

Peng Hu

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.

79
papers

1,281
citations

22
h-index

31
g-index

83
ext. papers

1,629
ext. citations

5
avg, IF

4.51
L-index

#	Paper	IF	Citations
79	Improved late gadolinium enhancement MR imaging for patients with implanted cardiac devices. <i>Radiology</i> , 2014 , 270, 269-74	20.5	81
78	Device artifact reduction for magnetic resonance imaging of patients with implantable cardioverter-defibrillators and ventricular tachycardia: late gadolinium enhancement correlation with electroanatomic mapping. <i>Heart Rhythm</i> , 2014 , 11, 289-98	6.7	67
77	Longitudinal diffusion MRI for treatment response assessment: Preliminary experience using an MRI-guided tri-cobalt 60 radiotherapy system. <i>Medical Physics</i> , 2016 , 43, 1369-73	4.4	63
76	Multicenter Safety and Practice for Off-Label Diagnostic Use of Ferumoxytol in MRI. <i>Radiology</i> , 2019 , 293, 554-564	20.5	50
75	Four-dimensional, multiphase, steady-state imaging with contrast enhancement (MUSIC) in the heart: a feasibility study in children. <i>Magnetic Resonance in Medicine</i> , 2015 , 74, 1042-9	4.4	40
74	Self-gated 4D multiphase, steady-state imaging with contrast enhancement (MUSIC) using rotating cartesian K-space (ROCK): Validation in children with congenital heart disease. <i>Magnetic Resonance in Medicine</i> , 2017 , 78, 472-483	4.4	37
73	MRI with ferumoxytol: A single center experience of safety across the age spectrum. <i>Journal of Magnetic Resonance Imaging</i> , 2017 , 45, 804-812	5.6	36
72	Respiratory motion-resolved, self-gated 4D-MRI using rotating cartesian k-space (ROCK). <i>Medical Physics</i> , 2017 , 44, 1359-1368	4.4	35
71	MR image reconstruction using deep learning: evaluation of network structure and loss functions. <i>Quantitative Imaging in Medicine and Surgery</i> , 2019 , 9, 1516-1527	3.6	35
70	Characterization of spatial distortion in a 0.35 T MRI-guided radiotherapy system. <i>Physics in Medicine and Biology</i> , 2017 , 62, 4525-4540	3.8	34
69	Cardiac magnetic resonance imaging using wideband sequences in patients with nonconditional cardiac implanted electronic devices. <i>Heart Rhythm</i> , 2018 , 15, 218-225	6.7	33
68	High spatial and temporal resolution dynamic contrast-enhanced magnetic resonance angiography using compressed sensing with magnitude image subtraction. <i>Magnetic Resonance in Medicine</i> , 2014 , 71, 1771-83	4.4	32
67	Myocardial T1 mapping at 3.0 tesla using an inversion recovery spoiled gradient echo readout and bloch equation simulation with slice profile correction (BLESSPC) T1 estimation algorithm. <i>Journal of Magnetic Resonance Imaging</i> , 2016 , 43, 414-25	5.6	29
66	Ferumoxytol vs. Gadolinium agents for contrast-enhanced MRI: Thoughts on evolving indications, risks, and benefits. <i>Journal of Magnetic Resonance Imaging</i> , 2017 , 46, 919-923	5.6	28
65	Feasibility evaluation of diffusion-weighted imaging using an integrated MRI-radiotherapy system for response assessment to neoadjuvant therapy in rectal cancer. <i>British Journal of Radiology</i> , 2017 , 90, 20160739	3.4	27
64	Golden-ratio rotated stack-of-stars acquisition for improved volumetric MRI. <i>Magnetic Resonance in Medicine</i> , 2017 , 78, 2290-2298	4.4	27
63	Modified wideband three-dimensional late gadolinium enhancement MRI for patients with implantable cardiac devices. <i>Magnetic Resonance in Medicine</i> , 2016 , 75, 572-84	4.4	26

