

Tobias Schaeffter

List of Publications by Year in Descending Order

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Version: 2024-04-28

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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.

287
papers

11,010
citations

66
h-index

91
g-index

315
ext. papers

13,056
ext. citations

6.1
avg, IF

6.14
L-index

#	Paper	IF	Citations
287	Calibration-free pTx of the human heart at 7T via 3D universal pulses. <i>Magnetic Resonance in Medicine</i> , 2022 , 87, 70-84	4.4	1
286	Respiratory motion correction for enhanced quantification of hepatic lesions in simultaneous PET and DCE-MR imaging. <i>Physics in Medicine and Biology</i> , 2021 , 66,	3.8	2
285	An end-to-end-trainable iterative network architecture for accelerated radial multi-coil 2D cine MR image reconstruction. <i>Medical Physics</i> , 2021 , 48, 2412-2425	4.4	2
284	MRI for Guided Right and Left Heart Cardiac Catheterization: A Prospective Study in Congenital Heart Disease. <i>Journal of Magnetic Resonance Imaging</i> , 2021 , 53, 1446-1457	5.6	4
283	Pilot tone-based motion correction for prospective respiratory compensated cardiac cine MRI. <i>Magnetic Resonance in Medicine</i> , 2021 , 85, 2403-2416	4.4	7
282	3D Free-breathing multichannel absolute Mapping in the human body at 7T. <i>Magnetic Resonance in Medicine</i> , 2021 , 85, 2552-2567	4.4	7
281	Adaptive sparsity level and dictionary size estimation for image reconstruction in accelerated 2D radial cine MRI. <i>Medical Physics</i> , 2021 , 48, 178-192	4.4	2
280	Deep Learning for ECG Analysis: Benchmarks and Insights from PTB-XL. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2021 , 25, 1519-1528	7.2	36
279	Imaging coronary plaques using 3D motion-compensated [F]NaF PET/MR. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2021 , 48, 2455-2465	8.8	2
278	Pixel-wise assessment of cardiovascular magnetic resonance first-pass perfusion using a cardiac phantom mimicking transmural myocardial perfusion gradients. <i>Magnetic Resonance in Medicine</i> , 2020 , 84, 2871-2884	4.4	3
277	PTB-XL, a large publicly available electrocardiography dataset. <i>Scientific Data</i> , 2020 , 7, 154	8.2	70
276	Clinical quantitative cardiac imaging for the assessment of myocardial ischaemia. <i>Nature Reviews Cardiology</i> , 2020 , 17, 427-450	14.8	37
275	Cellular uptake of magnetic nanoparticles imaged and quantified by magnetic particle imaging. <i>Scientific Reports</i> , 2020 , 10, 1922	4.9	27
274	A flexible framework for sequential estimation of model parameters in computational hemodynamics. <i>Advanced Modeling and Simulation in Engineering Sciences</i> , 2020 , 7, 48	2.7	9
273	Flexible numerical simulation framework for dynamic PET-MR data. <i>Physics in Medicine and Biology</i> , 2020 , 65, 145003	3.8	0
272	4D flow imaging with UNFOLD in a reduced FOV. <i>Magnetic Resonance in Medicine</i> , 2020 , 84, 327-338	4.4	
271	Identifying locations of re-entrant drivers from patient-specific distribution of fibrosis in the left atrium. <i>PLoS Computational Biology</i> , 2020 , 16, e1008086	5	9

