

Peter Kellman

List of Publications by Citations

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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.

221 papers	16,716 citations	70 h-index	126 g-index
234 ext. papers	19,988 ext. citations	6 avg, IF	6.65 L-index

#	Paper	IF	Citations
221	Phase-sensitive inversion recovery for detecting myocardial infarction using gadolinium-delayed hyperenhancement. <i>Magnetic Resonance in Medicine</i> , 2002 , 47, 372-83	4.4	853
220	Adaptive sensitivity encoding incorporating temporal filtering (TSENSE). <i>Magnetic Resonance in Medicine</i> , 2001 , 45, 846-52	4.4	710
219	Myocardial T1 mapping and extracellular volume quantification: a Society for Cardiovascular Magnetic Resonance (SCMR) and CMR Working Group of the European Society of Cardiology consensus statement. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2013 , 15, 92	6.9	684
218	Clinical recommendations for cardiovascular magnetic resonance mapping of T1, T2, T2* and extracellular volume: A consensus statement by the Society for Cardiovascular Magnetic Resonance (SCMR) endorsed by the European Association for Cardiovascular Imaging (EACVI). <i>Journal of Cardiovascular Magnetic Resonance</i> , 2017 , 19, 75	6.9	588
217	Dynamic autocalibrated parallel imaging using temporal GRAPPA (TGRAPPA). <i>Magnetic Resonance in Medicine</i> , 2005 , 53, 981-5	4.4	583
216	ACUT2E TSE-SSFP: a hybrid method for T2-weighted imaging of edema in the heart. <i>Magnetic Resonance in Medicine</i> , 2008 , 59, 229-35	4.4	507
215	Motion corrected free-breathing delayed-enhancement imaging of myocardial infarction using nonrigid registration. <i>Journal of Magnetic Resonance Imaging</i> , 2007 , 26, 184-90	5.6	454
214	T1-mapping in the heart: accuracy and precision. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2014 , 16, 2	6.9	415
213	Improved cine displacement-encoded MRI using balanced steady-state free precession and time-adaptive sensitivity encoding parallel imaging at 3 T. <i>NMR in Biomedicine</i> , 2007 , 20, 591-601	4.4	408
212	Extracellular volume imaging by magnetic resonance imaging provides insights into overt and sub-clinical myocardial pathology. <i>European Heart Journal</i> , 2012 , 33, 1268-78	9.5	406
211	Image reconstruction in SNR units: a general method for SNR measurement. <i>Magnetic Resonance in Medicine</i> , 2005 , 54, 1439-47	4.4	359
210	Association between extracellular matrix expansion quantified by cardiovascular magnetic resonance and short-term mortality. <i>Circulation</i> , 2012 , 126, 1206-16	16.7	339
209	Prognostic Value of Late Gadolinium Enhancement Cardiovascular Magnetic Resonance in Cardiac Amyloidosis. <i>Circulation</i> , 2015 , 132, 1570-9	16.7	320
208	MultiContrast Delayed Enhancement (MCODE) improves detection of subendocardial myocardial infarction by late gadolinium enhancement cardiovascular magnetic resonance: a clinical validation study. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2012 , 14, 83	6.9	285
207	Extracellular volume fraction mapping in the myocardium, part 1: evaluation of an automated method. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2012 , 14, 63	6.9	262
206	Gadolinium delayed enhancement cardiovascular magnetic resonance correlates with clinical measures of myocardial infarction. <i>Journal of the American College of Cardiology</i> , 2004 , 43, 2253-9	15.1	258
205	Myocardial edema as detected by pre-contrast T1 and T2 CMR delineates area at risk associated with acute myocardial infarction. <i>JACC: Cardiovascular Imaging</i> , 2012 , 5, 596-603	8.4	227

