Sebastian Kozerke

List of Publications by Year
in descending order

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317 papers	12,860 citations	34105 52 h-index	30922 102 g-index
321 all docs	321 docs citations	321 times ranked	9993 citing authors

#	Article	IF	Citations
1	Modified Look-Locker inversion recovery (MOLLI) for high-resolutionT1 mapping of the heart. Magnetic Resonance in Medicine, 2004, 52, 141-146.	3.0	1,485
2	4D flow cardiovascular magnetic resonance consensus statement. Journal of Cardiovascular Magnetic Resonance, 2015, 17, 72.	3.3	642
3	4D flow MRI. Journal of Magnetic Resonance Imaging, 2012, 36, 1015-1036.	3.4	583
4	Accelerating cardiac cine 3D imaging usingk-t BLAST. Magnetic Resonance in Medicine, 2004, 52, 19-26.	3.0	514
5	Compressed sensing in dynamic MRI. Magnetic Resonance in Medicine, 2008, 59, 365-373.	3.0	481
6	Cardiac SSFP imaging at 3 Tesla. Magnetic Resonance in Medicine, 2004, 51, 799-806.	3.0	271
7	kâ€t PCA: Temporally constrained kâ€t BLAST reconstruction using principal component analysis. Magnetic Resonance in Medicine, 2009, 62, 706-716.	3.0	253
8	Cardiac MRI Endpoints in MyocardialÂInfarction Experimental andÂClinicalÂTrials. Journal of the American College of Cardiology, 2019, 74, 238-256.	2.8	235
9	Array compression for MRI with large coil arrays. Magnetic Resonance in Medicine, 2007, 57, 1131-1139.	3.0	202
10	High-Resolution Magnetic Resonance Myocardial Perfusion Imaging at 3.0-Tesla to Detect Hemodynamically Significant Coronary Stenoses as Determined by Fractional Flow Reserve. Journal of the American College of Cardiology, 2011, 57, 70-75.	2.8	183
11	Intracoronary Injection of Bone Marrowâ€"Derived Mononuclear Cells Early or Late After Acute Myocardial Infarction. Circulation, 2013, 127, 1968-1979.	1.6	179
12	MRI temporal acceleration techniques. Journal of Magnetic Resonance Imaging, 2012, 36, 543-560.	3.4	165
13	Dynamic contrastâ€enhanced myocardial perfusion MRI accelerated with kâ€t sense. Magnetic Resonance in Medicine, 2007, 58, 777-785.	3.0	138
14	Heart motion adapted cine phase-contrast flow measurements through the aortic valve. Magnetic Resonance in Medicine, 1999, 42, 970-978.	3.0	128
15	Accelerating cine phase-contrast flow measurements usingk-t BLAST andk-t SENSE. Magnetic Resonance in Medicine, 2005, 54, 1430-1438.	3.0	127
16	Metabolic Imaging of Myocardial Triglyceride Content: Reproducibility of¹H MR Spectroscopy with Respiratory Navigator Gating in Volunteers. Radiology, 2007, 245, 251-257.	7.3	124
17	Distribution of normal human left ventricular myofiber stress at end diastole and end systole: a target for in silico design of heart failure treatments. Journal of Applied Physiology, 2014, 117, 142-152.	2.5	117
18	Optimizing spatiotemporal sampling fork-t BLAST andk-t SENSE: Application to high-resolution real-time cardiac steady-state free precession. Magnetic Resonance in Medicine, 2005, 53, 1372-1382.	3.0	115

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19	Diffusion imaging of the in vivo heart using spin echoesâ€“considerations on bulk motion sensitivity. Magnetic Resonance in Medicine, 2007, 57, 331-337.	3.0	112
20	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. Journal of the American College of Cardiology, 1998, 32, 128-134.	2.8	104
21	Validation of Dynamic 3-Dimensional Whole Heart Magnetic Resonance Myocardial Perfusion Imaging Against Fractional Flow Reserve for the Detection of Significant Coronary Artery Disease. Journal of the American College of Cardiology, 2012, 60, 756-765.	2.8	103
22	In vivo human cardiac fibre architecture estimation using shape-based diffusion tensor processing. Medical Image Analysis, 2013, 17, 1243-1255.	11.6	101
