Sven Plein

List of Publications by Year
in descending order

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	Coronary Magnetic Resonance Angiography for the Detection of Coronary Stenoses. New England Journal of Medicine, 2001, 345, 1863-1869.	27.0	1,281
2	Standardized image interpretation and post processing in cardiovascular magnetic resonance: Society for Cardiovascular Magnetic Resonance (SCMR) Board of Trustees Task Force on Standardized Post Processing. Journal of Cardiovascular Magnetic Resonance, 2013, 15, 35.	3.3	1,037
3	Cardiovascular magnetic resonance and single-photon emission computed tomography for diagnosis of coronary heart disease (CE-MARC): a prospective trial. Lancet, The, 2012, 379, 453-460.	13.7	936
4	Normal human left and right ventricular dimensions for MRI as assessed by turbo gradient echo and steadyâ€state free precession imaging sequences. Journal of Magnetic Resonance Imaging, 2003, 17, 323-329.	3.4	660
5	Normal values for cardiovascular magnetic resonance in adults and children. Journal of Cardiovascular Magnetic Resonance, 2015, 17, 29.	3.3	583
6	Cardiac T1 Mapping and Extracellular Volume (ECV) in clinical practice: a comprehensive review. Journal of Cardiovascular Magnetic Resonance, 2017, 18, 89.	3.3	551
7	Standardized image interpretation and post-processing in cardiovascular magnetic resonance - 2020 update. Journal of Cardiovascular Magnetic Resonance, 2020, 22, 19.	3.3	467
8	Magnetic Resonance Perfusion or Fractional Flow Reserve in Coronary Disease. New England Journal of Medicine, 2019, 380, 2418-2428.	27.0	326
9	Myocardial <i>T</i>₁ mapping: Application to patients with acute and chronic myocardial infarction. Magnetic Resonance in Medicine, 2007, 58, 34-40.	3.0	309
10	MR Imaging of Cardiac Tumors and Masses: A Review of Methods and Clinical Applications. Radiology, 2013, 268, 26-43.	7.3	307
11	The appropriate and justified use of medical radiation in cardiovascular imaging: a position document of the ESC Associations of Cardiovascular Imaging, Percutaneous Cardiovascular Interventions and Electrophysiology. European Heart Journal, 2014, 35, 665-672.	2.2	301
12	Reference values for healthy human myocardium using a T1 mapping methodology: results from the International T1 Multicenter cardiovascular magnetic resonance study. Journal of Cardiovascular Magnetic Resonance, 2014, 16, 69.	3.3	262
13	Steady-state free precession magnetic resonance imaging of the heart: Comparison with segmented k-space gradient-echo imaging. Journal of Magnetic Resonance Imaging, 2001, 14, 230-236.	3.4	229
14	Effect of Care Guided by Cardiovascular Magnetic Resonance, Myocardial Perfusion Scintigraphy, or NICE Guidelines on Subsequent Unnecessary Angiography Rates. JAMA - Journal of the American Medical Association, 2016, 316, 1051.	7.4	227
15	Comparison of right ventricular volume measurements between axial and short axis orientation using steady-state free precession magnetic resonance imaging. Journal of Magnetic Resonance Imaging, 2003, 18, 25-32.	3.4	226
16	Role of multimodality cardiac imaging in the management of patients with hypertrophic cardiomyopathy: an expert consensus of the European Association of Cardiovascular Imaging Endorsed by the Saudi Heart Association. European Heart Journal Cardiovascular Imaging, 2015, 16, 280-280.	1.2	214
17	Human Myocardium: Single-Breath-hold MR T1 Mapping with High Spatial Resolutionâ€"Reproducibility Study. Radiology, 2006, 238, 1004-1012.	7.3	209
18	The multi-modality cardiac imaging approach to the Athlete's heart: an expert consensus of the European Association of Cardiovascular Imaging. European Heart Journal Cardiovascular Imaging, 2015, 16, 353-353r.	1.2	199

