

Sebastian Kozerke

List of Publications by Citations

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309
papers

11,098
citations

53
h-index

95
g-index

321
ext. papers

12,816
ext. citations

5.8
avg, IF

6.25
L-index

#	Paper	IF	Citations
309	Modified Look-Locker inversion recovery (MOLLI) for high-resolution T1 mapping of the heart. <i>Magnetic Resonance in Medicine</i> , 2004 , 52, 141-6	4.4	1264
308	Accelerating cardiac cine 3D imaging using k-t BLAST. <i>Magnetic Resonance in Medicine</i> , 2004 , 52, 19-26	4.4	493
307	4D flow cardiovascular magnetic resonance consensus statement. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2015 , 17, 72	6.9	446
306	4D flow MRI. <i>Journal of Magnetic Resonance Imaging</i> , 2012 , 36, 1015-36	5.6	433
305	Compressed sensing in dynamic MRI. <i>Magnetic Resonance in Medicine</i> , 2008 , 59, 365-73	4.4	404
304	Cardiac SSFP imaging at 3 Tesla. <i>Magnetic Resonance in Medicine</i> , 2004 , 51, 799-806	4.4	248
303	k-t PCA: temporally constrained k-t BLAST reconstruction using principal component analysis. <i>Magnetic Resonance in Medicine</i> , 2009 , 62, 706-16	4.4	223
302	High-resolution magnetic resonance myocardial perfusion imaging at 3.0-Tesla to detect hemodynamically significant coronary stenoses as determined by fractional flow reserve. <i>Journal of the American College of Cardiology</i> , 2011 , 57, 70-5	15.1	160
301	Array compression for MRI with large coil arrays. <i>Magnetic Resonance in Medicine</i> , 2007 , 57, 1131-9	4.4	153
300	Intracoronary injection of bone marrow-derived mononuclear cells early or late after acute myocardial infarction: effects on global left ventricular function. <i>Circulation</i> , 2013 , 127, 1968-79	16.7	147
299	Dynamic contrast-enhanced myocardial perfusion MRI accelerated with k-t sense. <i>Magnetic Resonance in Medicine</i> , 2007 , 58, 777-85	4.4	127
298	MRI temporal acceleration techniques. <i>Journal of Magnetic Resonance Imaging</i> , 2012 , 36, 543-60	5.6	126
297	Metabolic imaging of myocardial triglyceride content: reproducibility of 1H MR spectroscopy with respiratory navigator gating in volunteers. <i>Radiology</i> , 2007 , 245, 251-7	20.5	116
296	Accelerating cine phase-contrast flow measurements using k-t BLAST and k-t SENSE. <i>Magnetic Resonance in Medicine</i> , 2005 , 54, 1430-8	4.4	115
295	Heart motion adapted cine phase-contrast flow measurements through the aortic valve. <i>Magnetic Resonance in Medicine</i> , 1999 , 42, 970-8	4.4	110
294	Optimizing spatiotemporal sampling for k-t BLAST and k-t SENSE: application to high-resolution real-time cardiac steady-state free precession. <i>Magnetic Resonance in Medicine</i> , 2005 , 53, 1372-82	4.4	103
293	Cardiac MRI Endpoints in Myocardial Infarction Experimental and Clinical Trials: JACC Scientific Expert Panel. <i>Journal of the American College of Cardiology</i> , 2019 , 74, 238-256	15.1	102

