Rob J Van Der Geest

List of Publications by Citations

272 papers	8,620 citations	51 h-index	82 g-index
290 ext. papers	10,064 ext. citations	5.5 avg, IF	5.65 L-index

#	Paper	IF	Citations
272	Infarct tissue heterogeneity assessed with contrast-enhanced MRI predicts spontaneous ventricular arrhythmia in patients with ischemic cardiomyopathy and implantable cardioverter-defibrillator. *Circulation: Cardiovascular Imaging*, **2009**, 2, 183-90	3.9	329
271	3-D active appearance models: segmentation of cardiac MR and ultrasound images. *IEEE Transactions on Medical Imaging*, **2002**, 21, 1167-78	11.7	275
270	Comparison of echocardiographic methods with magnetic resonance imaging for assessment of right ventricular function in children. *American Journal of Cardiology*, **1995**, 76, 589-94	3	225
269	T1 Mapping in cardiomyopathy at cardiac MR: comparison with endomyocardial biopsy. *Radiology*, **2012**, 265, 724-32	20.5	218
268	Evaluation of age-related interstitial myocardial fibrosis with cardiac magnetic resonance contrast-enhanced T1 mapping: MESA (Multi-Ethnic Study of Atherosclerosis). *Journal of the American College of Cardiology*, **2013**, 62, 1280-1287	15.1	216
267	Right ventricular diastolic function in children with pulmonary regurgitation after repair of tetralogy of Fallot: volumetric evaluation by magnetic resonance velocity mapping. *Journal of the American College of Cardiology*, **1996**, 28, 1827-35	15.1	203
266	Comparison between manual and semiautomated analysis of left ventricular volume parameters from short-axis MR images. *Journal of Computer Assisted Tomography*, **1997**, 21, 756-65	2.2	167
265	Reproducibility of MRI-derived measurements of right ventricular volumes and myocardial mass. *Magnetic Resonance Imaging*, **1995**, 13, 53-63	3.3	163
264	Head-to-head comparison of contrast-enhanced magnetic resonance imaging and electroanatomical voltage mapping to assess post-infarct scar characteristics in patients with ventricular tachycardias: real-time image integration and reversed registration. *European Heart Journal*, **2011**, 32, 104-14	9.5	152
263	Validation and reproducibility of aortic pulse wave velocity as assessed with velocity-encoded MRI. *Journal of Magnetic Resonance Imaging*, **2009**, 30, 521-6	5.6	146
262	Quantification in cardiac MRI. *Journal of Magnetic Resonance Imaging*, **1999**, 10, 602-8	5.6	143
261	Quantification of functional mitral regurgitation by real-time 3D echocardiography: comparison with 3D velocity-encoded cardiac magnetic resonance. *JACC: Cardiovascular Imaging*, **2009**, 2, 1245-52	8.4	134
260	Reproducibility of total cerebral blood flow measurements using phase contrast magnetic resonance imaging. *Journal of Magnetic Resonance Imaging*, **2002**, 16, 1-5	5.6	122
259	Feasibility of tissue magnetic resonance imaging: a pilot study in comparison with tissue Doppler imaging and invasive measurement. *Journal of the American College of Cardiology*, **2005**, 45, 1109-16	15.1	118
258	Contrast-enhanced MRI-derived scar patterns and associated ventricular tachycardias in nonischemic cardiomyopathy: implications for the ablation strategy. *Circulation: Arrhythmia and Electrophysiology*, **2013**, 6, 875-83	6.4	116
257	Assessment of left ventricular dyssynchrony in patients with conduction delay and idiopathic dilated cardiomyopathy: head-to-head comparison between tissue doppler imaging and velocity-encoded magnetic resonance imaging. *Journal of the American College of Cardiology*, **2006**, 47, 2042-8	15.1	112
256	Detection and quantification of dysfunctional myocardium by magnetic resonance imaging. A new three-dimensional method for quantitative wall-thickening analysis. *Circulation*, **1997**, 95, 924-31	16.7	111

255	Deep Learning-based Method for Fully Automatic Quantification of Left Ventricle Function from Cine MR Images: A Multivendor, Multicenter Study. *Radiology*, **2019**, 290, 81-88	20.5	107
