Rob J Van Der Geest

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Right Ventricle Segmentation via Registration and Multi-input Modalities in Cardiac Magnetic Resonance Imaging from Multi-disease, Multi-view and Multi-center. *Lecture Notes in Computer Science*, **2022**, 241-249	0.9	
271	Ventricular flow analysis and its association with exertional capacity in repaired tetralogy of Fallot: 4D flow cardiovascular magnetic resonance study.. *Journal of Cardiovascular Magnetic Resonance*, **2022**, 24, 4	6.9	1
270	Entropy as a Measure of Myocardial Tissue Heterogeneity in Patients With Ventricular Arrhythmias.. *JACC: Cardiovascular Imaging*, **2022**, 15, 783-792	8.4	0
269	Training and clinical testing of artificial intelligence derived right atrial cardiovascular magnetic resonance measurements.. *Journal of Cardiovascular Magnetic Resonance*, **2022**, 24, 25	6.9	1
268	Left ventricular four-dimensional blood flow distribution, energetics, and vorticity in chronic myocardial infarction patients with/without left ventricular thrombus.. *European Journal of Radiology*, **2022**, 150, 110233	4.7	1
267	Improved cardiac T mapping accuracy and precision with a new hybrid MOLLI and SASHA technique: MOSHA.. *Magnetic Resonance Imaging*, **2022**, 89, 33-41	3.3	0
266	Artificial Intelligence-Based Evaluation of Functional Cardiac Magnetic Resonance Imaging. *Contemporary Medical Imaging*, **2022**, 321-331	0.1	
265	Mitral regurgitation quantified by CMR 4D-flow is associated with microvascular obstruction post reperfused ST-segment elevation myocardial infarction.. *BMC Research Notes*, **2022**, 15, 181	2.3	0
264	3D MRI bal pitvari hegtÉkÞ Ltal vezÉelt anatÉhiai pulmonalis vÉa reizolÉiÓ *Orvosi Hetilap*, **2022**, 163, 767-772	0.8	
263	Left atrial appendage size is a marker of atrial fibrillation recurrence after radiofrequency catheter ablation in patients with persistent atrial fibrillation. *Clinical Cardiology*, **2021**,	3.3	1
262	Evaluation of pulse wave velocity for predicting major adverse cardiovascular events in post-infarcted patients; comparison of oscillometric and MRI methods.. *Reviews in Cardiovascular Medicine*, **2021**, 22, 1701-1710	3.9	
261	Mediation of the association between obesity and osteoarthritis by blood pressure, vessel wall stiffness and subclinical atherosclerosis. *Rheumatology*, **2021**, 60, 3268-3277	3.9	1
260	Feasibility and validation of trans-valvular flow derived by four-dimensional flow cardiovascular magnetic resonance imaging in patients with atrial fibrillation. *Wellcome Open Research*, **2021**, 6, 73	4.8	2
259	SAUN: Stack attention U-Net for left ventricle segmentation from cardiac cine magnetic resonance imaging. *Medical Physics*, **2021**, 48, 1750-1763	4.4	5
258	Left ventricular blood flow kinetic energy is associated with the six-minute walk test and left ventricular remodelling post valvular intervention in aortic stenosis. *Quantitative Imaging in Medicine and Surgery*, **2021**, 11, 1470-1482	3.6	1
257	Posterior Left Atrial Adipose Tissue Attenuation Assessed by Computed Tomography and Recurrence of Atrial Fibrillation After Catheter Ablation. *Circulation: Arrhythmia and Electrophysiology*, **2021**, 14, e009135	6.4	5
256	Feasibility and validation of trans-valvular flow derived by four-dimensional flow cardiovascular magnetic resonance imaging in patients with atrial fibrillation. *Wellcome Open Research*, **2021**, 6, 73	4.8	1