292	Diffusion imaging of the in vivo heart using spin echoes--considerations on bulk motion sensitivity. <i>Magnetic Resonance in Medicine</i> , 2007 , 57, 331-7	4.4	93
291	Accurate noninvasive quantitation of blood flow, cross-sectional lumen vessel area and wall shear stress by three-dimensional paraboloid modeling of magnetic resonance imaging velocity data. <i>Journal of the American College of Cardiology</i> , 1998 , 32, 128-34	15.1	92
290	High spatial resolution myocardial perfusion cardiac magnetic resonance for the detection of coronary artery disease. <i>European Heart Journal</i> , 2008 , 29, 2148-55	9.5	88
289	Validation of dynamic 3-dimensional whole heart magnetic resonance myocardial perfusion imaging against fractional flow reserve for the detection of significant coronary artery disease. <i>Journal of the American College of Cardiology</i> , 2012 , 60, 756-65	15.1	87
288	Distribution of normal human left ventricular myofiber stress at end diastole and end systole: a target for in silico design of heart failure treatments. <i>Journal of Applied Physiology</i> , 2014 , 117, 142-52	3.7	86
287	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
286	Visualization of flow patterns distal to aortic valve prostheses in humans using a fast approach for cine 3D velocity mapping. <i>Journal of Magnetic Resonance Imaging</i> , 2001 , 13, 690-8	5.6	84
285	Accelerated whole-heart 3D CSPAMM for myocardial motion quantification. <i>Magnetic Resonance in Medicine</i> , 2008 , 59, 755-63	4.4	83
284	Aortic and mitral regurgitation: quantification using moving slice velocity mapping. <i>Journal of Magnetic Resonance Imaging</i> , 2001 , 14, 106-12	5.6	81
283	k-Space and time sensitivity encoding-accelerated myocardial perfusion MR imaging at 3.0 T: comparison with 1.5 T. <i>Radiology</i> , 2008 , 249, 493-500	20.5	80
282	Multi-echo single-shot EPI for hyperpolarized ¹³ C cardiac metabolic imaging of small animals. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2013 , 15,	6.9	78
281	Whole-heart first-pass myocardial perfusion imaging with non-rigid respiratory motion correction. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2013 , 15,	6.9	78
280	Validation of dynamic three-dimensional whole heart magnetic resonance myocardial perfusion imaging at 3.0 Tesla against fractional flow reserve for the detection of flow-limiting coronary heart disease. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2012 , 14,	6.9	78
279	First pass vasodilator-stress myocardial perfusion CMR in mice on a whole-body 3Tesla scanner: validation against microspheres. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2012 , 14,	6.9	78
278	Myocardial T2* mapping free of distortion using susceptibility weighted spin-echo based imaging: a feasibility study. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2009 , 11, P218	6.9	78
277	First-pass myocardial perfusion assessment using eight-fold accelerated k-t BLAST stress DCE-MRI with rapid parametric mapping. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2009 , 11,	6.9	78
276	k-t SENSE-accelerated myocardial perfusion MR imaging at 3.0 Tesla [comparison with pressure wire measurement of fractional flow reserve. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2009 , 11,	6.9	78
275	Left ventricular dyssynchrony in patients with left bundle branch block and patients after myocardial infarction using 3D MR tagging. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2009 , 11,	6.9	78

274	Three-dimensional measurement of LV and RV dimensions using prospective self-gating for simultaneous compensation of cardiac and respiratory motion. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2009 , 11,	6.9	78
273	Endocardial to epicardial perfusion ratios at rest and stress determined by perfusion-CMR. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2009 , 11, P6	6.9	78
272	Automatic vessel segmentation using active contours in cine phase contrast flow measurements. <i>Journal of Magnetic Resonance Imaging</i> , 1999 , 10, 41-51	5.6	77
271	MRXCAT: Realistic numerical phantoms for cardiovascular magnetic resonance. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2014 , 16, 63	6.9	71
270	Prospective self-gating for simultaneous compensation of cardiac and respiratory motion. <i>Magnetic Resonance in Medicine</i> , 2008 , 60, 683-90	4.4	71
269	Respiratory bellows revisited for motion compensation: preliminary experience for cardiovascular MR. <i>Magnetic Resonance in Medicine</i> , 2011 , 65, 1097-102	4.4	69
268	Dynamic 3-dimensional stress cardiac magnetic resonance perfusion imaging: detection of coronary artery disease and volumetry of myocardial hypoenhancement before and after coronary stenting. <i>Journal of the American College of Cardiology</i> , 2011 , 57, 437-44	15.1	65
267	Whole-heart dynamic three-dimensional magnetic resonance perfusion imaging for the detection of coronary artery disease defined by fractional flow reserve: determination of volumetric myocardial ischaemic burden and coronary lesion location. <i>European Heart Journal</i> , 2012 , 33, 2016-24	9.5	64
266	Second-order motion-compensated spin echo diffusion tensor imaging of the human heart. <i>Magnetic Resonance in Medicine</i> , 2016 , 75, 1669-76	4.4	63
265	Effect of Bone Marrow-Derived Mononuclear Cell Treatment, Early or Late After Acute Myocardial Infarction: Twelve Months CMR and Long-Term Clinical Results. <i>Circulation Research</i> , 2016 , 119, 481-90	15.7	62
264	Feasibility of cardiac gating free of interference with electro-magnetic fields at 1.5 Tesla, 3.0 Tesla and 7.0 Tesla using an MR-stethoscope. <i>Investigative Radiology</i> , 2009 , 44, 539-47	10.1	62
263	High resolution three-dimensional cardiac perfusion imaging using compartment-based k-t principal component analysis. <i>Magnetic Resonance in Medicine</i> , 2011 , 65, 575-87	4.4	61
262	Dual-phase cardiac diffusion tensor imaging with strain correction. <i>PLoS ONE</i> , 2014 , 9, e107159	3.7	59
261	Heterogeneous growth-induced prestrain in the heart. <i>Journal of Biomechanics</i> , 2015 , 48, 2080-9	2.9	58
260	A multi-sample 94 GHz dissolution dynamic-nuclear-polarization system. <i>Journal of Magnetic Resonance</i> , 2012 , 214, 166-74	3	58
259	Sensitivity-encoded coronary MRA at 3T. <i>Magnetic Resonance in Medicine</i> , 2004 , 52, 221-7	4.4	58
258	Acute, subacute, and chronic myocardial infarction: quantitative comparison of 2D and 3D late gadolinium enhancement MR imaging. <i>Radiology</i> , 2011 , 259, 704-11	20.5	57
257	3D cine displacement-encoded MRI of pulsatile brain motion. <i>Magnetic Resonance in Medicine</i> , 2009 , 61, 153-62	4.4	53

