

Marcus Carlsson

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6931747/publications.pdf>

Version: 2024-02-01

212
papers

5,370
citations

101543

36
h-index

102487

66
g-index

227
all docs

227
docs citations

227
times ranked

5526
citing authors

#	ARTICLE	IF	CITATIONS
1	Comparison of 2D and 4D Flow MRI in Neonates Without General Anesthesia. <i>Journal of Magnetic Resonance Imaging</i> , 2023, 57, 71-82.	3.4	4
2	Pulmonary perfusion and NYHA classification improve after cardiac resynchronization therapy. <i>Journal of Nuclear Cardiology</i> , 2022, 29, 2974-2983.	2.1	2
3	Myocardial perfusion by CMR coronary sinus flow shows sex differences and lowered perfusion at stress in patients with suspected microvascular angina. <i>Clinical Physiology and Functional Imaging</i> , 2022, 42, 208-219.	1.2	4
4	Hemodynamic force analysis is not ready for clinical trials on HFpEF. <i>Scientific Reports</i> , 2022, 12, 4017.	3.3	10
5	Validation and quantification of left ventricular function during exercise and free breathing from real-time cardiac magnetic resonance images. <i>Scientific Reports</i> , 2022, 12, 5611.	3.3	1
6	Computational Fluid Dynamics Support for Fontan Planning in Minutes, Not Hours: The Next Step in Clinical Pre-Interventional Simulations. <i>Journal of Cardiovascular Translational Research</i> , 2022, 15, 708-720.	2.4	6
7	Ventricular longitudinal function by cardiovascular magnetic resonance predicts cardiovascular morbidity in HFrEF patients. <i>ESC Heart Failure</i> , 2022, 9, 2313-2324.	3.1	3
8	Atrioventricular plane displacement and regional function to predict outcome in pulmonary arterial hypertension. <i>International Journal of Cardiovascular Imaging</i> , 2022, 38, 2235-2248.	0.6	1
9	Non-invasive quantification of pressure-volume loops in patients with Fontan circulation. <i>BMC Cardiovascular Disorders</i> , 2022, 22, .	1.7	1
10	Haemodynamic left ventricular changes during dobutamine stress in patients with atrial septal defect assessed with magnetic resonance imaging-based pressure-volume loops. <i>Clinical Physiology and Functional Imaging</i> , 2022, 42, 422-429.	1.2	3
11	Biventricular Pressure-Volume Loop Assessment Before and After Pulmonary Valve Replacement in Tetralogy of Fallot. <i>Journal of Thoracic Imaging</i> , 2022, 37, W70-W71.	1.5	2
12	Appropriate coronary revascularization can be accomplished if myocardial perfusion is quantified by positron emission tomography prior to treatment decision. <i>Journal of Nuclear Cardiology</i> , 2021, 28, 1664-1672.	2.1	3
13	High ECG Risk-Scores Predict Late Gadolinium Enhancement on Magnetic Resonance Imaging in HCM in the Young. <i>Pediatric Cardiology</i> , 2021, 42, 492-500.	1.3	10
14	Low diagnostic yield of ST elevation myocardial infarction amplitude criteria in chest pain patients at the emergency department. <i>Scandinavian Cardiovascular Journal</i> , 2021, 55, 145-152.	1.2	3
15	Multicenter Consistency Assessment of Valvular Flow Quantification With Automated Valve Tracking in 4D Flow CMR. <i>JACC: Cardiovascular Imaging</i> , 2021, 14, 1354-1366.	5.3	21
16	Hydraulic force is a novel mechanism of diastolic function that may contribute to decreased diastolic filling in HFpEF and facilitate filling in HFrEF. <i>Journal of Applied Physiology</i> , 2021, 130, 993-1000.	2.5	2
17	Are biventricular and biatrial function truly preserved after arterial switch operation?. <i>Heart</i> , 2021, 107, 1609-1610.	2.9	1
18	Anterior STEMI associated with decreased strain in remote cardiac myocardium. <i>International Journal of Cardiovascular Imaging</i> , 2021, , 1.	1.5	3