255	Standard and emerging CMR methods for mitral regurgitation quantification. *International Journal of Cardiology*, **2021**, 331, 316-321	3.2	7
254	Extracellular volume-guided late gadolinium enhancement analysis for non-ischemic cardiomyopathy: The Women© Interagency HIV Study. *BMC Medical Imaging*, **2021**, 21, 116	2.9	0
253	Hypertensive Exposure Markers by MRI in Relation to Cerebral Small Vessel Disease and Cognitive Impairment. *JACC: Cardiovascular Imaging*, **2021**, 14, 176-185	8.4	3
252	Left ventricular fibrosis and hypertrophy are associated with mortality in heart failure with preserved ejection fraction. *Scientific Reports*, **2021**, 11, 617	4.9	7
251	Altered left atrial 4D flow characteristics in patients with paroxysmal atrial fibrillation in the absence of apparent remodeling. *Scientific Reports*, **2021**, 11, 5965	4.9	5
250	Myocardial Work, an Echocardiographic Measure of Post Myocardial Infarct Scar on Contrast-Enhanced Cardiac Magnetic Resonance. *American Journal of Cardiology*, **2021**, 151, 1-9	3	2
249	Reproducibility of left ventricular blood flow kinetic energy measured by four-dimensional flow CMR. *BMC Research Notes*, **2021**, 14, 289	2.3	1
248	Impact of age, sex and ethnicity on intra-cardiac flow components and left ventricular kinetic energy derived from 4D flow CMR. *International Journal of Cardiology*, **2021**, 336, 105-112	3.2	2
247	Sex and Cardiovascular Function in Relation to Vascular Brain Injury in Patients with Cognitive Complaints. *Journal of Alzheimer's Disease*, **2021**, 84, 261-271	4.3	
246	Non-Invasive Assessment of Damping of Blood Flow Velocity Pulsatility in Cerebral Arteries With MRI. *Journal of Magnetic Resonance Imaging*, **2021**,	5.6	2
245	Evaluation of intraventricular flow by multimodality imaging: a review and meta-analysis. *Cardiovascular Ultrasound*, **2021**, 19, 38	2.4	0
244	RV Tissue Heterogeneity on CT: A Novel Tool to Identify the VT Substrate in ARVC. *JACC: Clinical Electrophysiology*, **2020**, 6, 1073-1085	4.6	3
243	Association of scar distribution with epicardial electrograms and surface ventricular tachycardia QRS duration in nonischemic cardiomyopathy. *Journal of Cardiovascular Electrophysiology*, **2020**, 31, 2032-2040	2.7	0
242	Deep Learning for Quantitative Cardiac MRI. *American Journal of Roentgenology*, **2020**, 214, 529-535	5.4	10
241	Comparison between quantitative cardiac magnetic resonance perfusion imaging and [O]HO positron emission tomography. *European Journal of Nuclear Medicine and Molecular Imaging*, **2020**, 47, 1688-1697	8.8	3
240	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
239	Comparability of compressed sensing-based gradient echo perfusion sequence SPARSE and conventional gradient echo sequence in assessment of myocardial ischemia. *European Journal of Radiology*, **2020**, 131, 109213	4.7	1
238	Cardiac magnetic resonance using fused 3D cine and 4D flow sequences:Validation of ventricular and blood flow measurements. *Magnetic Resonance Imaging*, **2020**, 74, 203-212	3.3	3