204	Myocardial extracellular volume fraction quantified by cardiovascular magnetic resonance is increased in diabetes and associated with mortality and incident heart failure admission. <i>European Heart Journal</i> , 2014 , 35, 657-64	9.5	225
203	Accuracy, precision, and reproducibility of four T1 mapping sequences: a head-to-head comparison of MOLLI, ShMOLLI, SASHA, and SAPPHERE. <i>Radiology</i> , 2014 , 272, 683-9	20.5	204
202	Extracellular volume fraction mapping in the myocardium, part 2: initial clinical experience. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2012 , 14, 64	6.9	200
201	Prevalence and prognosis of unrecognized myocardial infarction determined by cardiac magnetic resonance in older adults. <i>JAMA - Journal of the American Medical Association</i> , 2012 , 308, 890-6	27.4	192
200	T2-prepared SSFP improves diagnostic confidence in edema imaging in acute myocardial infarction compared to turbo spin echo. <i>Magnetic Resonance in Medicine</i> , 2007 , 57, 891-7	4.4	186
199	Magnetic Resonance in Transthyretin Cardiac Amyloidosis. <i>Journal of the American College of Cardiology</i> , 2017 , 70, 466-477	15.1	176
198	Myocardial extravascular extracellular volume fraction measurement by gadolinium cardiovascular magnetic resonance in humans: slow infusion versus bolus. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2011 , 13, 16	6.9	170
197	Dynamic changes of edema and late gadolinium enhancement after acute myocardial infarction and their relationship to functional recovery and salvage index. <i>Circulation: Cardiovascular Imaging</i> , 2011 , 4, 228-36	3.9	167
196	Motion correction for myocardial T1 mapping using image registration with synthetic image estimation. <i>Magnetic Resonance in Medicine</i> , 2012 , 67, 1644-55	4.4	158
195	Preliminary investigation of respiratory self-gating for free-breathing segmented cine MRI. <i>Magnetic Resonance in Medicine</i> , 2005 , 53, 159-68	4.4	156
194	Reverse Myocardial Remodeling Following Valve Replacement in Patients With Aortic Stenosis. <i>Journal of the American College of Cardiology</i> , 2018 , 71, 860-871	15.1	152
193	Myocardial T1 and extracellular volume fraction mapping at 3 tesla. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2011 , 13, 75	6.9	131
192	Application of sensitivity-encoded echo-planar imaging for blood oxygen level-dependent functional brain imaging. <i>Magnetic Resonance in Medicine</i> , 2002 , 48, 1011-20	4.4	130
191	Late gadolinium-enhancement cardiac magnetic resonance identifies postinfarction myocardial fibrosis and the border zone at the near cellular level in ex vivo rat heart. <i>Circulation: Cardiovascular Imaging</i> , 2010 , 3, 743-52	3.9	124
190	Reproducibility of native myocardial T1 mapping in the assessment of Fabry disease and its role in early detection of cardiac involvement by cardiovascular magnetic resonance. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2014 , 16, 99	6.9	122
189	Quantitative myocardial infarction on delayed enhancement MRI. Part I: Animal validation of an automated feature analysis and combined thresholding infarct sizing algorithm. <i>Journal of Magnetic Resonance Imaging</i> , 2006 , 23, 298-308	5.6	121
188	Myocardial Fibrosis Quantified by Extracellular Volume Is Associated With Subsequent Hospitalization for Heart Failure, Death, or Both Across the Spectrum of Ejection Fraction and Heart Failure Stage. <i>Journal of the American Heart Association</i> , 2015 , 4,	6	119
187	T1 and extracellular volume mapping in the heart: estimation of error maps and the influence of noise on precision. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2013 , 15, 56	6.9	118