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19	Imaging in population science: cardiovascular magnetic resonance in 100,000 participants of UK Biobank - rationale, challenges and approaches. Journal of Cardiovascular Magnetic Resonance, 2013, 15, 46.	3.3	188
20	European Association of Cardiovascular Imaging (EACVI) position paper: multimodality imaging in pericardial disease. European Heart Journal Cardiovascular Imaging, 2015, 16, 12-31.	1.2	186
21	Cardiac biomarkers of acute coronary syndrome: from history to high-sensitivity cardiac troponin. Internal and Emergency Medicine, 2017, 12, 147-155.	2.0	186
22	High-Resolution Magnetic Resonance Myocardial Perfusion Imaging at 3.0-Tesla to Detect Hemodynamically Significant Coronary Stenoses as Determined by Fractional Flow Reserve. Journal of the American College of Cardiology, 2011, 57, 70-75.	2.8	183
23	Effects of Vitamin D on Cardiac Function inÂPatients With Chronic HF. Journal of the American College of Cardiology, 2016, 67, 2593-2603.	2.8	179
24	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
25	Diffusion-weighted MRI determined cerebral embolic infarction following transcatheter aortic valve implantation: assessment of predictive risk factors and the relationship to subsequent health status. Heart, 2012, 98, 18-23.	2.9	162
26	Assessment of nonâ€“ST-segment elevation acute coronary syndromes with cardiac magnetic resonance imaging. Journal of the American College of Cardiology, 2004, 44, 2173-2181.	2.8	159
27	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
28	Comparison of Cardiovascular Magnetic Resonance and Single-Photon Emission Computed Tomography in Women With Suspected Coronary Artery Disease From the Clinical Evaluation of Magnetic Resonance Imaging in Coronary Heart Disease (CE-MARC) Trial. Circulation, 2014, 129, 1129-1138.	1.6	146
29	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
30	Dynamic contrastâ€enhanced myocardial perfusion MRI accelerated with <i>kâ€t</i> sense. Magnetic Resonance in Medicine, 2007, 58, 777-785.	3.0	138
31	Reperfusion haemorrhage as determined by cardiovascular MRI is a predictor of adverse left ventricular remodelling and markers of late arrhythmic risk. Heart, 2011, 97, 453-459.	2.9	136
32	Quantification of LV function and mass by cardiovascular magnetic resonance: multi-center variability and consensus contours. Journal of Cardiovascular Magnetic Resonance, 2015, 17, 63.	3.3	135
33	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
34	Coronary Artery Disease: Myocardial Perfusion MR Imaging with Sensitivity Encoding versus Conventional Angiography. Radiology, 2005, 235, 423-430.	7.3	116
35	Assessing Myocardial Extracellular Volume byÂT1ÂMapping to Distinguish Hypertrophic Cardiomyopathy From Athleteâ€™s Heart. Journal of the American College of Cardiology, 2016, 67, 2189-2190.	2.8	105
36	Validation of Dynamic 3-Dimensional Whole Heart Magnetic Resonance Myocardial Perfusion Imaging Against Fractional Flow Reserve for the Detection of Significant Coronary Artery Disease. Journal of the American College of Cardiology, 2012, 60, 756-765.	2.8	103

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37	Cine MRI using steady state free precession in the radial long axis orientation is a fast accurate method for obtaining volumetric data of the left ventricle. Journal of Magnetic Resonance Imaging, 2001, 14, 685-692.	3.4	101
38	The Prognostic Significance of Quantitative Myocardial Perfusion: An Artificial Intelligence Based Approach Using Perfusion Mapping. Circulation, 2020, 141, 1282-1291.	1.6	100
39	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
40	High spatial resolution myocardial perfusion cardiac magnetic resonance for the detection of coronary artery disease. European Heart Journal, 2008, 29, 2148-2155.	2.2	96
41	Coronary Artery Disease: Assessment with a Comprehensive MR Imaging Protocolâ€"Initial Results. Radiology, 2002, 225, 300-307.	7.3	95