237	Left ventricular mechanical dispersion in ischaemic cardiomyopathy: association with myocardial scar burden and prognostic implications. *European Heart Journal Cardiovascular Imaging*, **2020**, 21, 1227-1234	4.1	4
236	Integration of Electroanatomical Mapping With Imaging to Guide Radiotherapy of VT Substrates With High Accuracy. *JACC: Clinical Electrophysiology*, **2020**, 6, 874-876	4.6	2
235	Feasibility and validation of trans-valvular flow derived by four-dimensional flow cardiovascular magnetic resonance imaging in pacemaker recipients. *Magnetic Resonance Imaging*, **2020**, 74, 46-55	3.3	4
234	Left Ventricular Blood Flow Kinetic Energy Assessment by 4D Flow Cardiovascular Magnetic Resonance: A Systematic Review of the Clinical Relevance. *Journal of Cardiovascular Development and Disease*, **2020**, 7,	4.2	2
233	The clinical impact of phase offset errors and different correction methods in cardiovascular magnetic resonance phase contrast imaging: a multi-scanner study. *Journal of Cardiovascular Magnetic Resonance*, **2020**, 22, 68	6.9	1
232	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
231	Cardiac Magnetic Resonance for Evaluating Nonculprit Lesions After Myocardial Infarction: Comparison With Fractional Flow Reserve. *JACC: Cardiovascular Imaging*, **2020**, 13, 715-728	8.4	5
230	Fetal and infant growth patterns and left and right ventricular measures in childhood assessed by cardiac MRI. *European Journal of Preventive Cardiology*, **2020**, 27, 63-74	3.9	6
229	New Adjusted Cutoffs for "Normal" Endocardial Voltages in Patients With Post-Infarct LV Remodeling. *JACC: Clinical Electrophysiology*, **2019**, 5, 1115-1126	4.6	4
228	Late effects of pediatric hematopoietic stem cell transplantation on left ventricular function, aortic stiffness and myocardial tissue characteristics. *Journal of Cardiovascular Magnetic Resonance*, **2019**, 21, 6	6.9	4
227	Association of cardiovascular magnetic resonance-derived circumferential strain parameters with the risk of ventricular arrhythmia and all-cause mortality in patients with prior myocardial infarction and primary prevention implantable cardioverter defibrillator. *Journal of Cardiovascular Magnetic Resonance*, **2019**, 21, 28	6.9	3
226	Quantification of aortic pulse wave velocity from a population based cohort: a fully automatic method. *Journal of Cardiovascular Magnetic Resonance*, **2019**, 21, 27	6.9	5
225	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
224	Fully automated segmentation of the left atrium, pulmonary veins, and left atrial appendage from magnetic resonance angiography by joint-atlas-optimization. *Medical Physics*, **2019**, 46, 2074-2084	4.4	2
223	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
222	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
221	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
220	Cine MRI analysis by deep learning of optical flow: Adding the temporal dimension. *Computers in Biology and Medicine*, **2019**, 111, 103356	7	9

219	A Systematic Review of 4D-Flow MRI Derived Mitral Regurgitation Quantification Methods. *Frontiers in Cardiovascular Medicine*, **2019**, 6, 103	5.4	18
218	Fully Automated Left Atrium Cavity Segmentation from 3D GE-MRI by Multi-atlas Selection and Registration. *Lecture Notes in Computer Science*, **2019**, 230-236	0.9	2
217	ESU-P-Net: Cascading Network for Full Quantification of Left Ventricle from Cine MRI. *Lecture Notes in Computer Science*, **2019**, 421-428	0.9	1
216	Utility of ripple mapping for identification of slow conduction channels during ventricular tachycardia ablation in the setting of arrhythmogenic right ventricular cardiomyopathy. *Journal of Cardiovascular Electrophysiology*, **2019**, 30, 366-373	2.7	8
215	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
214	High Resolution Simulation of Diastolic Left Ventricular Hemodynamics Guided by Four-Dimensional Flow Magnetic Resonance Imaging Data. *Flow, Turbulence and Combustion*, **2019**, 102, 3-26	2.5	8
213	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
212	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
211	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
210	Nonbinary quantification technique accounting for myocardial infarct heterogeneity: Feasibility of applying percent infarct mapping in patients. *Journal of Magnetic Resonance Imaging*, **2018**, 48, 788	5.6	2
209	Quantitative inversion time prescription for myocardial late gadolinium enhancement using T1-mapping-based synthetic inversion recovery imaging: reducing subjectivity in the estimation of inversion time. *International Journal of Cardiovascular Imaging*, **2018**, 34, 921-929	2.5	1
208	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
207	Sex, body mass index, and blood pressure are related to aortic characteristics in healthy, young adults using magnetic resonance vessel wall imaging: the AMBITYON study. *Magnetic Resonance Materials in Physics, Biology, and Medicine*, **2018**, 31, 173-182	2.8	5
206	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
205	Robust motion correction for myocardial T and extracellular volume mapping by principle component analysis-based groupwise image registration. *Journal of Magnetic Resonance Imaging*, **2018**, 47, 1397-1405	5.6	8
204	Myocardial T1 mapping and determination of partition coefficients at 3 tesla: comparison between gadobenate dimeglumine and gadofosveset trisodium. *Radiologia Brasileira*, **2018**, 51, 13-19	1.7	1
203	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
202	Myocardial Perfusion, Fibrosis, and Contractility in Children With Kawasaki Disease. *JACC: Cardiovascular Imaging*, **2018**, 11, 1922-1924	8.4	9