186	Quantitative myocardial perfusion analysis with a dual-bolus contrast-enhanced first-pass MRI technique in humans. <i>Journal of Magnetic Resonance Imaging</i> , 2006 , 23, 315-22	5.6	118
185	Imaging sequences for first pass perfusion --a review. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2007 , 9, 525-37	6.9	115
184	Patterns of myocardial injury in recovered troponin-positive COVID-19 patients assessed by cardiovascular magnetic resonance. <i>European Heart Journal</i> , 2021 , 42, 1866-1878	9.5	112
183	Noncontrast myocardial T1 mapping using cardiovascular magnetic resonance for iron overload. <i>Journal of Magnetic Resonance Imaging</i> , 2015 , 41, 1505-11	5.6	111
182	Assessment of Myocardial Microstructural Dynamics by In Vivo Diffusion Tensor Cardiac Magnetic Resonance. <i>Journal of the American College of Cardiology</i> , 2017 , 69, 661-676	15.1	109
181	Myocardial perfusion cardiovascular magnetic resonance: optimized dual sequence and reconstruction for quantification. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2017 , 19, 43	6.9	108
180	Temporal Relation Between Myocardial Fibrosis and Heart Failure With Preserved Ejection Fraction: Association With Baseline Disease Severity and Subsequent Outcome. <i>JAMA Cardiology</i> , 2017 , 2, 995-1006	16.2	107
179	Chemical shift-based water/fat separation: a comparison of signal models. <i>Magnetic Resonance in Medicine</i> , 2010 , 64, 811-22	4.4	105
178	Cardiac imaging techniques for physicians: late enhancement. <i>Journal of Magnetic Resonance Imaging</i> , 2012 , 36, 529-42	5.6	104
177	A medical device-grade T1 and ECV phantom for global T1 mapping quality assurance-the T Mapping and ECV Standardization in cardiovascular magnetic resonance (T1MES) program. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2016 , 18, 58	6.9	101
176	A quantitative pixel-wise measurement of myocardial blood flow by contrast-enhanced first-pass CMR perfusion imaging: microsphere validation in dogs and feasibility study in humans. <i>JACC: Cardiovascular Imaging</i> , 2012 , 5, 154-66	8.4	101
175	Automatic Measurement of the Myocardial Interstitium: Synthetic Extracellular Volume Quantification Without Hematocrit Sampling. <i>JACC: Cardiovascular Imaging</i> , 2016 , 9, 54-63	8.4	97
174	Magnetic resonance imaging delineates the ischemic area at risk and myocardial salvage in patients with acute myocardial infarction. <i>Circulation: Cardiovascular Imaging</i> , 2010 , 3, 527-35	3.9	97
173	Multiecho dixon fat and water separation method for detecting fibrofatty infiltration in the myocardium. <i>Magnetic Resonance in Medicine</i> , 2009 , 61, 215-21	4.4	96
172	Adiabatic inversion pulses for myocardial T1 mapping. <i>Magnetic Resonance in Medicine</i> , 2014 , 71, 1428-34	4.4	93
171	Assessment of regional systolic and diastolic dysfunction in familial hypertrophic cardiomyopathy using MR tagging. <i>Magnetic Resonance in Medicine</i> , 2003 , 50, 638-42	4.4	92
170	Motion-corrected free-breathing delayed enhancement imaging of myocardial infarction. <i>Magnetic Resonance in Medicine</i> , 2005 , 53, 194-200	4.4	90
169	Native T1 and Extracellular Volume in Transthyretin Amyloidosis. <i>JACC: Cardiovascular Imaging</i> , 2019 , 12, 810-819	8.4	89

168	Temporal dynamics of the BOLD fMRI impulse response. <i>NeuroImage</i> , 2005 , 24, 667-77	7.9	87
167	High spatial and temporal resolution cardiac cine MRI from retrospective reconstruction of data acquired in real time using motion correction and resorting. <i>Magnetic Resonance in Medicine</i> , 2009 , 62, 1557-64	4.4	80
166	Modular 32-channel transceiver coil array for cardiac MRI at 7.0T. <i>Magnetic Resonance in Medicine</i> , 2014 , 72, 276-90	4.4	79
165	Cardiac involvement of myotonic dystrophy type II in patients with preserved ejection fraction - Detection by CMR. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2015 , 17,	6.9	78
164	Cardiac involvement of the systemic disorder myotonic dystrophy type II - detection by CMR. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2014 , 16,	6.9	78
163	Variability of perfusion dark rim artifacts due to Gibbs ringing. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2009 , 11,	6.9	78
162	Real-time accelerated interactive MRI with adaptive TSENSE and UNFOLD. <i>Magnetic Resonance in Medicine</i> , 2003 , 50, 315-21	4.4	77
161	Diagnostic accuracy of stress perfusion CMR in comparison with quantitative coronary angiography: fully quantitative, semiquantitative, and qualitative assessment. <i>JACC: Cardiovascular Imaging</i> , 2014 , 7, 14-22	8.4	76
160	Myocardial Edema and Prognosis in Amyloidosis. <i>Journal of the American College of Cardiology</i> , 2018 , 71, 2919-2931	15.1	75
159	COVID-19: Myocardial Injury in Survivors. <i>Circulation</i> , 2020 , 142, 1120-1122	16.7	75
158	Residual Myocardial Iron Following Intramyocardial Hemorrhage During the Convalescent Phase of Reperfused ST-Segment-Elevation Myocardial Infarction and Adverse Left Ventricular Remodeling. <i>Circulation: Cardiovascular Imaging</i> , 2016 , 9,	3.9	74
157	Opportunities in Interventional and Diagnostic Imaging by Using High-Performance Low-Field-Strength MRI. <i>Radiology</i> , 2019 , 293, 384-393	20.5	72
156	Influence of Off-resonance in myocardial T1-mapping using SSFP based MOLLI method. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2013 , 15, 63	6.9	72
155	Phase-sensitive inversion recovery for myocardial T1 mapping with motion correction and parametric fitting. <i>Magnetic Resonance in Medicine</i> , 2013 , 69, 1408-20	4.4	71
154	Retrospective reconstruction of high temporal resolution cine images from real-time MRI using iterative motion correction. <i>Magnetic Resonance in Medicine</i> , 2012 , 68, 741-50	4.4	71
153	Real-time MRI-guided right heart catheterization in adults using passive catheters. <i>European Heart Journal</i> , 2013 , 34, 380-9	9.5	71
152	Two-dimensional sixteen channel transmit/receive coil array for cardiac MRI at 7.0 T: design, evaluation, and application. <i>Journal of Magnetic Resonance Imaging</i> , 2012 , 36, 847-57	5.6	67
151	Quantitative myocardial infarction on delayed enhancement MRI. Part II: Clinical application of an automated feature analysis and combined thresholding infarct sizing algorithm. <i>Journal of Magnetic Resonance Imaging</i> , 2006 , 23, 309-14	5.6	67