#	ARTICLE	IF	CITATIONS
19	Classification of carfentanil synthesis methods based on chemical impurity profile. <i>Forensic Chemistry</i> , 2021, 26, 100355.	2.8	3
20	Cardiac hypoxic resistance and decreasing lactate during maximum apnea in elite breath hold divers. <i>Scientific Reports</i> , 2021, 11, 2545.	3.3	2
21	To what extent are perfusion defects seen by myocardial perfusion SPECT in patients with left bundle branch block related to myocardial infarction, ECG characteristics, and myocardial wall motion?. <i>Journal of Nuclear Cardiology</i> , 2021, 28, 2910-2922.	2.1	6
22	Ventricular longitudinal shortening is an independent predictor of death in heart failure patients with reduced ejection fraction. <i>Scientific Reports</i> , 2021, 11, 20280.	3.3	2
23	Regional contributions to left ventricular stroke volume determined by cardiac magnetic resonance imaging in cardiac resynchronization therapy. <i>BMC Cardiovascular Disorders</i> , 2021, 21, 519.	1.7	0
24	Pulmonary blood volume measured by cardiovascular magnetic resonance: influence of pulmonary transit time methods and left atrial volume. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2021, 23, 123.	3.3	6
25	Diagnostic Accuracy Of The Electrocardiographic Decision Support “ Myocardial Ischaemia (EDS-MI) Algorithm In Detection Of Acute Coronary Occlusion. <i>European Heart Journal: Acute Cardiovascular Care</i> , 2020, 9, 13-25.	1.0	5
26	Qualitative assessments of myocardial ischemia by cardiac MRI and coronary stenosis by invasive coronary angiography in relation to quantitative perfusion by positron emission tomography in patients with known or suspected stable coronary artery disease. <i>Journal of Nuclear Cardiology</i> , 2020, 27, 2351-2359.	2.1	4
27	Measuring extracellular volume fraction by MRI: First verification of values given by clinical sequences. <i>Magnetic Resonance in Medicine</i> , 2020, 83, 662-672.	3.0	5
28	Valvular imaging in the era of feature tracking: A slice following cardiac MR sequence to measure mitral flow. <i>Journal of Magnetic Resonance Imaging</i> , 2020, 51, 1412-1421.	3.4	5
29	Changes in left and right ventricular longitudinal function after pulmonary valve replacement in patients with Tetralogy of Fallot. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2020, 318, H345-H353.	3.2	6
30	Decreased atrioventricular plane displacement after acute myocardial infarction yields a concomitant decrease in stroke volume. <i>Journal of Applied Physiology</i> , 2020, 128, 252-263.	2.5	7
31	Increased pulmonary blood volume variation in patients with heart failure compared to healthy controls: a noninvasive, quantitative measure of heart failure. <i>Journal of Applied Physiology</i> , 2020, 128, 324-337.	2.5	4
32	Cardiac Resynchronization Therapy Guided by Echocardiography, MRI, and CT Imaging. <i>JACC: Clinical Electrophysiology</i> , 2020, 6, 1300-1309.	3.2	31
33	Quantification of left ventricular contribution to stroke work by longitudinal and radial force-length loops. <i>Journal of Applied Physiology</i> , 2020, 129, 880-890.	2.5	4
34	Evolution of left ventricular function among subjects with ST-elevation myocardial infarction after percutaneous coronary intervention. <i>BMC Cardiovascular Disorders</i> , 2020, 20, 309.	1.7	3
35	Blood flow imaging by optimal matching of computational fluid dynamics to 4D-flow data. <i>Magnetic Resonance in Medicine</i> , 2020, 84, 2231-2245.	3.0	32
36	Validation and reproducibility of cardiovascular 4D-flow MRI from two vendors using 2 parallel imaging acceleration in pulsatile flow phantom and in vivo with and without respiratory gating. <i>Acta Radiologica</i> , 2019, 60, 327-337.	1.1	41

#	ARTICLE	IF	CITATIONS
37	Intracardiac 4D Flow MRI in Congenital Heart Disease: Recommendations on Behalf of the ISMRM Flow & Motion Study Group. <i>Journal of Magnetic Resonance Imaging</i> , 2019, 50, spcone.	3.4	35
38	Intracardiac 4D Flow MRI in Congenital Heart Disease: Recommendations on Behalf of the ISMRM Flow & Motion Study Group. <i>Journal of Magnetic Resonance Imaging</i> , 2019, 50, 677-681.	3.4	32
39	Gender but not diabetes, hypertension or smoking affects infarct evolution in ST-elevation myocardial infarction patients â€” data from the CHILL-MI, MITOCARE and SOCCER trials. <i>BMC Cardiovascular Disorders</i> , 2019, 19, 161.	1.7	5
40	Transcatheter closure of atrial septal defect in adults: time-course of atrial and ventricular remodeling and effects on exercise capacity. <i>International Journal of Cardiovascular Imaging</i> , 2019, 35, 2077-2084.	1.5	12
41	A new vessel segmentation algorithm for robust blood flow quantification from two-dimensional phase-contrast magnetic resonance images. <i>Clinical Physiology and Functional Imaging</i> , 2019, 39, 327-338.	1.2	15
42	Right ventricular remodeling after conduit replacement in patients with corrected tetralogy of Fallot - evaluation by cardiac magnetic resonance. <i>Journal of Cardiothoracic Surgery</i> , 2019, 14, 77.	1.1	7
43	Cardiac remodeling in aortic and mitral valve disease: a simulation study with clinical validation. <i>Journal of Applied Physiology</i> , 2019, 126, 1377-1389.	2.5	11
44	Heart filling exceeds emptying during late ventricular systole in patients with systolic heart failure and healthy subjects â€” a cardiac MRI study. <i>Clinical Physiology and Functional Imaging</i> , 2019, 39, 192-200.	1.2	1
45	Noninvasive Quantification of Pressure-Volume Loops From Brachial Pressure and Cardiovascular Magnetic Resonance. <i>Circulation: Cardiovascular Imaging</i> , 2019, 12, e008493.	2.6	49
46	Preoperative CT of cardiac veins for planning left ventricular lead placement in cardiac resynchronization therapy. <i>Acta Radiologica</i> , 2019, 60, 859-865.	1.1	10
47	Independent validation of metric optimized gating for fetal cardiovascular phase-contrast flow imaging. <i>Magnetic Resonance in Medicine</i> , 2019, 81, 495-503.	3.0	11
48	Ischemic QRS prolongation as a biomarker of myocardial injury in STEMI patients. <i>Annals of Noninvasive Electrocardiology</i> , 2019, 24, e12601.	1.1	4
49	Effect of oxygen therapy on myocardial salvage in ST elevation myocardial infarction: the randomized SOCCER trial. <i>European Journal of Emergency Medicine</i> , 2018, 25, 78-84.	1.1	34
50	Simulation of aortopulmonary collateral flow in Fontan patients for use in prediction of interventional outcomes. <i>Clinical Physiology and Functional Imaging</i> , 2018, 38, 622-629.	1.2	7
51	Correlation of anteroseptal ST elevation with myocardial infarction territories through cardiovascular magnetic resonance imaging. <i>Journal of Electrocardiology</i> , 2018, 51, 563-568.	0.9	4
52	Disturbed left and right ventricular kinetic energy in patients with repaired tetralogy of Fallot: pathophysiological insights using 4D-flow MRI. <i>European Radiology</i> , 2018, 28, 4066-4076.	4.5	45
53	Effect of oxygen therapy on chest pain in patients with ST elevation myocardial infarction: results from the randomized SOCCER trial. <i>Scandinavian Cardiovascular Journal</i> , 2018, 52, 69-73.	1.2	12
54	Response by Jablonowski et al to Letter Regarding Article, â€œCardiovascular Magnetic Resonance to Predict Appropriate Implantable Cardioverter Defibrillator Therapy in Ischemic and Nonischemic Cardiomyopathy Patients Using Late Gadolinium Enhancement Border Zone: Comparison of Four Analysis Methodsâ€” <i>Circulation: Cardiovascular Imaging</i> , 2018, 11, e007333.	2.6	0