23	Aortic and mitral regurgitation: Quantification using moving slice velocity mapping. Journal of Magnetic Resonance Imaging, 2001, 14, 106-112.	3.4	97
24	High spatial resolution myocardial perfusion cardiac magnetic resonance for the detection of coronary artery disease. European Heart Journal, 2008, 29, 2148-2155.	2.2	96
25	Accelerated wholeâ€heart 3D CSPAMM for myocardial motion quantification. Magnetic Resonance in Medicine, 2008, 59, 755-763.	3.0	95
26	MRXCAT: Realistic numerical phantoms for cardiovascular magnetic resonance. Journal of Cardiovascular Magnetic Resonance, 2014, 16, 63.	3.3	94
27	Clinical quantitative cardiac imaging for the assessment of myocardial ischaemia. Nature Reviews Cardiology, 2020, 17, 427-450.	13.7	94
28	Automatic vessel segmentation using active contours in cine phase contrast flow measurements. Journal of Magnetic Resonance Imaging, 1999, 10, 41-51.	3.4	90
29	Visualization of flow patterns distal to aortic valve prostheses in humans using a fast approach for cine 3D velocity mapping. Journal of Magnetic Resonance Imaging, 2001, 13, 690-698.	3.4	90
30	Secondâ€order motionâ€compensated spin echo diffusion tensor imaging of the human heart. Magnetic Resonance in Medicine, 2016, 75, 1669-1676.	3.0	90
31	k-Space and Time Sensitivity Encodingâ€“accelerated Myocardial Perfusion MR Imaging at 3.0 T: Comparison with 1.5 T. Radiology, 2008, 249, 493-500.	7.3	86
32	Prospective selfâ€gating for simultaneous compensation of cardiac and respiratory motion. Magnetic Resonance in Medicine, 2008, 60, 683-690.	3.0	80
33	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. European Heart Journal, 2012, 33, 2016-2024.	2.2	76
34	Heterogeneous growth-induced prestrain in the heart. Journal of Biomechanics, 2015, 48, 2080-2089.	2.1	75
35	Effect of Bone Marrowâ€“Derived Mononuclear Cell Treatment, Early or Late After Acute Myocardial Infarction. Circulation Research, 2016, 119, 481-490.	4.5	75
36	Dynamic 3-Dimensional Stress Cardiac Magnetic Resonance Perfusion Imaging. Journal of the American College of Cardiology, 2011, 57, 437-444.	2.8	74

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37	Respiratory bellows revisited for motion compensation: Preliminary experience for cardiovascular MR. Magnetic Resonance in Medicine, 2011, 65, 1097-1102.	3.0	73
38	Dual-Phase Cardiac Diffusion Tensor Imaging with Strain Correction. PLoS ONE, 2014, 9, e107159.	2.5	72
39	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. Investigative Radiology, 2009, 44, 539-547.	6.2	68
40	High resolution threeâ€dimensional cardiac perfusion imaging using compartmentâ€based kâ€t principal component analysis. Magnetic Resonance in Medicine, 2011, 65, 575-587.	3.0	68
41	3D cine displacementâ€encoded MRI of pulsatile brain motion. Magnetic Resonance in Medicine, 2009, 61, 153-162.	3.0	67
42	Acute, Subacute, and Chronic Myocardial Infarction: Quantitative Comparison of 2D and 3D Late Gadolinium Enhancement MR Imaging. Radiology, 2011, 259, 704-711.	7.3	65
43	Microstructural Impact of Ischemia and Bone Marrowâ€“Derived Cell Therapy Revealed With Diffusion Tensor Magnetic Resonance Imaging Tractography of the Heart In Vivo. Circulation, 2014, 129, 1731-1741.	1.6	65
44	Quantitation of circumferential subpixel vessel wall position and wall shear stress by multiple sectored three-dimensional paraboloid modeling of velocity encoded cine MR. Magnetic Resonance in Medicine, 1998, 40, 645-655.	3.0	64
45	Sensitivity-encoded coronary MRA at 3T. Magnetic Resonance in Medicine, 2004, 52, 221-227.	3.0	64
46	A multi-sample 94GHz dissolution dynamic-nuclear-polarization system. Journal of Magnetic Resonance, 2012, 214, 166-174.	2.1	63