150	Automated Pixel-Wise Quantitative Myocardial Perfusion Mapping by CMRI to Detect Obstructive Coronary Artery Disease and Coronary Microvascular Dysfunction: Validation Against Invasive Coronary Physiology. <i>JACC: Cardiovascular Imaging</i> , 2019 , 12, 1958-1969	8.4	66
149	Fully quantitative cardiovascular magnetic resonance myocardial perfusion ready for clinical use: a comparison between cardiovascular magnetic resonance imaging and positron emission tomography. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2017 , 19, 78	6.9	65
148	High spatial and temporal resolution retrospective cine cardiovascular magnetic resonance from shortened free breathing real-time acquisitions. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2013 , 15, 102	6.9	65
147	Detection and Monitoring of Acute Myocarditis Applying Quantitative Cardiovascular Magnetic Resonance. <i>Circulation: Cardiovascular Imaging</i> , 2017 , 10,	3.9	64
146	Hunting for neuronal currents: absence of rapid MRI signal changes during visual-evoked response. <i>NeuroImage</i> , 2004 , 23, 1059-67	7.9	64
145	Noncontrast Magnetic Resonance for the Diagnosis of Cardiac Amyloidosis. <i>JACC: Cardiovascular Imaging</i> , 2020 , 13, 69-80	8.4	63
144	Comparison of three multichannel transmit/receive radiofrequency coil configurations for anatomic and functional cardiac MRI at 7.0T: implications for clinical imaging. <i>European Radiology</i> , 2012 , 22, 2211-20	8	61
143	Virtual coil concept for improved parallel MRI employing conjugate symmetric signals. <i>Magnetic Resonance in Medicine</i> , 2009 , 61, 93-102	4.4	60
142	Fully automatic, retrospective enhancement of real-time acquired cardiac cine MR images using image-based navigators and respiratory motion-corrected averaging. <i>Magnetic Resonance in Medicine</i> , 2008 , 59, 771-8	4.4	59
141	Characterization of myocardial T1-mapping bias caused by intramyocardial fat in inversion recovery and saturation recovery techniques. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2015 , 17, 33	6.9	58
140	Myocardial Fat Imaging. <i>Current Cardiovascular Imaging Reports</i> , 2010 , 3, 83-91	0.7	58
139	Nonlinear myocardial signal intensity correction improves quantification of contrast-enhanced first-pass MR perfusion in humans. <i>Journal of Magnetic Resonance Imaging</i> , 2008 , 27, 793-801	5.6	55
138	The Prognostic Significance of Quantitative Myocardial Perfusion: An Artificial Intelligence-Based Approach Using Perfusion Mapping. <i>Circulation</i> , 2020 , 141, 1282-1291	16.7	51
137	Bright-blood T(2)-weighted MRI has high diagnostic accuracy for myocardial hemorrhage in myocardial infarction: a preclinical validation study in swine. <i>Circulation: Cardiovascular Imaging</i> , 2011 , 4, 738-45	3.9	49
136	Semiautomated segmentation of myocardial contours for fast strain analysis in cine displacement-encoded MRI. <i>IEEE Transactions on Medical Imaging</i> , 2008 , 27, 1084-94	11.7	49
135	Dark blood late enhancement imaging. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2016 , 18, 77	6.9	48
134	Free-breathing, motion-corrected late gadolinium enhancement is robust and extends risk stratification to vulnerable patients. <i>Circulation: Cardiovascular Imaging</i> , 2013 , 6, 423-32	3.9	47
133	Automatic motion compensation of free breathing acquired myocardial perfusion data by using independent component analysis. <i>Medical Image Analysis</i> , 2012 , 16, 1015-28	15.4	41