#	ARTICLE	IF	CITATIONS
55	Functional Contribution of Circumferential Versus Longitudinal Strain. Journal of the American College of Cardiology, 2018, 71, 254-255.	2.8	6
56	Longitudinal left ventricular function is globally depressed within a week of <sc>STEMI</sc>. Clinical Physiology and Functional Imaging, 2018, 38, 1029-1037.	1.2	9
57	Discriminatory ability of right atrial volumes with two- and three-dimensional echocardiography to detect elevated right atrial pressure in pulmonary hypertension. Clinical Physiology and Functional Imaging, 2018, 38, 192-199.	1.2	4
58	Appropriateness of anteroseptal myocardial infarction nomenclature evaluated by late gadolinium enhancement cardiovascular magnetic resonance imaging. Journal of Electrocardiology, 2018, 51, 218-223.	0.9	2
59	Alterations in ventricular pumping in patients with atrial septal defect at rest, during dobutamine stress and after defect closure. Clinical Physiology and Functional Imaging, 2018, 38, 830-839.	1.2	7
60	Gender aspects on exercise-induced ECG changes in relation to scintigraphic evidence of myocardial ischaemia. Clinical Physiology and Functional Imaging, 2018, 38, 798-807.	1.2	3
61	Cardiac Magnetic Resonance Evaluation of the Extent of Myocardial Injury in Patients with Inferior ST Elevation Myocardial Infarction and Concomitant ST Depression in Leads V1-V3: Analysis from the MITOCARE Study. Cardiology, 2018, 140, 178-185.	1.4	6
62	Altered biventricular hemodynamic forces in patients with repaired tetralogy of Fallot and right ventricular volume overload because of pulmonary regurgitation. American Journal of Physiology - Heart and Circulatory Physiology, 2018, 315, H1691-H1702.	3.2	24
63	Hemodynamic forces using four-dimensional flow MRI: an independent biomarker of cardiac function in heart failure with left ventricular dyssynchrony?. American Journal of Physiology - Heart and Circulatory Physiology, 2018, 315, H1627-H1639.	3.2	27
64	The significance of ST-elevation in aVL in anterolateral myocardial infarction: An assessment by cardiac magnetic resonance imaging. Annals of Noninvasive Electrocardiology, 2018, 23, e12580.	1.1	7
65	Hemodynamic forces in the left and right ventricles of the human heart using 4D flow magnetic resonance imaging: Phantom validation, reproducibility, sensitivity to respiratory gating and free analysis software. PLoS ONE, 2018, 13, e0195597.	2.5	24
66	Decreased global myocardial perfusion at adenosine stress as a potential new biomarker for microvascular disease in systemic sclerosis: a magnetic resonance study. BMC Cardiovascular Disorders, 2018, 18, 16.	1.7	26
67	Chest-lead ST-elevation amplitudes using arm electrodes as reference instead of the Wilson central terminal in smartphone ECG applications: Influence on ST-elevation myocardial infarction criteria fulfillment. Annals of Noninvasive Electrocardiology, 2018, 23, e12549.	1.1	4
68	Importance of standardizing timing of hematocrit measurement when using cardiovascular magnetic resonance to calculate myocardial extracellular volume (ECV) based on pre- and post-contrast T1 mapping. Journal of Cardiovascular Magnetic Resonance, 2018, 20, 46.	3.3	22
69	Evaluation of the <sc>ECG</sc> based Selvester scoring method to estimate myocardial scar burden and predict clinical outcome in patients with left bundle branch block, with comparison to late gadolinium enhancement <sc>CMR</sc> imaging. Annals of Noninvasive Electrocardiology, 2017, 22, .	1.1	7
70	Left and right ventricular hemodynamic forces in healthy volunteers and elite athletes assessed with 4D flow magnetic resonance imaging. American Journal of Physiology - Heart and Circulatory Physiology, 2017, 312, H314-H328.	3.2	45
71	Hydraulic forces contribute to left ventricular diastolic filling. Scientific Reports, 2017, 7, 43505.	3.3	14
72	Decreased Diastolic Ventricular Kinetic Energy in Young Patients with Fontan Circulation Demonstrated by Four-Dimensional Cardiac Magnetic Resonance Imaging. Pediatric Cardiology, 2017, 38, 669-680.	1.3	30