254	Flow assessment through four heart valves simultaneously using 3-dimensional 3-directional velocity-encoded magnetic resonance imaging with retrospective valve tracking in healthy volunteers and patients with valvular regurgitation. *Investigative Radiology*, **2009**, 44, 669-75	10.1	106
253	T1 mapping of the gadolinium-enhanced myocardium: adjustment for factors affecting interpatient comparison. *Magnetic Resonance in Medicine*, **2011**, 65, 1407-15	4.4	101
252	Effect of sleep apnea and continuous positive airway pressure on cardiac structure and recurrence of atrial fibrillation. *Journal of the American Heart Association*, **2013**, 2, e000421	6	98
251	Vortex flow during early and late left ventricular filling in normal subjects: quantitative characterization using retrospectively-gated 4D flow cardiovascular magnetic resonance and three-dimensional vortex core analysis. *Journal of Cardiovascular Magnetic Resonance*, **2014**, 16, 78	6.9	96
250	Usefulness of dynamic multislice computed tomography of left ventricular function in unstable angina pectoris and comparison with echocardiography. *American Journal of Cardiology*, **2002**, 90, 1157-60	3	95
249	Myocardial T1 mapping with MRI: comparison of look-locker and MOLLI sequences. *Journal of Magnetic Resonance Imaging*, **2011**, 34, 1367-73	5.6	90
248	Association between diffuse myocardial fibrosis by cardiac magnetic resonance contrast-enhanced T□mapping and subclinical myocardial dysfunction in diabetic patients: a pilot study. *Circulation: Cardiovascular Imaging*, **2012**, 5, 51-9	3.9	88
247	Normal left ventricular myocardial thickness for middle-aged and older subjects with steady-state free precession cardiac magnetic resonance: the multi-ethnic study of atherosclerosis. *Circulation: Cardiovascular Imaging*, **2012**, 5, 500-8	3.9	88
246	Quantification in cardiac MRI: advances in image acquisition and processing. *International Journal of Cardiovascular Imaging*, **2010**, 26 Suppl 1, 27-40	2.5	88
245	Headache and prolonged dilatation of the middle meningeal artery by PACAP38 in healthy volunteers. *Cephalalgia*, **2012**, 32, 140-9	6.1	87
244	Magnetic resonance imaging and response to cardiac resynchronization therapy: relative merits of left ventricular dyssynchrony and scar tissue. *European Heart Journal*, **2009**, 30, 2360-7	9.5	85
243	Automated measurement of volume flow in the ascending aorta using MR velocity maps: evaluation of inter- and intraobserver variability in healthy volunteers. *Journal of Computer Assisted Tomography*, **1998**, 22, 904-11	2.2	84
242	Right ventricular function in patients with acute pulmonary embolism: analysis with electrocardiography-synchronized multi-detector row CT. *Radiology*, **2007**, 242, 78-84	20.5	82
241	Normal regional pulse wave velocity predicts absence of aortic luminal growth in patients with Marfan syndrome: a comprehensive MRI-study. *Journal of Cardiovascular Magnetic Resonance*, **2012**, 14,	6.9	78
240	Infarct tissue heterogeneity by contrast-enhanced MRI is a novel predictor of mortality in patients with coronary artery disease with reduced left ventricular systolic function. *Journal of Cardiovascular Magnetic Resonance*, **2011**, 13,	6.9	78
239	Characterization of peri-infarct zone by cardiac magnetic resonance: validation compared to ex-vivo imaging and post-mortem histology. *Journal of Cardiovascular Magnetic Resonance*, **2011**, 13,	6.9	78
238	Noninvasive evaluation of aortocoronary bypass grafts with magnetic resonance flow mapping. *American Journal of Cardiology*, **1995**, 75, 845-8	3	72

237	CMR-based identification of critical isthmus sites of ischemic and nonischemic ventricular tachycardia. *JACC: Cardiovascular Imaging*, **2014**, 7, 774-84	8.4	70
236	Fully automated motion correction in first-pass myocardial perfusion MR image sequences. *IEEE Transactions on Medical Imaging*, **2008**, 27, 1611-21	11.7	69
235	Cardiac magnetic resonance T1 mapping of left atrial myocardium. *Heart Rhythm*, **2013**, 10, 1325-31	6.7	66