256	On the influence of training data quality in k-t BLAST reconstruction. <i>Magnetic Resonance in Medicine</i> , 2004 , 52, 1175-83	4.4	53
255	Nonrigid retrospective respiratory motion correction in whole-heart coronary MRA. <i>Magnetic Resonance in Medicine</i> , 2011 , 66, 1541-9	4.4	52
254	Quantitation of circumferential subpixel vessel wall position and wall shear stress by multiple sectorized three-dimensional paraboloid modeling of velocity encoded cine MR. <i>Magnetic Resonance in Medicine</i> , 1998 , 40, 645-55	4.4	52
253	Microstructural impact of ischemia and bone marrow-derived cell therapy revealed with diffusion tensor magnetic resonance imaging tractography of the heart in vivo. <i>Circulation</i> , 2014 , 129, 1731-41	16.7	51
252	Bayesian multipoint velocity encoding for concurrent flow and turbulence mapping. <i>Magnetic Resonance in Medicine</i> , 2013 , 69, 1337-45	4.4	50
251	Three-dimensional magnetic resonance imaging of congenital cardiac anomalies. <i>Cardiology in the Young</i> , 2003 , 13, 461-5	1	48
250	First evidence of depressed contractility in the border zone of a human myocardial infarction. <i>Annals of Thoracic Surgery</i> , 2012 , 93, 1188-93	2.7	45
249	Four-dimensional single breathhold magnetic resonance imaging using kt-BLAST enables reliable assessment of left- and right-ventricular volumes and mass. <i>Journal of Magnetic Resonance Imaging</i> , 2007 , 25, 737-42	5.6	45
248	Navigator gating and volume tracking for double-triggered cardiac proton spectroscopy at 3 Tesla. <i>Magnetic Resonance in Medicine</i> , 2004 , 51, 1091-5	4.4	45
247	Quantitative abdominal aortic flow measurements at controlled levels of ergometer exercise. <i>Magnetic Resonance Imaging</i> , 1999 , 17, 489-94	3.3	45
246	First-pass contrast-enhanced myocardial perfusion MRI in mice on a 3-T clinical MR scanner. <i>Magnetic Resonance in Medicine</i> , 2010 , 64, 1592-8	4.4	44
245	Multicenter evaluation of dynamic three-dimensional magnetic resonance myocardial perfusion imaging for the detection of coronary artery disease defined by fractional flow reserve. <i>Circulation: Cardiovascular Imaging</i> , 2015 , 8,	3.9	43
244	Sparsity transform k-t principal component analysis for accelerating cine three-dimensional flow measurements. <i>Magnetic Resonance in Medicine</i> , 2013 , 70, 53-63	4.4	43
243	T1 mapping in ischaemic heart disease. <i>European Heart Journal Cardiovascular Imaging</i> , 2014 , 15, 597-602	4.1	42
242	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
241	Quantitative Analysis of Vortical Blood Flow in the Thoracic Aorta Using 4D Phase Contrast MRI. <i>PLoS ONE</i> , 2015 , 10, e0139025	3.7	42
240	Turbulent Kinetic Energy Assessed by Multipoint 4-Dimensional Flow Magnetic Resonance Imaging Provides Additional Information Relative to Echocardiography for the Determination of Aortic Stenosis Severity. <i>Circulation: Cardiovascular Imaging</i> , 2017 , 10,	3.9	41
239	In vivo human 3D cardiac fibre architecture: reconstruction using curvilinear interpolation of diffusion tensor images. <i>Lecture Notes in Computer Science</i> , 2010 , 13, 418-25	0.9	41