#	ARTICLE	IF	CITATIONS
73	Isolated pulmonary regurgitation causes decreased right ventricular longitudinal function and compensatory increased septal pumping in a porcine model. <i>Acta Physiologica</i> , 2017, 221, 163-173.	3.8	14
74	Cardiovascular Magnetic Resonance to Predict Appropriate Implantable Cardioverter Defibrillator Therapy in Ischemic and Nonischemic Cardiomyopathy Patients Using Late Gadolinium Enhancement Border Zone. <i>Circulation: Cardiovascular Imaging</i> , 2017, 10, .	2.6	39
75	Effects of oxygen therapy on wall motion score index in patients with ST elevation myocardial infarction—the randomized SOCCER trial. <i>Echocardiography</i> , 2017, 34, 1130-1137.	0.9	10
76	Time-resolved tracking of the atrioventricular plane displacement in Cardiovascular Magnetic Resonance (CMR) images. <i>BMC Medical Imaging</i> , 2017, 17, 19.	2.7	35
77	Longitudinal shortening remains the principal component of left ventricular pumping in patients with chronic myocardial infarction even when the absolute atrioventricular plane displacement is decreased. <i>BMC Cardiovascular Disorders</i> , 2017, 17, 208.	1.7	15
78	Changes in blood volume shunting in patients with atrial septal defects: assessment of heart function with cardiovascular magnetic resonance during dobutamine stress. <i>European Heart Journal Cardiovascular Imaging</i> , 2017, 18, 1145-1152.	1.2	11
79	The impacts on healthcare when coronary angiography as the reference method for diagnostic accuracy of coronary artery disease is replaced by fractional flow reserve!. <i>European Heart Journal</i> , 2017, 38, 999-1001.	2.2	4
80	Sample Size in Clinical Cardioprotection Trials Using Myocardial Salvage Index, Infarct Size, or Biochemical Markers as Endpoint. <i>Journal of the American Heart Association</i> , 2016, 5, e002708.	3.7	31
81	The evolution of myocardium at risk by T2-STIR MR imaging the first week after acute myocardial ischemia. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2016, 18, P94.	3.3	0
82	Stress-induced ST elevation with or without concomitant ST depression is predictive of presence, location and amount of myocardial ischemia assessed by myocardial perfusion SPECT, whereas isolated stress-induced ST depression is not. <i>Journal of Electrocardiology</i> , 2016, 49, 307-315.	0.9	2
83	Multi-vendor, multicentre comparison of contrast-enhanced SSFP and T2-STIR CMR for determining myocardium at risk in ST-elevation myocardial infarction. <i>European Heart Journal Cardiovascular Imaging</i> , 2016, 17, 744-753.	1.2	47
84	Extent of Myocardium at Risk for Left Anterior Descending Artery, Right Coronary Artery, and Left Circumflex Artery Occlusion Depicted by Contrast-Enhanced Steady State Free Precession and T2-Weighted Short Tau Inversion Recovery Magnetic Resonance Imaging. <i>Circulation: Cardiovascular Imaging</i> , 2016, 9, .	2.6	20
85	Vortex ring behavior provides the epigenetic blueprint for the human heart. <i>Scientific Reports</i> , 2016, 6, 22021.	3.3	69
86	Right atrial volume measured by cardiac magnetic resonance correlates with NT-ProBNP and invasive right atrial pressure in pulmonary hypertension, with and without systemic sclerosis. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2016, 18, P300.	3.3	0
87	MR photography of 3D-MR images. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2016, 18, P33.	3.3	0
88	The shape of the healthy heart is optimized for vortex ring formation. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2016, 18, O23.	3.3	3
89	Improvement of computational fluid dynamics simulations of flow in patients with total cavo pulmonary connection and predicting interventional outcomes. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2016, 18, O72.	3.3	1
90	Patients with Tetralogy of Fallot have lower systolic KE in the left ventricle and higher diastolic KE in the right ventricle. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2016, 18, P184.	3.3	0

#	ARTICLE	IF	CITATIONS
91	New automatic algorithm for segmentation of myocardial scar in both inversion recovery and phase sensitive inversion recovery late gadolinium enhancement: validation against TTC and in multi-center, multi-vendor patient data. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2016, 18, P221.	3.3	0
92	Patients with Cardiac syndrome X have decreased global myocardial perfusion compared to gender matched controls; insights from CMR coronary sinus flow measurements. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2016, 18, P240.	3.3	0
93	Automated time-resolved tracking algorithm of the atrioventricular plane displacement in CMR images. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2016, 18, P43.	3.3	0
94	Myocardial perfusion using cardiac magnetic resonance: Evidence of decreased global myocardial perfusion in patients with systemic sclerosis with possible gender differences. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2016, 18, P71.	3.3	0
95	Intracardiac hemodynamic forces using 4D flow: a new reproducible method applied to healthy controls, elite athletes and heart failure patients. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2016, 18, Q61.	3.3	5
96	Independent validation of four-dimensional flow MR velocities and vortex ring volume using particle imaging velocimetry and planar laser-induced fluorescence. <i>Magnetic Resonance in Medicine</i> , 2016, 75, 1064-1075.	3.0	35
97	A new automatic algorithm for quantification of myocardial infarction imaged by late gadolinium enhancement cardiovascular magnetic resonance: experimental validation and comparison to expert delineations in multi-center, multi-vendor patient data. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2016, 18, 27.	3.3	67
98	The Authors Reply. <i>JACC: Cardiovascular Imaging</i> , 2016, 9, 1016-1017.	5.3	0
99	Automatic segmentation of myocardium at risk from contrast enhanced SSFP CMR: validation against expert readers and SPECT. <i>BMC Medical Imaging</i> , 2016, 16, 19.	2.7	11
100	Vortex ring mixing as a measure of diastolic function of the human heart: Phantom validation and initial observations in healthy volunteers and patients with heart failure. <i>Journal of Magnetic Resonance Imaging</i> , 2016, 43, 1386-1397.	3.4	15
101	Experimental validation of contrast-enhanced SSFP cine CMR for quantification of myocardium at risk in acute myocardial infarction. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2016, 19, 12.	3.3	22
102	Fully quantitative cardiovascular magnetic resonance myocardial perfusion ready for clinical use: a comparison between cardiovascular magnetic resonance imaging and positron emission tomography. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2016, 19, 78.	3.3	110
103	Letter to the Editor: Atrioventricular plane displacement is not the sole mechanism of atrial and ventricular refill. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2015, 309, H1094-H1096.	3.2	4
104	Left ventricular fluid kinetic energy time curves in heart failure from cardiovascular magnetic resonance 4D flow data. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2015, 17, 111.	3.3	76
105	Submaximal adenosine-induced coronary hyperaemia with 12h caffeine abstinence: implications for clinical adenosine perfusion imaging tests. <i>Clinical Physiology and Functional Imaging</i> , 2015, 35, 49-56.	1.2	24
106	Validation and Development of a New Automatic Algorithm for Time-Resolved Segmentation of the Left Ventricle in Magnetic Resonance Imaging. <i>BioMed Research International</i> , 2015, 2015, 1-12.	1.9	33
107	Peripheral microvascular function is altered in young individuals at risk for hypertrophic cardiomyopathy and correlates with myocardial diastolic function. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2015, 308, H1351-H1358.	3.2	15
108	Therapeutic Hypothermia for the Treatment of Acute Myocardial Infarction—Combined Analysis of the RAPID MI-ICE and the CHILL-MI Trials. <i>Therapeutic Hypothermia and Temperature Management</i> , 2015, 5, 77-84.	0.9	54