234	Prediction of life-threatening arrhythmic events in patients with chronic myocardial infarction by contrast-enhanced CMR. *JACC: Cardiovascular Imaging*, **2011**, 4, 871-9	8.4	63
233	Myocardial structure, function, and scar in patients with type 1 diabetes mellitus. *Circulation*, **2011**, 124, 1737-46	16.7	62
232	Assessment of viscous energy loss and the association with three-dimensional vortex ring formation in left ventricular inflow: In vivo evaluation using four-dimensional flow MRI. *Magnetic Resonance in Medicine*, **2017**, 77, 794-805	4.4	61
231	Multimodality imaging of carotid artery plaques: 18F-fluoro-2-deoxyglucose positron emission tomography, computed tomography, and magnetic resonance imaging. *Stroke*, **2009**, 40, 3718-24	6.7	58
230	Automated segmentation of myocardial scar in late enhancement MRI using combined intensity and spatial information. *Magnetic Resonance in Medicine*, **2010**, 64, 586-94	4.4	58
229	Quantitative analysis of cardiovascular MR images. *International Journal of Cardiovascular Imaging*, **1997**, 13, 247-58		58
228	Forced myocardin expression enhances the therapeutic effect of human mesenchymal stem cells after transplantation in ischemic mouse hearts. *Stem Cells*, **2008**, 26, 1083-93	5.8	57
227	Quantification of myocardial infarct size and transmurality by contrast-enhanced magnetic resonance imaging in men. *American Journal of Cardiology*, **2004**, 94, 284-8	3	57
226	Real-time integration of MDCT-derived coronary anatomy and epicardial fat: impact on epicardial electroanatomic mapping and ablation for ventricular arrhythmias. *JACC: Cardiovascular Imaging*, **2013**, 6, 42-52	8.4	55
225	MRI to evaluate left atrial and ventricular reverse remodeling after restrictive mitral annuloplasty in dilated cardiomyopathy. *Circulation*, **2005**, 112, I437-42	16.7	54
224	MRI of carotid atherosclerosis to identify TIA and stroke patients who are at risk of a recurrence. *Journal of Magnetic Resonance Imaging*, **2013**, 37, 1189-94	5.6	53
223	Reference ranges ("normal values") for cardiovascular magnetic resonance (CMR) in adults and children: 2020 update. *Journal of Cardiovascular Magnetic Resonance*, **2020**, 22, 87	6.9	53
222	Epicardial substrate mapping for ventricular tachycardia ablation in patients with non-ischaemic cardiomyopathy: a new algorithm to differentiate between scar and viable myocardium developed by simultaneous integration of computed tomography and contrast-enhanced magnetic resonance	9.5	52
221	Cardiovascular magnetic resonance parameters of atherosclerotic plaque burden improve discrimination of prior major adverse cardiovascular events. *Journal of Cardiovascular Magnetic Resonance*, **2009**, 11, 10	6.9	51
220	Functional renal volume: quantitative analysis at gadolinium-enhanced MR angiography--feasibility study in healthy potential kidney donors. *Radiology*, **2005**, 236, 189-95	20.5	51

219	Vessel diameter measurements in gadolinium contrast-enhanced three-dimensional MRA of peripheral arteries. *Magnetic Resonance Imaging*, **2000**, 18, 13-22	3.3	51
218	Myocardial scar predicts monomorphic ventricular tachycardia but not polymorphic ventricular tachycardia or ventricular fibrillation in nonischemic dilated cardiomyopathy. *Heart Rhythm*, **2015**, 12, 2106-14	6.7	50
217	Assessment of the carotid artery by MRI at 3T: a study on reproducibility. *Journal of Magnetic Resonance Imaging*, **2007**, 25, 1035-43	5.6	50
216	The incidence, pattern, and prognostic value of left ventricular myocardial scar by late gadolinium enhancement in patients with atrial fibrillation. *Journal of the American College of Cardiology*, **2013**, 62, 2205-14	15.1	49
215	Mesenchymal stem cells from ischemic heart disease patients improve left ventricular function after acute myocardial infarction. *American Journal of Physiology - Heart and Circulatory Physiology*, **2007**, 293, H2438-47	5.2	49
214	How do hypertrophic cardiomyopathy mutations affect myocardial function in carriers with normal wall thickness? Assessment with cardiovascular magnetic resonance. *Journal of Cardiovascular Magnetic Resonance*, **2010**, 12, 13	6.9	47