201	Semi-automated Processing of Real-Time CMR Scans for Left Ventricle Segmentation. *Lecture Notes in Computer Science*, **2018**, 57-66	0.9	
200	Advanced two-layer level set with a soft distance constraint for dual surfaces segmentation in medical images **2018**,		1
199	A Multi-Scope Convolutional Neural Network for Automatic Left Ventricle Segmentation from Magnetic Resonance Images: Deep-Learning at Multiple Scopes **2018**,		3
198	Comparison of Image Acquisition Techniques in Four-Dimensional Flow Cardiovascular MR on 3 Tesla in Volunteers and Tetralogy of Fallot Patients. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2018**, 2018, 1115-1118	0.9	5
197	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
196	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
195	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
194	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
193	From 4D Medical Images (CT, MRI, and Ultrasound) to 4D Structured Mesh Models of the Left Ventricular Endocardium for Patient-Specific Simulations. *BioMed Research International*, **2018**, 2018, 7030718	3	6
192	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
191	Effect of inversion time on the precision of myocardial late gadolinium enhancement quantification evaluated with synthetic inversion recovery MR imaging. *European Radiology*, **2017**, 27, 3235-3243	8	5
190	Association Between Posterior Left Atrial Adipose Tissue Mass and Atrial Fibrillation. *Circulation: Arrhythmia and Electrophysiology*, **2017**, 10,	6.4	17
189	Fully-automatic left ventricular segmentation from long-axis cardiac cine MR scans. *Medical Image Analysis*, **2017**, 39, 44-55	15.4	20
188	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
187	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
186	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
185	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
184	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

183	Structural and Functional Correlates of Myocardial T1 Mapping in 321 Patients With Hypertrophic Cardiomyopathy. *Journal of Computer Assisted Tomography*, **2017**, 41, 653-660	2.2	3
182	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
181	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
180	The MRI characteristics of the no-flow region are similar in reperfused and non-reperfused myocardial infarcts: an MRI and histopathology study in swine. *European Radiology Experimental*, **2017**, 1, 2	4.5	1
179	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
178	Inter-station intensity standardization for whole-body MR data. *Magnetic Resonance in Medicine*, **2017**, 77, 422-433	4.4	8
177	Unravelling cardiovascular disease using four dimensional flow cardiovascular magnetic resonance. *International Journal of Cardiovascular Imaging*, **2017**, 33, 1069-1081	2.5	16
176	Advanced Analysis Techniques for Intra-cardiac Flow Evaluation from 4D Flow MRI. *Current Radiology Reports*, **2016**, 4, 38	0.5	25
175	MRI Post-Processing Methods for Myocardial Infarct Quantification. *Current Radiology Reports*, **2016**, 4, 1	0.5	4
174	Reliability and reproducibility of trans-valvular flow measurement by 4D flow magnetic resonance imaging in acute myocardial infarct patients: two centre study. *Journal of Cardiovascular Magnetic Resonance*, **2016**, 18,	6.9	2
173	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
172	Myocardial Late Gadolinium Enhancement: Accuracy of T1 Mapping-based Synthetic Inversion-Recovery Imaging. *Radiology*, **2016**, 278, 374-82	20.5	17
171	Reference Values for Cardiac and Aortic Magnetic Resonance Imaging in Healthy, Young Caucasian Adults. *PLoS ONE*, **2016**, 11, e0164480	3.7	10
170	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
169	Age-independent myocardial infarct quantification by signal intensity percent infarct mapping in swine. *Journal of Magnetic Resonance Imaging*, **2016**, 43, 911-20	5.6	3
168	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
167	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
166	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