270	Spatio-Temporal Deep Learning-Based Undersampling Artefact Reduction for 2D Radial Cine MRI With Limited Training Data. <i>IEEE Transactions on Medical Imaging</i> , 2020 , 39, 703-717	11.7	36
269	Fast myocardial T mapping using cardiac motion correction. <i>Magnetic Resonance in Medicine</i> , 2020 , 83, 438-451	4.4	8
268	Autocalibrated cardiac tissue phase mapping with multiband imaging and k-t acceleration. <i>Magnetic Resonance in Medicine</i> , 2020 , 84, 2429-2441	4.4	2
267	Mammography Image Quality Assurance Using Deep Learning. <i>IEEE Transactions on Biomedical Engineering</i> , 2020 , 67, 3317-3326	5	8
266	3D nonrigid motion correction for quantitative assessment of hepatic lesions in DCE-MRI. <i>Magnetic Resonance in Medicine</i> , 2019 , 82, 1753-1766	4.4	10
265	Determination of contrast-detail curves in mammography image quality assessment by a parametric model observer. <i>Physica Medica</i> , 2019 , 62, 120-128	2.7	3
264	Porous medium 3D flow simulation of contrast media washout in cardiac MRI reflects myocardial injury. <i>Magnetic Resonance in Medicine</i> , 2019 , 82, 775-785	4.4	
263	4D flow imaging with 2D-selective excitation. <i>Magnetic Resonance in Medicine</i> , 2019 , 82, 886-900	4.4	3
262	A comprehensive multi-index cardiac magnetic resonance-guided assessment of atrial fibrillation substrate prior to ablation: Prediction of long-term outcomes. <i>Journal of Cardiovascular Electrophysiology</i> , 2019 , 30, 1894-1903	2.7	12
261	Simultaneous N-Ammonia and gadolinium first-pass myocardial perfusion with quantitative hybrid PET-MR imaging: a phantom and clinical feasibility study. <i>European Journal of Hybrid Imaging</i> , 2019 , 3, 15	1.7	6
260	Large-Scale Bayesian Spatial-Temporal Regression with Application to Cardiac MR-Perfusion Imaging. <i>SIAM Journal on Imaging Sciences</i> , 2019 , 12, 2035-2062	1.9	1
259	Simultaneous high-resolution cardiac T mapping and cine imaging using model-based iterative image reconstruction. <i>Magnetic Resonance in Medicine</i> , 2019 , 81, 1080-1091	4.4	10
258	Imaging and quantification of magnetic nanoparticles: Comparison of magnetic resonance imaging and magnetic particle imaging. <i>Journal of Magnetism and Magnetic Materials</i> , 2019 , 475, 382-388	2.8	17
257	Acceleration Strategies for Data Sampling in MRI 2018 , 167-186		
256	Fully integrated 3D high-resolution multicontrast abdominal PET-MR with high scan efficiency. <i>Magnetic Resonance in Medicine</i> , 2018 , 79, 900-911	4.4	10
255	The growth and evolution of cardiovascular magnetic resonance: a 20-year history of the Society for Cardiovascular Magnetic Resonance (SCMR) annual scientific sessions. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2018 , 20, 8	6.9	8
254	Optimization of late gadolinium enhancement cardiovascular magnetic resonance imaging of post-ablation atrial scar: a cross-over study. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2018 , 20, 30	6.9	21
253	The reproducibility of late gadolinium enhancement cardiovascular magnetic resonance imaging of post-ablation atrial scar: a cross-over study. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2018 , 20, 21	6.9	27