132	Multi-contrast delayed enhancement provides improved contrast between myocardial infarction and blood pool. <i>Journal of Magnetic Resonance Imaging</i> , 2005 , 22, 605-13	5.6	41
131	Contrast-free detection of myocardial fibrosis in hypertrophic cardiomyopathy patients with diffusion-weighted cardiovascular magnetic resonance. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2015 , 17, 107	6.9	40
130	Myocardial native T1 and extracellular volume with healthy ageing and gender. <i>European Heart Journal Cardiovascular Imaging</i> , 2018 , 19, 615-621	4.1	39
129	Low b-value diffusion-weighted cardiac magnetic resonance imaging: initial results in humans using an optimal time-window imaging approach. <i>Investigative Radiology</i> , 2011 , 46, 751-8	10.1	39
128	Distributed MRI reconstruction using Gadgetron-based cloud computing. <i>Magnetic Resonance in Medicine</i> , 2015 , 73, 1015-25	4.4	38
127	Design, evaluation and application of an eight channel transmit/receive coil array for cardiac MRI at 7.0 T. <i>European Journal of Radiology</i> , 2013 , 82, 752-9	4.7	38
126	Native T1 values identify myocardial changes and stratify disease severity in patients with Duchenne muscular dystrophy. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2016 , 18, 72	6.9	38
125	Multishot EPI-SSFP in the heart. <i>Magnetic Resonance in Medicine</i> , 2002 , 47, 655-64	4.4	37
124	Optimized saturation recovery protocols for T1-mapping in the heart: influence of sampling strategies on precision. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2014 , 16, 55	6.9	35
123	Extracellular Volume Associates With Outcomes More Strongly Than Native or Post-Contrast Myocardial T1. <i>JACC: Cardiovascular Imaging</i> , 2020 , 13, 44-54	8.4	35
122	Ghost artifact cancellation using phased array processing. <i>Magnetic Resonance in Medicine</i> , 2001 , 46, 335-43	4.4	34
121	Prospective Case-Control Study of Cardiovascular Abnormalities 6 Months Following Mild COVID-19 in Healthcare Workers. <i>JACC: Cardiovascular Imaging</i> , 2021 , 14, 2155-2166	8.4	34
120	Reduction in CMR Derived Extracellular Volume With Patisiran Indicates Cardiac Amyloid Regression. <i>JACC: Cardiovascular Imaging</i> , 2021 , 14, 189-199	8.4	34
119	Myocardial damage detected by late gadolinium enhancement cardiovascular magnetic resonance is associated with subsequent hospitalization for heart failure. <i>Journal of the American Heart Association</i> , 2013 , 2, e000416	6	33
118	Myocardial T2* mapping: influence of noise on accuracy and precision. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2015 , 17, 7	6.9	32
117	Automated Extracellular Volume Fraction Mapping Provides Insights Into the Pathophysiology of Left Ventricular Remodeling Post-Reperfused ST-Elevation Myocardial Infarction. <i>Journal of the American Heart Association</i> , 2016 , 5,	6	32
116	Fully automated, inline quantification of myocardial blood flow with cardiovascular magnetic resonance: repeatability of measurements in healthy subjects. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2018 , 20, 48	6.9	32
115	Quantification of both the area-at-risk and acute myocardial infarct size in ST-segment elevation myocardial infarction using T1-mapping. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2017 , 19, 57	6.9	31