47	On the influence of training data quality in k-t BLAST reconstruction. Magnetic Resonance in Medicine, 2004, 52, 1175-1183.	3.0	61
48	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. Circulation: Cardiovascular Imaging, 2017, 10, .	2.6	60
49	Bayesian multipoint velocity encoding for concurrent flow and turbulence mapping. Magnetic Resonance in Medicine, 2013, 69, 1337-1345.	3.0	59
50	ISMRM Raw data format: A proposed standard for MRI raw datasets. Magnetic Resonance in Medicine, 2017, 77, 411-421.	3.0	59
51	Multicenter Evaluation of Dynamic Three-Dimensional Magnetic Resonance Myocardial Perfusion Imaging for the Detection of Coronary Artery Disease Defined by Fractional Flow Reserve. Circulation: Cardiovascular Imaging, 2015, 8, .	2.6	58
52	Studying Dynamic Myofiber Aggregate Reorientation in Dilated Cardiomyopathy Using In Vivo Magnetic Resonance Diffusion Tensor Imaging. Circulation: Cardiovascular Imaging, 2016, 9, .	2.6	58
53	Nonrigid retrospective respiratory motion correction in wholeâ€heart coronary MRA. Magnetic Resonance in Medicine, 2011, 66, 1541-1549.	3.0	56
54	Quantitative Analysis of Vortical Blood Flow in the Thoracic Aorta Using 4D Phase Contrast MRI. PLoS ONE, 2015, 10, e0139025.	2.5	56

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55	Three-dimensional magnetic resonance imaging of congenital cardiac anomalies. Cardiology in the Young, 2003, 13, 461-465.	0.8	55
56	First Evidence of Depressed Contractility in the Border Zone of a Human Myocardial Infarction. Annals of Thoracic Surgery, 2012, 93, 1188-1193.	1.3	53
57	Spin echo versus stimulated echo diffusion tensor imaging of the in vivo human heart. Magnetic Resonance in Medicine, 2016, 76, 862-872.	3.0	53
58	Quantitative abdominal aortic flow measurements at controlled levels of ergometer exercise. Magnetic Resonance Imaging, 1999, 17, 489-494.	1.8	52
59	High-Resolution Versus Standard-Resolution Cardiovascular MR Myocardial Perfusion Imaging for the Detection of Coronary Artery Disease. Circulation: Cardiovascular Imaging, 2012, 5, 306-313.	2.6	51
60	Analysis and correction of background velocity offsets in phaseâ€contrast flow measurements using magnetic field monitoring. Magnetic Resonance in Medicine, 2012, 67, 1294-1302.	3.0	51
61	Four-dimensional single breathhold magnetic resonance imaging usingk-t BLAST enables reliable assessment of left- and right-ventricular volumes and mass. Journal of Magnetic Resonance Imaging, 2007, 25, 737-742.	3.4	50
62	T1 mapping in ischaemic heart disease. European Heart Journal Cardiovascular Imaging, 2014, 15, 597-602.	1.2	50
63	Navigator gating and volume tracking for double-triggered cardiac proton spectroscopy at 3 Tesla. Magnetic Resonance in Medicine, 2004, 51, 1091-1095.	3.0	49
64	Firstâ€pass contrastâ€enhanced myocardial perfusion MRI in mice on a 3â€T clinical MR scanner. Magnetic Resonance in Medicine, 2010, 64, 1592-1598.	3.0	48
65	In vivo Human 3D Cardiac Fibre Architecture: Reconstruction Using Curvilinear Interpolation of Diffusion Tensor Images. Lecture Notes in Computer Science, 2010, 13, 418-425.	1.3	48
66	Sparsity transform kâ€t principal component analysis for accelerating cine threeâ€dimensional flow measurements. Magnetic Resonance in Medicine, 2013, 70, 53-63.	3.0	46
67	Analysis of temperature dependence of background phase errors in phase-contrast cardiovascular magnetic resonance. Journal of Cardiovascular Magnetic Resonance, 2014, 16, 97.	3.3	46
68	Towards highly accelerated Cartesian time-resolved 3D flow cardiovascular magnetic resonance in the clinical setting. Journal of Cardiovascular Magnetic Resonance, 2014, 16, 42.	3.3	45
