Peng Hu

List of Publications by Year in Descending Order

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	Surgical ablation after stereotactic body radiation therapy for ventricular arrhythmias.. *HeartRhythm Case Reports*, **2022**, 8, 73-76	1	0
78	Automatic segmentation of peripheral arteries and veins in ferumoxytol-enhanced MR angiography. *Magnetic Resonance in Medicine*, **2022**, 87, 984-998	4.4	0
77	Non-invasive Stereotactic Body Radiation Therapy for Refractory Ventricular Arrhythmias: Venturing into the Unknown.. *Journal of Innovations in Cardiac Rhythm Management*, **2022**, 13, 4894-4899	1.1	1
76	Estimation of fractional myocardial blood volume and water exchange using ferumoxytol-enhanced magnetic resonance imaging. *Journal of Magnetic Resonance Imaging*, **2021**, 53, 1699-1709	5.6	0
75	Non-invasive stereotactic body radiation therapy for refractory ventricular arrhythmias: an institutional experience. *Journal of Interventional Cardiac Electrophysiology*, **2021**, 61, 535-543	2.4	14
74	Ferumoxytol-enhanced magnetic resonance T1 reactivity for depiction of myocardial hypoperfusion. *NMR in Biomedicine*, **2021**, 34, e4518	4.4	2
73	Temporally aware volumetric generative adversarial network-based MR image reconstruction with simultaneous respiratory motion compensation: Initial feasibility in 3D dynamic cine cardiac MRI. *Magnetic Resonance in Medicine*, **2021**, 86, 2666-2683	4.4	3
72	Retrospective respiratory motion correction in cardiac cine MRI reconstruction using adversarial autoencoder and unsupervised learning. *NMR in Biomedicine*, **2021**, 34, e4433	4.4	6
71	Comparison and evaluation of distortion correction techniques on an MR-guided radiotherapy system. *Medical Physics*, **2021**, 48, 691-702	4.4	0
70	Cardiac Magnetic Resonance Quantification of Structure-Function Relationships in Heart Failure. *Heart Failure Clinics*, **2021**, 17, 9-24	3.3	3
69	Dosimetric impact from cardiac motion to heart substructures in thoracic cancer patients treated with a magnetic resonance guided radiotherapy system. *Physics and Imaging in Radiation Oncology*, **2021**, 17, 8-12	3.1	0
68	Four-dimensional Multiphase Steady-State MRI with Ferumoxytol Enhancement: Early Multicenter Feasibility in Pediatric Congenital Heart Disease. *Radiology*, **2021**, 300, 162-173	20.5	4
67	3D isotropic resolution diffusion-prepared magnitude-stabilized bSSFP imaging with high geometric fidelity at 1.5 Tesla. *Medical Physics*, **2020**, 47, 3511-3519	4.4	1
66	3D-Printed Coronary Implants Are Effective for Percutaneous Creation of Swine Models with Focal Coronary Stenosis. *Journal of Cardiovascular Translational Research*, **2020**, 13, 1033-1043	3.3	2
65	Fast and accurate calculation of myocardial T and T values using deep learning Bloch equation simulations (DeepBLESS). *Magnetic Resonance in Medicine*, **2020**, 84, 2831-2845	4.4	10
64	Treatment effect prediction for sarcoma patients treated with preoperative radiotherapy using radiomics features from longitudinal diffusion-weighted MRIs. *Physics in Medicine and Biology*, **2020**, 65, 175006	3.8	17
63	Pathophysiology, classification, and MRI parallels in microvascular disease of the heart and brain. *Microcirculation*, **2020**, 27, e12648	2.9	1

62	A novel anthropomorphic multimodality phantom for MRI-based radiotherapy quality assurance testing. *Medical Physics*, **2020**, 47, 1443-1451	4.4	7
61	Constraints in estimating the proton density fat fraction. *Magnetic Resonance Imaging*, **2020**, 66, 1-8	3.3	7