#	ARTICLE	IF	CITATIONS
109	Contrast-Enhanced CMR Overestimates Early Myocardial Infarct Size. JACC: Cardiovascular Imaging, 2015, 8, 1379-1389.	5.3	55
110	Computerized decision making in myocardial perfusion SPECT: The new era in nuclear cardiology?. Journal of Nuclear Cardiology, 2015, 22, 885-887.	2.1	4
111	Semi-automatic segmentation of myocardium at risk from contrast enhanced SSFP images - validation against manual delineation and SPECT. Journal of Cardiovascular Magnetic Resonance, 2015, 17, Q127.	3.3	0
112	The Effects of Oxygen Therapy on Myocardial Salvage in ST Elevation Myocardial Infarction Treated with Acute Percutaneous Coronary Intervention: The Supplemental Oxygen in Catheterized Coronary Emergency Reperfusion (SOCCER) Study. Cardiology, 2015, 132, 16-21.	1.4	21
113	Phantom validation of 4D flow: independent validation of flow velocity quantification using particle imaging velocimetry. Journal of Cardiovascular Magnetic Resonance, 2015, 17, O18.	3.3	0
114	Myocardium at risk quantified by contrast enhanced steady-state free precession does not differ in extent or severity when comparing patients with ST-elevation myocardial infarction treated with standard reperfusion or postconditioning. Journal of Cardiovascular Magnetic Resonance, 2015, 17, P105.	3.3	0
115	Head-to-head comparison of myocardial perfusion SPECT and CMR for assessment of myocardial ischemia. Journal of Cardiovascular Magnetic Resonance, 2015, 17, P119.	3.3	0
116	The extent of myocardium at risk for LAD, RCA and LCx using contrast enhanced SSFP and T2-weighted imaging. Journal of Cardiovascular Magnetic Resonance, 2015, 17, P139.	3.3	0
117	Prediction of appropriate ICD-therapy using infarct heterogeneity from CMR in patients with coronary artery disease. Journal of Cardiovascular Magnetic Resonance, 2015, 17, P165.	3.3	0
118	Performance of contrast enhanced SSFP and T2-weighted imaging for determining myocardium at risk in a multi-vendor, multi-center setting- data from the MITOCARE and CHILL-MI trials. Journal of Cardiovascular Magnetic Resonance, 2015, 17, P194.	3.3	1
119	Regional contributions to ventricular stroke volumes are affected on the left side, and not on the right in patients with pulmonary hypertension. Journal of Cardiovascular Magnetic Resonance, 2015, 17, P294.	3.3	1
120	Atrial and ventricular kinetic energy is higher in athletes compared to healthy controls and contributes to improve diastolic filling of the ventricles. Journal of Cardiovascular Magnetic Resonance, 2015, 17, .	3.3	1
121	Phantom validation of 4D flow: independent validation of vortex ring volume quantification using planar laser-induced fluorescence. Journal of Cardiovascular Magnetic Resonance, 2015, 17, P38.	3.3	1
122	Validation and development of a new automatic algorithm for time resolved segmentation of the left ventricle in magnetic resonance imaging. Journal of Cardiovascular Magnetic Resonance, 2015, 17, P68.	3.3	15
123	Hydraulic forces contribute to left ventricular diastolic filling. Journal of Cardiovascular Magnetic Resonance, 2015, 17, P79.	3.3	0
124	Design of clinical cardioprotection trials using CMR: impact of myocardial salvage index and a narrow inclusion window on sample size. Journal of Cardiovascular Magnetic Resonance, 2015, 17, P90.	3.3	1
125	Whole-heart 4D flow can be acquired with preserved quality without respiratory gating facilitating clinical use. Journal of Cardiovascular Magnetic Resonance, 2015, 17, .	3.3	2
126	Regional adenosine-induced hypoperfusion without hyperenhancement on LGE-MRI in young HCM patients: comparison to subjects at risk of HCM and healthy volunteers. Journal of Cardiovascular Magnetic Resonance, 2015, 17, Q51.	3.3	0