69	Robust MR elastography stiffness quantification using a localized divergence free finite element reconstruction. Medical Image Analysis, 2018, 44, 126-142.	11.6	45
70	k-t BLAST reconstruction from non-Cartesiank-t space sampling. Magnetic Resonance in Medicine, 2006, 55, 85-91.	3.0	44
71	Quantitative three-dimensional cardiovascular magnetic resonance myocardial perfusion imaging in systole and diastole. Journal of Cardiovascular Magnetic Resonance, 2014, 16, 19.	3.3	43
72	Multipoint 5D flow cardiovascular magnetic resonance - accelerated cardiac- and respiratory-motion resolved mapping of mean and turbulent velocities. Journal of Cardiovascular Magnetic Resonance, 2019, 21, 42.	3.3	43

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73	Deep variational network for rapid 4D flow MRI reconstruction. Nature Machine Intelligence, 2020, 2, 228-235.	16.0	43
74	Reconstruction of divergenceâ€free velocity fields from cine 3D phaseâ€contrast flow measurements. Magnetic Resonance in Medicine, 2013, 69, 200-210.	3.0	42
75	Blood flow in the human ascending aorta: a combined MRI and CFD study. Journal of Engineering Mathematics, 2003, 47, 387-404.	1.2	41
76	Advanced Cardiovascular Magnetic Resonance Myocardial Perfusion Imaging. Circulation: Cardiovascular Imaging, 2013, 6, 339-348.	2.6	41
77	A prospective evaluation of cardiovascular magnetic resonance measures of dyssynchrony in the prediction of response to cardiac resynchronization therapy. Journal of Cardiovascular Magnetic Resonance, 2014, 16, 58.	3.3	41
78	Realâ€time motion correction using gradient tones and headâ€mounted <scp>NMR</scp> field probes. Magnetic Resonance in Medicine, 2015, 74, 647-660.	3.0	41
79	Highly undersampled phaseâ€contrast flow measurements using compartmentâ€based kâ€“t principal component analysis. Magnetic Resonance in Medicine, 2013, 69, 434-443.	3.0	40
80	Imageâ€based background phase error correction in 4D flow MRI revisited. Journal of Magnetic Resonance Imaging, 2017, 46, 1516-1525.	3.4	40
81	Improved UTE-based attenuation correction for cranial PET-MR using dynamic magnetic field monitoring. Medical Physics, 2013, 41, 012302.	3.0	39
82	Ischemic Burden by 3-Dimensional Myocardial Perfusion Cardiovascular Magnetic Resonance. Circulation: Cardiovascular Imaging, 2014, 7, 647-654.	2.6	39
83	Myocardial Scar Delineation Using Diffusion Tensor Magnetic Resonance Tractography. Journal of the American Heart Association, 2018, 7, .	3.7	39
84	Volume tracking cardiac31P spectroscopy. Magnetic Resonance in Medicine, 2002, 48, 380-384.	3.0	38
85	MR Myocardial Perfusion Imaging with k-Space and Time Broad-Use Linear Acquisition Speed-up Technique: Feasibility Study. Radiology, 2007, 245, 863-871.	7.3	38
86	Accelerated CMR using zonal, parallel and prior knowledge driven imaging methods. Journal of Cardiovascular Magnetic Resonance, 2008, 10, 29.	3.3	38
87	Characterizing cardiac involvement in amyloidosis using cardiovascular magnetic resonance diffusion tensor imaging. Journal of Cardiovascular Magnetic Resonance, 2019, 21, 56.	3.3	37
88	Reduced Data Acquisition Methods in Cardiac Imaging. Topics in Magnetic Resonance Imaging, 2004, 15, 161-168.	1.2	36
89	Left ventricular dyssynchrony in patients with left bundle branch block and patients after myocardial infarction: integration of mechanics and viability by cardiac magnetic resonance. European Heart Journal, 2009, 30, 2117-2127.	2.2	36
90	Assessment of human brain motion using CSPAMM. Journal of Magnetic Resonance Imaging, 2007, 25, 709-714.	3.4	35