165	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
164	Overview of Myocardial T1 Mapping Applications. *Current Radiology Reports*, **2015**, 3, 1	0.5	
163	Hierarchical Shape Distributions for Automatic Identification of 3D Diastolic Vortex Rings from 4D Flow MRI. *Lecture Notes in Computer Science*, **2015**, 467-475	0.9	2
162	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
161	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
160	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
159	Super-resolution reconstruction of late gadolinium-enhanced MRI for improved myocardial scar assessment. *Journal of Magnetic Resonance Imaging*, **2015**, 42, 160-7	5.6	8
158	Quantification of Intramyocardial Metabolites by Proton Magnetic Resonance Spectroscopy. *Frontiers in Cardiovascular Medicine*, **2015**, 2, 24	5.4	7
157	Accuracy of Late Gadolinium Enhancement - Magnetic Resonance Imaging in the Measurement of Left Atrial Substrate Remodeling in Patients With Rheumatic Mitral Valve Disease and Persistent Atrial Fibrillation. *International Heart Journal*, **2015**, 56, 505-10	1.8	9
156	Increasing the Spatial Resolution of 3T Carotid MRI Has No Beneficial Effect for Plaque Component Measurement Reproducibility. *PLoS ONE*, **2015**, 10, e0130878	3.7	8
155	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
154	Segmentation of branching vascular structures using adaptive subdivision surface fitting **2015**,		8
153	Automated extraction and labelling of the arterial tree from whole-body MRA data. *Medical Image Analysis*, **2015**, 24, 28-40	15.4	7
152	Genetically determined prospect to become long-lived is associated with less abdominal fat and in particular less abdominal visceral fat in men. *Age and Ageing*, **2015**, 44, 713-7	3	6
151	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
150	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
149	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
148	CMR-based identification of critical isthmus sites of ischemic and nonischemic ventricular tachycardia. *JACC: Cardiovascular Imaging*, **2014**, 7, 774-84	8.4	70

147	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
146	Coupling of vessel wall morphology and function in the aorta and the carotid artery: an evaluation with MRI. *International Journal of Cardiovascular Imaging*, **2014**, 30, 91-8	2.5	4
145	Myocardial scar identification based on analysis of Look-Locker and 3D late gadolinium enhanced MRI. *International Journal of Cardiovascular Imaging*, **2014**, 30, 925-34	2.5	1
144	Infarct density distribution by MRI in the porcine model of acute and chronic myocardial infarction as a potential method transferable to the clinic. *International Journal of Cardiovascular Imaging*, **2014**, 30, 937-48	2.5	9
143	Peri-infarct zone characterized by cardiac magnetic resonance imaging is directly associated with the inflammatory activity during acute phase myocardial infarction. *Inflammation*, **2014**, 37, 678-85	5.1	9
142	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
141	Visualization of local changes in vessel wall morphology and plaque progression in serial carotid artery magnetic resonance imaging. *Stroke*, **2014**, 45, e160-3	6.7	5
140	Cardiovascular function and flow by 4-dimensional magnetic resonance imaging techniques: new applications. *Journal of Thoracic Imaging*, **2014**, 29, 185-96	5.6	23
139	High spatial resolution coronary magnetic resonance angiography at 7 T: comparison with low spatial resolution bright blood imaging. *Investigative Radiology*, **2014**, 49, 326-30	10.1	8
138	Automated algorithm for reconstruction of the complete spine from multistation 7T MR data. *Magnetic Resonance in Medicine*, **2013**, 69, 1777-86	4.4	8
137	Comparative exploration of whole-body MR through locally rigid transforms. *International Journal of Computer Assisted Radiology and Surgery*, **2013**, 8, 635-47	3.9	4
136	Cardiac magnetic resonance T1 mapping of left atrial myocardium. *Heart Rhythm*, **2013**, 10, 1325-31	6.7	66
135	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
134	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
133	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
132	Detection of coronary plaques using MR coronary vessel wall imaging: validation of findings with intravascular ultrasound. *European Radiology*, **2013**, 23, 115-24	8	19
131	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
130	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