238	High-resolution versus standard-resolution cardiovascular MR myocardial perfusion imaging for the detection of coronary artery disease. <i>Circulation: Cardiovascular Imaging</i> , 2012 , 5, 306-13	3.9	41
237	k-t BLAST reconstruction from non-Cartesian k-t space sampling. <i>Magnetic Resonance in Medicine</i> , 2006 , 55, 85-91	4.4	41
236	Spin echo versus stimulated echo diffusion tensor imaging of the in vivo human heart. <i>Magnetic Resonance in Medicine</i> , 2016 , 76, 862-72	4.4	41
235	A prospective evaluation of cardiovascular magnetic resonance measures of dyssynchrony in the prediction of response to cardiac resynchronization therapy. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2014 , 16, 58	6.9	38
234	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
233	Clinical quantitative cardiac imaging for the assessment of myocardial ischaemia. <i>Nature Reviews Cardiology</i> , 2020 , 17, 427-450	14.8	37
232	Studying Dynamic Myofiber Aggregate Reorientation in Dilated Cardiomyopathy Using In Vivo Magnetic Resonance Diffusion Tensor Imaging. <i>Circulation: Cardiovascular Imaging</i> , 2016 , 9,	3.9	37
231	Quantitative three-dimensional cardiovascular magnetic resonance myocardial perfusion imaging in systole and diastole. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2014 , 16, 19	6.9	37
230	ISMRM Raw data format: A proposed standard for MRI raw datasets. <i>Magnetic Resonance in Medicine</i> , 2017 , 77, 411-421	4.4	36
229	Analysis of temperature dependence of background phase errors in phase-contrast cardiovascular magnetic resonance. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2014 , 16, 97	6.9	36
228	Improved UTE-based attenuation correction for cranial PET-MR using dynamic magnetic field monitoring. <i>Medical Physics</i> , 2014 , 41, 012302	4.4	36
227	MR myocardial perfusion imaging with k-space and time broad-use linear acquisition speed-up technique: feasibility study. <i>Radiology</i> , 2007 , 245, 863-71	20.5	36
226	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
225	Real-time motion correction using gradient tones and head-mounted NMR field probes. <i>Magnetic Resonance in Medicine</i> , 2015 , 74, 647-60	4.4	34
224	Accelerated CMR using zonal, parallel and prior knowledge driven imaging methods. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2008 , 10, 29	6.9	34
223	Reduced data acquisition methods in cardiac imaging. <i>Topics in Magnetic Resonance Imaging</i> , 2004 , 15, 161-8	2.3	34
222	Reconstruction of divergence-free velocity fields from cine 3D phase-contrast flow measurements. <i>Magnetic Resonance in Medicine</i> , 2013 , 69, 200-10	4.4	33
221	Dissolution dynamic nuclear polarization efficiency enhanced by Hartmann-Bahn cross polarization. <i>Chemical Physics Letters</i> , 2012 , 554, 72-76	2.5	33