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91	Clinical Feasibility of Accelerated, High Spatial Resolution Myocardial Perfusion Imaging. JACC: Cardiovascular Imaging, 2010, 3, 710-717.	5.3	35
92	Dissolution dynamic nuclear polarization efficiency enhanced by Hartmannâ€“Hahn cross polarization. Chemical Physics Letters, 2012, 554, 72-76.	2.6	34
93	Equilibrated warping: Finite element image registration with finite strain equilibrium gap regularization. Medical Image Analysis, 2018, 50, 1-22.	11.6	34
94	Catheter tracking and visualization using19F nuclear magnetic resonance. Magnetic Resonance in Medicine, 2004, 52, 693-697.	3.0	33
95	Personalising left-ventricular biophysical models of the heart using parametric physics-informed neural networks. Medical Image Analysis, 2021, 71, 102066.	11.6	33
96	Mapping mean and fluctuating velocities by Bayesian multipoint MR velocity encodingâ€validation against 3D particle tracking velocimetry. Magnetic Resonance in Medicine, 2014, 71, 1405-1415.	3.0	32
97	Simple motion correction strategy reduces respiratory-induced motion artifacts for k-t accelerated and compressed-sensing cardiovascular magnetic resonance perfusion imaging. Journal of Cardiovascular Magnetic Resonance, 2018, 20, 6.	3.3	32
98	Imaging localized neuronal activity at fast time scales through biomechanics. Science Advances, 2019, 5, eaav3816.	10.3	32
99	Heart Motion-adapted MR Velocity Mapping of Blood Velocity Distribution Downstream of Aortic Valve Prostheses: Initial Experience. Radiology, 2001, 218, 548-555.	7.3	31
100	Accelerated dynamic Fourier velocity encoding by exploiting velocity-spatio-temporal correlations. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2004, 17, 86-94.	2.0	31
101	Hyperpolarized Metabolic MR Imaging of Acute Myocardial Changes and Recovery after Ischemia-Reperfusion in a Small-Animal Model. Radiology, 2016, 278, 742-751.	7.3	31
102	Hybrid multiband excitation multiecho acquisition for hyperpolarized ¹³ C spectroscopic imaging. Magnetic Resonance in Medicine, 2015, 73, 1713-1717.	3.0	30
103	On the accuracy of viscous and turbulent loss quantification in stenotic aortic flow using phaseâ€contrast MRI. Magnetic Resonance in Medicine, 2016, 76, 191-196.	3.0	30
104	Assessment of left ventricular volumes and mass with fast 3D cine steadyâ€state free precession kâ€t space broadâ€use linear acquisition speedâ€up technique (kâ€t BLAST). Journal of Magnetic Resonance Imaging, 2008, 27, 510-515.	3.4	29
105	A Novel Method for Quantifying Smooth Regional Variations in Myocardial Contractility Within an Infarcted Human Left Ventricle Based on Delay-Enhanced Magnetic Resonance Imaging. Journal of Biomechanical Engineering, 2015, 137, 081009.	1.3	29
106	Automatic accurate non-invasive quantitation of blood flow, cross-sectional vessel area, and wall shear stress by modelling of magnetic resonance velocity data. European Journal of Vascular and Endovascular Surgery, 1998, 16, 517-524.	1.5	27
107	Characterization and correction of eddy-current artifacts in unipolar and bipolar diffusion sequences using magnetic field monitoring. Journal of Magnetic Resonance, 2014, 244, 74-84.	2.1	27
108	Material-Dependent Implant Artifact Reduction Using SEMAC-VAT and MAVRIC. Investigative Radiology, 2017, 52, 381-387.	6.2	27

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109	Low-dose CT and cardiac MR for the diagnosis of coronary artery disease: accuracy of single and combined approaches. International Journal of Cardiovascular Imaging, 2010, 26, 579-590.	1.5	25
110	Cross-polarization for dissolution dynamic nuclear polarization. Physical Chemistry Chemical Physics, 2014, 16, 21407-21416.	2.8	25