62	Subject-specific estimation of respiratory navigator tracking factor for free-breathing cardiovascular MR. <i>Magnetic Resonance in Medicine</i> , 2012 , 67, 1665-72	4.4	25
61	Towards the identification of multi-parametric quantitative MRI biomarkers in lupus nephritis. <i>Magnetic Resonance Imaging</i> , 2015 , 33, 1066-1074	3.3	24
60	Noncontrast enhanced four-dimensional dynamic MRA with golden angle radial acquisition and K-space weighted image contrast (KWIC) reconstruction. <i>Magnetic Resonance in Medicine</i> , 2014 , 72, 1541-1544	4.4	24
59	Accelerated noncontrast-enhanced pulmonary vein MRA with distributed compressed sensing. <i>Journal of Magnetic Resonance Imaging</i> , 2011 , 33, 1248-55	5.6	23
58	Contrast-enhanced whole-heart coronary MRI with bolus infusion of gadobenate dimeglumine at 1.5 T. <i>Magnetic Resonance in Medicine</i> , 2011 , 65, 392-8	4.4	23
57	4D MUSIC CMR: value-based imaging of neonates and infants with congenital heart disease. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2017 , 19, 40	6.9	22
56	Motion correction using coil arrays (MOCCA) for free-breathing cardiac cine MRI. <i>Magnetic Resonance in Medicine</i> , 2011 , 66, 467-75	4.4	22
55	Accelerated ferumoxytol-enhanced 4D multiphase, steady-state imaging with contrast enhancement (MUSIC) cardiovascular MRI: validation in pediatric congenital heart disease. <i>NMR in Biomedicine</i> , 2017 , 30, e3663	4.4	20
54	Instantaneous signal loss simulation (InSiL): an improved algorithm for myocardial T1 mapping using the MOLLI sequence. <i>Journal of Magnetic Resonance Imaging</i> , 2015 , 41, 721-9	5.6	20
53	Coronary MR imaging: effect of timing and dose of isosorbide dinitrate administration. <i>Radiology</i> , 2010 , 254, 401-9	20.5	20
52	Accelerated noncontrast-enhanced 4-dimensional intracranial MR angiography using golden-angle stack-of-stars trajectory and compressed sensing with magnitude subtraction. <i>Magnetic Resonance in Medicine</i> , 2018 , 79, 867-878	4.4	19
51	Distortion-free diffusion MRI using an MRI-guided Tri-Cobalt 60 radiotherapy system: Sequence verification and preliminary clinical experience. <i>Medical Physics</i> , 2017 , 44, 5357-5366	4.4	19
50	Reducing view-sharing using compressed sensing in time-resolved contrast-enhanced magnetic resonance angiography. <i>Magnetic Resonance in Medicine</i> , 2015 , 74, 474-81	4.4	18
49	Myocardial T1 mapping for patients with implanted cardiac devices using wideband inversion recovery spoiled gradient echo readout. <i>Magnetic Resonance in Medicine</i> , 2017 , 77, 1495-1504	4.4	17
48	Treatment effect prediction for sarcoma patients treated with preoperative radiotherapy using radiomics features from longitudinal diffusion-weighted MRIs. <i>Physics in Medicine and Biology</i> , 2020 , 65, 175006	3.8	17
47	Noncontrast SSFP pulmonary vein magnetic resonance angiography: impact of off-resonance and flow. <i>Journal of Magnetic Resonance Imaging</i> , 2010 , 32, 1255-61	5.6	17
46	Parallel imaging and convolutional neural network combined fast MR image reconstruction: Applications in low-latency accelerated real-time imaging. <i>Medical Physics</i> , 2019 , 46, 3399-3413	4.4	16
45	Feasibility of Cardiac Magnetic Resonance Wideband Protocol in Patients With Implantable Cardioverter Defibrillators and Its Utility for Defining Scar. <i>American Journal of Cardiology</i> , 2019 , 123, 1329-1335	3	16