60	Practical Safety Considerations for Integration of Magnetic Resonance Imaging in Radiation Therapy. *Practical Radiation Oncology*, **2020**, 10, 443-453	2.8	5
59	Ferumoxytol-Enhanced CMR for Vasodilator Stress Testing: A Feasibility Study. *JACC: Cardiovascular Imaging*, **2019**, 12, 1582-1584	8.4	4
58	Parallel imaging and convolutional neural network combined fast MR image reconstruction: Applications in low-latency accelerated real-time imaging. *Medical Physics*, **2019**, 46, 3399-3413	4.4	16
57	Feasibility of Cardiac Magnetic Resonance Wideband Protocol in Patients With Implantable Cardioverter Defibrillators and Its Utility for Defining Scar. *American Journal of Cardiology*, **2019**, 123, 1329-1335	3	16
56	Accurate, precise, simultaneous myocardial T1 and T2 mapping using a radial sequence with inversion recovery and T2 preparation. *NMR in Biomedicine*, **2019**, 32, e4165	4.4	7
55	MR image reconstruction using deep learning: evaluation of network structure and loss functions. *Quantitative Imaging in Medicine and Surgery*, **2019**, 9, 1516-1527	3.6	35
54	Multicenter Safety and Practice for Off-Label Diagnostic Use of Ferumoxytol in MRI. *Radiology*, **2019**, 293, 554-564	20.5	50
53	Multishot diffusion-prepared magnitude-stabilized balanced steady-state free precession sequence for distortion-free diffusion imaging. *Magnetic Resonance in Medicine*, **2019**, 81, 2374-2384	4.4	7
52	Accelerated phase contrast MRI using hybrid one- and two-sided flow encodings only (HOTFEO). *NMR in Biomedicine*, **2018**, 31, e3904	4.4	3
51	Accelerated noncontrast-enhanced 4-dimensional intracranial MR angiography using golden-angle stack-of-stars trajectory and compressed sensing with magnitude subtraction. *Magnetic Resonance in Medicine*, **2018**, 79, 867-878	4.4	19
50	Cardiac magnetic resonance imaging using wideband sequences in patients with nonconditional cardiac implanted electronic devices. *Heart Rhythm*, **2018**, 15, 218-225	6.7	33
49	Improved 4D cardiac functional assessment for pediatric patients using motion-weighted image reconstruction. *Magnetic Resonance Materials in Physics, Biology, and Medicine*, **2018**, 31, 747-756	2.8	2
48	Cardiac balanced steady-state free precession MRI at 0.35 T: a comparison study with 1.5 T. *Quantitative Imaging in Medicine and Surgery*, **2018**, 8, 627-636	3.6	11
47	Accelerated 3D bSSFP imaging for treatment planning on an MRI-guided radiotherapy system. *Medical Physics*, **2018**, 45, 2595-2602	4.4	5
46	Respiratory motion-resolved, self-gated 4D-MRI using Rotating Cartesian K-space (ROCK): Initial clinical experience on an MRI-guided radiotherapy system. *Radiotherapy and Oncology*, **2018**, 127, 467-473	5.3	11
45	Myocardial T1 mapping for patients with implanted cardiac devices using wideband inversion recovery spoiled gradient echo readout. *Magnetic Resonance in Medicine*, **2017**, 77, 1495-1504	4.4	17

44	Feasibility evaluation of diffusion-weighted imaging using an integrated MRI-radiotherapy system for response assessment to neoadjuvant therapy in rectal cancer. *British Journal of Radiology*, **2017**, 90, 20160739	3.4	27
43	Respiratory motion-resolved, self-gated 4D-MRI using rotating cartesian k-space (ROCK). *Medical Physics*, **2017**, 44, 1359-1368	4.4	35
42	Ferumoxytol vs. Gadolinium agents for contrast-enhanced MRI: Thoughts on evolving indications, risks, and benefits. *Journal of Magnetic Resonance Imaging*, **2017**, 46, 919-923	5.6	28