252	Exploring kinetic energy as a new marker of cardiac function in the single ventricle circulation. <i>Journal of Applied Physiology</i> , 2018 , 125, 889-900	3.7	7
251	Joint cardiac and respiratory motion estimation for motion-corrected cardiac PET-MR. <i>Physics in Medicine and Biology</i> , 2018 , 64, 015007	3.8	20
250	In vivo myocardial tissue characterization of all four chambers using high-resolution quantitative MRI. <i>Current Directions in Biomedical Engineering</i> , 2018 , 4, 263-266	0.5	
249	Pixel-wise quantification of myocardial perfusion using spatial Tikhonov regularization. <i>Physics in Medicine and Biology</i> , 2018 , 63, 215017	3.8	5
248	Shearlet-based compressed sensing for fast 3D cardiac MR imaging using iterative reweighting. <i>Physics in Medicine and Biology</i> , 2018 , 63, 235004	3.8	4
247	Respiratory-resolved MR-based attenuation correction for motion-compensated cardiac PET-MR. <i>Physics in Medicine and Biology</i> , 2018 , 63, 135008	3.8	15
246	Improved sensitivity and limit-of-detection using a receive-only coil in magnetic particle imaging. <i>Physics in Medicine and Biology</i> , 2018 , 63, 13NT02	3.8	21
245	Automatic T2* determination for quantification of iron load in heart and liver: a comparison between automatic inline Maximum Likelihood Estimate and the truncation and offset methods. <i>Clinical Physiology and Functional Imaging</i> , 2017 , 37, 299-304	2.4	4
244	Cardiac and Respiratory Motion Correction for Simultaneous Cardiac PET/MR. <i>Journal of Nuclear Medicine</i> , 2017 , 58, 846-852	8.9	46
243	Novel MRI Technique Enables Non-Invasive Measurement of Atrial Wall Thickness. <i>IEEE Transactions on Medical Imaging</i> , 2017 , 36, 1607-1614	11.7	19
242	Magnetic resonance imaging planning in children with complex congenital heart disease - A new approach. <i>JRSM Cardiovascular Disease</i> , 2017 , 6, 2048004017701870	1.1	0
241	Relative contributions from the ventricle and arterial tree to arterial pressure and its amplification: an experimental study. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2017 , 313, H558-H567 ¹⁴	5.2	14
240	Improved passive catheter tracking with positive contrast for CMR-guided cardiac catheterization using partial saturation (pSAT). <i>Journal of Cardiovascular Magnetic Resonance</i> , 2017 , 19, 60	6.9	17
239	Influence of acquired obesity on coronary vessel wall late gadolinium enhancement in discordant monozygote twins. <i>European Radiology</i> , 2017 , 27, 4612-4618	8	2
238	Right ventricular morphology and function following stage I palliation with a modified Blalock-Taussig shunt versus a right ventricle-to-pulmonary artery conduit. <i>European Journal of Cardio-thoracic Surgery</i> , 2017 , 51, 50-57	3	16
237	Development, Preclinical Validation, and Clinical Translation of a Cardiac Magnetic Resonance - Electrophysiology System With Active Catheter Tracking for Ablation of Cardiac Arrhythmia. <i>JACC: Clinical Electrophysiology</i> , 2017 , 3, 89-103	4.6	26
236	Visualization of Tumor-Immune Interaction - Target-Specific Imaging of S100A8/A9 Reveals Pre-Metastatic Niche Establishment. <i>Theranostics</i> , 2017 , 7, 2392-2401	12.1	58
235	Three-Degree-of-Freedom MR-Compatible Multisegment Cardiac Catheter Steering Mechanism. <i>IEEE Transactions on Biomedical Engineering</i> , 2016 , 63, 2425-2435	5	22

234	Age-related changes in intraventricular kinetic energy: a physiological or pathological adaptation?. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2016 , 310, H747-55	5.2	20
233	MR-Based Cardiac and Respiratory Motion-Compensation Techniques for PET-MR Imaging. <i>PET Clinics</i> , 2016 , 11, 179-91	2.2	33
232	Evaluation of state-of-the-art segmentation algorithms for left ventricle infarct from late Gadolinium enhancement MR images. <i>Medical Image Analysis</i> , 2016 , 30, 95-107	15.4	59
231	Focal But Not Diffuse Myocardial Fibrosis Burden Quantification Using Cardiac Magnetic Resonance Imaging Predicts Left Ventricular Reverse Modeling Following Cardiac Resynchronization Therapy. <i>Journal of Cardiovascular Electrophysiology</i> , 2016 , 27, 203-9	2.7	26
230	A novel methodology for personalized simulations of ventricular hemodynamics from noninvasive imaging data. <i>Computerized Medical Imaging and Graphics</i> , 2016 , 51, 20-31	7.6	9
229	On the impact of modelling assumptions in multi-scale, subject-specific models of aortic haemodynamics. <i>Journal of the Royal Society Interface</i> , 2016 , 13,	4.1	61
228	Accelerating 4D flow MRI by exploiting vector field divergence regularization. <i>Magnetic Resonance in Medicine</i> , 2016 , 75, 115-25	4.4	18
227	Accelerated motion corrected three-dimensional abdominal MRI using total variation regularized SENSE reconstruction. <i>Magnetic Resonance in Medicine</i> , 2016 , 75, 1484-98	4.4	60
226	Comparison of image-based and reconstruction-based respiratory motion correction for golden radial phase encoding coronary MR angiography. <i>Journal of Magnetic Resonance Imaging</i> , 2015 , 42, 964-71	5.6	5
225	2D phase contrast blood flow velocity measurements of the thoracic vasculature: comparison of the effect of gadofosveset trisodium and gadopentetate dimeglumine. <i>International Journal of Cardiovascular Imaging</i> , 2015 , 31, 409-16	2.5	2
224	PET Performance Evaluation of a Pre-Clinical SiPM-Based MR-Compatible PET Scanner. <i>IEEE Transactions on Nuclear Science</i> , 2015 , 62, 784-790	1.7	24
223	Repeat left atrial catheter ablation: cardiac magnetic resonance prediction of endocardial voltage and gaps in ablation lesion sets. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2015 , 8, 270-8	6.4	64
222	Myocardial tissue characterization by cardiac magnetic resonance imaging using T1 mapping predicts ventricular arrhythmia in ischemic and non-ischemic cardiomyopathy patients with implantable cardioverter-defibrillators. <i>Heart Rhythm</i> , 2015 , 12, 792-801	6.7	87
221	Assessing cardiac function in the single ventricle circulation: Kinetic energy ejection fraction. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2015 , 17,	6.9	78
220	3D high-resolution atrial wall thickness maps using black-blood PSIR. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2015 , 17,	6.9	7
219	Pressure gradient prediction in aortic coarctation using a computational-fluid-dynamics model: validation against invasive pressure catheterization at rest and pharmacological stress. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2015 , 17,	6.9	10
218	Cardiovascular magnetic resonance catheterization derived pulmonary vascular resistance and medium-term outcomes in congenital heart disease. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2015 , 17, 28	6.9	26
217	A quantitative high resolution voxel-wise assessment of myocardial blood flow from contrast-enhanced first-pass magnetic resonance perfusion imaging: microsphere validation in a magnetic resonance compatible free beating explanted pig heart model. <i>European Heart Journal Cardiovascular Imaging</i> , 2015 , 16, 1088-98	4.1	22