129	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
128	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
127	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 imaging. *European Heart Journal*, **2013**, 34, 586-96	9.5	52
126	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
125	Model-based alignment of Look-Locker MRI sequences for calibrated myocardical scar tissue quantification **2013**,		3
124	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
123	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
122	An objective method to optimize the MR sequence set for plaque classification in carotid vessel wall images using automated image segmentation. *PLoS ONE*, **2013**, 8, e78492	3.7	1
121	Improved myocardial scar characterization by super-resolution reconstruction in late gadolinium enhanced MRI. *Lecture Notes in Computer Science*, **2013**, 16, 147-54	0.9	1
120	Joint intensity inhomogeneity correction for whole-body MR data. *Lecture Notes in Computer Science*, **2013**, 16, 106-13	0.9	3
119	Cardiac MR perfusion image processing techniques: a survey. *Medical Image Analysis*, **2012**, 16, 767-85	15.4	28
118	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
117	Automated quantification of carotid artery stenosis on contrast-enhanced MRA data using a deformable vascular tube model. *International Journal of Cardiovascular Imaging*, **2012**, 28, 1513-24	2.5	9
116	Assessment of cardiac involvement in myotonic muscular dystrophy by T1 mapping on magnetic resonance imaging. *Heart Rhythm*, **2012**, 9, 1691-7	6.7	35
115	Headache and prolonged dilatation of the middle meningeal artery by PACAP38 in healthy volunteers. *Cephalalgia*, **2012**, 32, 140-9	6.1	87
114	Cardiac MRI visualization for ventricular tachycardia ablation. *International Journal of Computer Assisted Radiology and Surgery*, **2012**, 7, 753-67	3.9	4
113	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
112	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

111	Evaluation of multicontrast MRI including fat suppression and inversion recovery spin echo for identification of intra-plaque hemorrhage and lipid core in human carotid plaque using the mahalanobis distance measure. *Magnetic Resonance in Medicine*, **2012**, 67, 1764-75	4.4	4
110	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
109	Association between diffuse myocardial fibrosis by cardiac magnetic resonance contrast-enhanced T1 mapping and subclinical myocardial dysfunction in diabetic patients: a pilot study. *Circulation: Cardiovascular Imaging*, **2012**, 5, 51-9	3.9	88
108	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
107	T1 Mapping in cardiomyopathy at cardiac MR: comparison with endomyocardial biopsy. *Radiology*, **2012**, 265, 724-32	20.5	218
106	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
105	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
104	Three-dimensional echocardiography for the preoperative assessment of patients with left ventricular aneurysm. *Annals of Thoracic Surgery*, **2011**, 91, 113-21	2.7	29
103	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
102	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
101	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
100	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
99	Myocardial T1 mapping with MRI: comparison of look-locker and MOLLI sequences. *Journal of Magnetic Resonance Imaging*, **2011**, 34, 1367-73	5.6	90
98	T1 mapping of the gadolinium-enhanced myocardium: adjustment for factors affecting interpatient comparison. *Magnetic Resonance in Medicine*, **2011**, 65, 1407-15	4.4	101
97	Myocardial structure, function, and scar in patients with type 1 diabetes mellitus. *Circulation*, **2011**, 124, 1737-46	16.7	62
96	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
95	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
94	Fully automatic registration and segmentation of first-pass myocardial perfusion MR image sequences. *Academic Radiology*, **2010**, 17, 1375-85	4.3	18