220	Catheter tracking and visualization using ¹⁹ F nuclear magnetic resonance. <i>Magnetic Resonance in Medicine</i> , 2004 , 52, 693-7	4.4	33
219	Volume tracking cardiac ³¹ P spectroscopy. <i>Magnetic Resonance in Medicine</i> , 2002 , 48, 380-4	4.4	33
218	Left ventricular dyssynchrony in patients with left bundle branch block and patients after myocardial infarction: integration of mechanics and viability by cardiac magnetic resonance. <i>European Heart Journal</i> , 2009 , 30, 2117-27	9.5	32
217	Multipoint 5D flow cardiovascular magnetic resonance - accelerated cardiac- and respiratory-motion resolved mapping of mean and turbulent velocities. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2019 , 21, 42	6.9	31
216	Ischemic burden by 3-dimensional myocardial perfusion cardiovascular magnetic resonance: comparison with myocardial perfusion scintigraphy. <i>Circulation: Cardiovascular Imaging</i> , 2014 , 7, 647-54	3.9	31
215	Advanced cardiovascular magnetic resonance myocardial perfusion imaging: high-spatial resolution versus 3-dimensional whole-heart coverage. <i>Circulation: Cardiovascular Imaging</i> , 2013 , 6, 339-48	3.9	31
214	Clinical feasibility of accelerated, high spatial resolution myocardial perfusion imaging. <i>JACC: Cardiovascular Imaging</i> , 2010 , 3, 710-7	8.4	31
213	Assessment of human brain motion using CSPAMM. <i>Journal of Magnetic Resonance Imaging</i> , 2007 , 25, 709-14	5.6	29
212	Image-based background phase error correction in 4D flow MRI revisited. <i>Journal of Magnetic Resonance Imaging</i> , 2017 , 46, 1516-1525	5.6	28
211	Myocardial Scar Delineation Using Diffusion Tensor Magnetic Resonance Tractography. <i>Journal of the American Heart Association</i> , 2018 , 7,	6	28
210	Assessment of left ventricular volumes and mass with fast 3D cine steady-state free precession k-t space broad-use linear acquisition speed-up technique (k-t BLAST). <i>Journal of Magnetic Resonance Imaging</i> , 2008 , 27, 510-5	5.6	28
209	Accelerated dynamic Fourier velocity encoding by exploiting velocity-spatio-temporal correlations. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2004 , 17, 86-94	2.8	28
208	Blood flow in the human ascending aorta: a combined MRI and CFD study. <i>Journal of Engineering Mathematics</i> , 2003 , 47, 387-404	1.2	28
207	Mapping mean and fluctuating velocities by Bayesian multipoint MR velocity encoding-validation against 3D particle tracking velocimetry. <i>Magnetic Resonance in Medicine</i> , 2014 , 71, 1405-15	4.4	27
206	Hybrid multiband excitation multiecho acquisition for hyperpolarized (¹³ C) spectroscopic imaging. <i>Magnetic Resonance in Medicine</i> , 2015 , 73, 1713-7	4.4	26
205	Hyperpolarized Metabolic MR Imaging of Acute Myocardial Changes and Recovery after Ischemia-Reperfusion in a Small-Animal Model. <i>Radiology</i> , 2016 , 278, 742-51	20.5	25
204	Automatic accurate non-invasive quantitation of blood flow, cross-sectional vessel area, and wall shear stress by modelling of magnetic resonance velocity data. <i>European Journal of Vascular and Endovascular Surgery</i> , 1998 , 16, 517-24	2.3	25
203	Robust MR elastography stiffness quantification using a localized divergence free finite element reconstruction. <i>Medical Image Analysis</i> , 2018 , 44, 126-142	15.4	24

