

Peter Kellman

List of Publications by Year in Descending Order

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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	Automated In-Line Artificial Intelligence Measured Global Longitudinal Shortening and Mitral Annular Plane Systolic Excursion: Reproducibility and Prognostic Significance.. <i>Journal of the American Heart Association</i> , 2022 , 11, e023849	6	0
220	Diffusely Increased Myocardial Extracellular Volume With or Without Focal Late Gadolinium Enhancement: Prevalence and Associations With Left Ventricular Size and Function. <i>Journal of Thoracic Imaging</i> , 2022 , 37, 17-25	5.6	1
219	Quantitative Myocardial Perfusion Predicts Outcomes in Patients With Prior Surgical Revascularization.. <i>Journal of the American College of Cardiology</i> , 2022 , 79, 1141-1151	15.1	1
218	Study protocol: MyoFit46-the cardiac sub-study of the MRC National Survey of Health and Development.. <i>BMC Cardiovascular Disorders</i> , 2022 , 22, 140	2.3	0
217	Effective Study: Development and Application of a Question-Driven, Time-Effective Cardiac Magnetic Resonance Scanning Protocol.. <i>Journal of the American Heart Association</i> , 2021 , e022605	6	0
216	Bright-blood and dark-blood phase sensitive inversion recovery late gadolinium enhancement and T1 and T2 maps in a single free-breathing scan: an all-in-one approach. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2021 , 23, 126	6.9	0
215	Progressive myocardial injury in myotonic dystrophy type II and facioscapulohumeral muscular dystrophy 1: a cardiovascular magnetic resonance follow-up study. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2021 , 23, 130	6.9	0
214	Empagliflozin Treatment Is Associated With Improvements in Cardiac Energetics and Function and Reductions in Myocardial Cellular Volume in Patients With Type 2 Diabetes. <i>Diabetes</i> , 2021 , 70, 2810-2822	22.9	3
213	A comparison of standard and high dose adenosine protocols in routine vasodilator stress cardiovascular magnetic resonance: dosage affects hyperaemic myocardial blood flow in patients with severe left ventricular systolic impairment. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2021 , 23, 27	6.9	2
212	Free-breathing simultaneous , , and quantification in the myocardium. <i>Magnetic Resonance in Medicine</i> , 2021 , 86, 1226-1240	4.4	2
211	Cardiac Magnetic Resonance-Derived Extracellular Volume Mapping for the Quantification of Hepatic and Splenic Amyloid. <i>Circulation: Cardiovascular Imaging</i> , 2021 , CIRCIMAGING121012506	3.9	7
210	Prognostic Value of Pulmonary Transit Time and Pulmonary Blood Volume Estimation Using Myocardial Perfusion CMR. <i>JACC: Cardiovascular Imaging</i> , 2021 , 14, 2107-2119	8.4	1
209	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
208	Use of quantitative cardiovascular magnetic resonance myocardial perfusion mapping for characterization of ischemia in patients with left internal mammary coronary artery bypass grafts. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2021 , 23, 82	6.9	3
207	Reduction in CMR Derived Extracellular Volume With Patisiran Indicates Cardiac Amyloid Regression. <i>JACC: Cardiovascular Imaging</i> , 2021 , 14, 189-199	8.4	34
206	Quantitative cardiovascular magnetic resonance myocardial perfusion mapping to assess hyperaemic response to adenosine stress. <i>European Heart Journal Cardiovascular Imaging</i> , 2021 , 22, 273-281	4.1	3
205	Measurement of T1 Mapping in Patients With Cardiac Devices: Off-Resonance Error Extends Beyond Visual Artifact but Can Be Quantified and Corrected. <i>Frontiers in Cardiovascular Medicine</i> , 2021 , 8, 631366	5.4	1