114	Distinction of salvaged and infarcted myocardium within the ischaemic area-at-risk with T2 mapping. <i>European Heart Journal Cardiovascular Imaging</i> , 2014 , 15, 1048-53	4.1	31
113	Real-time, Interactive MRI for cardiovascular interventions. <i>Academic Radiology</i> , 2005 , 12, 1121-7	4.3	31
112	Integration of cardiac and respiratory motion into MRI roadmaps fused with x-ray. <i>Medical Physics</i> , 2013 , 40, 032302	4.4	30
111	Unsupervised inline analysis of cardiac perfusion MRI. <i>Lecture Notes in Computer Science</i> , 2009 , 12, 741-90.9	4.9	29
110	MIA - A free and open source software for gray scale medical image analysis. <i>Source Code for Biology and Medicine</i> , 2013 , 8, 20	1.9	28
109	CMR fluoroscopy right heart catheterization for cardiac output and pulmonary vascular resistance: results in 102 patients. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2017 , 19, 54	6.9	27
108	Cardiac Involvement in Myotonic Dystrophy Type 2 Patients With Preserved Ejection Fraction: Detection by Cardiovascular Magnetic Resonance. <i>Circulation: Cardiovascular Imaging</i> , 2016 , 9,	3.9	26
107	Effectiveness of late gadolinium enhancement to improve outcomes prediction in patients referred for cardiovascular magnetic resonance after echocardiography. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2013 , 15, 6	6.9	26
106	Image reconstruction: an overview for clinicians. <i>Journal of Magnetic Resonance Imaging</i> , 2015 , 41, 573-85.6	5.6	25
105	Phased array ghost elimination. <i>NMR in Biomedicine</i> , 2006 , 19, 352-61	4.4	25
104	Simultaneous multislice imaging for native myocardial T mapping: Improved spatial coverage in a single breath-hold. <i>Magnetic Resonance in Medicine</i> , 2017 , 78, 462-471	4.4	24
103	Mechanisms for overestimating acute myocardial infarct size with gadolinium-enhanced cardiovascular magnetic resonance imaging in humans: a quantitative and kinetic study. <i>European Heart Journal Cardiovascular Imaging</i> , 2016 , 17, 76-84	4.1	24
102	Method for functional MRI mapping of nonlinear response. <i>NeuroImage</i> , 2003 , 19, 190-9	7.9	24
101	Saturation pulse design for quantitative myocardial T1 mapping. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2015 , 17, 84	6.9	23
100	Variability of myocardial perfusion dark rim Gibbs artifacts due to sub-pixel shifts. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2009 , 11, 17	6.9	23
99	Exploiting quasiperiodicity in motion correction of free-breathing myocardial perfusion MRI. <i>IEEE Transactions on Medical Imaging</i> , 2010 , 29, 1516-27	11.7	23
98	T2* measurement during first-pass contrast-enhanced cardiac perfusion imaging. <i>Magnetic Resonance in Medicine</i> , 2006 , 56, 1132-4	4.4	23
97	High Spatial Resolution Cardiovascular Magnetic Resonance at 7.0 Tesla in Patients with Hypertrophic Cardiomyopathy - First Experiences: Lesson Learned from 7.0 Tesla. <i>PLoS ONE</i> , 2016 , 11, e0148066	3.7	23

