Hyungseok Jang

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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.

57 papers	967 citations	15 h-index	29 g-index
63 ext. papers	1,314 ext. citations	5.4 avg, IF	4.81 L-index

#	Paper	IF	Citations
57	Deep Learning MR Imaging-based Attenuation Correction for PET/MR Imaging. *Radiology*, **2018**, 286, 676-684	20.5	229
56	Deep convolutional neural network and 3D deformable approach for tissue segmentation in musculoskeletal magnetic resonance imaging. *Magnetic Resonance in Medicine*, **2018**, 79, 2379-2391	4.4	163
55	A deep learning approach for F-FDG PET attenuation correction. *EJNMMI Physics*, **2018**, 5, 24	4.4	57
54	Technical Note: Deep learning based MRAC using rapid ultrashort echo time imaging. *Medical Physics*, **2018**, 45, 3697	4.4	32
53	Whole knee joint T values measured in vivo at 3T by combined 3D ultrashort echo time cones actual flip angle and variable flip angle methods. *Magnetic Resonance in Medicine*, **2019**, 81, 1634-1644	4.4	30
52	Knee menisci segmentation and relaxometry of 3D ultrashort echo time cones MR imaging using attention U-Net with transfer learning. *Magnetic Resonance in Medicine*, **2020**, 83, 1109-1122	4.4	27
51	Ramped hybrid encoding for improved ultrashort echo time imaging. *Magnetic Resonance in Medicine*, **2016**, 76, 814-25	4.4	26
50	Three-dimensional ultrashort echo time imaging with tricomponent analysis for human cortical bone. *Magnetic Resonance in Medicine*, **2019**, 82, 348-355	4.4	22
49	Feasibility of Deep Learning-Based PET/MR Attenuation Correction in the Pelvis Using Only Diagnostic MR Images. *Tomography*, **2018**, 4, 138-147	3.1	22
48	Volumetric mapping of bound and pore water as well as collagen protons in cortical bone using 3D ultrashort echo time cones MR imaging techniques. *Bone*, **2019**, 127, 120-128	4.7	19
47	Rapid dual-echo ramped hybrid encoding MR-based attenuation correction (dRHE-MRAC) for PET/MR. *Magnetic Resonance in Medicine*, **2018**, 79, 2912-2922	4.4	19
46	Collagen proton fraction from ultrashort echo time magnetization transfer (UTE-MT) MRI modelling correlates significantly with cortical bone porosity measured with micro-computed tomography (□CT). *NMR in Biomedicine*, **2019**, 32, e4045	4.4	19
45	Trabecular bone imaging using a 3D adiabatic inversion recovery prepared ultrashort TE Cones sequence at 3T. *Magnetic Resonance in Medicine*, **2020**, 83, 1640-1651	4.4	18
44	Significant correlations between human cortical bone mineral density and quantitative susceptibility mapping (QSM) obtained with 3D Cones ultrashort echo time magnetic resonance imaging (UTE-MRI). *Magnetic Resonance Imaging*, **2019**, 62, 104-110	3.3	16
43	Whole-Brain Myelin Imaging Using 3D Double-Echo Sliding Inversion Recovery Ultrashort Echo Time (DESIRE UTE) MRI. *Radiology*, **2020**, 294, 362-374	20.5	16
42	Fat suppression for ultrashort echo time imaging using a single-point Dixon method. *NMR in Biomedicine*, **2019**, 32, e4069	4.4	15
41	Single acquisition quantitative single-point electron paramagnetic resonance imaging. *Magnetic Resonance in Medicine*, **2013**, 70, 1173-81	4.4	14