#	ARTICLE	IF	CITATIONS
127	Factors determining exercise capacity in patients with atrial septal defect: assessment of heart function with CMR during dobutamine stress. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2015, 17, .	3.3	0
128	Alterations in right ventricular pumping in patients with atrial septal defect at rest and during dobutamine stress. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2015, 17, Q86.	3.3	0
129	Regional Stress-Induced Ischemia in Non-fibrotic Hypertrophied Myocardium in Young HCM Patients. <i>Pediatric Cardiology</i> , 2015, 36, 1662-1669.	1.3	20
130	Whole-heart four-dimensional flow can be acquired with preserved quality without respiratory gating, facilitating clinical use: a head-to-head comparison. <i>BMC Medical Imaging</i> , 2015, 15, 20.	2.7	42
131	Effect of intravenous TRO40303 as an adjunct to primary percutaneous coronary intervention for acute ST-elevation myocardial infarction: MITOCARE study results. <i>European Heart Journal</i> , 2015, 36, 112-119.	2.2	154
132	Young patients with hypertrophic cardiomyopathy, but not subjects at risk, show decreased myocardial perfusion reserve quantified with CMR. <i>European Heart Journal Cardiovascular Imaging</i> , 2014, 15, 1350-1357.	1.2	20
133	Infarct size is overestimated by contrast-enhanced CMR in the acute phase but not at 7 days when compared with histopathology. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2014, 16, O67.	3.3	0
134	Validation of an automated method to quantify stress-induced ischemia and infarction in rest-stress myocardial perfusion SPECT. <i>Journal of Nuclear Cardiology</i> , 2014, 21, 503-518.	2.1	4
135	A new method for vessel segmentation based on a priori input from medical expertise in cine phase-contrast Magnetic Resonance Imaging. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2014, 16, P355.	3.3	10
136	Moderate intensity supine exercise causes decreased cardiac volumes and increased outer volume variations - a cardiac magnetic resonance imaging study. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2014, 16, P38.	3.3	0
137	Left ventricular myocardial perfusion in young patients evaluated for hypertrophic cardiomyopathy at rest and during adenosine hyperemia using cardiac magnetic resonance imaging. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2014, 16, P163.	3.3	0
138	Rapid Endovascular Catheter Core Cooling Combined With Cold Saline as an Adjunct to Percutaneous Coronary Intervention for the Treatment of Acute Myocardial Infarction. <i>Journal of the American College of Cardiology</i> , 2014, 63, 1857-1865.	2.8	203
139	A comparison between radial strain evaluation by speckle-tracking echocardiography and cardiac magnetic resonance imaging, for assessment of suitable segments for left ventricular lead placement in cardiac resynchronization therapy. <i>Europace</i> , 2014, 16, 1779-1786.	1.7	27
140	The relationship between longitudinal, lateral, and septal contribution to stroke volume in patients with pulmonary regurgitation and healthy volunteers. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2014, 306, H895-H903.	3.2	38
141	Coronary flow dynamics in children after repair of Tetralogy of Fallot. <i>International Journal of Cardiology</i> , 2014, 172, 122-126.	1.7	5
142	Quantification of myocardial salvage by myocardial perfusion SPECT and cardiac magnetic resonance - reference standards for ECG development. <i>Journal of Electrocardiology</i> , 2014, 47, 525-534.	0.9	4
143	Combined preoperative information using a bullseye plot from speckle tracking echocardiography, cardiac CT scan, and MRI scan: targeted left ventricular lead implantation in patients receiving cardiac resynchronization therapy. <i>European Heart Journal Cardiovascular Imaging</i> , 2014, 15, 523-531.	1.2	31
144	Head-to-head comparison of a 2-day myocardial perfusion gated SPECT protocol and cardiac magnetic resonance late gadolinium enhancement for the detection of myocardial infarction. <i>Journal of Nuclear Cardiology</i> , 2013, 20, 797-803.	2.1	4

#	ARTICLE	IF	CITATIONS
145	Vortex formation ratio in heart failure compared to healthy volunteers at rest and during exercise. Journal of Cardiovascular Magnetic Resonance, 2013, 15, O65.	3.3	0
146	Validation of an algorithm for left ventricular segmentation in 150 patients shows potential for further development towards fully automatic segmentation. Journal of Cardiovascular Magnetic Resonance, 2013, 15, E30.	3.3	1
147	T2-STIR CMR imaging can be used to assess myocardium at risk with gadolinium present in an experimental setting. Journal of Cardiovascular Magnetic Resonance, 2013, 15, .	3.3	0
148	Quantification of left and right atrial kinetic energy using four-dimensional intracardiac magnetic resonance imaging flow measurements. Journal of Cardiovascular Magnetic Resonance, 2013, 15, P218.	3.3	4
149	Vortex ring mixing in the left ventricle of the human heart. Journal of Cardiovascular Magnetic Resonance, 2013, 15, E27.	3.3	2
150	Longitudinal strain from velocity encoded cardiovascular magnetic resonance: a validation study. Journal of Cardiovascular Magnetic Resonance, 2013, 15, 15.	3.3	14
151	Moderate intensity supine exercise causes decreased cardiac volumes and increased outer volume variations: a cardiovascular magnetic resonance study. Journal of Cardiovascular Magnetic Resonance, 2013, 15, 96.	3.3	31
152	Infarct quantification using 3D inversion recovery and 2D phase sensitive inversion recovery; validation in patients and ex vivo. BMC Cardiovascular Disorders, 2013, 13, 110.	1.7	16
153	Reduced administered activity, reduced acquisition time, and preserved image quality for the new CZT camera. Journal of Nuclear Cardiology, 2013, 20, 38-44.	2.1	62
154	Restrictive right ventricular physiology after Tetralogy of Fallot repair is associated with fibrosis of the right ventricular outflow tract visualized on cardiac magnetic resonance imaging. European Heart Journal Cardiovascular Imaging, 2013, 14, 978-985.	1.2	44
155	Quantification of left and right atrial kinetic energy using four-dimensional intracardiac magnetic resonance imaging flow measurements. Journal of Applied Physiology, 2013, 114, 1472-1481.	2.5	53
156	Myocardium at risk can be determined by ex vivo T2-weighted magnetic resonance imaging even in the presence of gadolinium: comparison to myocardial perfusion single photon emission computed tomography. European Heart Journal Cardiovascular Imaging, 2013, 14, 261-268.	1.2	15
157	Quantification of left and right ventricular kinetic energy using four-dimensional intracardiac magnetic resonance imaging flow measurements. American Journal of Physiology - Heart and Circulatory Physiology, 2012, 302, H893-H900.	3.2	117
158	Myocardium at risk by magnetic resonance imaging: head-to-head comparison of T2-weighted imaging and contrast-enhanced steady-state free precession. European Heart Journal Cardiovascular Imaging, 2012, 13, 1008-1015.	1.2	34
159	Variable velocity encoding in a three-dimensional, three-directional phase contrast sequence: Evaluation in phantom and volunteers. Journal of Magnetic Resonance Imaging, 2012, 36, 1450-1459.	3.4	28
160	Vortex Ring Formation in the Left Ventricle of the Heart: Analysis by 4D Flow MRI and Lagrangian Coherent Structures. Annals of Biomedical Engineering, 2012, 40, 2652-2662.	2.5	114
161	Semi-automatic segmentation of myocardium at risk in T2-weighted cardiovascular magnetic resonance. Journal of Cardiovascular Magnetic Resonance, 2012, 14, 20.	3.3	22
162	Cardiac output and cardiac index measured with cardiovascular magnetic resonance in healthy subjects, elite athletes and patients with congestive heart failure. Journal of Cardiovascular Magnetic Resonance, 2012, 14, 51.	3.3	77