93	Gadofosveset-enhanced magnetic resonance imaging of human carotid atherosclerotic plaques: a proof-of-concept study. *Investigative Radiology*, **2010**, 45, 275-81	10.1	41
92	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
91	Assessment of right ventricular function in acute pulmonary embolism using ECG-synchronized MDCT. *American Journal of Roentgenology*, **2010**, 195, 909-15	5.4	10
90	Exploring individual user differences in the 2D/3D interaction with medical image data. *Virtual Reality*, **2010**, 14, 105-118	6	5
89	Quantification in cardiac MRI: advances in image acquisition and processing. *International Journal of Cardiovascular Imaging*, **2010**, 26 Suppl 1, 27-40	2.5	88
88	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
87	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
86	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
85	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
84	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
83	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
82	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
81	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
80	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
79	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
78	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
77	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
76	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

75	Fully automated motion correction in first-pass myocardial perfusion MR image sequences. *IEEE Transactions on Medical Imaging*, **2008**, 27, 1611-21	11.7	69
74	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
73	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
72	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
71	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
70	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
69	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
68	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
67	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
66	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
65	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
64	Magnetic resonance angiography of the human middle meningeal artery: implications for migraine. *Journal of Magnetic Resonance Imaging*, **2006**, 24, 918-21	5.6	11
63	MDCT assessment of right ventricular systolic function. *American Journal of Roentgenology*, **2006**, 186, S366-70	5.4	46
62	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**,	15.1	112
61	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
60	Time continuous tracking and segmentation of cardiovascular magnetic resonance images using multidimensional dynamic programming. *Investigative Radiology*, **2006**, 41, 52-62	10.1	45
59	Analysis of first-pass myocardial perfusion MRI using independent component analysis **2006**, 6144, 596		3
58	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

57	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
56	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
55	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
54	Semi-automatic border detection method for left ventricular volume estimation in 4D ultrasound data **2005**,		2
53	Influence of positional and angular variation of automatically planned short-axis stacks on quantification of left ventricular dimensions and function with cardiovascular magnetic resonance. *Journal of Magnetic Resonance Imaging*, **2005**, 22, 754-64	5.6	2
52	A Problem Solving Environment for Image-Based Computational Hemodynamics. *Lecture Notes in Computer Science*, **2005**, 287-294	0.9	1
51	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
50	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
49	MRI to evaluate left atrial and ventricular reverse remodeling after restrictive mitral annuloplasty in dilated cardiomyopathy. *Circulation*, **2005**, 112, I437-42	16.7	54
48	Cardiovascular MR Image Analysis **2005**, 193-239		
47	Images in cardiovascular medicine. Dynamic multislice computed tomography of left ventricular function. *Circulation*, **2004**, 109, e25-6	16.7	3
46	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
45	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
44	Automatic plaque characterization and vessel wall segmentation in magnetic resonance images of atherosclerotic carotid arteries **2004**,		6
43	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
42	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
41	Three-dimensional active shape model matching for left ventricle segmentation in cardiac CT **2003**,		3
40	Toward comparability of coronary magnetic resonance angiography: proposal for a standardized quantitative assessment. *European Radiology*, **2003**, 13, 2353-7	8	6

