

Tobias Schaeffter

List of Publications by Citations

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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	Transmission line for improved RF safety of interventional devices. <i>Magnetic Resonance in Medicine</i> , 2005 , 54, 182-9	4.4	500
286	An optimal radial profile order based on the Golden Ratio for time-resolved MRI. <i>IEEE Transactions on Medical Imaging</i> , 2007 , 26, 68-76	11.7	473
285	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
284	Respiratory motion models: a review. <i>Medical Image Analysis</i> , 2013 , 17, 19-42	15.4	251
283	Magnetic resonance--guided coronary artery stent placement in a swine model. <i>Circulation</i> , 2002 , 105, 874-9	16.7	149
282	Assessment of atherosclerotic plaque burden with an elastin-specific magnetic resonance contrast agent. <i>Nature Medicine</i> , 2011 , 17, 383-8	50.5	147
281	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
280	Benchmarking framework for myocardial tracking and deformation algorithms: an open access database. <i>Medical Image Analysis</i> , 2013 , 17, 632-48	15.4	114
279	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
278	Four-dimensional (4D) flow of the whole heart and great vessels using real-time respiratory self-gating. <i>Magnetic Resonance in Medicine</i> , 2009 , 62, 984-92	4.4	111
277	Whole-heart cine MRI using real-time respiratory self-gating. <i>Magnetic Resonance in Medicine</i> , 2007 , 57, 606-13	4.4	110
276	Motion corrected compressed sensing for free-breathing dynamic cardiac MRI. <i>Magnetic Resonance in Medicine</i> , 2013 , 70, 504-16	4.4	108
275	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
274	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
273	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
272	Acute pulmonary vein isolation is achieved by a combination of reversible and irreversible atrial injury after catheter ablation: evidence from magnetic resonance imaging. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2012 , 5, 691-700	6.4	100
271	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

270	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
269	R2 and R2* mapping for sensing cell-bound superparamagnetic nanoparticles: in vitro and murine in vivo testing. <i>Radiology</i> , 2007 , 245, 449-57	20.5	93
268	Susceptibility gradient mapping (SGM): a new postprocessing method for positive contrast generation applied to superparamagnetic iron oxide particle (SPIO)-labeled cells. <i>Magnetic Resonance in Medicine</i> , 2008 , 60, 595-603	4.4	90
267	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
266	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
265	MRI-Compatible Fiber-Optic Force Sensors for Catheterization Procedures. <i>IEEE Sensors Journal</i> , 2010 , 10, 1598-1608	4	86
264	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
263	Magnetic resonance-guided placement of atrial septal closure device in animal model of patent foramen ovale. <i>Circulation</i> , 2002 , 106, 511-5	16.7	81
262	3-D visualization of acute RF ablation lesions using MRI for the simultaneous determination of the patterns of necrosis and edema. <i>IEEE Transactions on Biomedical Engineering</i> , 2010 , 57, 1467-75	5	79
261	Assessing cardiac function in the single ventricle circulation: Kinetic energy ejection fraction. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2015 , 17,	6.9	78
260	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
259	T1 values in discrimination between health and disease using different T1 sequences: comparison between 3D-SS-MOLLI, 3D-MOLLI, shMOLLI and SASHA. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2014 , 16, P357	6.9	78
258	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
257	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
256	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
255	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
254	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
253	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

252	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
251	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
250	MR-guided cardiac radiofrequency ablation with catheter-tracked local MR lesion monitoring. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2013 , 15,	6.9	78
249	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
248	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
247	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
246	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
245	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
244	Advanced techniques improve the performance of myocardial perfusion imaging. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2012 , 14,	6.9	78
243	Application of high resolution T1 mapping with MOLLI (hrMOLLI) to differentiate patients with diffuse and regional myocardial disease from healthy subjects. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2012 , 14, P225	6.9	78
242	3T BOLD MRI with low intrascan variability and high reproducibility of limb oxygenation measurements. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2012 , 14,	6.9	78
241	Cardiac magnetic resonance imaging of isolated perfused pig hearts in a 3T clinical MR scanner. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2012 , 14,	6.9	78
240	A dual-slice k-t approach for highly accelerated flow MRI. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2012 , 14,	6.9	78
239	Real time phase encoded MR for assessment of acute variability of central pulse wave velocity. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2012 , 14,	6.9	78
238	MR-guided cardiac interventions using MR-compatible devices: first- in -man clinical trial. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2011 , 13,	6.9	78
237	Impact of an abdominal belt on breathing patterns to improve the quality of whole-heart coronary magnetic resonance angiography: comparison between UK and Japan. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2011 , 13,	6.9	78
236	An automatic segmentation for improved visualization of atrial ablation lesions using magnetic resonance imaging. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2011 , 13,	6.9	78
235	Assessment of the grey zone: a comparison of two methods in heart failure patients awaiting cardiac resynchronization therapy. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2011 , 13,	6.9	78

