

Reza Nezafat

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.

59
papers

2,693
citations

24
h-index

51
g-index

71
ext. papers

3,649
ext. citations

6.1
avg, IF

5.05
L-index

#	Paper	IF	Citations
59	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
58	Highly conductive, stretchable and biocompatible Ag-Au core-sheath nanowire composite for wearable and implantable bioelectronics. <i>Nature Nanotechnology</i> , 2018 , 13, 1048-1056	28.7	440
57	Accuracy, precision, and reproducibility of four T1 mapping sequences: a head-to-head comparison of MOLLI, ShMOLLI, SASHA, and SAPPHIRE. <i>Radiology</i> , 2014 , 272, 683-9	20.5	204
56	Combined saturation/inversion recovery sequences for improved evaluation of scar and diffuse fibrosis in patients with arrhythmia or heart rate variability. <i>Magnetic Resonance in Medicine</i> , 2014 , 71, 1024-34	4.4	116
55	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
54	High-Resolution Mapping of Ventricular Scar: Comparison Between Single and Multielectrode Catheters. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2016 , 9,	6.4	87
53	Machine learning in cardiovascular magnetic resonance: basic concepts and applications. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2019 , 21, 61	6.9	74
52	Free-breathing multislice native myocardial T mapping using the slice-interleaved T (STONE) sequence. <i>Magnetic Resonance in Medicine</i> , 2015 , 74, 115-124	4.4	70
51	Accelerated late gadolinium enhancement cardiac MR imaging with isotropic spatial resolution using compressed sensing: initial experience. <i>Radiology</i> , 2012 , 264, 691-9	20.5	70
50	Radiomic Analysis of Myocardial Native T Imaging Discriminates Between Hypertensive Heart Disease and Hypertrophic Cardiomyopathy. <i>JACC: Cardiovascular Imaging</i> , 2019 , 12, 1946-1954	8.4	59
49	Coronary magnetic resonance vein imaging: imaging contrast, sequence, and timing. <i>Magnetic Resonance in Medicine</i> , 2007 , 58, 1196-206	4.4	58
48	Adaptive registration of varying contrast-weighted images for improved tissue characterization (ARCTIC): application to T1 mapping. <i>Magnetic Resonance in Medicine</i> , 2015 , 73, 1469-82	4.4	54
47	Diffuse myocardial fibrosis in patients with mitral valve prolapse and ventricular arrhythmia. <i>Heart</i> , 2017 , 103, 204-209	5.1	49
46	Automated analysis of cardiovascular magnetic resonance myocardial native T mapping images using fully convolutional neural networks. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2019 , 21, 7	6.9	47
45	Improved quantitative myocardial T mapping: Impact of the fitting model. <i>Magnetic Resonance in Medicine</i> , 2015 , 74, 93-105	4.4	41
44	Clinical performance of high-resolution late gadolinium enhancement imaging with compressed sensing. <i>Journal of Magnetic Resonance Imaging</i> , 2017 , 46, 1829-1838	5.6	37
43	Automated Cardiac MR Scar Quantification in Hypertrophic Cardiomyopathy Using Deep Convolutional Neural Networks. <i>JACC: Cardiovascular Imaging</i> , 2018 , 11, 1917-1918	8.4	34