44	Accuracy of UTE-MRI-based patient setup for brain cancer radiation therapy. <i>Medical Physics</i> , 2016 , 43, 262	4.4	16
43	Accelerating dynamic magnetic resonance imaging (MRI) for lung tumor tracking based on low-rank decomposition in the spatial-temporal domain: a feasibility study based on simulation and preliminary prospective undersampled MRI. <i>International Journal of Radiation Oncology Biology Physics</i> , 2014 , 88, 723-31	4	15
42	Non-invasive stereotactic body radiation therapy for refractory ventricular arrhythmias: an institutional experience. <i>Journal of Interventional Cardiac Electrophysiology</i> , 2021 , 61, 535-543	2.4	14
41	Accuracy, precision, and reproducibility of myocardial T1 mapping: A comparison of four T1 estimation algorithms for modified look-locker inversion recovery (MOLLI). <i>Magnetic Resonance in Medicine</i> , 2017 , 78, 1746-1756	4.4	12
40	Segmented golden ratio radial reordering with variable temporal resolution for dynamic cardiac MRI. <i>Magnetic Resonance in Medicine</i> , 2016 , 76, 94-103	4.4	12
39	Cardiac MRI: a Translational Imaging Tool for Characterizing Anthracycline-Induced Myocardial Remodeling. <i>Current Oncology Reports</i> , 2016 , 18, 48	6.3	11
38	Cardiac balanced steady-state free precession MRI at 0.35 T: a comparison study with 1.5 T. <i>Quantitative Imaging in Medicine and Surgery</i> , 2018 , 8, 627-636	3.6	11
37	Respiratory motion-resolved, self-gated 4D-MRI using Rotating Cartesian K-space (ROCK): Initial clinical experience on an MRI-guided radiotherapy system. <i>Radiotherapy and Oncology</i> , 2018 , 127, 467-473	5.3	11
36	Fast and accurate calculation of myocardial T and T values using deep learning Bloch equation simulations (DeepBLESS). <i>Magnetic Resonance in Medicine</i> , 2020 , 84, 2831-2845	4.4	10
35	Feasibility of automated 3-dimensional magnetic resonance imaging pancreas segmentation. <i>Advances in Radiation Oncology</i> , 2016 , 1, 182-193	3.3	10
34	Ferumoxitol enhanced black-blood cardiovascular magnetic resonance imaging. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2017 , 19, 106	6.9	9
33	Free-breathing 3D whole-heart black-blood imaging with motion sensitized driven equilibrium. <i>Journal of Magnetic Resonance Imaging</i> , 2012 , 36, 379-86	5.6	9
32	A novel anthropomorphic multimodality phantom for MRI-based radiotherapy quality assurance testing. <i>Medical Physics</i> , 2020 , 47, 1443-1451	4.4	7
31	Accurate, precise, simultaneous myocardial T1 and T2 mapping using a radial sequence with inversion recovery and T2 preparation. <i>NMR in Biomedicine</i> , 2019 , 32, e4165	4.4	7
30	Non-contrast-enhanced pulmonary vein MRI with a spatially selective slab inversion preparation sequence. <i>Magnetic Resonance in Medicine</i> , 2010 , 63, 530-6	4.4	7
29	Constraints in estimating the proton density fat fraction. <i>Magnetic Resonance Imaging</i> , 2020 , 66, 1-8	3.3	7
28	Multishot diffusion-prepared magnitude-stabilized balanced steady-state free precession sequence for distortion-free diffusion imaging. <i>Magnetic Resonance in Medicine</i> , 2019 , 81, 2374-2384	4.4	7
27	Prospective cardiac motion self-gating. <i>Quantitative Imaging in Medicine and Surgery</i> , 2017 , 7, 215-226	3.6	6