216	100% Efficient three-dimensional coronary MR angiography with two-dimensional beat-to-beat translational and bin-to-bin affine motion correction. <i>Magnetic Resonance in Medicine</i> , 2015 , 74, 756-64	4.4	35
215	The Effect of Contact Force in Atrial Radiofrequency Ablation: Electroanatomical, Cardiovascular Magnetic Resonance, and Histological Assessment in a Chronic Porcine Model. <i>JACC: Clinical Electrophysiology</i> , 2015 , 1, 421-431	4.6	25
214	Water-fat separation in diffusion-weighted EPI using an IDEAL approach with image navigator. <i>Magnetic Resonance in Medicine</i> , 2015 , 73, 964-72	4.4	11
213	Manifold learning based ECG-free free-breathing cardiac CINE MRI. <i>Journal of Magnetic Resonance Imaging</i> , 2015 , 41, 1521-7	5.6	28
212	Response to letter from Bisbal et al regarding, "Repeat left atrial catheter ablation: cardiac magnetic resonance prediction of endocardial voltage and gaps in ablation lesion sets". <i>Circulation: Arrhythmia and Electrophysiology</i> , 2015 , 8, 754-5	6.4	5
211	Altered dependence of aortic pulse wave velocity on transmural pressure in hypertension revealing structural change in the aortic wall. <i>Hypertension</i> , 2015 , 65, 362-9	8.5	24
210	A randomized prospective mechanistic cardiac magnetic resonance study correlating catheter stability, late gadolinium enhancement and 3 year clinical outcomes in robotically assisted vs. standard catheter ablation. <i>Europace</i> , 2015 , 17, 1241-50	3.9	5
209	4D Blood Flow Reconstruction Over the Entire Ventricle From Wall Motion and Blood Velocity Derived From Ultrasound Data. <i>IEEE Transactions on Medical Imaging</i> , 2015 , 34, 2298-308	11.7	20
208	Benchmark for Algorithms Segmenting the Left Atrium From 3D CT and MRI Datasets. <i>IEEE Transactions on Medical Imaging</i> , 2015 , 34, 1460-1473	11.7	96
207	Highly efficient respiratory motion compensated free-breathing coronary MRA using golden-step Cartesian acquisition. <i>Journal of Magnetic Resonance Imaging</i> , 2015 , 41, 738-46	5.6	99
206	Native T1 and T2 values by Cardiovascular Magnetic Resonance Imaging in patients with systemic inflammatory conditions. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2014 , 16,	6.9	78
205	T1 values in discrimination between health and disease using different T1 sequences: comparison between 3DS-MOLLI, 3S-MOLLI, shMOLLI and SASHA. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2014 , 16, P357	6.9	78
204	In vivo characterization of abdominal aortic aneurysms using an elastin specific molecular MR probe. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2014 , 16,	6.9	78
203	T1 mapping in discrimination between hypertrophic and hypertensive cardiomyopathy. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2014 , 16,	6.9	2
202	Aortic stiffness in the presence of self-limiting and sustained systemic inflammation: comparison of acute myocarditis and chronic inflammatory diseases. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2014 , 16,	6.9	78
201	Age-gender normal values of native and post-contrast myocardial T1 relaxation times (λ) on 1.5T and 3T using MOLLI: a multicenter, single vendor cardiovascular magnetic resonance study. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2014 , 16, P23	6.9	4
200	Myocardial T2 mapping for improved detection of inflammatory myocardial involvement in acute and chronic myocarditis. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2014 , 16,	6.9	2
199	Retrospective Rigid Motion Correction in k-Space for Segmented Radial MRI. <i>IEEE Transactions on Medical Imaging</i> , 2014 , 33, 1-10	11.7	21