204	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
203	Hypertrophic cardiomyopathy: insights from extracellular volume mapping. <i>European Journal of Preventive Cardiology</i> , 2021 ,	3.9	2
202	Myocardial Perfusion Defects in Hypertrophic Cardiomyopathy Mutation Carriers. <i>Journal of the American Heart Association</i> , 2021 , 10, e020227	6	2
201	Landmark Detection in Cardiac MRI by Using a Convolutional Neural Network. <i>Radiology: Artificial Intelligence</i> , 2021 , 3, e200197	8.7	4
200	Clinical associations with stage B heart failure in adults with type 2 diabetes. <i>Therapeutic Advances in Endocrinology and Metabolism</i> , 2021 , 12, 20420188211030144	4.5	0
199	Myocardial Perfusion Imaging After Severe COVID-19 Infection Demonstrates Regional Ischemia Rather Than Global Blood Flow Reduction.. <i>Frontiers in Cardiovascular Medicine</i> , 2021 , 8, 764599	5.4	1
198	Automated Inline Analysis of Myocardial Perfusion MRI with Deep Learning. <i>Radiology: Artificial Intelligence</i> , 2020 , 2, e200009	8.7	11
197	A comparison of cine CMR imaging at 0.55 T and 1.5 T. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2020 , 22, 37	6.9	6
196	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
195	T mapping performance and measurement repeatability: results from the multi-national T mapping standardization phantom program (T1MES). <i>Journal of Cardiovascular Magnetic Resonance</i> , 2020 , 22, 31	6.9	10
194	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
193	Inline perfusion mapping provides insights into the disease mechanism in hypertrophic cardiomyopathy. <i>Heart</i> , 2020 , 106, 824-829	5.1	11
192	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
191	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
190	Assessment of Multivessel Coronary Artery Disease Using Cardiovascular Magnetic Resonance Pixelwise Quantitative Perfusion Mapping. <i>JACC: Cardiovascular Imaging</i> , 2020 , 13, 2546-2557	8.4	7
189	COVID-19: Myocardial Injury in Survivors. <i>Circulation</i> , 2020 , 142, 1120-1122	16.7	75
188	Cardiovascular Determinants of Aerobic Exercise Capacity in Adults With Type 2 Diabetes. <i>Diabetes Care</i> , 2020 , 43, 2248-2256	14.6	8
187	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

186	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
185	Automatic in-line quantitative myocardial perfusion mapping: Processing algorithm and implementation. <i>Magnetic Resonance in Medicine</i> , 2020 , 83, 712-730	4.4	19
184	Noncontrast Magnetic Resonance for the Diagnosis of Cardiac Amyloidosis. <i>JACC: Cardiovascular Imaging</i> , 2020 , 13, 69-80	8.4	63
183	Opportunities in Interventional and Diagnostic Imaging by Using High-Performance Low-Field-Strength MRI. <i>Radiology</i> , 2019 , 293, 384-393	20.5	72
182	The Effect of Blood Composition on T1 Mapping. <i>JACC: Cardiovascular Imaging</i> , 2019 , 12, 1888-1890	8.4	2
181	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
180	Interrogation of the infarcted and salvaged myocardium using multi-parametric mapping cardiovascular magnetic resonance in reperfused ST-segment elevation myocardial infarction patients. <i>Scientific Reports</i> , 2019 , 9, 9056	4.9	1
179	Detection of myocarditis using T and ECV mapping is not improved by early compared to late post-contrast imaging. <i>Clinical Physiology and Functional Imaging</i> , 2019 , 39, 384-392	2.4	1
178	Motion-corrected free-breathing LGE delivers high quality imaging and reduces scan time by half: an independent validation study. <i>International Journal of Cardiovascular Imaging</i> , 2019 , 35, 1893-1901	2.5	9
177	Subclinical myocardial injury in patients with Facioscapulohumeral muscular dystrophy 1 and preserved ejection fraction - assessment by cardiovascular magnetic resonance. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2019 , 21, 25	6.9	7
176	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
175	Improved Workflow for Quantification of Right Ventricular Volumes Using Free-Breathing Motion Corrected Cine Imaging. <i>Pediatric Cardiology</i> , 2019 , 40, 79-88	2.1	5
174	Quantitative Myocardial Perfusion in Fabry Disease. <i>Circulation: Cardiovascular Imaging</i> , 2019 , 12, e008832	7.2	16
173	Simultaneous N-Ammonia and gadolinium first-pass myocardial perfusion with quantitative hybrid PET-MR imaging: a phantom and clinical feasibility study. <i>European Journal of Hybrid Imaging</i> , 2019 , 3, 15	1.7	6
172	Techniques for T1, T2, and Extracellular Volume Mapping 2019 , 15-26.e2		
171	Automated Pixel-Wise Quantitative Myocardial Perfusion Mapping by CMR 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
170	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
169	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