#	ARTICLE	IF	CITATIONS
163	Manual correction of semi-automatic three-dimensional echocardiography is needed for right ventricular assessment in adults; validation with cardiac magnetic resonance. <i>Cardiovascular Ultrasound</i> , 2012, 10, 1.	1.6	43
164	Myocardium at risk by magnetic resonance imaging: head-to-head comparison of T2-weighted imaging and early gadolinium enhanced steady state free precession. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2012, 14, .	3.3	0
165	Automatic segmentation of myocardium at risk in T2-weighted cardiovascular magnetic resonance. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2012, 14, .	3.3	0
166	Infarct quantification using 3D inversion recovery and 2D phase sensitive inversion recovery, validation in patients and ex vivo. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2012, 14, .	3.3	0
167	Quantification of the contribution of septal movement to stroke volume in healthy subjects, athletes, patients with pulmonary insufficiency and patients with pulmonary hypertension. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2012, 14, .	3.3	0
168	FourFlow - open source code software for quantification and visualization of time-resolved three-directional phase contrast magnetic resonance velocity mapping. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2012, 14, .	3.3	4
169	Diastolic vortex ring formation in the human left ventricle: quantitative analysis using Lagrangian coherent structures and 4D cardiovascular magnetic resonance velocity mapping. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2012, 14, .	3.3	3
170	Impaired regional left ventricular strain after repair of tetralogy of fallot. <i>Journal of Magnetic Resonance Imaging</i> , 2012, 35, 79-85.	3.4	19
171	Coronary microembolization causes long-term detrimental effects on regional left ventricular function. <i>Scandinavian Cardiovascular Journal</i> , 2011, 45, 205-214.	1.2	10
172	Effects of oxygen inhalation on cardiac output, coronary blood flow and oxygen delivery in healthy individuals, assessed with MRI. <i>European Journal of Emergency Medicine</i> , 2011, 18, 25-30.	1.1	41
173	Development and validation of a new automatic algorithm for quantification of left ventricular volumes and function in gated myocardial perfusion SPECT using cardiac magnetic resonance as reference standard. <i>Journal of Nuclear Cardiology</i> , 2011, 18, 874-885.	2.1	15
174	Volume Tracking: A new method for quantitative assessment and visualization of intracardiac blood flow from three-dimensional, time-resolved, three-component magnetic resonance velocity mapping. <i>BMC Medical Imaging</i> , 2011, 11, 10.	2.7	25
175	Quantification and visualization of cardiovascular 4D velocity mapping accelerated with parallel imaging or k-t BLAST: head to head comparison and validation at 1.5 T and 3 T. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2011, 13, 55.	3.3	91
176	Validation of blood flow partitioning in 4D phase contrast CMR measurements using lagrangian coherent structures. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2011, 13, .	3.3	2
177	Design and validation of Segment - freely available software for cardiovascular image analysis. <i>BMC Medical Imaging</i> , 2010, 10, 1.	2.7	725
178	Agreement of left ventricular mass in steady state free precession and delayed enhancement MR images: implications for quantification of fibrosis in congenital and ischemic heart disease. <i>BMC Medical Imaging</i> , 2010, 10, 4.	2.7	7
179	Cardiovascular magnetic resonance of the myocardium at risk in acute reperfused myocardial infarction: comparison of T2-weighted imaging versus the circumferential endocardial extent of late gadolinium enhancement with transmural projection. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2010, 12, 18.	3.3	42
180	Peak oxygen uptake in relation to total heart volume discriminates heart failure patients from healthy volunteers and athletes. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2010, 12, 74.	3.3	10