42	Accelerated wholeâ€heart 3D CSPAMM for myocardial motion quantification. Magnetic Resonance in Medicine, 2008, 59, 755-763.	3.0	95
43	Athletic Cardiac Adaptation in Males Is a Consequence of Elevated Myocyte Mass. Circulation: Cardiovascular Imaging, 2016, 9, e003579.	2.6	95
44	Development of a universal dual-bolus injection scheme for the quantitative assessment of myocardial perfusion cardiovascular magnetic resonance. Journal of Cardiovascular Magnetic Resonance, 2011, 13, 28.	3.3	92
45	Assessment of valve haemodynamics, reverse ventricular remodelling and myocardial fibrosis following transcatheter aortic valve implantation compared to surgical aortic valve replacement: a cardiovascular magnetic resonance study. Heart, 2013, 99, 1185-1191.	2.9	91
46	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
47	Use of Cardiovascular Magnetic Resonance Imaging in Acute Coronary Syndromes. Circulation, 2009, 119, 1671-1681.	1.6	90
48	Cost-effectiveness of cardiovascular magnetic resonance in the diagnosis of coronary heart disease: an economic evaluation using data from the CE-MARC study. Heart, 2013, 99, 873-881.	2.9	90
49	The cost-effectiveness of transcatheter aortic valve implantation versus surgical aortic valve replacement in patients with severe aortic stenosis at high operative risk. Heart, 2013, 99, 914-920.	2.9	88
50	Diagnosis of Arrhythmogenic Right Ventricular Dysplasia: A Review. Radiographics, 2002, 22, 639-648.	3.3	87
51	k-Space and Time Sensitivity Encodingâ€"accelerated Myocardial Perfusion MR Imaging at 3.0 T: Comparison with 1.5 T. Radiology, 2008, 249, 493-500.	7.3	86
52	Design and rationale of the MR-INFORM study: stress perfusion cardiovascular magnetic resonance imaging to guide the management of patients with stable coronary artery disease. Journal of Cardiovascular Magnetic Resonance, 2012, 14, 77.	3.3	82
53	Appearance of microvascular obstruction on high resolution first-pass perfusion, early and late gadolinium enhancement CMR in patients with acute myocardial infarction. Journal of Cardiovascular Magnetic Resonance, 2009, 11, 33.	3.3	81
54	Prognostic Value of Cardiovascular Magnetic Resonance and Single-Photon Emission Computed Tomography in Suspected Coronary Heart Disease: Long-Term Follow-up of a Prospective, Diagnostic Accuracy Cohort Study. Annals of Internal Medicine, 2016, 165, 1.	3.9	80

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55	Timing of Cardiovascular MR Imaging after Acute Myocardial Infarction: Effect on Estimates of Infarct Characteristics and Prediction of Late Ventricular Remodeling. Radiology, 2011, 261, 116-126.	7.3	78
56	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
57	Three-Dimensional Coronary MR Angiography Performed with Subject-Specific Cardiac Acquisition Windows and Motion-Adapted Respiratory Gating. American Journal of Roentgenology, 2003, 180, 505-512.	2.2	75
58	ESC Core Curriculum for the General Cardiologist (2013). European Heart Journal, 2013, 34, 2381-2411.	2.2	75
59	Splenic Switch-off: A Tool to Assess Stress Adequacy in Adenosine Perfusion Cardiac MR Imaging. Radiology, 2015, 276, 732-740.	7.3	75
60	Troponin-I concentration 72 h after myocardial infarction correlates with infarct size and presence of microvascular obstruction. Heart, 2006, 93, 1547-1551.	2.9	74
61	Cell-based therapy for myocardial repair in patients with acute myocardial infarction: Rationale and study design of the SWiss multicenter Intracoronary Stem cells Study in Acute Myocardial Infarction (SWISS-AMI). American Heart Journal, 2010, 160, 58-64.	2.7	74
62	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. European Heart Journal Cardiovascular Imaging, 2017, 18, 1073-1089.	1.2	74
63	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