168	A framework for constraining image SNR loss due to MR raw data compression. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2019 , 32, 213-225	2.8	0
167	Validation of cardiac magnetic-resonance-derived left ventricular strain measurements from free-breathing motion-corrected cine imaging. <i>Pediatric Radiology</i> , 2019 , 49, 68-75	2.8	0
166	Native T1 and Extracellular Volume in Transthyretin Amyloidosis. <i>JACC: Cardiovascular Imaging</i> , 2019 , 12, 810-819	8.4	89
165	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
164	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
163	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
162	Detection of Recent Myocardial Infarction Using Native T1 Mapping in a Swine Model: A Validation Study. <i>Scientific Reports</i> , 2018 , 8, 7391	4.9	9
161	Myocardial Edema and Prognosis in Amyloidosis. <i>Journal of the American College of Cardiology</i> , 2018 , 71, 2919-2931	15.1	75
160	Blood volume measurement using cardiovascular magnetic resonance and ferumoxytol: preclinical validation. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2018 , 20, 62	6.9	7
159	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
158	Detection and Monitoring of Acute Myocarditis Applying Quantitative Cardiovascular Magnetic Resonance. <i>Circulation: Cardiovascular Imaging</i> , 2017 , 10,	3.9	64
157	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
156	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
155	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
154	Late Anthracycline-Related Cardiotoxicity in Low-Risk Breast Cancer Patients. <i>Journal of the American College of Cardiology</i> , 2017 , 69, 2573-2575	15.1	7
153	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
152	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
151	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

150	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
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	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
147	Magnetic Resonance in Transthyretin Cardiac Amyloidosis. <i>Journal of the American College of Cardiology</i> , 2017 , 70, 466-477	15.1	176
146	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
145	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
144	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
143	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
142	Diffuse myocardial fibrosis among healthy pediatric heart transplant recipients: Correlation of histology, cardiovascular magnetic resonance, and clinical phenotype. <i>Pediatric Transplantation</i> , 2017 , 21, e12986	1.8	6
141	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
140	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
139	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
138	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
137	Dark blood Late Gadolinium Enhancement improves conspicuity of ablation lesions. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2016 , 18,	6.9	6
136	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
135	Free-breathing motion-corrected late-gadolinium-enhancement imaging improves image quality in children. <i>Pediatric Radiology</i> , 2016 , 46, 983-90	2.8	17
134	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
133	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