234	Acute and chronic cardiac radio frequency ablation lesion visualisation using magnetic resonance imaging. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2009 , 11,	6.9	78
233	Coronary MR angiography in children during systole and diastole using a dual cardiac phase scan of the whole heart. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2009 , 11,	6.9	78
232	Contrast-enhanced MR imaging of pulmonary arteries: new imaging strategies using different contrast agents. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2009 , 11,	6.9	78
231	Imaging of aortic coarctation using Gd-DTPA and Gadofosveset: a comparative study. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2009 , 11,	6.9	78
230	Accelerating the nonequispaced fast Fourier transform on commodity graphics hardware. <i>IEEE Transactions on Medical Imaging</i> , 2008 , 27, 538-47	11.7	78
229	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
228	Free-breathing 3D steady-state free precession coronary MR angiography with radial k-space sampling: comparison with cartesian k-space sampling and cartesian gradient-echo coronary MR angiography--pilot study. <i>Radiology</i> , 2004 , 231, 581-6	20.5	72
227	PTB-XL, a large publicly available electrocardiography dataset. <i>Scientific Data</i> , 2020 , 7, 154	8.2	70
226	Triaxial Catheter-Tip Force Sensor for MRI-Guided Cardiac Procedures. <i>IEEE/ASME Transactions on Mechatronics</i> , 2013 , 18, 386-396	5.5	70
225	Hierarchical adaptive local affine registration for fast and robust respiratory motion estimation. <i>Medical Image Analysis</i> , 2011 , 15, 551-64	15.4	70
224	Motion-adapted gating based on k-space weighting for reduction of respiratory motion artifacts. <i>Magnetic Resonance in Medicine</i> , 1997 , 38, 322-33	4.4	70
223	A subject-specific technique for respiratory motion correction in image-guided cardiac catheterisation procedures. <i>Medical Image Analysis</i> , 2009 , 13, 419-31	15.4	68
222	Magnetic resonance-guided cardiac interventions using magnetic resonance-compatible devices: a preclinical study and first-in-man congenital interventions. <i>Circulation: Cardiovascular Interventions</i> , 2010 , 3, 585-92	6	66
221	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
220	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
219	Real-time MR fluoroscopy for MR-guided iliac artery stent placement. <i>Journal of Magnetic Resonance Imaging</i> , 2000 , 12, 616-22	5.6	64
218	Detection of coronary artery anomalies in infants and young children with congenital heart disease by using MR imaging. <i>Radiology</i> , 2011 , 259, 240-7	20.5	62
217	In vivo MRI using positive-contrast techniques in detection of cells labeled with superparamagnetic iron oxide nanoparticles. <i>NMR in Biomedicine</i> , 2008 , 21, 242-50	4.4	62