64	High resolution threeâ€dimensional cardiac perfusion imaging using compartmentâ€based <i>kâ€t</i> principal component analysis. Magnetic Resonance in Medicine, 2011, 65, 575-587.	3.0	68
65	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
66	Assessment of Coronary Artery Stenosis Severity and Location. JACC: Cardiovascular Imaging, 2013, 6, 600-609.	5.3	65
67	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
68	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
69	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
70	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
71	Comparison of the Diagnostic Performance of Four Quantitative Myocardial Perfusion Estimation Methods Used in Cardiac MR Imaging: CE-MARC Substudy. Radiology, 2015, 275, 393-402.	7.3	61
72	Assessment of Regional Left Ventricular Function: Accuracy and Reproducibility of Positioning Standard Short-Axis Sections in Cardiac MR Imaging. Radiology, 2005, 235, 229-236.	7.3	60

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73	The effect of microvascular obstruction and intramyocardial hemorrhage on contractile recovery in reperfused myocardial infarction: insights from cardiovascular magnetic resonance. Journal of Cardiovascular Magnetic Resonance, 2013, 15, 58.	3.3	58
74	Coronary and Microvascular Physiology During Intra-Aortic BalloonÂCounterpulsation. JACC: Cardiovascular Interventions, 2014, 7, 631-640.	2.9	58
75	Multicenter Evaluation of Dynamic Three-Dimensional Magnetic Resonance Myocardial Perfusion Imaging for the Detection of Coronary Artery Disease Defined by Fractional Flow Reserve. Circulation: Cardiovascular Imaging, 2015, 8, .	2.6	58
76	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
77	Comparison of right ventricular volume measurement between segmented k-space gradient-echo and steady-state free precession magnetic resonance imaging. Journal of Magnetic Resonance Imaging, 2002, 16, 253-258.	3.4	57
78	Myocardial Extracellular Volume Estimation by CMR Predicts Functional Recovery Following Acute MI. JACC: Cardiovascular Imaging, 2017, 10, 989-999.	5.3	57
79	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
80	Clinical e valuation of magnetic resonance imaging in coronary heart disease: The CE-MARC study. Trials, 2009, 10, 62.	1.6	54
81	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
82	The microvascular effects of insulin resistance and diabetes on cardiac structure, function, and perfusion: a cardiovascular magnetic resonance study. European Heart Journal Cardiovascular Imaging, 2014, 15, 1368-1376.	1.2	53
83	Sex-related differences in left ventricular remodeling in severe aortic stenosis and reverse remodeling after aortic valve replacement: A cardiovascular magnetic resonance study. American Heart Journal, 2016, 175, 101-111.	2.7	52
84	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
85	High-Resolution Versus Standard-Resolution Cardiovascular MR Myocardial Perfusion Imaging for the Detection of Coronary Artery Disease. Circulation: Cardiovascular Imaging, 2012, 5, 306-313.	2.6	51
86	Aortic Stiffness and Interstitial Myocardial Fibrosis by Native T1 Are Independently Associated With Left Ventricular Remodeling in Patients With Dilated Cardiomyopathy. Hypertension, 2014, 64, 762-768.	2.7	50
87	Firstâ€pass contrastâ€enhanced myocardial perfusion MRI in mice on a 3â€T clinical MR scanner. Magnetic Resonance in Medicine, 2010, 64, 1592-1598.	3.0	48
88	Synergistic Adaptations to Exercise in the Systemic and Coronary Circulations That Underlie the Warm-Up Angina Phenomenon. Circulation, 2012, 126, 2565-2574.	1.6	48
89	Qualitative and quantitative analysis of regional left ventricular wall dynamics using real-time magnetic resonance imaging: Comparison with conventional breath-hold gradient echo acquisition in volunteers and patients. Journal of Magnetic Resonance Imaging, 2001, 14, 23-30.	3.4	47