111	Post-mortem cardiac diffusion tensor imaging: detection of myocardial infarction and remodeling of myofiber architecture. European Radiology, 2014, 24, 2810-2818.	4.5	25
112	Accelerating 4D flow MRI by exploiting vector field divergence regularization. Magnetic Resonance in Medicine, 2016, 75, 115-125.	3.0	24
113	Overestimation of cardiac lactate production caused by liver metabolism of hyperpolarized [1â€¹³<scp>C</scp>]pyruvate. Magnetic Resonance in Medicine, 2018, 80, 1882-1890.	3.0	24
114	Visualization and quantification of intestinal transit and motor function by realâ€time tracking of ¹⁹F labeled capsules in humans. Magnetic Resonance in Medicine, 2011, 66, 812-820.	3.0	23
115	Dissolution DNP using trityl radicals at 7 T field. Physical Chemistry Chemical Physics, 2017, 19, 19196-19204.	2.8	23
116	Determinants of myocardial function characterized by CMR-derived strain parameters in left ventricular non-compaction cardiomyopathy. Scientific Reports, 2019, 9, 15882.	3.3	23
117	Determination of Peak Velocity in Stenotic Areas: Echocardiography versus k-t SENSE Accelerated MR Fourier Velocity Encoding. Radiology, 2008, 246, 249-257.	7.3	22
118	A biphasic multilayer computational model of human skin. Biomechanics and Modeling in Mechanobiology, 2021, 20, 969-982.	2.8	22
119	Combined CFD and MRI study of blood flow in a human ascending aorta model. Biorheology, 2002, 39, 425-9.	0.4	22
120	Myocardial T mapping free of distortion using susceptibilityâ€weighted fast spinâ€echo imaging: A feasibility study at 1.5 T and 3.0 T. Magnetic Resonance in Medicine, 2009, 62, 822-828.	3.0	21
121	Coronary artery disease: Which degree of coronary artery stenosis is indicative of ischemia?. European Journal of Radiology, 2011, 80, 120-126.	2.6	21
122	Small Animal Look-Locker Inversion Recovery (SALLI) for Simultaneous Generation of Cardiac T1 Maps and Cine and Inversion Recoveryâ€“prepared Images at High Heart Rates: Initial Experience. Radiology, 2011, 261, 258-265.	7.3	21
123	Iterative k-t principal component analysis with nonrigid motion correction for dynamic three-dimensional cardiac perfusion imaging. Magnetic Resonance in Medicine, 2014, 72, 68-79.	3.0	21
124	Highâ€resolution diffusion tensor imaging of the human kidneys using a freeâ€breathing, multiâ€slice, targeted field of view approach. NMR in Biomedicine, 2014, 27, 1300-1312.	2.8	21
125	Shear-scaling-based approach for irreversible energy loss estimation in stenotic aortic flow â€“ An in vitro study. Journal of Biomechanics, 2017, 56, 89-96.	2.1	21
126	Ristretto MRE: A generalized multiâ€shot GREâ€MRE sequence. NMR in Biomedicine, 2019, 32, e4049.	2.8	21

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127	Free-breathing radial acquisitions of the heart. Magnetic Resonance in Medicine, 2004, 52, 1127-1135.	3.0	20
128	2D-Spatially-Selective Real-Time Magnetic Resonance Imaging for the Assessment of Microvascular Function and Its Relation to the Cardiovascular Risk Profile. Journal of Cardiovascular Magnetic Resonance, 2006, 8, 759-769.	3.3	20
129	Whole heart magnetizationâ€prepared steadyâ€state free precession coronary vein MRI. Journal of Magnetic Resonance Imaging, 2009, 29, 1293-1299.	3.4	20
130	Patient-specific simulations and measurements of the magneto-hemodynamic effect in human primary vessels. Physiological Measurement, 2012, 33, 117-130.	2.1	20
131	Assessment of ischaemic burden in angiographic three-vessel coronary artery disease with high-resolution myocardial perfusion cardiovascular magnetic resonance imaging. European Heart Journal Cardiovascular Imaging, 2014, 15, 701-708.	1.2	20
132	Accelerated cardiac MR stress perfusion with radial sampling after physical exercise with an MRâ€compatible supine bicycle ergometer. Magnetic Resonance in Medicine, 2015, 74, 384-395.	3.0	20