213	Abnormal right atrial and right ventricular diastolic function relate to impaired clinical condition in patients operated for tetralogy of Fallot. *International Journal of Cardiology*, **2013**, 167, 833-9	3.2	46
212	MDCT assessment of right ventricular systolic function. *American Journal of Roentgenology*, **2006**, 186, S366-70	5.4	46
211	Impact of Epicardial Adipose Tissue, Left Ventricular Myocardial Fat Content, and Interstitial Fibrosis on Myocardial Contractile Function. *Circulation: Cardiovascular Imaging*, **2018**, 11, e007372	3.9	46
210	Time continuous tracking and segmentation of cardiovascular magnetic resonance images using multidimensional dynamic programming. *Investigative Radiology*, **2006**, 41, 52-62	10.1	45
209	Assessment of left ventricular volume and mass by cine magnetic resonance imaging in patients with anterior myocardial infarction intra-observer and inter-observer variability on contour detection. *International Journal of Cardiovascular Imaging*, **1996**, 12, 11-9		45
208	Clinical applications of intra-cardiac four-dimensional flow cardiovascular magnetic resonance: A systematic review. *International Journal of Cardiology*, **2017**, 249, 486-493	3.2	43
207	Age-related and regional changes of aortic stiffness in the Marfan syndrome: assessment with velocity-encoded MRI. *Journal of Magnetic Resonance Imaging*, **2011**, 34, 526-31	5.6	42
206	Positive association between increased popliteal artery vessel wall thickness and generalized osteoarthritis: is OA also part of the metabolic syndrome?. *Skeletal Radiology*, **2009**, 38, 1147-51	2.7	42
205	Evaluation of a new method for automated detection of left ventricular boundaries in time series of magnetic resonance images using an Active Appearance Motion Model. *Journal of Cardiovascular Magnetic Resonance*, **2004**, 6, 609-17	6.9	42
204	Gadofosveset-enhanced magnetic resonance imaging of human carotid atherosclerotic plaques: a proof-of-concept study. *Investigative Radiology*, **2010**, 45, 275-81	10.1	41
203	Feasibility of diastolic function assessment with cardiac CT: feasibility study in comparison with tissue Doppler imaging. *JACC: Cardiovascular Imaging*, **2011**, 4, 246-56	8.4	40
202	The influence of flow, vessel diameter, and non-newtonian blood viscosity on the wall shear stress in a carotid bifurcation model for unsteady flow. *Investigative Radiology*, **2005**, 40, 277-94	10.1	40

201	Improved aortic pulse wave velocity assessment from multislice two-directional in-plane velocity-encoded magnetic resonance imaging. *Journal of Magnetic Resonance Imaging*, **2010**, 32, 1086-94	5.6	39
200	Left ventricular diastolic function assessment from three-dimensional three-directional velocity-encoded MRI with retrospective valve tracking. *Journal of Magnetic Resonance Imaging*, **2011**, 33, 312-9	5.6	38
199	Automatic lumen and outer wall segmentation of the carotid artery using deformable three-dimensional models in MR angiography and vessel wall images. *Journal of Magnetic Resonance Imaging*, **2012**, 35, 156-65	5.6	35
198	Assessment of cardiac involvement in myotonic muscular dystrophy by T1 mapping on magnetic resonance imaging. *Heart Rhythm*, **2012**, 9, 1691-7	6.7	35
197	Automated observer-independent acquisition of cardiac short-axis MR images: a pilot study. *Radiology*, **2001**, 221, 537-42	20.5	35
196	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	4.1	34
195	MRI-assessed regional pulse wave velocity for predicting absence of regional aorta luminal growth in marfan syndrome. *International Journal of Cardiology*, **2013**, 167, 2977-82	3.2	34
194	Angiotensin-converting enzyme inhibitor therapy affects left ventricular mass in patients with ejection fraction > 40% after acute myocardial infarction. *Journal of the American College of Cardiology*, **1997**, 29, 49-54	15.1	34
193	Fully automatic segmentation of left atrium and pulmonary veins in late gadolinium-enhanced MRI: Towards objective atrial scar assessment. *Journal of Magnetic Resonance Imaging*, **2016**, 44, 346-54	5.6	33