39	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
38	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
37	3-D active appearance models: segmentation of cardiac MR and ultrasound images. *IEEE Transactions on Medical Imaging*, **2002**, 21, 1167-78	11.7	275
36	Quantitative Methods for Comparisons between Velocity Encoded MR-Measurements and Finite Element Modeling in Phantom Models. *Lecture Notes in Computer Science*, **2002**, 255-264	0.9	2
35	Time-continuous segmentation of cardiac MR image sequences using active appearance motion models **2001**,		13
34	Automated observer-independent acquisition of cardiac short-axis MR images: a pilot study. *Radiology*, **2001**, 221, 537-42	20.5	35
33	Time continuous segmentation of cardiac MR images using Active Appearance Motion Models. *International Congress Series*, **2001**, 1230, 961-966		4
32	Time-Continuous Segmentation of Cardiac Image Sequences Using Active Appearance Motion Models. *Lecture Notes in Computer Science*, **2001**, 446-452	0.9	18
31	Segmentation of cardiac MR images: an active appearance model approach **2000**, 3979, 224		11
30	Quantification of global and regional ventricular function in cardiac magnetic resonance imaging. *Topics in Magnetic Resonance Imaging*, **2000**, 11, 348-58	2.3	16
29	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
28	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
27	Vessel diameter measurements in gadolinium contrast-enhanced three-dimensional MRA of peripheral arteries. *Magnetic Resonance Imaging*, **2000**, 18, 13-22	3.3	51
26	Infarcted myocardium in pigs: MR imaging enhanced with slow-interstitial-diffusion gadolinium compound P760. *Radiology*, **1999**, 212, 467-73	20.5	15
25	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
24	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
23	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
22	Quantification in cardiac MRI. *Journal of Magnetic Resonance Imaging*, **1999**, 10, 602-8	5.6	143

21	Anatomical Modeling with Fuzzy Implicit Surfaces: Application to Automated Localization of the Heart and Lungs in Thoracic MR Images. *Lecture Notes in Computer Science*, **1999**, 400-405	0.9	
20	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
19	Objective stenosis quantification from post-stenotic signal loss in phase-contrast magnetic resonance angiographic datasets of flow phantoms and renal arteries. *Magnetic Resonance Imaging*, **1998**, 16, 249-60	3.3	6
18	Ultrasmall superparamagnetic particles of iron oxide (USPIO) MR imaging of infarcted myocardium in pigs. *Magnetic Resonance Imaging*, **1998**, 16, 755-63	3.3	14
17	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
16	Quantitation of global and regional left ventricular function by MRI. *Developments in Cardiovascular Medicine*, **1998**, 233-246		
15	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
14	Distinction between open and occluded infarct-related arteries using contrast-enhanced magnetic resonance imaging. *American Journal of Cardiology*, **1997**, 80, 334-6	3	9
13	Quantitative analysis of cardiovascular MR images. *International Journal of Cardiovascular Imaging*, **1997**, 13, 247-58		58
12	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
11	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
10	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
9	Quantitative Cardiovascular Image Analysis: Current Status and what are Realistic Expectations for the Future?. *Developments in Cardiovascular Medicine*, **1997**, 103-131		
8	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
7	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
6	Reproducibility of MRI-derived measurements of right ventricular volumes and myocardial mass. *Magnetic Resonance Imaging*, **1995**, 13, 53-63	3.3	163
5	Application of quantitative coronary angiography in a cineless environment: in vivo assessment of a fully automated system for clinical use. *American Heart Journal*, **1995**, 129, 300-6	4.9	3
4	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

3	Noninvasive evaluation of aortocoronary bypass grafts with magnetic resonance flow mapping. *American Journal of Cardiology*, **1995**, 75, 845-8	3	72
2	Mitral regurgitation quantification by cardiac magnetic resonance imaging (MRI) remains reproducible between software solutions. *Wellcome Open Research*,6, 253	4.8	
1	Mitral regurgitation quantification by cardiac magnetic resonance imaging (MRI) remains reproducible between software solutions. *Wellcome Open Research*,6, 253	4.8	