202	Heart motion-adapted MR velocity mapping of blood velocity distribution downstream of aortic valve prostheses: initial experience. <i>Radiology</i> , 2001 , 218, 548-55	20.5	24
201	Simple motion correction strategy reduces respiratory-induced motion artifacts for k-t accelerated and compressed-sensing cardiovascular magnetic resonance perfusion imaging. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2018 , 20, 6	6.9	23
200	A Novel Method for Quantifying Smooth Regional Variations in Myocardial Contractility Within an Infarcted Human Left Ventricle Based on Delay-Enhanced Magnetic Resonance Imaging. <i>Journal of Biomechanical Engineering</i> , 2015 , 137, 081009	2.1	23
199	Characterizing cardiac involvement in amyloidosis using cardiovascular magnetic resonance diffusion tensor imaging. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2019 , 21, 56	6.9	22
198	Low-dose CT and cardiac MR for the diagnosis of coronary artery disease: accuracy of single and combined approaches. <i>International Journal of Cardiovascular Imaging</i> , 2010 , 26, 579-90	2.5	22
197	Determination of peak velocity in stenotic areas: echocardiography versus k-t SENSE accelerated MR Fourier velocity encoding. <i>Radiology</i> , 2008 , 246, 249-57	20.5	22
196	Characterization and correction of eddy-current artifacts in unipolar and bipolar diffusion sequences using magnetic field monitoring. <i>Journal of Magnetic Resonance</i> , 2014 , 244, 74-84	3	21
195	On the accuracy of viscous and turbulent loss quantification in stenotic aortic flow using phase-contrast MRI. <i>Magnetic Resonance in Medicine</i> , 2016 , 76, 191-6	4.4	21
194	Equilibrated warping: Finite element image registration with finite strain equilibrium gap regularization. <i>Medical Image Analysis</i> , 2018 , 50, 1-22	15.4	21
193	Deep variational network for rapid 4D flow MRI reconstruction. <i>Nature Machine Intelligence</i> , 2020 , 2, 228-235	22.5	20
192	Material-Dependent Implant Artifact Reduction Using SEMAC-VAT and MAVRIC: A Prospective MRI Phantom Study. <i>Investigative Radiology</i> , 2017 , 52, 381-387	10.1	19
191	Overestimation of cardiac lactate production caused by liver metabolism of hyperpolarized [1- ¹³ C]pyruvate. <i>Magnetic Resonance in Medicine</i> , 2018 , 80, 1882-1890	4.4	19
190	Cross-polarization for dissolution dynamic nuclear polarization. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 21407-16	3.6	19
189	Visualization and quantification of intestinal transit and motor function by real-time tracking of ¹⁹ F labeled capsules in humans. <i>Magnetic Resonance in Medicine</i> , 2011 , 66, 812-20	4.4	19
188	Myocardial T2* mapping free of distortion using susceptibility-weighted fast spin-echo imaging: a feasibility study at 1.5 T and 3.0 T. <i>Magnetic Resonance in Medicine</i> , 2009 , 62, 822-8	4.4	19
187	2D-spatially-selective real-time magnetic resonance imaging for the assessment of microvascular function and its relation to the cardiovascular risk profile. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2006 , 8, 759-69	6.9	19
186	Shear-scaling-based approach for irreversible energy loss estimation in stenotic aortic flow - An in vitro study. <i>Journal of Biomechanics</i> , 2017 , 56, 89-96	2.9	18
185	Imaging localized neuronal activity at fast time scales through biomechanics. <i>Science Advances</i> , 2019 , 5, eaav3816	14.3	18

184	Bayesian intravoxel incoherent motion parameter mapping in the human heart. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2017 , 19, 85	6.9	18
183	Assessment of ischaemic burden in angiographic three-vessel coronary artery disease with high-resolution myocardial perfusion cardiovascular magnetic resonance imaging. <i>European Heart Journal Cardiovascular Imaging</i> , 2014 , 15, 701-8	4.1	18
182	High-resolution diffusion tensor imaging of the human kidneys using a free-breathing, multi-slice, targeted field of view approach. <i>NMR in Biomedicine</i> , 2014 , 27, 1300-12	4.4	18
181	Coronary artery disease: which degree of coronary artery stenosis is indicative of ischemia?. <i>European Journal of Radiology</i> , 2011 , 80, 120-6	4.7	18
180	Small animal Look-Locker inversion recovery (SALLI) for simultaneous generation of cardiac T1 maps and cine and inversion recovery-prepared images at high heart rates: initial experience. <i>Radiology</i> , 2011 , 261, 258-65	20.5	18
179	Patient-specific simulations and measurements of the magneto-hemodynamic effect in human primary vessels. <i>Physiological Measurement</i> , 2012 , 33, 117-30	2.9	18
178	Calibration of echo-planar 2D-selective RF excitation pulses. <i>Magnetic Resonance in Medicine</i> , 2004 , 52, 1136-45	4.4	18
177	Accelerating 4D flow MRI by exploiting vector field divergence regularization. <i>Magnetic Resonance in Medicine</i> , 2016 , 75, 115-25	4.4	18
176	Combined CFD and MRI study of blood flow in a human ascending aorta model. <i>Biorheology</i> , 2002 , 39, 425-9	1.7	18
175	Direct comparison of in vivo versus postmortem second-order motion-compensated cardiac diffusion tensor imaging. <i>Magnetic Resonance in Medicine</i> , 2018 , 79, 2265-2276	4.4	17
174	Post-mortem cardiac diffusion tensor imaging: detection of myocardial infarction and remodeling of myofiber architecture. <i>European Radiology</i> , 2014 , 24, 2810-8	8	17
173	Whole heart magnetization-prepared steady-state free precession coronary vein MRI. <i>Journal of Magnetic Resonance Imaging</i> , 2009 , 29, 1293-9	5.6	17
172	Low-dose CT coronary angiography for the prediction of myocardial ischaemia. <i>European Radiology</i> , 2010 , 20, 56-64	8	17
171	Free-breathing radial acquisitions of the heart. <i>Magnetic Resonance in Medicine</i> , 2004 , 52, 1127-35	4.4	17
170	Dissolution DNP using trityl radicals at 7 T field. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 19196-19204	3.0	16
169	Accelerating 4D flow MRI by exploiting low-rank matrix structure and hadamard sparsity. <i>Magnetic Resonance in Medicine</i> , 2017 , 78, 1330-1341	4.4	16
168	High spatial resolution myocardial perfusion imaging during high dose dobutamine/atropine stress magnetic resonance using k-t SENSE. <i>International Journal of Cardiology</i> , 2012 , 158, 411-6	3.2	16
167	Effect of improving spatial or temporal resolution on image quality and quantitative perfusion assessment with k-t SENSE acceleration in first-pass CMR myocardial perfusion imaging. <i>Magnetic Resonance in Medicine</i> , 2010 , 64, 1616-24	4.4	16