192	The Missing Link in the Pathophysiology of Vascular Cognitive Impairment: Design of the Heart-Brain Study. *Cerebrovascular Diseases Extra*, **2017**, 7, 140-152	2.1	32
191	Automatic vessel wall contour detection and quantification of wall thickness in in-vivo MR images of the human aorta. *Journal of Magnetic Resonance Imaging*, **2006**, 24, 595-602	5.6	32
190	Hypertrophic Cardiomyopathy Patients With Paroxysmal Atrial Fibrillation Have a High Burden of Left Atrial Fibrosis by Cardiac Magnetic Resonance Imaging. *JACC: Clinical Electrophysiology*, **2019**, 5, 364-375	4.6	32
189	Left ventricular blood flow kinetic energy after myocardial infarction - insights from 4D flow cardiovascular magnetic resonance. *Journal of Cardiovascular Magnetic Resonance*, **2018**, 20, 61	6.9	31
188	Characterization and improved quantification of left ventricular inflow using streamline visualization with 4DFlow MRI in healthy controls and patients after atrioventricular septal defect correction. *Journal of Magnetic Resonance Imaging*, **2015**, 41, 1512-20	5.6	29
187	Three-dimensional echocardiography for the preoperative assessment of patients with left ventricular aneurysm. *Annals of Thoracic Surgery*, **2011**, 91, 113-21	2.7	29
186	An integrated automated analysis method for quantifying vessel stenosis and plaque burden from carotid MRI images: combined postprocessing of MRA and vessel wall MR. *Stroke*, **2006**, 37, 2162-4	6.7	29
185	The association between cardiovascular risk and cardiovascular magnetic resonance measures of fibrosis: the Multi-Ethnic Study of Atherosclerosis (MESA). *Journal of Cardiovascular Magnetic Resonance*, **2015**, 17, 15	6.9	28
184	Cardiac MR perfusion image processing techniques: a survey. *Medical Image Analysis*, **2012**, 16, 767-85	15.4	28

183	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,	3.9	28
182	Cross-sectional, prospective study of MRI reproducibility in the assessment of plaque burden of the carotid arteries and aorta. *Nature Reviews Cardiology*, **2009**, 6, 219-28	14.8	28
181	Comparison of multislice computed tomography to gated single-photon emission computed tomography for imaging of healed myocardial infarcts. *American Journal of Cardiology*, **2008**, 101, 144-8	3	28
180	Impact of Age and Diastolic Function on Novel, 4D flow CMR Biomarkers of Left Ventricular Blood Flow Kinetic Energy. *Scientific Reports*, **2018**, 8, 14436	4.9	28
179	In-scan and scan-rescan assessment of LV in- and outflow volumes by 4D flow MRI versus 2D planimetry. *Journal of Magnetic Resonance Imaging*, **2018**, 47, 511-522	5.6	27
178	Accurate and reproducible mitral valvular blood flow measurement with three-directional velocity-encoded magnetic resonance imaging. *Journal of Cardiovascular Magnetic Resonance*, **2004**, 6, 767-76	6.9	27
177	Detection of areas with viable remnant tumor in postchemotherapy patients with Ewing© sarcoma by dynamic contrast-enhanced MRI using pharmacokinetic modeling. *Magnetic Resonance Imaging*, **2000**, 18, 525-35	3.3	27
176	Assessment of regional left ventricular wall parameters from short axis magnetic resonance imaging using a three-dimensional extension to the improved centerline method. *Investigative Radiology*, **1997**, 32, 529-39	10.1	27
175	Advanced Analysis Techniques for Intra-cardiac Flow Evaluation from 4D Flow MRI. *Current Radiology Reports*, **2016**, 4, 38	0.5	25
174	Automated left ventricle segmentation in late gadolinium-enhanced MRI for objective myocardial scar assessment. *Journal of Magnetic Resonance Imaging*, **2015**, 42, 390-9	5.6	25
173	Algorithms for left atrial wall segmentation and thickness - Evaluation on an open-source CT and MRI image database. *Medical Image Analysis*, **2018**, 50, 36-53	15.4	24
172	Accurate quantitation of regurgitant volume with MRI in patients selected for mitral valve repair. *European Journal of Cardio-thoracic Surgery*, **2005**, 27, 462-6; discussion 467	3	24
