial Disease. European Heart Journal, 2017, 38, 2649-2662.	2.2	163

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163	Acute Infarct Extracellular Volume Mapping to Quantify Myocardial Area at Risk and Chronic Infarct Size on Cardiovascular Magnetic Resonance Imaging. Circulation: Cardiovascular Imaging, 2017, 10, .	2.6	39
164	Consensus best practice pathway of the UK Systemic Sclerosis Study group: management of cardiac disease in systemic sclerosis. Rheumatology, 2017, 56, 912-921.	1.9	77
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