133	The visualisation and quantification of human gastrointestinal fat distribution with MRI: a randomised study in healthy subjects. British Journal of Nutrition, 2016, 115, 903-912.	2.3	20
134	Hyperpolarized 13C urea myocardial first-pass perfusion imaging using velocity-selective excitation. Journal of Cardiovascular Magnetic Resonance, 2016, 19, 46.	3.3	20
135	Bayesian intravoxel incoherent motion parameter mapping in the human heart. Journal of Cardiovascular Magnetic Resonance, 2016, 19, 85.	3.3	20
136	Direct comparison of in vivo versus postmortem secondâ€order motionâ€compensated cardiac diffusion tensor imaging. Magnetic Resonance in Medicine, 2018, 79, 2265-2276.	3.0	20
137	Calibration of echo-planar 2D-selective RF excitation pulses. Magnetic Resonance in Medicine, 2004, 52, 1136-1145.	3.0	19
138	A multisample dissolution dynamic nuclear polarization system for serial injections in small animals. Magnetic Resonance in Medicine, 2017, 77, 904-910.	3.0	19
139	Three-dimensional alignment of the aggregated myocytes in the normal and hypertrophic murine heart. Journal of Applied Physiology, 2009, 107, 921-927.	2.5	18
140	Low-dose CT coronary angiography for the prediction of myocardial ischaemia. European Radiology, 2010, 20, 56-64.	4.5	18
141	Nanometer size silicon particles for hyperpolarized MRI. Scientific Reports, 2017, 7, 7946.	3.3	18
142	Analysis and improvement of motion encoding in magnetic resonance elastography. NMR in Biomedicine, 2018, 31, e3908.	2.8	18
143	Cardiovascular magnetic resonance imaging of functional and microstructural changes of the heart in a longitudinal pig model of acute to chronic myocardial infarction. Journal of Cardiovascular Magnetic Resonance, 2021, 23, 103.	3.3	18
144	Direct hyperpolarization of micro- and nanodiamonds for bioimaging applications â€“ Considerations on particle size, functionalization and polarization loss. Journal of Magnetic Resonance, 2018, 286, 42-51.	2.1	18

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145	Quantitative assessment of ventricular function using threeâ€dimensional SSFP magnetic resonance angiography. Journal of Magnetic Resonance Imaging, 2007, 26, 288-295.	3.4	17
146	Measurement of left ventricular dimensions with contrast-enhanced three-dimensional cine imaging facilitated by k-t SENSE. Journal of Cardiovascular Magnetic Resonance, 2008, 10, 27.	3.3	17
147	Effect of improving spatial or temporal resolution on image quality and quantitative perfusion assessment with kâ€t SENSE acceleration in firstâ€pass CMR myocardial perfusion imaging. Magnetic Resonance in Medicine, 2010, 64, 1616-1624.	3.0	17
148	High spatial resolution myocardial perfusion imaging during high dose dobutamine/atropine stress magnetic resonance using kâ€“t SENSE. International Journal of Cardiology, 2012, 158, 411-416.	1.7	17
149	Cardiac proton spectroscopy using large coil arrays. NMR in Biomedicine, 2013, 26, 276-284.	2.8	17
150	Accelerating hyperpolarized metabolic imaging of the heart by exploiting spatiotemporal correlations. NMR in Biomedicine, 2013, 26, 1380-1386.	2.8	17
151	Fiber upâ€sampling and quality assessment of tractograms â€“ towards quantitative brain connectivity. Brain and Behavior, 2017, 7, e00588.	2.2	17
152	Accelerating 4<scp>D</scp> flow <scp>MRI</scp> by exploiting lowâ€rank matrix structure and hadamard sparsity. Magnetic Resonance in Medicine, 2017, 78, 1330-1341.	3.0	17
153	Toward true 3D visualization of active catheters using compressed sensing. Magnetic Resonance in Medicine, 2009, 62, 341-347.	3.0	16