96	Free-breathing T2* mapping using respiratory motion corrected averaging. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2015 , 17, 3	6.9	22
95	Direct comparison of myocardial perfusion cardiovascular magnetic resonance sequences with parallel acquisition. <i>Journal of Magnetic Resonance Imaging</i> , 2007 , 26, 1444-51	5.6	22
94	Prospective comparison of novel dark blood late gadolinium enhancement with conventional bright blood imaging for the detection of scar. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2017 , 19, 91	6.9	21
93	Improved workflow for quantification of left ventricular volumes and mass using free-breathing motion corrected cine imaging. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2016 , 18, 10	6.9	21
92	Real-time blood flow imaging using autocalibrated spiral sensitivity encoding. <i>Magnetic Resonance in Medicine</i> , 2005 , 54, 1557-61	4.4	20
91	Clinical impact of cardiovascular magnetic resonance with optimized myocardial scar detection in patients with cardiac implantable devices. <i>International Journal of Cardiology</i> , 2019 , 279, 72-78	3.2	20
90	Infiltrated atrial fat characterizes underlying atrial fibrillation substrate in patients at risk as defined by the ARIC atrial fibrillation risk score. <i>International Journal of Cardiology</i> , 2014 , 172, 196-201	3.2	19
89	Automatic in-line quantitative myocardial perfusion mapping: Processing algorithm and implementation. <i>Magnetic Resonance in Medicine</i> , 2020 , 83, 712-730	4.4	19
88	Assessing for Cardiotoxicity from Metal-on-Metal Hip Implants with Advanced Multimodality Imaging Techniques. <i>Journal of Bone and Joint Surgery - Series A</i> , 2017 , 99, 1827-1835	5.6	18
87	Artifact suppression in imaging of myocardial infarction using B1-weighted phased-array combined phase-sensitive inversion recovery. <i>Magnetic Resonance in Medicine</i> , 2004 , 51, 408-12	4.4	18
86	Free-breathing motion-corrected late-gadolinium-enhancement imaging improves image quality in children. <i>Pediatric Radiology</i> , 2016 , 46, 983-90	2.8	17
85	Quantitative Myocardial Perfusion in Fabry Disease. <i>Circulation: Cardiovascular Imaging</i> , 2019 , 12, e008832	3.2	16
84	Increased myocardial extracellular volume in active idiopathic systemic capillary leak syndrome. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2015 , 17, 76	6.9	16
83	Characterization of T bias in skeletal muscle from fat in MOLLI and SASHA pulse sequences: Quantitative fat-fraction imaging with T mapping. <i>Magnetic Resonance in Medicine</i> , 2017 , 77, 237-249	4.4	15
82	Myocardial extracellular volume fraction quantified by cardiovascular magnetic resonance is increased in hypertension and associated with left ventricular remodeling. <i>European Radiology</i> , 2017 , 27, 4620-4630	8	15
81	Quantitative myocardial perfusion in coronary artery disease: A perfusion mapping study. <i>Journal of Magnetic Resonance Imaging</i> , 2019 , 50, 756-762	5.6	15
80	Acute changes in cardiac structural and tissue characterisation parameters following haemodialysis measured using cardiovascular magnetic resonance. <i>Scientific Reports</i> , 2019 , 9, 1388	4.9	15
79	Females have higher myocardial perfusion, blood volume and extracellular volume compared to males - an adenosine stress cardiovascular magnetic resonance study. <i>Scientific Reports</i> , 2020 , 10, 10380	4.9	15

78	Blood correction reduces variability and gender differences in native myocardial T1 values at 1.5T cardiovascular magnetic resonance - a derivation/validation approach. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2017 , 19, 41	6.9	15
77	Low-latency temporal filter design for real-time MRI using UNFOLD. <i>Magnetic Resonance in Medicine</i> , 2000 , 44, 933-9	4.4	15
76	Extracellular Volume and Global Longitudinal Strain Both Associate With Outcomes But Correlate Minimally. <i>JACC: Cardiovascular Imaging</i> , 2020 , 13, 2343-2354	8.4	14
75	Ultrafast Magnetic Resonance Imaging for Iron Quantification in Thalassemia Participants in the Developing World: The TIC-TOC Study (Thailand and UK International Collaboration in Thalassemia Optimising Ultrafast CMR). <i>Circulation</i> , 2016 , 134, 432-4	16.7	14
74	Temporal filtering effects in dynamic parallel MRI. <i>Magnetic Resonance in Medicine</i> , 2011 , 66, 192-8	4.4	13
73	The Chief Scientist Office Cardiovascular and Pulmonary Imaging in SARS Coronavirus disease-19 (CISCO-19) study. <i>Cardiovascular Research</i> , 2020 , 116, 2185-2196	9.9	13
72	Quantification of Left Ventricular Function With Premature Ventricular Complexes Reveals Variable Hemodynamics. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2016 , 9, e003520	6.4	12
71	Automated Inline Analysis of Myocardial Perfusion MRI with Deep Learning. <i>Radiology: Artificial Intelligence</i> , 2020 , 2, e200009	8.7	11
70	Automated detection of left ventricle in arterial input function images for inline perfusion mapping using deep learning: A study of 15,000 patients. <i>Magnetic Resonance in Medicine</i> , 2020 , 84, 2788-2800	4.4	11
69	Inline perfusion mapping provides insights into the disease mechanism in hypertrophic cardiomyopathy. <i>Heart</i> , 2020 , 106, 824-829	5.1	11
68	The relative contributions of myocardial perfusion, blood volume and extracellular volume to native T1 and native T2 at rest and during adenosine stress in normal physiology. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2019 , 21, 73	6.9	11
67	Acute Cardiac MRI Assessment of Radiofrequency Ablation Lesions for Pediatric Ventricular Arrhythmia: Feasibility and Clinical Correlation. <i>Journal of Cardiovascular Electrophysiology</i> , 2017 , 28, 517-522	2.7	10
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