90	Training and accreditation in cardiovascular magnetic resonance in Europe: a position statement of the working group on cardiovascular magnetic resonance of the European Society of Cardiology. European Heart Journal, 2011, 32, 793-798.	2.2	46

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91	Serial Change in Health-Related Quality of Life Over 1 Year After Transcatheter Aortic Valve Implantation. Journal of the American College of Cardiology, 2012, 59, 1672-1680.	2.8	46
92	Reproducibility of firstâ€pass cardiovascular magnetic resonance myocardial perfusion. Journal of Magnetic Resonance Imaging, 2013, 37, 865-874.	3.4	46
93	The distribution and prognosis of anomalous coronary arteries identified by cardiovascular magnetic resonance: 15Âyear experience from two tertiary centres. Journal of Cardiovascular Magnetic Resonance, 2014, 16, 34.	3.3	46
94	Perfusion phantom: An efficient and reproducible method to simulate myocardial firstâ€pass perfusion measurements with cardiovascular magnetic resonance. Magnetic Resonance in Medicine, 2013, 69, 698-707.	3.0	43
95	Quantitative three-dimensional cardiovascular magnetic resonance myocardial perfusion imaging in systole and diastole. Journal of Cardiovascular Magnetic Resonance, 2014, 16, 19.	3.3	43
96	Visualization of coronary venous anatomy by cardiovascular magnetic resonance. Journal of Cardiovascular Magnetic Resonance, 2009, 11, 26.	3.3	42
97	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
98	Relationship of dysglycemia to acute myocardial infarct size and cardiovascular outcome as determined by cardiovascular magnetic resonance. Journal of Cardiovascular Magnetic Resonance, 2010, 12, 61.	3.3	41
99	Advanced Cardiovascular Magnetic Resonance Myocardial Perfusion Imaging. Circulation: Cardiovascular Imaging, 2013, 6, 339-348.	2.6	41
100	Myocardial blood flow at rest and stress measured with dynamic contrastâ€enhanced MRI: Comparison of a distributed parameter model with a fermi function model. Magnetic Resonance in Medicine, 2013, 70, 1591-1597.	3.0	41
101	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
102	Cardiovascular magnetic resonance of myocardial edema using a short inversion time inversion recovery (STIR) black-blood technique: Diagnostic accuracy of visual and semi-quantitative assessment. Journal of Cardiovascular Magnetic Resonance, 2012, 14, 22.	3.3	40
103	Increased cardiovascular mortality in African Americans with COVID-19. Lancet Respiratory Medicine,the, 2020, 8, 649-651.	10.7	40
104	Estimates of systolic and diastolic myocardial blood flow by dynamic contrastâ€enhanced MRI. Magnetic Resonance in Medicine, 2010, 64, 1696-1703.	3.0	39
105	Quantitative analysis of transmural gradients in myocardial perfusion magnetic resonance images. Magnetic Resonance in Medicine, 2011, 66, 1477-1487.	3.0	39
106	Relationship between Myocardial Edema and Regional Myocardial Function after Reperfused Acute Myocardial Infarction: An MR Imaging Study. Radiology, 2013, 267, 701-708.	7.3	39
107	Ischemic Burden by 3-Dimensional Myocardial Perfusion Cardiovascular Magnetic Resonance. Circulation: Cardiovascular Imaging, 2014, 7, 647-654.	2.6	39
108	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

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109	Accelerated CMR using zonal, parallel and prior knowledge driven imaging methods. Journal of Cardiovascular Magnetic Resonance, 2008, 10, 29.	3.3	38
110	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
111	Cardiovascular magnetic resonance of scar and ischemia burden early after acute ST elevation and non-ST elevation myocardial infarction. Journal of Cardiovascular Magnetic Resonance, 2008, 10, 47.	3.3	35
112	Clinical Feasibility of Accelerated, High Spatial Resolution Myocardial Perfusion Imaging. JACC: Cardiovascular Imaging, 2010, 3, 710-717.	5.3	35