42	Joint myocardial T1 and T2 mapping using a combination of saturation recovery and T2-preparation. <i>Magnetic Resonance in Medicine</i> , 2016 , 76, 888-96	4.4	34
41	High-Resolution Mapping of Ventricular Scar: Evaluation of a Novel Integrated Multielectrode Mapping and Ablation Catheter. <i>JACC: Clinical Electrophysiology</i> , 2017 , 3, 220-231	4.6	33
40	Robust Atlas-Based Segmentation of Highly Variable Anatomy: Left Atrium Segmentation. <i>Lecture Notes in Computer Science</i> , 2010 , 6364, 85-94	0.9	32
39	Cardiovascular magnetic resonance feature tracking strain analysis for discrimination between hypertensive heart disease and hypertrophic cardiomyopathy. <i>PLoS ONE</i> , 2019 , 14, e0221061	3.7	27
38	Inflow quantification in three-dimensional cardiovascular MR imaging. <i>Journal of Magnetic Resonance Imaging</i> , 2008 , 28, 1273-9	5.6	27
37	Improved dark blood late gadolinium enhancement (DB-LGE) imaging using an optimized joint inversion preparation and T magnetization preparation. <i>Magnetic Resonance in Medicine</i> , 2018 , 79, 351-360	4.4	25
36	Increased myocardial native T relaxation time in patients with nonischemic dilated cardiomyopathy with complex ventricular arrhythmia. <i>Journal of Magnetic Resonance Imaging</i> , 2018 , 47, 779-786	5.6	25
35	Myocardial Native T1 Time in Patients With Hypertrophic Cardiomyopathy. <i>American Journal of Cardiology</i> , 2016 , 118, 1057-62	3	24
34	Three-dimensional Deep Convolutional Neural Networks for Automated Myocardial Scar Quantification in Hypertrophic Cardiomyopathy: A Multicenter Multivendor Study. <i>Radiology</i> , 2020 , 294, 52-60	20.5	23
33	Gray blood late gadolinium enhancement cardiovascular magnetic resonance for improved detection of myocardial scar. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2018 , 20, 22	6.9	19
32	Impact of motion correction on reproducibility and spatial variability of quantitative myocardial T2 mapping. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2015 , 17, 46	6.9	19
31	From Improved Diagnostics to Presurgical Planning: High-Resolution Functionally Graded Multimaterial 3D Printing of Biomedical Tomographic Data Sets. <i>3D Printing and Additive Manufacturing</i> , 2018 , 5, 103-113	4	19
30	Native Myocardial T1 as a Biomarker of Cardiac Structure in Non-Ischemic Cardiomyopathy. <i>American Journal of Cardiology</i> , 2016 , 117, 282-8	3	17
29	Cardiac MR Characterization of left ventricular remodeling in a swine model of infarct followed by reperfusion. <i>Journal of Magnetic Resonance Imaging</i> , 2018 , 48, 808	5.6	16
28	Interlead heterogeneity of R- and T-wave morphology in standard 12-lead ECGs predicts sustained ventricular tachycardia/fibrillation and arrhythmic death in patients with cardiomyopathy. <i>Journal of Cardiovascular Electrophysiology</i> , 2017 , 28, 1324-1333	2.7	16
27	Changes in Myocardial Native T and T After Exercise Stress: A Noncontrast CMR Pilot Study. <i>JACC: Cardiovascular Imaging</i> , 2020 , 13, 667-680	8.4	16
26	Reproducibility of Segmentation-based Myocardial Radiomic Features with Cardiac MRI. <i>Radiology: Cardiothoracic Imaging</i> , 2020 , 2, e190216	8.3	14
25	Deep complex convolutional network for fast reconstruction of 3D late gadolinium enhancement cardiac MRI. <i>NMR in Biomedicine</i> , 2020 , 33, e4312	4.4	13