171	Cardiovascular function and flow by 4-dimensional magnetic resonance imaging techniques: new applications. *Journal of Thoracic Imaging*, **2014**, 29, 185-96	5.6	23
170	Toward magnetic resonance-guided electroanatomical voltage mapping for catheter ablation of scar-related ventricular tachycardia: a comparison of registration methods. *Journal of Cardiovascular Electrophysiology*, **2012**, 23, 74-80	2.7	23
169	Scan optimization of gadolinium contrast-enhanced three-dimensional MRA of peripheral arteries with multiple bolus injections and in vitro validation of stenosis quantification. *Magnetic Resonance Imaging*, **1999**, 17, 47-57	3.3	23
168	Disproportionate intraventricular viscous energy loss in Fontan patients: analysis by 4D flow MRI. *European Heart Journal Cardiovascular Imaging*, **2019**, 20, 323-333	4.1	22
167	3D black blood VISTA vessel wall cardiovascular magnetic resonance of the thoracic aorta wall in young, healthy adults: reproducibility and implications for efficacy trial sample sizes: a cross-sectional study. *Journal of Cardiovascular Magnetic Resonance*, **2016**, 18, 20	6.9	21
166	Magnetic resonance imaging assessment of reverse left ventricular remodeling late after restrictive mitral annuloplasty in early stages of dilated cardiomyopathy. *Journal of Thoracic and Cardiovascular Surgery*, **2008**, 135, 1247-52; discussion 1252-3	1.5	21

165	Epicardial Adipose Tissue Volume and Left Ventricular Myocardial Function Using 3-Dimensional Speckle Tracking Echocardiography. *Canadian Journal of Cardiology*, **2016**, 32, 1485-1492	3.8	21
164	Fully-automatic left ventricular segmentation from long-axis cardiac cine MR scans. *Medical Image Analysis*, **2017**, 39, 44-55	15.4	20
163	Increasing spatial resolution of 3T MRI scanning improves reproducibility of carotid arterial wall dimension measurements. *Magnetic Resonance Materials in Physics, Biology, and Medicine*, **2014**, 27, 219-26	2.8	20
162	Reproducibility of wall shear stress assessment with the paraboloid method in the internal carotid artery with velocity encoded MRI in healthy young individuals. *Journal of Magnetic Resonance Imaging*, **2007**, 26, 598-605	5.6	20
161	Pravastatin decreases wall shear stress and blood velocity in the internal carotid artery without affecting flow volume: results from the PROSPER MRI study. *Stroke*, **2007**, 38, 1374-6	6.7	20
160	Detection of coronary plaques using MR coronary vessel wall imaging: validation of findings with intravascular ultrasound. *European Radiology*, **2013**, 23, 115-24	8	19
159	Unipolar Endocardial Voltage Mapping in the Right Ventricle: Optimal Cutoff Values Correcting for Computed Tomography-Derived Epicardial Fat Thickness and Their Clinical Value for Substrate Delineation. *Circulation: Arrhythmia and Electrophysiology*, **2017**, 10,	6.4	19
158	Visualization of coronary wall atherosclerosis in asymptomatic subjects and patients with coronary artery disease using magnetic resonance imaging. *PLoS ONE*, **2010**, 5, e12998	3.7	19
157	Aortic vessel wall magnetic resonance imaging at 3.0 Tesla: a reproducibility study of respiratory navigator gated free-breathing 3D black blood magnetic resonance imaging. *Magnetic Resonance in Medicine*, **2009**, 61, 35-44	4.4	19
156	Automatic model-based contour detection and blood flow quantification in small vessels with velocity encoded magnetic resonance imaging. *Investigative Radiology*, **2003**, 38, 567-77	10.1	19
155	Left Ventricular Entropy Is a Novel Predictor of Arrhythmic Events in Patients With Dilated Cardiomyopathy Receiving Defibrillators for Primary Prevention. *JACC: Cardiovascular Imaging*, **2019**, 12, 1177-1184	8.4	18
154	A Systematic Review of 4D-Flow MRI Derived Mitral Regurgitation Quantification Methods. *Frontiers in Cardiovascular Medicine*, **2019**, 6, 103	5.4	18
153	Fully automatic registration and segmentation of first-pass myocardial perfusion MR image sequences. *Academic Radiology*, **2010**, 17, 1375-85	4.3	18