198	Three-dimensional late gadolinium-enhanced MR imaging of the left atrium: a comparison of spiral versus Cartesian k-space trajectories. <i>Journal of Magnetic Resonance Imaging</i> , 2014 , 39, 211-6	5.6	9
197	In vivo assessment of aortic aneurysm wall integrity using elastin-specific molecular magnetic resonance imaging. <i>Circulation: Cardiovascular Imaging</i> , 2014 , 7, 679-89	3.9	39
196	A 3D MR-acquisition scheme for nonrigid bulk motion correction in simultaneous PET-MR. <i>Medical Physics</i> , 2014 , 41, 082304	4.4	27
195	Towards a fast and efficient approach for modelling the patient-specific ventricular haemodynamics. <i>Progress in Biophysics and Molecular Biology</i> , 2014 , 116, 3-10	4.7	15
194	A 3D MR-acquisition scheme for non-rigid bulk motion correction in simultaneous PET-MR. <i>EJNMMI Physics</i> , 2014 , 1, A37	4.4	2
193	Validation of algorithms for the estimation of pulse transit time: where do we stand today? Response to commentaries by Papaioannou et al. <i>Annals of Biomedical Engineering</i> , 2014 , 42, 1145-7	4.7	1
192	A Method to Standardize Quantification of Left Atrial Scar From Delayed-Enhancement MR Images. <i>IEEE Journal of Translational Engineering in Health and Medicine</i> , 2014 , 2, 1800615	3	22
191	Fibrin-targeted magnetic resonance imaging allows in vivo quantification of thrombus fibrin content and identifies thrombi amenable for thrombolysis. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2014 , 34, 1193-1198	9.4	47
190	Cardiac magnetic resonance and electroanatomical mapping of acute and chronic atrial ablation injury: a histological validation study. <i>European Heart Journal</i> , 2014 , 35, 1486-95	9.5	89
189	Cardiac functional assessment without electrocardiogram using physiological self-navigation. <i>Magnetic Resonance in Medicine</i> , 2014 , 71, 942-54	4.4	12
188	9. Magnetische Resonanztomographie 2014 , 327-406		
187	Catheter-induced errors in pressure measurements in vessels: an in-vitro and numerical study. <i>IEEE Transactions on Biomedical Engineering</i> , 2014 , 61, 1844-50	5	27
186	Left Atrial Segmentation Challenge: A Unified Benchmarking Framework. <i>Lecture Notes in Computer Science</i> , 2014 , 1-13	0.9	3
185	Quantitative magnetic resonance imaging analysis of the relationship between contact force and left atrial scar formation after catheter ablation of atrial fibrillation. <i>Journal of Cardiovascular Electrophysiology</i> , 2014 , 25, 138-45	2.7	59
184	Compressive manifold learning: estimating one-dimensional respiratory motion directly from undersampled k-space data. <i>Magnetic Resonance in Medicine</i> , 2014 , 72, 1130-40	4.4	14
183	Radial k-t SPIRiT: autocalibrated parallel imaging for generalized phase-contrast MRI. <i>Magnetic Resonance in Medicine</i> , 2014 , 72, 1233-45	4.4	9
182	Beat-to-beat variation in pulse wave velocity during breathing maneuvers. <i>Magnetic Resonance in Medicine</i> , 2014 , 72, 202-10	4.4	7
181	Towards highly accelerated Cartesian time-resolved 3D flow cardiovascular magnetic resonance in the clinical setting. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2014 , 16, 42	6.9	38