132	Dark blood late enhancement imaging. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2016 , 18, 77	6.9	48
131	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
130	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
129	Quantification of Left Ventricular Function With Premature Ventricular Complexes Reveals Variable Hemodynamics. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2016 , 9, e003520	6.4	12
128	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
127	FLASH proton density imaging for improved surface coil intensity correction in quantitative and semi-quantitative SSFP perfusion cardiovascular magnetic resonance. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2015 , 17, 16	6.9	7
126	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
125	Optimized saturation pulse trains for SASHA T1 mapping at 3T. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2015 , 17,	6.9	3
124	Automated inline extracellular volume (ECV) mapping. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2015 , 17,	6.9	4
123	Free-breathing T2* mapping using respiratory motion corrected averaging. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2015 , 17, 3	6.9	22
122	Myocardial T2* mapping: influence of noise on accuracy and precision. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2015 , 17, 7	6.9	32
121	Temporal and spatial characteristics of the area at risk investigated using computed tomography and T1-weighted magnetic resonance imaging. <i>European Heart Journal Cardiovascular Imaging</i> , 2015 , 16, 1232-40	4.1	9
120	Prognostic Value of Late Gadolinium Enhancement Cardiovascular Magnetic Resonance in Cardiac Amyloidosis. <i>Circulation</i> , 2015 , 132, 1570-9	16.7	320
119	Distributed MRI reconstruction using Gadgetron-based cloud computing. <i>Magnetic Resonance in Medicine</i> , 2015 , 73, 1015-25	4.4	38
118	Saturation pulse design for quantitative myocardial T1 mapping. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2015 , 17, 84	6.9	23
117	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
116	Increased myocardial extracellular volume in active idiopathic systemic capillary leak syndrome. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2015 , 17, 76	6.9	16
115	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

114	Image reconstruction: an overview for clinicians. <i>Journal of Magnetic Resonance Imaging</i> , 2015 , 41, 573-85.	5.6	25
113	Noise propagation in region of interest measurements. <i>Magnetic Resonance in Medicine</i> , 2015 , 73, 1300-8.	4.4	6
112	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
111	Variability of T1 in purpose recruited normal volunteers and patients as a function of shim (B0), flip angle (B1) and myocardial sector at 3T. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2015 , 17,	6.9	3
110	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
109	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
108	Synthetic phase sensitive inversion recovery late gadolinium enhancement from post-contrast T1-mapping shows excellent agreement with conventional PSIR-LGE for diagnosing myocardial scar. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2014 , 16,	6.9	3
107	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
106	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
105	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
104	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
103	Adiabatic inversion pulses for myocardial T1 mapping. <i>Magnetic Resonance in Medicine</i> , 2014 , 71, 1428-34.	4.4	93
102	Auto-calibration approach for k-t SENSE. <i>Magnetic Resonance in Medicine</i> , 2014 , 71, 1123-9	4.4	5
101	Hemodynamic Consequences of Hypertrophic Cardiomyopathy with Midventricular Obstruction: Apical Aneurysm and Thrombus Formation. <i>Journal of General Practice (Los Angeles, Calif)</i> , 2014 , 2,		2
100	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
99	Accelerating Cardiovascular Magnetic Resonance Imaging: Signal Processing Meets Nuclear Spins [Life Sciences]. <i>IEEE Signal Processing Magazine</i> , 2014 , 31, 138-143	9.4	2
98	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
97	Number of P-wave fragmentations on P-SAECG correlates with infiltrated atrial fat. <i>Annals of Noninvasive Electrocardiology</i> , 2014 , 19, 114-21	1.5	6

96	Method for calculating confidence intervals for phase contrast flow measurements. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2014 , 16, 46	6.9	4
95	Free breathing myocardial perfusion data sets for performance analysis of motion compensation algorithms. <i>GigaScience</i> , 2014 , 3, 23	7.6	5
94	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
93	T1-mapping in the heart: accuracy and precision. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2014 , 16, 2	6.9	415
92	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
91	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
90	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
89	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
88	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
87	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
86	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
85	Real-time MRI-guided right heart catheterization in adults using passive catheters. <i>European Heart Journal</i> , 2013 , 34, 380-9	9.5	71
84	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
83	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
82	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
81	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
80	Integration of cardiac and respiratory motion into MRI roadmaps fused with x-ray. <i>Medical Physics</i> , 2013 , 40, 032302	4.4	30
79	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

78	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
77	Cardiac imaging techniques for physicians: late enhancement. <i>Journal of Magnetic Resonance Imaging</i> , 2012 , 36, 529-42	5.6	104
76	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
75	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
74	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
73	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
72	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
71	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
70	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
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