40	A rapid and robust gradient measurement technique using dynamic single-point imaging. *Magnetic Resonance in Medicine*, **2017**, 78, 950-962	4.4	12
39	True phase quantitative susceptibility mapping using continuous single-point imaging: a feasibility study. *Magnetic Resonance in Medicine*, **2019**, 81, 1907-1914	4.4	12
38	Advanced magnetic resonance imaging of cartilage components in haemophilic joints reveals that cartilage hemosiderin correlates with joint deterioration. *Haemophilia*, **2019**, 25, 851-858	3.3	11
37	Imaging of the region of the osteochondral junction (OCJ) using a 3D adiabatic inversion recovery prepared ultrashort echo time cones (3D IR-UTE-cones) sequence at 3□T. *NMR in Biomedicine*, **2019**, 32, e4080	4.4	11
36	Convincing evidence for magic angle less-sensitive quantitative T imaging of articular cartilage using the 3D ultrashort echo time cones adiabatic T □(3D UTE cones-AdiabT) sequence. *Magnetic Resonance in Medicine*, **2020**, 84, 2551-2560	4.4	11
35	Correlations of cortical bone microstructural and mechanical properties with water proton fractions obtained from ultrashort echo time (UTE) MRI tricomponent T2* model. *NMR in Biomedicine*, **2020**, 33, e4233	4.4	11
34	Fat suppression for ultrashort echo time imaging using a novel soft-hard composite radiofrequency pulse. *Magnetic Resonance in Medicine*, **2019**, 82, 2178-2187	4.4	10
33	Quantitative Ultrashort Echo Time (UTE) Magnetic Resonance Imaging of Bone: An Update. *Frontiers in Endocrinology*, **2020**, 11, 567417	5.7	10
32	Quantitative three-dimensional ultrashort echo time cones imaging of the knee joint with motion correction. *NMR in Biomedicine*, **2020**, 33, e4214	4.4	9
31	Ultrashort Echo Time Quantitative Susceptibility Mapping (UTE-QSM) of Highly Concentrated Magnetic Nanoparticles: A Comparison Study about Different Sampling Strategies. *Molecules*, **2019**, 24,	4.8	8
30	Ultrashort Echo Time MRI (UTE-MRI) Quantifications of Cortical Bone Varied Significantly at Body Temperature Compared with Room Temperature **2019**, 23, 202		8
29	Inversion recovery UTE based volumetric myelin imaging in human brain using interleaved hybrid encoding. *Magnetic Resonance in Medicine*, **2020**, 83, 950-961	4.4	8
28	Fully phase-encoded MRI near metallic implants using ultrashort echo times and broadband excitation. *Magnetic Resonance in Medicine*, **2018**, 79, 2156-2163	4.4	7
27	Improved volumetric myelin imaging in human brain using 3D dual echo inversion recovery-prepared UTE with complex echo subtraction. *Magnetic Resonance in Medicine*, **2020**, 83, 1168-1177	4.4	7
26	Magic angle effect on adiabatic T imaging of the Achilles tendon using 3D ultrashort echo time cones trajectory. *NMR in Biomedicine*, **2020**, 33, e4322	4.4	6
25	Rotator Cuff Tendon Assessment in Symptomatic and Control Groups Using Quantitative MRI. *Journal of Magnetic Resonance Imaging*, **2020**, 52, 864-872	5.6	6
24	Water proton density in human cortical bone obtained from ultrashort echo time (UTE) MRI predicts bone microstructural properties. *Magnetic Resonance Imaging*, **2020**, 67, 85-89	3.3	6
23	Inversion recovery zero echo time (IR-ZTE) imaging for direct myelin detection in human brain: a feasibility study. *Quantitative Imaging in Medicine and Surgery*, **2020**, 10, 895-906	3.6	5