180	Cardiac magnetic resonance of acute atrial ablation injury - impact of catheter-myocardium contact force. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2014 , 16,	6.9	78
179	Highly undersampled phase-contrast flow measurements using compartment-based k-t principal component analysis. <i>Magnetic Resonance in Medicine</i> , 2013 , 69, 434-43	4.4	35
178	Perfusion phantom: An efficient and reproducible method to simulate myocardial first-pass perfusion measurements with cardiovascular magnetic resonance. <i>Magnetic Resonance in Medicine</i> , 2013 , 69, 698-707	4.4	37
177	Group sparse reconstruction using intensity-based clustering. <i>Magnetic Resonance in Medicine</i> , 2013 , 69, 1169-79	4.4	13
176	Infarct Segmentation of the Left Ventricle Using Graph-Cuts. <i>Lecture Notes in Computer Science</i> , 2013 , 71-79	0.9	
175	Native T1 mapping in differentiation of normal myocardium from diffuse disease in hypertrophic and dilated cardiomyopathy. <i>JACC: Cardiovascular Imaging</i> , 2013 , 6, 475-84	8.4	309
174	Triaxial Catheter-Tip Force Sensor for MRI-Guided Cardiac Procedures. <i>IEEE/ASME Transactions on Mechatronics</i> , 2013 , 18, 386-396	5.5	70
173	A technical assessment of pulse wave velocity algorithms applied to non-invasive arterial waveforms. <i>Annals of Biomedical Engineering</i> , 2013 , 41, 2617-29	4.7	76
172	Dual-IR late gadolinium enhancement achieves better blood suppression than traditional IR in a swine model of atrial radiofrequency ablation scar. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2013 , 15,	6.9	78
171	The dual-IR sequence improves the inter-observer correlation in post-ablation atrial scar size measurements compared with the traditional IR sequence. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2013 , 15,	6.9	78
170	Standardization of myocardial T1 time measurements in clinical setting using MOLLI, shMOLLI and LL at 1.5T and 3T - the CONSEPT study. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2013 , 15,	6.9	78
169	Magnetic resonance imaging of acute and chronic atrial ablation injury - a histological validation study. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2013 , 15,	6.9	78
168	Native T1 mapping by cardiovascular resonance imaging detects subclinical cardiomyopathy in patients with systemic lupus erythematosus. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2013 , 15,	6.9	78
167	Are T1 values to characterize myocardial tissue equivalent between various sequences: comparison of MOLLI, shMOLLI, 3S-MOLLI and SASHA. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2013 , 15,	6.9	78
166	MR-guided cardiac radiofrequency ablation with catheter-tracked local MR lesion monitoring. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2013 , 15,	6.9	78
165	A comparison of late gadolinium enhancement magnetic resonance imaging and left atrial endocardial voltage. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2013 , 15,	6.9	78
164	Motion correction using hierarchical local affine registration improves image quality and myocardial scar characterisation from T1 maps acquired with MOLLI. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2013 , 15,	6.9	78
163	A quantitative high resolution assessment of myocardial blood flow from contrast-enhanced first-pass magnetic resonance perfusion imaging: microsphere validation in a magnetic resonance compatible free beating explanted pig heart model. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2013 , 15,	6.9	2