154	Image fusion of coronary CT angiography and cardiac perfusion MRI: a pilot study. European Radiology, 2010, 20, 1174-1179.	4.5	16
155	Metabolic MR imaging of regional triglyceride and creatine content in the human heart. Magnetic Resonance in Medicine, 2012, 68, 1696-1704.	3.0	16
156	Group sparse reconstruction using intensityâ€based clustering. Magnetic Resonance in Medicine, 2013, 69, 1169-1179.	3.0	16
157	Three-dimensional balanced steady state free precession myocardial perfusion cardiovascular magnetic resonance at 3T using dual-source parallel RF transmission: initial experience. Journal of Cardiovascular Magnetic Resonance, 2014, 16, 90.	3.3	16
158	Compensation of signal loss due to cardiac motion in pointâ€resolved spectroscopy of the heart. Magnetic Resonance in Medicine, 2014, 72, 1201-1207.	3.0	16
159	Emulsion Stability Modulates Gastric Secretion and Its Mixing with Emulsified Fat in Healthy Adults in a Randomized Magnetic Resonance Imaging Study. Journal of Nutrition, 2016, 146, 2158-2164.	2.9	16
160	Analysis of spatiotemporal fidelity in quantitative 3D first-pass perfusion cardiovascular magnetic resonance. Journal of Cardiovascular Magnetic Resonance, 2016, 19, 11.	3.3	16
161	On probing intravoxel incoherent motion in the heartâ€spinâ€echo versus stimulatedâ€echo DWI. Magnetic Resonance in Medicine, 2019, 82, 1150-1163.	3.0	16
162	Improved Segmentation and Detection Sensitivity of Diffusion-weighted Stroke Lesions with Synthetically Enhanced Deep Learning. Radiology: Artificial Intelligence, 2020, 2, e190217.	5.8	16

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163	A CMR study of the effects of tissue edema and necrosis on left ventricular dyssynchrony in acute myocardial infarction: implications for cardiac resynchronization therapy. Journal of Cardiovascular Magnetic Resonance, 2012, 14, 47.	3.3	15
164	Quantitative three-dimensional myocardial perfusion cardiovascular magnetic resonance with accurate two-dimensional arterial input function assessment. Journal of Cardiovascular Magnetic Resonance, 2015, 17, 108.	3.3	15
165	Accelerated cardiac perfusion imaging using kâ€t SENSE with SENSE training. Magnetic Resonance in Medicine, 2009, 62, 955-965.	3.0	14
166	Performance of Simultaneous Cardiac-Respiratory Self-gated Three-dimensional MR Imaging of the Heart: Initial Experience. Radiology, 2010, 255, 909-916.	7.3	14
167	Quantitative myocardial first-pass cardiovascular magnetic resonance perfusion imaging using hyperpolarized [1-13C] pyruvate. Journal of Cardiovascular Magnetic Resonance, 2018, 20, 73.	3.3	14
168	Cardiovascular magnetic resonance T2* mapping for structural alterations in hypertrophic cardiomyopathy. European Journal of Radiology Open, 2019, 6, 78-84.	1.6	14
169	Coil setup optimization for 2D-SENSE whole-heart coronary imaging. Magnetic Resonance in Medicine, 2006, 55, 460-464.	3.0	13
170	Feasibility of k-t BLAST For BOLD fMRI With a Spin-Echo Based Acquisition at 3 T and 7 T. Investigative Radiology, 2009, 44, 495-502.	6.2	13
171	Hybrid cardiac magnetic resonance/computed tomographic imaging: first fusion of three-dimensional magnetic resonance perfusion and low-dose coronary computed tomographic angiography. European Heart Journal, 2011, 32, 2625-2625.	2.2	13
172	Hyperemic stress myocardial perfusion cardiovascular magnetic resonance in mice at 3 Tesla: initial experience and validation against microspheres. Journal of Cardiovascular Magnetic Resonance, 2013, 15, 62.	3.3	13
173	Robust myocardial T₂ and T₂* mapping at 3T using imageâ€based shimming. Journal of Magnetic Resonance Imaging, 2015, 41, 1013-1020.	3.4	13
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