152	Carotid plaques in transient ischemic attack and stroke patients: one-year follow-up study by magnetic resonance imaging. *Investigative Radiology*, **2010**, 45, 803-9	10.1	18
151	Variations in blood flow waveforms in stenotic renal arteries by 2D phase-contrast cine MRI. *Journal of Magnetic Resonance Imaging*, **1998**, 8, 590-7	5.6	18
150	Accuracy of semiautomated analysis of 3D contrast-enhanced magnetic resonance angiography for detection and quantification of aortoiliac stenoses. *Investigative Radiology*, **2005**, 40, 495-503	10.1	18
149	Time-Continuous Segmentation of Cardiac Image Sequences Using Active Appearance Motion Models. *Lecture Notes in Computer Science*, **2001**, 446-452	0.9	18
148	Association Between Posterior Left Atrial Adipose Tissue Mass and Atrial Fibrillation. *Circulation: Arrhythmia and Electrophysiology*, **2017**, 10,	6.4	17

147	Altered left ventricular vortex ring formation by 4-dimensional flow magnetic resonance imaging after repair of atrioventricular septal defects. *Journal of Thoracic and Cardiovascular Surgery*, **2015**, 150, 1233-40.e1	1.5	17
146	Myocardial Late Gadolinium Enhancement: Accuracy of T1 Mapping-based Synthetic Inversion-Recovery Imaging. *Radiology*, **2016**, 278, 374-82	20.5	17
145	Blood pool contrast agent CMD-A2-Gd-DOTA-enhanced MR imaging of infarcted myocardium in pigs. *Journal of Magnetic Resonance Imaging*, **1999**, 10, 170-7	5.6	17
144	Left Ventricle Segmentation via Optical-Flow-Net from Short-Axis Cine MRI: Preserving the Temporal Coherence of Cardiac Motion. *Lecture Notes in Computer Science*, **2018**, 613-621	0.9	17
143	Entropy as a Novel Measure of Myocardial Tissue Heterogeneity for Prediction of Ventricular Arrhythmias and Mortality in Post-Infarct Patients. *JACC: Clinical Electrophysiology*, **2019**, 5, 480-489	4.6	16
142	Unravelling cardiovascular disease using four dimensional flow cardiovascular magnetic resonance. *International Journal of Cardiovascular Imaging*, **2017**, 33, 1069-1081	2.5	16
141	Multiview active appearance models for simultaneous segmentation of cardiac 2- and 4-chamber long-axis magnetic resonance images. *Investigative Radiology*, **2005**, 40, 195-203	10.1	16
140	Quantification of global and regional ventricular function in cardiac magnetic resonance imaging. *Topics in Magnetic Resonance Imaging*, **2000**, 11, 348-58	2.3	16
139	Scan-rescan reproducibility of diastolic left ventricular kinetic energy, viscous energy loss and vorticity assessment using 4D flow MRI: analysis in healthy subjects. *International Journal of Cardiovascular Imaging*, **2018**, 34, 905-920	2.5	15
138	Infarcted myocardium in pigs: MR imaging enhanced with slow-interstitial-diffusion gadolinium compound P760. *Radiology*, **1999**, 212, 467-73	20.5	15
137	Ultrasmall superparamagnetic particles of iron oxide (USPIO) MR imaging of infarcted myocardium in pigs. *Magnetic Resonance Imaging*, **1998**, 16, 755-63	3.3	14
136	Comparative Evaluation of Flow Quantification across the Atrioventricular Valve in Patients with Functional Univentricular Heart after Fontan© Surgery and Healthy Controls: Measurement by 4D Flow Magnetic Resonance Imaging and Streamline Visualization. *Congenital Heart Disease*, **2017**, 12, 40-48	3.1	13
135	Relation of Myocardial Contrast-Enhanced T Mapping by Cardiac Magnetic Resonance to Left Ventricular Reverse Remodeling After Cardiac Resynchronization Therapy in Patients With Nonischemic Cardiomyopathy. *American Journal of Cardiology*, **2017**, 119, 1456-1462	3	13
134	Association of regional epicardial right ventricular electrogram voltage amplitude and late gadolinium enhancement distribution on cardiac magnetic resonance in patients with arrhythmogenic right ventricular cardiomyopathy: Implications for ventricular tachycardia ablation.	6.7	13
133	High spatial resolution free-breathing 3D late gadolinium enhancement cardiac magnetic resonance imaging in ischaemic and non-ischaemic cardiomyopathy: quantitative assessment of scar mass and image quality. *European Radiology*, **2018**, 28, 4027-4035	8	13