162	Standardization of T1 measurements with MOLLI in differentiation between health and disease--the ConSept study. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2013 , 15, 78	6.9	104
161	Evaluation of current algorithms for segmentation of scar tissue from late gadolinium enhancement cardiovascular magnetic resonance of the left atrium: an open-access grand challenge. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2013 , 15, 105	6.9	111
160	A sensitivity analysis on 3D velocity reconstruction from multiple registered echo Doppler views. <i>Medical Image Analysis</i> , 2013 , 17, 616-31	15.4	20
159	Benchmarking framework for myocardial tracking and deformation algorithms: an open access database. <i>Medical Image Analysis</i> , 2013 , 17, 632-48	15.4	114
158	In vivo human cardiac fibre architecture estimation using shape-based diffusion tensor processing. <i>Medical Image Analysis</i> , 2013 , 17, 1243-55	15.4	85
157	Patient-specific respiratory models using dynamic 3D MRI: preliminary volunteer results. <i>Physica Medica</i> , 2013 , 29, 214-20	2.7	7
156	Dobutamine stress MRI in repaired tetralogy of Fallot with chronic pulmonary regurgitation: a comparison with healthy volunteers. <i>International Journal of Cardiology</i> , 2013 , 166, 96-105	3.2	25
155	Respiratory motion models: a review. <i>Medical Image Analysis</i> , 2013 , 17, 19-42	15.4	251
154	Highly efficient 3D motion-compensated abdomen MRI from undersampled golden-RPE acquisitions. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2013 , 26, 419-29	2.8	21
153	Contrast-enhanced specific absorption rate-efficient 3D cardiac cine with respiratory-triggered radiofrequency gating. <i>Journal of Magnetic Resonance Imaging</i> , 2013 , 37, 986-92	5.6	6
152	Motion corrected compressed sensing for free-breathing dynamic cardiac MRI. <i>Magnetic Resonance in Medicine</i> , 2013 , 70, 504-16	4.4	108
151	Magnetic resonance T1 relaxation time of venous thrombus is determined by iron processing and predicts susceptibility to lysis. <i>Circulation</i> , 2013 , 128, 729-736	16.7	64
150	Native myocardial T1 mapping by cardiovascular magnetic resonance imaging in subclinical cardiomyopathy in patients with systemic lupus erythematosus. <i>Circulation: Cardiovascular Imaging</i> , 2013 , 6, 295-301	3.9	142
149	Infarct Segmentation Challenge on Delayed Enhancement MRI of the Left Ventricle. <i>Lecture Notes in Computer Science</i> , 2013 , 97-104	0.9	2
148	Higher dose dobutamine stress MR imaging in repaired Tetralogy of Fallot: observer variance of volumetric assessment compared with normal volunteers. <i>Journal of Magnetic Resonance Imaging</i> , 2013 , 38, 1356-61	5.6	
147	Flow Analysis in Cardiac Chambers Combining Phase Contrast, 3D Tagged and Cine MRI. <i>Lecture Notes in Computer Science</i> , 2013 , 360-369	0.9	2
146	3D intraventricular flow mapping from colour Doppler images and wall motion. <i>Lecture Notes in Computer Science</i> , 2013 , 16, 476-83	0.9	5
145	Quantification of Transvalvular Flow through Composite Gaussian Surfaces from Temporally Interleaved Multi-view 3D Colour Doppler Images. <i>Lecture Notes in Computer Science</i> , 2013 , 245-252	0.9	1

144	Thoracic respiratory motion estimation from MRI using a statistical model and a 2-D image navigator. <i>Medical Image Analysis</i> , 2012 , 16, 252-64	15.4	102
143	A Novel Receive-Only Liquid Nitrogen (LN_2)-Cooled RF Coil for High-Resolution In Vivo Imaging on a 3-Tesla Whole-Body Scanner. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2012 , 61, 129-139	5.2	12
142	Nonrigid motion modeling of the liver from 3-D undersampled self-gated golden-radial phase encoded MRI. <i>IEEE Transactions on Medical Imaging</i> , 2012 , 31, 805-15	11.7	48
141	Hybrid Phase ordering with Automatic Window Selection (HybridPAWS) improves respiratory-navigator efficiency during 3D late-gadolinium enhancement CMR in patients with chronic heart failure and irregular respiratory pattern. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2012 , 14,	6.9	78
140	MR imaging-guided cardiovascular interventions in young children. <i>Magnetic Resonance Imaging Clinics of North America</i> , 2012 , 20, 117-28	1.6	17
139	A new imaging method for assessment of aortic dissection using four-dimensional phase contrast magnetic resonance imaging. <i>Journal of Vascular Surgery</i> , 2012 , 55, 914-23	3.5	107
138	Perfusion cardiovascular magnetic resonance: Comparison of an advanced, high-resolution and a standard sequence. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2012 , 14, 34	6.9	18
137	Single breath-hold assessment of cardiac function using an accelerated 3D single breath-hold acquisition technique--comparison of an intravascular and extravascular contrast agent. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2012 , 14, 53	6.9	21
136	PET performance evaluation of a pre-clinical SiPM based MR-compatible PET scanner 2012 ,		1
135	Investigation of MR-Based Attenuation Correction and Motion Compensation for Hybrid PET/MR. <i>IEEE Transactions on Nuclear Science</i> , 2012 , 59, 1967-1976	1.7	28
134	Application of a high resolution T1 mapping with MOLLI (hrMOLLI) in patients in clinical setting: a reproducibility study. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2012 , 14, O82	6.9	78
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