166	Quantitative assessment of ventricular function using three-dimensional SSFP magnetic resonance angiography. <i>Journal of Magnetic Resonance Imaging</i> , 2007 , 26, 288-95	5.6	16
165	The visualisation and quantification of human gastrointestinal fat distribution with MRI: a randomised study in healthy subjects. <i>British Journal of Nutrition</i> , 2016 , 115, 903-12	3.6	16
164	Compensation of signal loss due to cardiac motion in point-resolved spectroscopy of the heart. <i>Magnetic Resonance in Medicine</i> , 2014 , 72, 1201-7	4.4	15
163	Accelerating hyperpolarized metabolic imaging of the heart by exploiting spatiotemporal correlations. <i>NMR in Biomedicine</i> , 2013 , 26, 1380-6	4.4	15
162	Toward true 3D visualization of active catheters using compressed sensing. <i>Magnetic Resonance in Medicine</i> , 2009 , 62, 341-7	4.4	15
161	Nanometer size silicon particles for hyperpolarized MRI. <i>Scientific Reports</i> , 2017 , 7, 7946	4.9	14
160	Hyperpolarized C urea myocardial first-pass perfusion imaging using velocity-selective excitation. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2017 , 19, 46	6.9	14
159	Iterative k-t principal component analysis with nonrigid motion correction for dynamic three-dimensional cardiac perfusion imaging. <i>Magnetic Resonance in Medicine</i> , 2014 , 72, 68-79	4.4	14
158	Metabolic MR imaging of regional triglyceride and creatine content in the human heart. <i>Magnetic Resonance in Medicine</i> , 2012 , 68, 1696-704	4.4	14
157	Cardiac proton spectroscopy using large coil arrays. <i>NMR in Biomedicine</i> , 2013 , 26, 276-84	4.4	14
156	Performance of simultaneous cardiac-respiratory self-gated three-dimensional MR imaging of the heart: initial experience. <i>Radiology</i> , 2010 , 255, 909-16	20.5	14
155	Three-dimensional alignment of the aggregated myocytes in the normal and hypertrophic murine heart. <i>Journal of Applied Physiology</i> , 2009 , 107, 921-7	3.7	14
154	Accelerated cardiac perfusion imaging using k-t SENSE with SENSE training. <i>Magnetic Resonance in Medicine</i> , 2009 , 62, 955-65	4.4	14
153	Image fusion of coronary CT angiography and cardiac perfusion MRI: a pilot study. <i>European Radiology</i> , 2010 , 20, 1174-9	8	14
152	Measurement of left ventricular dimensions with contrast-enhanced three-dimensional cine imaging facilitated by k-t SENSE. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2008 , 10, 27	6.9	14
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