132	Ventricular response to dobutamine stress relates to the change in peak oxygen uptake during the 5-year follow-up in young patients with repaired tetralogy of Fallot. *European Heart Journal Cardiovascular Imaging*, **2014**, 15, 189-94	4.1	13
131	Time-continuous segmentation of cardiac MR image sequences using active appearance motion models **2001**,		13
130	Anatomical Modeling with Fuzzy Implicit Surface Templates: Application to Automated Localization of the Heart and Lungs in Thoracic MR Volumes. *Computer Vision and Image Understanding*, **2000**, 80, 1-20	4.3	13

129	Repeatability of in vivo quantification of atherosclerotic carotid artery plaque components by supervised multispectral classification. *Magnetic Resonance Materials in Physics, Biology, and Medicine*, **2015**, 28, 535-45	2.8	12
128	Site-specific coupling between vascular wall thickness and function: an observational MRI study of vessel wall thickening and stiffening in hypertension. *Investigative Radiology*, **2013**, 48, 86-91	10.1	12
127	Effect of Liraglutide on Cardiovascular Function and Myocardial Tissue Characteristics in Type 2 Diabetes Patients of South Asian Descent Living in the Netherlands: A Double-Blind, Randomized, Placebo-Controlled Trial. *Journal of Magnetic Resonance Imaging*, **2020**, 51, 1679-1688	5.6	12
126	Preprocedural magnetic resonance imaging for image-guided catheter ablation of scar-related ventricular tachycardia. *International Journal of Cardiovascular Imaging*, **2015**, 31, 369-77	2.5	11
125	Quantification of abdominal aortic aneurysm wall enhancement with dynamic contrast-enhanced MRI: feasibility, reproducibility, and initial experience. *Journal of Magnetic Resonance Imaging*, **2014**, 39, 1449-56	5.6	11
124	Evaluation of sampling density on the accuracy of aortic pulse wave velocity from velocity-encoded MRI in patients with Marfan syndrome. *Journal of Magnetic Resonance Imaging*, **2012**, 36, 1470-6	5.6	11
123	Magnetic resonance angiography of the human middle meningeal artery: implications for migraine. *Journal of Magnetic Resonance Imaging*, **2006**, 24, 918-21	5.6	11
122	Segmentation of cardiac MR images: an active appearance model approach **2000**, 3979, 224		11
121	Gadolinium contrast-enhanced three-dimensional MRA of peripheral arteries with multiple bolus injection: scan optimization in vitro and in vivo. *International Journal of Cardiovascular Imaging*, **1999**, 15, 161-73		11
120	Quantification of common carotid artery and descending aorta vessel wall thickness from MR vessel wall imaging using a fully automated processing pipeline. *Journal of Magnetic Resonance Imaging*, **2017**, 45, 215-228	5.6	10
119	Learning-based automated segmentation of the carotid artery vessel wall in dual-sequence MRI using subdivision surface fitting. *Medical Physics*, **2017**, 44, 5244-5259	4.4	10
118	Suitability of pharmacokinetic models for dynamic contrast-enhanced MRI of abdominal aortic aneurysm vessel wall: a comparison. *PLoS ONE*, **2013**, 8, e75173	3.7	10
117	Assessment of right ventricular function in acute pulmonary embolism using ECG-synchronized MDCT. *American Journal of Roentgenology*, **2010**, 195, 909-15	5.4	10
116	Automated contour detection in cardiac MRI using active appearance models: the effect of the composition of the training set. *Investigative Radiology*, **2007**, 42, 697-703	10.1	10
115	Feasibility of Using Pseudo-Continuous Arterial Spin Labeling Perfusion in a Geriatric Population at 1.5 Tesla. *PLoS ONE*, **2015**, 10, e0144743	3.7	10
114	Deep Learning for Quantitative Cardiac MRI. *American Journal of Roentgenology*, **2020**, 214, 529-535	5.4	10
113	Reference Values for Cardiac and Aortic Magnetic Resonance Imaging in Healthy, Young Caucasian Adults. *PLoS ONE*, **2016**, 11, e0164480	3.7	10
112	Myocardial Perfusion, Fibrosis, and Contractility in Children With Kawasaki Disease. *JACC: Cardiovascular Imaging*, **2018**, 11, 1922-1924	8.4	9

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