113	Relationship of cardiac biomarkers and reversible and irreversible myocardial injury following acute myocardial infarction as determined by cardiovascular magnetic resonance. International Journal of Cardiology, 2013, 166, 458-464.	1.7	35
114	Quantitative myocardial perfusion in coronary artery disease: A perfusion mapping study. Journal of Magnetic Resonance Imaging, 2019, 50, 756-762.	3.4	35
115	Chronic infarct size after spontaneous coronary artery dissection: implications for pathophysiology and clinical management. European Heart Journal, 2020, 41, 2197-2205.	2.2	35
116	Left atrial voltage, circulating biomarkers of fibrosis, and atrial fibrillation ablation. A prospective cohort study. PLoS ONE, 2018, 13, e0189936.	2.5	34
117	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
118	Reproducibility of myocardial strain and left ventricular twist measured using complementary spatial modulation of magnetization. Journal of Magnetic Resonance Imaging, 2014, 39, 887-894.	3.4	32
119	Appropriateness criteria for cardiovascular imaging use in clinical practice: a position statement of the ESC/EACVI taskforce. European Heart Journal Cardiovascular Imaging, 2014, 15, 477-482.	1.2	32
120	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
121	Quantitative Myocardial Perfusion in Fabry Disease. Circulation: Cardiovascular Imaging, 2019, 12, e008872.	2.6	32
122	Sex and Heart Failure with Preserved Ejection Fraction: From Pathophysiology to Clinical Studies. Journal of Clinical Medicine, 2019, 8, 792.	2.4	32
123	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
124	Automated Inline Analysis of Myocardial Perfusion MRI with Deep Learning. Radiology: Artificial Intelligence, 2020, 2, e200009.	5.8	32
125	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
126	Construction and validation of anisotropic and orthotropic ventricular geometries for quantitative predictive cardiac electrophysiology. Interface Focus, 2011, 1, 101-116.	3.0	31

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127	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
128	Role of cardiovascular magnetic resonance imaging in cardio-oncology. European Heart Journal Cardiovascular Imaging, 2021, 22, 383-396.	1.2	31
129	Systolic versus Diastolic Acquisition in Myocardial Perfusion MR Imaging. Radiology, 2012, 262, 816-823.	7.3	30
130	Quantitative cardiovascular magnetic resonance perfusion imaging: inter-study reproducibility. European Heart Journal Cardiovascular Imaging, 2012, 13, 954-960.	1.2	30
131	Non-invasive cardiac imaging evaluation of patients with chronic systolic heart failure: a report from the European Association of Cardiovascular Imaging (EACVI). European Heart Journal, 2014, 35, 3417-3425.	2.2	30
132	Synthetic Myocardial Extracellular VolumeÂFraction. JACC: Cardiovascular Imaging, 2017, 10, 1402-1404.	5.3	30
133	Current perspectives in coronary microvascular dysfunction. Microcirculation, 2017, 24, e12340.	1.8	30
134	Cardiovascular magnetic resonance evaluation of symptomatic severe aortic stenosis: association of circumferential myocardial strain and mortality. Journal of Cardiovascular Magnetic Resonance, 2016, 19, 13.	3.3	30
135	Assessment of Multivessel Coronary Artery Disease Using Cardiovascular Magnetic Resonance Pixelwise Quantitative Perfusion Mapping. JACC: Cardiovascular Imaging, 2020, 13, 2546-2557.	5.3	30
136	Predicting myocardial infarction through retinal scans and minimal personal information. Nature Machine Intelligence, 2022, 4, 55-61.	16.0	30
137	Consequence of Cerebral Embolism After Transcatheter Aortic Valve Implantation Compared With Contemporary Surgical Aortic Valve Replacement. Circulation: Cardiovascular Interventions, 2015, 8, e001913.	3.9	29