22	Externally calibrated parallel imaging for 3D multispectral imaging near metallic implants using broadband ultrashort echo time imaging. *Magnetic Resonance in Medicine*, **2017**, 77, 2303-2309	4.4	5
21	Accelerated 4D quantitative single point EPR imaging using model-based reconstruction. *Magnetic Resonance in Medicine*, **2015**, 73, 1692-701	4.4	5
20	Ultrashort echo time quantitative susceptibility mapping (UTE-QSM) for detection of hemosiderin deposition in hemophilic arthropathy: A feasibility study. *Magnetic Resonance in Medicine*, **2020**, 84, 3246-3255	4.4	5
19	Myelin Imaging in Human Brain Using a Short Repetition Time Adiabatic Inversion Recovery Prepared Ultrashort Echo Time (STAIR-UTE) MRI Sequence in Multiple Sclerosis. *Radiology*, **2020**, 297, 392-404	20.5	5
18	An Update in Qualitative Imaging of Bone Using Ultrashort Echo Time Magnetic Resonance. *Frontiers in Endocrinology*, **2020**, 11, 555756	5.7	5
17	Quantitative Magnetic Resonance Imaging of Cortical and Trabecular Bone. *Seminars in Musculoskeletal Radiology*, **2020**, 24, 386-401	1.8	4
16	Automated cartilage segmentation and quantification using 3D ultrashort echo time (UTE) cones MR imaging with deep convolutional neural networks. *European Radiology*, **2021**, 31, 7653-7663	8	4
15	Evaluation of cortical bone perfusion using dynamic contrast enhanced ultrashort echo time imaging: a feasibility study. *Quantitative Imaging in Medicine and Surgery*, **2019**, 9, 1383-1393	3.6	3
14	T measurement of bound water in cortical bone using 3D adiabatic inversion recovery ultrashort echo time (3D IR-UTE) Cones imaging. *Magnetic Resonance in Medicine*, **2020**, 84, 634-645	4.4	3
13	To measure T of short T species using an inversion recovery prepared three-dimensional ultrashort echo time (3D IR-UTE) method: A phantom study. *Journal of Magnetic Resonance*, **2020**, 314, 106725	3	3
12	Volumetric imaging of myelin in vivo using 3D inversion recovery-prepared ultrashort echo time cones magnetic resonance imaging. *NMR in Biomedicine*, **2020**, 33, e4326	4.4	2
11	Ultrashort echo time Cones double echo steady state (UTE-Cones-DESS) for rapid morphological imaging of short T tissues. *Magnetic Resonance in Medicine*, **2021**, 86, 881-892	4.4	2
10	Inversion Recovery Ultrashort TE MR Imaging of Myelin is Significantly Correlated with Disability in Patients with Multiple Sclerosis. *American Journal of Neuroradiology*, **2021**, 42, 868-874	4.4	2
9	Brain ultrashort T component imaging using a short TR adiabatic inversion recovery prepared dual-echo ultrashort TE sequence with complex echo subtraction (STAIR-dUTE-ES). *Journal of Magnetic Resonance*, **2021**, 323, 106898	3	2
8	Knee osteochondral junction imaging using a fast 3D T-weighted ultrashort echo time cones sequence at 3T. *Magnetic Resonance Imaging*, **2020**, 73, 76-83	3.3	1
7	High-contrast osteochondral junction imaging using a 3D dual adiabatic inversion recovery-prepared ultrashort echo time cones sequence. *NMR in Biomedicine*, **2021**, 34, e4559	4.4	1
6	Depiction of the Periosteum Using Ultrashort Echo Time Pulse Sequence with Three-Dimensional Cone Trajectory and Histologic Correlation in a Porcine Model. *Korean Journal of Radiology*, **2021**, 22, 782-791	6.9	1
5	Fast T measurement of cortical bone using 3D UTE actual flip angle imaging and single-TR acquisition (3D UTE-AFI-STR). *Magnetic Resonance in Medicine*, **2021**, 85, 3290-3298	4.4	1

4	Feasibility of an Inversion Recovery-Prepared Fat-Saturated Zero Echo Time Sequence for High Contrast Imaging of the Osteochondral Junction.. *Frontiers in Endocrinology*, **2021**, 12, 777080	5.7	1
3	AcidoCEST-UTE MRI Reveals an Acidic Microenvironment in Knee Osteoarthritis.. *International Journal of Molecular Sciences*, **2022**, 23,	6.3	1
2	Rapid single scan ramped hybrid-encoding for bicomponent T2* mapping in a human knee joint: A feasibility study. *NMR in Biomedicine*, **2020**, 33, e4391	4.4	0
1	Quantitative assessment of articular cartilage degeneration using 3D ultrashort echo time cones adiabatic T (3D UTE-Cones-AdiabT) imaging.. *European Radiology*, **2022**, 1	8	0