41	Golden-ratio rotated stack-of-stars acquisition for improved volumetric MRI. *Magnetic Resonance in Medicine*, **2017**, 78, 2290-2298	4.4	27
40	Characterization of spatial distortion in a 0.35 T MRI-guided radiotherapy system. *Physics in Medicine and Biology*, **2017**, 62, 4525-4540	3.8	34
39	Accuracy, precision, and reproducibility of myocardial T1 mapping: A comparison of four T1 estimation algorithms for modified look-locker inversion recovery (MOLLI). *Magnetic Resonance in Medicine*, **2017**, 78, 1746-1756	4.4	12
38	Ferumoxytol enhanced black-blood cardiovascular magnetic resonance imaging. *Journal of Cardiovascular Magnetic Resonance*, **2017**, 19, 106	6.9	9
37	Prospective cardiac motion self-gating. *Quantitative Imaging in Medicine and Surgery*, **2017**, 7, 215-226	3.6	6
36	Distortion-free diffusion MRI using an MRI-guided Tri-Cobalt 60 radiotherapy system: Sequence verification and preliminary clinical experience. *Medical Physics*, **2017**, 44, 5357-5366	4.4	19
35	4D MUSIC CMR: value-based imaging of neonates and infants with congenital heart disease. *Journal of Cardiovascular Magnetic Resonance*, **2017**, 19, 40	6.9	22
34	Phase-contrast MRI with hybrid one and two-sided flow-encoding and velocity spectrum separation. *Magnetic Resonance in Medicine*, **2017**, 78, 182-192	4.4	4
33	MRI with ferumoxytol: A single center experience of safety across the age spectrum. *Journal of Magnetic Resonance Imaging*, **2017**, 45, 804-812	5.6	36
32	Self-gated 4D multiphase, steady-state imaging with contrast enhancement (MUSIC) using rotating cartesian K-space (ROCK): Validation in children with congenital heart disease. *Magnetic Resonance in Medicine*, **2017**, 78, 472-483	4.4	37
31	Accelerated ferumoxytol-enhanced 4D multiphase, steady-state imaging with contrast enhancement (MUSIC) cardiovascular MRI: validation in pediatric congenital heart disease. *NMR in Biomedicine*, **2017**, 30, e3663	4.4	20
30	Modified wideband three-dimensional late gadolinium enhancement MRI for patients with implantable cardiac devices. *Magnetic Resonance in Medicine*, **2016**, 75, 572-84	4.4	26
29	Accuracy of UTE-MRI-based patient setup for brain cancer radiation therapy. *Medical Physics*, **2016**, 43, 262	4.4	16
28	Cardiac MRI: a Translational Imaging Tool for Characterizing Anthracycline-Induced Myocardial Remodeling. *Current Oncology Reports*, **2016**, 18, 48	6.3	11
27	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. *Journal of Magnetic Resonance Imaging*, **2016**, 43, 414-25	5.6	29

26	Segmented golden ratio radial reordering with variable temporal resolution for dynamic cardiac MRI. *Magnetic Resonance in Medicine*, **2016**, 76, 94-103	4.4	12
25	Longitudinal diffusion MRI for treatment response assessment: Preliminary experience using an MRI-guided tri-cobalt 60 radiotherapy system. *Medical Physics*, **2016**, 43, 1369-73	4.4	63
24	Feasibility of automated 3-dimensional magnetic resonance imaging pancreas segmentation. *Advances in Radiation Oncology*, **2016**, 1, 182-193	3.3	10
23	Towards the identification of multi-parametric quantitative MRI biomarkers in lupus nephritis. *Magnetic Resonance Imaging*, **2015**, 33, 1066-1074	3.3	24
22	Reducing view-sharing using compressed sensing in time-resolved contrast-enhanced magnetic resonance angiography. *Magnetic Resonance in Medicine*, **2015**, 74, 474-81	4.4	18