138	Acute Reverse Remodelling After Transcatheter Aortic Valve Implantation: A Link Between Myocardial Fibrosis and Left Ventricular Mass Regression. Canadian Journal of Cardiology, 2016, 32, 1411-1418.	1.7	29
139	Coronary MR angiography at 3T: fat suppression versus water-fat separation. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2016, 29, 733-738.	2.0	29
140	Myocardial strain and symptom severity in severe aortic stenosis: insights from cardiovascular magnetic resonance. Quantitative Imaging in Medicine and Surgery, 2017, 7, 38-47.	2.0	29
141	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
142	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
143	Pharmacokinetic modeling of delayed gadolinium enhancement in the myocardium. Magnetic Resonance in Medicine, 2008, 60, 1524-1530.	3.0	28
144	Extra-cellular expansion in the normal, non-infarcted myocardium is associated with worsening of regional myocardial function after acute myocardial infarction. Journal of Cardiovascular Magnetic Resonance, 2016, 19, 73.	3.3	28

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145	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
146	Coronary Wave Energy. Circulation: Cardiovascular Interventions, 2013, 6, 166-175.	3.9	27
147	Cardiac remodelling and function with primary mitral valve insufficiency studied by magnetic resonance imaging. European Heart Journal Cardiovascular Imaging, 2016, 17, 863-870.	1.2	27
148	Automatic inâ€line quantitative myocardial perfusion mapping: Processing algorithm and implementation. Magnetic Resonance in Medicine, 2020, 83, 712-730.	3.0	27
149	Sex Differences in Aortic Stenosis and Outcome Following Surgical and Transcatheter Aortic Valve Replacement. Journal of Women's Health, 2015, 24, 986-995.	3.3	26
150	Relationship between cardiac deformation parameters measured by cardiovascular magnetic resonance and aerobic fitness in endurance athletes. Journal of Cardiovascular Magnetic Resonance, 2016, 18, 48.	3.3	26
151	Assessment of aortic stiffness by cardiovascular magnetic resonance following the treatment of severe aortic stenosis by TAVI and surgical AVR. Journal of Cardiovascular Magnetic Resonance, 2016, 18, 37.	3.3	26
152	Inline perfusion mapping provides insights into the disease mechanism in hypertrophic cardiomyopathy. Heart, 2020, 106, 824-829.	2.9	26
153	Rationale and design of the Clinical Evaluation of Magnetic Resonance Imaging in Coronary heart disease 2 trial (CE-MARC 2): A prospective, multicenter, randomized trial of diagnostic strategies in suspected coronary heart disease. American Heart Journal, 2015, 169, 17-24.e1.	2.7	25
154	Assessment of atrial fibrosis for the rhythm control of atrial fibrillation. International Journal of Cardiology, 2016, 220, 155-161.	1.7	25
155	Factors associated with falseâ€negative cardiovascular magnetic resonance perfusion studies: A Clinical evaluation of magnetic resonance imaging in coronary artery disease (CEâ€MARC) substudy. Journal of Magnetic Resonance Imaging, 2016, 43, 566-573.	3.4	25
156	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
157	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
158	Serum 25 hydroxy-vitamin D does not exhibit an acute phase reaction after acute myocardial infarction. Annals of Clinical Biochemistry, 2012, 49, 399-401.	1.6	24
159	Fractional flow reserve as the reference standard for myocardial perfusion studies: fool's gold?. European Heart Journal Cardiovascular Imaging, 2013, 14, 1211-1213.	1.2	24
160	Standard and emerging CMR methods for mitral regurgitation quantification. International Journal of Cardiology, 2021, 331, 316-321.	1.7	24
161	Virtual tissue engineering of the human atrium: Modelling pharmacological actions on atrial arrhythmogenesis. European Journal of Pharmaceutical Sciences, 2012, 46, 209-221.	4.0	23
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