216	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
215	k-t Group sparse: a method for accelerating dynamic MRI. <i>Magnetic Resonance in Medicine</i> , 2011 , 66, 1163-76	4.7	60
214	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
213	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
212	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
211	Simultaneous PET-MR acquisition and MR-derived motion fields for correction of non-rigid motion in PET. <i>Annals of Nuclear Medicine</i> , 2010 , 24, 745-50	2.5	59
210	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
209	MRI-compatible intensity-modulated force sensor for cardiac catheterization procedures. <i>IEEE Transactions on Biomedical Engineering</i> , 2011 , 58, 721-6	5	57
208	Interleaved T(1) and T(2) relaxation time mapping for cardiac applications. <i>Journal of Magnetic Resonance Imaging</i> , 2009 , 29, 480-7	5.6	57
207	A new method for quantification of false lumen thrombosis in aortic dissection using magnetic resonance imaging and a blood pool contrast agent. <i>Journal of Vascular Surgery</i> , 2011 , 54, 1251-8	3.5	54
206	Real-time reconstruction of sensitivity encoded radial magnetic resonance imaging using a graphics processing unit. <i>IEEE Transactions on Medical Imaging</i> , 2009 , 28, 1974-85	11.7	52
205	Simultaneous dual-nuclei imaging for motion corrected detection and quantification of 19F imaging agents. <i>Magnetic Resonance in Medicine</i> , 2011 , 66, 1116-22	4.4	51
204	Simultaneous real-time visualization of the catheter tip and vascular anatomy for MR-guided PTA of iliac arteries in an animal model. <i>Journal of Magnetic Resonance Imaging</i> , 2002 , 16, 201-8	5.6	50
203	Real-time MR Guidance for inferior vena cava filter placement in an animal model. <i>Journal of Vascular and Interventional Radiology</i> , 2001 , 12, 753-6	2.4	49
202	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
201	. <i>IEEE Transactions on Nuclear Science</i> , 2010 , 57, 1052-1062	1.7	48
200	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
199	Cardiac and Respiratory Motion Correction for Simultaneous Cardiac PET/MR. <i>Journal of Nuclear Medicine</i> , 2017 , 58, 846-852	8.9	46

198	Novel miniature MRI-compatible fiber-optic force sensor for cardiac catheterization procedures 2010 ,		43
197	Analysis and correction of background velocity offsets in phase-contrast flow measurements using magnetic field monitoring. <i>Magnetic Resonance in Medicine</i> , 2012 , 67, 1294-302	4.4	42
196	3D undersampled golden-radial phase encoding for DCE-MRA using inherently regularized iterative SENSE. <i>Magnetic Resonance in Medicine</i> , 2010 , 64, 514-26	4.4	42
195	Noninvasive assessment of atherosclerotic plaque progression in ApoE ^{-/-} mice using susceptibility gradient mapping. <i>Circulation: Cardiovascular Imaging</i> , 2011 , 4, 295-303	3.9	41
194	Projection reconstruction balanced fast field echo for interactive real-time cardiac imaging. <i>Magnetic Resonance in Medicine</i> , 2001 , 46, 1238-41	4.4	41
193	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
192	In vivo safe catheter visualization and slice tracking using an optically detunable resonant marker. <i>Magnetic Resonance in Medicine</i> , 2004 , 52, 860-8	4.4	39
191	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
190	Clinical quantitative cardiac imaging for the assessment of myocardial ischaemia. <i>Nature Reviews Cardiology</i> , 2020 , 17, 427-450	14.8	37
189	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
188	Congenital heart disease: cardiovascular MR imaging by using an intravascular blood pool contrast agent. <i>Radiology</i> , 2011 , 260, 680-8	20.5	37
187	4D phase-contrast flow cardiovascular magnetic resonance: comprehensive quantification and visualization of flow dynamics in atrial septal defect and partial anomalous pulmonary venous return. <i>Pediatric Cardiology</i> , 2010 , 31, 1244-8	2.1	37
186	An isolated perfused pig heart model for the development, validation and translation of novel cardiovascular magnetic resonance techniques. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2010 , 12, 53	6.9	37
185	Pulmonary embolism: comparison of angiography with spiral computed tomography, magnetic resonance angiography, and real-time magnetic resonance imaging. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2003 , 167, 729-34	10.2	36
184	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
183	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
182	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
181	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