24	Accelerated cardiac MR stress perfusion with radial sampling after physical exercise with an MR-compatible supine bicycle ergometer. <i>Magnetic Resonance in Medicine</i> , 2015 , 74, 384-95	4.4	13
23	Local Conduction Velocity in the Presence of Late Gadolinium Enhancement and Myocardial Wall Thinning: A Cardiac Magnetic Resonance Study in a Swine Model of Healed Left Ventricular Infarction. <i>Circulation: Arrhythmia and Electrophysiology</i> , 2019 , 12, e007175	6.4	12
22	Free-breathing slice-interleaved myocardial T2 mapping with slice-selective T2 magnetization preparation. <i>Magnetic Resonance in Medicine</i> , 2016 , 76, 555-65	4.4	11
21	Automated Myocardial T2 and Extracellular Volume Quantification in Cardiac MRI Using Transfer Learning-based Myocardium Segmentation. <i>Radiology: Artificial Intelligence</i> , 2020 , 2, e190034	8.7	10
20	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
19	Texture signatures of native myocardial T as novel imaging markers for identification of hypertrophic cardiomyopathy patients without scar. <i>Journal of Magnetic Resonance Imaging</i> , 2020 , 52, 906-919	5.6	10
18	Reproducibility of myocardial T and T relaxation time measurement using slice-interleaved T and T mapping sequences. <i>Journal of Magnetic Resonance Imaging</i> , 2016 , 44, 1159-1167	5.6	10
17	Nonrigid active shape model-based registration framework for motion correction of cardiac T mapping. <i>Magnetic Resonance in Medicine</i> , 2018 , 80, 780-791	4.4	8
16	Mapping of a Post-Infarction Left Ventricular Aneurysm-Dependent Macroreentrant Ventricular Tachycardia. <i>HeartRhythm Case Reports</i> , 2015 , 1, 472-476	1	7
15	Negative synergism of diabetes mellitus and obesity in patients with heart failure with preserved ejection fraction: a cardiovascular magnetic resonance study. <i>International Journal of Cardiovascular Imaging</i> , 2020 , 36, 2027-2038	2.5	6
14	A novel multielectrode catheter for high-density ventricular mapping: electrogram characterization and utility for scar mapping. <i>Europace</i> , 2020 , 22, 440-449	3.9	6
13	Aortic regurgitation assessment by cardiovascular magnetic resonance imaging and transthoracic echocardiography: intermodality disagreement impacting on prediction of post-surgical left ventricular remodeling. <i>International Journal of Cardiovascular Imaging</i> , 2020 , 36, 91-100	2.5	5
12	Characterization of interstitial diffuse fibrosis patterns using texture analysis of myocardial native T1 mapping. <i>PLoS ONE</i> , 2020 , 15, e0233694	3.7	4
11	Association Between Left Ventricular Mechanical Deformation and Myocardial Fibrosis in Nonischemic Cardiomyopathy. <i>Journal of the American Heart Association</i> , 2020 , 9, e016797	6	4
10	Machine learning phenotyping of scarred myocardium from cine in hypertrophic cardiomyopathy. <i>European Heart Journal Cardiovascular Imaging</i> , 2021 ,	4.1	4
9	Highly accelerated free-breathing real-time phase contrast cardiovascular MRI via complex-difference deep learning. <i>Magnetic Resonance in Medicine</i> , 2021 , 86, 804-819	4.4	4
8	Improved Quantification of Myocardium Scar in Late Gadolinium Enhancement Images: Deep Learning Based Image Fusion Approach. <i>Journal of Magnetic Resonance Imaging</i> , 2021 , 54, 303-312	5.6	4
7	Self-Supervised Physics-Guided Deep Learning Reconstruction for High-Resolution 3D LGE CMR 2021 ,		3

6	Free-breathing simultaneous myocardial T ₁ and T ₂ mapping with whole left ventricle coverage. <i>Magnetic Resonance in Medicine</i> , 2021 , 85, 1308-1321	4.4	3
5	Maximal Wall Thickness Measurement in Hypertrophic Cardiomyopathy: Biomarker Variability and its Impact on Clinical Care. <i>JACC: Cardiovascular Imaging</i> , 2021 , 14, 2123-2134	8.4	2
4	Accelerated cardiac T ₁ mapping in four heartbeats with inline MyoMapNet: a deep learning-based T ₁ estimation approach.. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2022 , 24, 6	6.9	1
3	Sensitivity of Myocardial Radiomic Features to Imaging Parameters in Cardiac MR Imaging. <i>Journal of Magnetic Resonance Imaging</i> , 2021 , 54, 787-794	5.6	1
2	Comparison of Complex k-Space Data and Magnitude-Only for Training of Deep LearningBased Artifact Suppression for Real-Time Cine MRI. <i>Frontiers in Physics</i> , 2021 , 9,	3.9	1
1	Artifact reduction in free-breathing, free-running myocardial perfusion imaging with interleaved non-selective RF excitations. <i>Magnetic Resonance in Medicine</i> , 2021 , 86, 954-963	4.4	0