26	Retrospective respiratory motion correction in cardiac cine MRI reconstruction using adversarial autoencoder and unsupervised learning. <i>NMR in Biomedicine</i> , 2021 , 34, e4433	4.4	6
25	Practical Safety Considerations for Integration of Magnetic Resonance Imaging in Radiation Therapy. <i>Practical Radiation Oncology</i> , 2020 , 10, 443-453	2.8	5
24	Accelerated 3D bSSFP imaging for treatment planning on an MRI-guided radiotherapy system. <i>Medical Physics</i> , 2018 , 45, 2595-2602	4.4	5
23	Ferumoxytol-Enhanced CMR for Vasodilator Stress Testing: A Feasibility Study. <i>JACC: Cardiovascular Imaging</i> , 2019 , 12, 1582-1584	8.4	4
22	Phase-contrast MRI with hybrid one and two-sided flow-encoding and velocity spectrum separation. <i>Magnetic Resonance in Medicine</i> , 2017 , 78, 182-192	4.4	4
21	Four-dimensional Multiphase Steady-State MRI with Ferumoxytol Enhancement: Early Multicenter Feasibility in Pediatric Congenital Heart Disease. <i>Radiology</i> , 2021 , 300, 162-173	20.5	4
20	Accelerated phase contrast MRI using hybrid one- and two-sided flow encodings only (HOTFEO). <i>NMR in Biomedicine</i> , 2018 , 31, e3904	4.4	3
19	Phase contrast MRI with flow compensation view sharing. <i>Magnetic Resonance in Medicine</i> , 2015 , 73, 505-13	4.4	3
18	Artifact reduction with a wideband late gadolinium enhancement (LGE) MRI technique for patients with implanted cardiac devices: a two-center study. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2014 , 16,	6.9	3
17	Temporally aware volumetric generative adversarial network-based MR image reconstruction with simultaneous respiratory motion compensation: Initial feasibility in 3D dynamic cine cardiac MRI. <i>Magnetic Resonance in Medicine</i> , 2021 , 86, 2666-2683	4.4	3
16	Cardiac Magnetic Resonance Quantification of Structure-Function Relationships in Heart Failure. <i>Heart Failure Clinics</i> , 2021 , 17, 9-24	3.3	3
15	3D-Printed Coronary Implants Are Effective for Percutaneous Creation of Swine Models with Focal Coronary Stenosis. <i>Journal of Cardiovascular Translational Research</i> , 2020 , 13, 1033-1043	3.3	2
14	Improved 4D cardiac functional assessment for pediatric patients using motion-weighted image reconstruction. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2018 , 31, 747-756	2.8	2
13	Improved inversion time (TI) scout sequence for late gadolinium enhancement MRI of patients with implantable cardiac devices. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2014 , 16,	6.9	2
12	Ferumoxytol-enhanced magnetic resonance T1 reactivity for depiction of myocardial hypoperfusion. <i>NMR in Biomedicine</i> , 2021 , 34, e4518	4.4	2
11	3D isotropic resolution diffusion-prepared magnitude-stabilized bSSFP imaging with high geometric fidelity at 1.5 Tesla. <i>Medical Physics</i> , 2020 , 47, 3511-3519	4.4	1
10	Pathophysiology, classification, and MRI parallels in microvascular disease of the heart and brain. <i>Microcirculation</i> , 2020 , 27, e12648	2.9	1
9	Cardiac MRI derived epicardial fat maps to assist VT ablation procedures for subjects with implantable devices 2015 ,		1

8	Non-invasive Stereotactic Body Radiation Therapy for Refractory Ventricular Arrhythmias: Venturing into the Unknown.. <i>Journal of Innovations in Cardiac Rhythm Management</i> , 2022 , 13, 4894-4899 ^{1,1}	1.1	1
7	Surgical ablation after stereotactic body radiation therapy for ventricular arrhythmias.. <i>HeartRhythm Case Reports</i> , 2022 , 8, 73-76	1	0
6	Automatic segmentation of peripheral arteries and veins in ferumoxytol-enhanced MR angiography. <i>Magnetic Resonance in Medicine</i> , 2022 , 87, 984-998	4.4	0
5	Estimation of fractional myocardial blood volume and water exchange using ferumoxytol-enhanced magnetic resonance imaging. <i>Journal of Magnetic Resonance Imaging</i> , 2021 , 53, 1699-1709	5.6	0
4	Comparison and evaluation of distortion correction techniques on an MR-guided radiotherapy system. <i>Medical Physics</i> , 2021 , 48, 691-702	4.4	0
3	Dosimetric impact from cardiac motion to heart substructures in thoracic cancer patients treated with a magnetic resonance guided radiotherapy system. <i>Physics and Imaging in Radiation Oncology</i> , 2021 , 17, 8-12	3.1	0
2	Recent Advances in Functional MRI to Predict Treatment Response for Locally Advanced Rectal Cancer. <i>Current Colorectal Cancer Reports</i> ,1	1	
1	Noninvasive Imaging for Coronary Artery Disease 2012 , 337-349		