180	Volumetric cardiac quantification by using 3D dual-phase whole-heart MR imaging. <i>Radiology</i> , 2008 , 248, 606-14	20.5	35
179	MR-Based Cardiac and Respiratory Motion-Compensation Techniques for PET-MR Imaging. <i>PET Clinics</i> , 2016 , 11, 179-91	2.2	33
178	Catheter tracking and visualization using ¹⁹ F nuclear magnetic resonance. <i>Magnetic Resonance in Medicine</i> , 2004 , 52, 693-7	4.4	33
177	Curved slice imaging. <i>Magnetic Resonance in Medicine</i> , 1996 , 36, 932-9	4.4	33
176	Monitoring of in vivo function of superparamagnetic iron oxide labelled murine dendritic cells during anti-tumour vaccination. <i>PLoS ONE</i> , 2011 , 6, e19662	3.7	33
175	An adaptive and predictive respiratory motion model for image-guided interventions: theory and first clinical application. <i>IEEE Transactions on Medical Imaging</i> , 2009 , 28, 2020-32	11.7	31
174	Model-based reconstruction for cardiac cine MRI without ECG or breath holding. <i>Magnetic Resonance in Medicine</i> , 2010 , 63, 1247-57	4.4	31
173	Advanced image fusion to overlay coronary sinus anatomy with real-time fluoroscopy to facilitate left ventricular lead implantation in CRT. <i>PACE - Pacing and Clinical Electrophysiology</i> , 2011 , 34, 226-34	1.6	29
172	Quantitative assessment of left ventricular function with interactive real-time spiral and radial MR imaging. <i>Radiology</i> , 2003 , 227, 870-6	20.5	29
171	Manifold learning based ECG-free free-breathing cardiac CINE MRI. <i>Journal of Magnetic Resonance Imaging</i> , 2015 , 41, 1521-7	5.6	28
170	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
169	Cardiac MRI to investigate myocardial scar and coronary venous anatomy using a slow infusion of dimeglumine gadobenate in patients undergoing assessment for cardiac resynchronization therapy. <i>Journal of Magnetic Resonance Imaging</i> , 2011 , 33, 87-95	5.6	28
168	Cellular uptake of magnetic nanoparticles imaged and quantified by magnetic particle imaging. <i>Scientific Reports</i> , 2020 , 10, 1922	4.9	27
167	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
166	A 3D MR-acquisition scheme for nonrigid bulk motion correction in simultaneous PET-MR. <i>Medical Physics</i> , 2014 , 41, 082304	4.4	27
165	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
164	SiPM based preclinical PET/MR insert for a human 3T MR: first imaging experiments 2011 ,		27
163	Brain perfusion territory imaging applying oblique-plane arterial spin labeling with a standard send/receive head coil. <i>Magnetic Resonance in Medicine</i> , 2004 , 52, 1443-7	4.4	27

162	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
161	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
160	In vivo evaluation and proof of radiofrequency safety of a novel diagnostic MR-electrophysiology catheter. <i>Magnetic Resonance in Medicine</i> , 2011 , 65, 770-7	4.4	26
159	Multi-view 3D echocardiography compounding based on feature consistency. <i>Physics in Medicine and Biology</i> , 2011 , 56, 6109-28	3.8	26
158	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
157	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
156	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
155	Pharmacokinetic modeling of delayed gadolinium enhancement in the myocardium. <i>Magnetic Resonance in Medicine</i> , 2008 , 60, 1524-30	4.4	25
154	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
153	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
152	A preclinical PET/MR insert for a human 3T MR scanner 2009 ,		24
151	3D T(1)-mapping for the characterization of deep vein thrombosis. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2009 , 22, 375-83	2.8	23
150	Congenital heart disease in children: coronary MR angiography during systole and diastole with dual cardiac phase whole-heart imaging. <i>Radiology</i> , 2011 , 260, 232-40	20.5	23
149	Three-dimensional dual-phase whole-heart MR imaging: clinical implications for congenital heart disease. <i>Radiology</i> , 2012 , 263, 547-54	20.5	23
148	Noninvasive assessment of pulmonary artery flow and resistance by cardiac magnetic resonance in congenital heart diseases with unrestricted left-to-right shunt. <i>JACC: Cardiovascular Imaging</i> , 2009 , 2, 1285-91	8.4	23
147	Three-Degree-of-Freedom MR-Compatible Multisegment Cardiac Catheter Steering Mechanism. <i>IEEE Transactions on Biomedical Engineering</i> , 2016 , 63, 2425-2435	5	22
146	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, 1082-92	4.1	22
145	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

144	The effect of inaccurate bone attenuation coefficient and segmentation on reconstructed PET images. <i>Nuclear Medicine Communications</i> , 2010 , 31, 708-16	1.6	22
143	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
142	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
141	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
140	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
139	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
138	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
137	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
136	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
135	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
134	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
133	Fast 1H spectroscopic imaging using a multi-element head-coil array. <i>Magnetic Resonance in Medicine</i> , 1998 , 40, 185-93	4.4	19
132	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
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