#	ARTICLE	IF	CITATIONS
181	Relation between cardiac dimensions and peak oxygen uptake. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2010, 12, 8.	3.3	85
182	A Pilot Study of Rapid Cooling by Cold Saline and Endovascular Cooling Before Reperfusion in Patients With ST-Elevation Myocardial Infarction. <i>Circulation: Cardiovascular Interventions</i> , 2010, 3, 400-407.	3.9	223
183	Short-axis epicardial volume change is a measure of cardiac left ventricular short-axis function, which is independent of myocardial wall thickness. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2010, 298, H530-H535.	3.2	14
184	Heterogeneous Microinfarcts Caused by Coronary Microemboli: Evaluation with Multidetector CT and MR Imaging in a Swine Model. <i>Radiology</i> , 2010, 254, 718-728.	7.3	31
185	Percutaneous transendocardial VEGF gene therapy: MRI guided delivery and characterization of 3D myocardial strain. <i>International Journal of Cardiology</i> , 2010, 143, 255-263.	1.7	11
186	Myocardial Microinfarction after Coronary Microembolization in Swine: MR Imaging Characterization. <i>Radiology</i> , 2009, 250, 703-713.	7.3	48
187	Persistent decline in longitudinal and radial strain after coronary microembolization detected on velocity encoded phase contrast magnetic resonance imaging. <i>Journal of Magnetic Resonance Imaging</i> , 2009, 30, 69-76.	3.4	12
188	Magnetic resonance imaging quantification of left ventricular dysfunction following coronary microembolization. <i>Magnetic Resonance in Medicine</i> , 2009, 61, 595-602.	3.0	31
189	Negative predictive value and potential cost savings of acute nuclear myocardial perfusion imaging in low risk patients with suspected acute coronary syndrome: A prospective single blinded study. <i>BMC Emergency Medicine</i> , 2009, 9, 12.	1.9	18
190	Disappearance of myocardial perfusion defects on prone SPECT imaging: Comparison with cardiac magnetic resonance imaging in patients without established coronary artery disease. <i>BMC Medical Imaging</i> , 2009, 9, 16.	2.7	10
191	Cardiovascular effects of inhaled oxygen assessed with magnetic resonance imaging. <i>Scandinavian Journal of Trauma, Resuscitation and Emergency Medicine</i> , 2009, 17, O9.	2.6	0
192	Myocardium at Risk After Acute Infarction in Humans on Cardiac Magnetic Resonance. <i>JACC: Cardiovascular Imaging</i> , 2009, 2, 569-576.	5.3	184
193	Quantifying coronary sinus flow and global LV perfusion at 3T. <i>BMC Medical Imaging</i> , 2009, 9, 9.	2.7	26
194	XMR is a useful modality to guide, map and quantify the perfusion territories of coronary arteries. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2009, 11, .	3.3	0
195	Myocardium at risk and myocardial salvage after acute infarction in humans; quantification by magnetic resonance imaging. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2009, 11, .	3.3	1
196	Potential of multidetector computed tomography and magnetic resonance imaging in quantifying left ventricular function, perfusion and viability of chronic microinfarction. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2009, 11, .	3.3	0
197	Identification of residual ischemia, infarction, and microvascular impairment in revascularized myocardial infarction using 64-slice MDCT. <i>Contrast Media and Molecular Imaging</i> , 2008, 3, 198-206.	0.8	12
198	Coronary artery stenosis in asymptomatic child after arterial switch operation: detection by transthoracic colour-flow doppler echocardiography. <i>Acta Paediatrica, International Journal of Paediatrics</i> , 2008, 97, 376-378.	1.5	9

#	ARTICLE	IF	CITATIONS
199	Magnetic resonance imaging as a potential gold standard for infarct quantification. <i>Journal of Electrocardiology</i> , 2008, 41, 614-620.	0.9	34
200	Intracoronary Injection of Contrast Media Maps the Territory of the Coronary Artery. <i>Academic Radiology</i> , 2008, 15, 1354-1359.	2.5	12
201	Quantitative MR measurements of regional and global left ventricular function and strain after intramyocardial transfer of VM202 into infarcted swine myocardium. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2008, 295, H522-H532.	3.2	49
202	Peak CKMB and cTnT accurately estimates myocardial infarct size after reperfusion. <i>Scandinavian Cardiovascular Journal</i> , 2007, 41, 44-50.	1.2	41
203	The quantitative relationship between longitudinal and radial function in left, right, and total heart pumping in humans. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2007, 293, H636-H644.	3.2	158
204	Atrioventricular plane displacement is the major contributor to left ventricular pumping in healthy adults, athletes, and patients with dilated cardiomyopathy. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2007, 292, H1452-H1459.	3.2	207
205	The endocardial extent of reperfused first-time myocardial infarction is more predictive of pathologic Q waves than is infarct transmural: a magnetic resonance imaging study. <i>Clinical Physiology and Functional Imaging</i> , 2007, 27, 101-108.	1.2	23
206	High-frequency electrocardiogram analysis in the ability to predict reversible perfusion defects during adenosine myocardial perfusion imaging. <i>Journal of Electrocardiology</i> , 2007, 40, 510-514.	0.9	9
207	Interdependence between measures of extent and severity of myocardial perfusion defects provided by automatic quantification programs. <i>Nuclear Medicine Communications</i> , 2005, 26, 1125-1130.	1.1	5
208	Evaluation of left ventricular volumes and ejection fraction by automated gated myocardial SPECT versus cardiovascular magnetic resonance. <i>Clinical Physiology and Functional Imaging</i> , 2005, 25, 135-141.	1.2	49
209	Comparison of 1- and 2-day protocols for myocardial SPECT: a Monte Carlo study. <i>Clinical Physiology and Functional Imaging</i> , 2005, 25, 189-195.	1.2	9
210	Center of volume and total heart volume variation in healthy subjects and patients before and after coronary bypass surgery. <i>Clinical Physiology and Functional Imaging</i> , 2005, 25, 226-233.	1.2	13
211	Quantitative polar representation of left ventricular myocardial perfusion, function and viability using SPECT and cardiac magnetic resonance: initial results. <i>Clinical Physiology and Functional Imaging</i> , 2005, 25, 215-222.	1.2	24
212	Total heart volume variation throughout the cardiac cycle in humans. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2004, 287, H243-H250.	3.2	106