21	Four-dimensional, multiphase, steady-state imaging with contrast enhancement (MUSIC) in the heart: a feasibility study in children. *Magnetic Resonance in Medicine*, **2015**, 74, 1042-9	4.4	40
20	Instantaneous signal loss simulation (InSiL): an improved algorithm for myocardial T□mapping using the MOLLI sequence. *Journal of Magnetic Resonance Imaging*, **2015**, 41, 721-9	5.6	20
19	Phase contrast MRI with flow compensation view sharing. *Magnetic Resonance in Medicine*, **2015**, 73, 505-13	4.4	3
18	Cardiac MRI derived epicardial fat maps to assist VT ablation procedures for subjects with implantable devices **2015**,		1
17	High spatial and temporal resolution dynamic contrast-enhanced magnetic resonance angiography using compressed sensing with magnitude image subtraction. *Magnetic Resonance in Medicine*, **2014**, 71, 1771-83	4.4	32
16	Improved late gadolinium enhancement MR imaging for patients with implanted cardiac devices. *Radiology*, **2014**, 270, 269-74	20.5	81
15	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. *International Journal of Radiation Oncology Biology Physics*, **2014**, 88, 723-31	4	15
14	Noncontrast enhanced four-dimensional dynamic MRA with golden angle radial acquisition and K-space weighted image contrast (KWIC) reconstruction. *Magnetic Resonance in Medicine*, **2014**, 72, 1541-51	4.4	24
13	Device artifact reduction for magnetic resonance imaging of patients with implantable cardioverter-defibrillators and ventricular tachycardia: late gadolinium enhancement correlation with electroanatomic mapping. *Heart Rhythm*, **2014**, 11, 289-98	6.7	67
12	Artifact reduction with a wideband late gadolinium enhancement (LGE) MRI technique for patients with implanted cardiac devices: a two-center study. *Journal of Cardiovascular Magnetic Resonance*, **2014**, 16,	6.9	3
11	Improved inversion time (TI) scout sequence for late gadolinium enhancement MRI of patients with implantable cardiac devices. *Journal of Cardiovascular Magnetic Resonance*, **2014**, 16,	6.9	2
10	Subject-specific estimation of respiratory navigator tracking factor for free-breathing cardiovascular MR. *Magnetic Resonance in Medicine*, **2012**, 67, 1665-72	4.4	25
9	Free-breathing 3D whole-heart black-blood imaging with motion sensitized driven equilibrium. *Journal of Magnetic Resonance Imaging*, **2012**, 36, 379-86	5.6	9

8	Noninvasive Imaging for Coronary Artery Disease **2012**, 337-349		
7	Accelerated noncontrast-enhanced pulmonary vein MRA with distributed compressed sensing. *Journal of Magnetic Resonance Imaging*, **2011**, 33, 1248-55	5.6	23
6	Contrast-enhanced whole-heart coronary MRI with bolus infusion of gadobenate dimeglumine at 1.5 T. *Magnetic Resonance in Medicine*, **2011**, 65, 392-8	4.4	23
5	Motion correction using coil arrays (MOCCA) for free-breathing cardiac cine MRI. *Magnetic Resonance in Medicine*, **2011**, 66, 467-75	4.4	22
4	Coronary MR imaging: effect of timing and dose of isosorbide dinitrate administration. *Radiology*, **2010**, 254, 401-9	20.5	20
3	Noncontrast SSFP pulmonary vein magnetic resonance angiography: impact of off-resonance and flow. *Journal of Magnetic Resonance Imaging*, **2010**, 32, 1255-61	5.6	17
2	Non-contrast-enhanced pulmonary vein MRI with a spatially selective slab inversion preparation sequence. *Magnetic Resonance in Medicine*, **2010**, 63, 530-6	4.4	7
1	Recent Advances in Functional MRI to Predict Treatment Response for Locally Advanced Rectal Cancer. *Current Colorectal Cancer Reports*,1	1	