

# Hyungseok Jang

## 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.

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	Quantitative assessment of articular cartilage degeneration using 3D ultrashort echo time cones adiabatic T (3D UTE-Cones-AdiabT) imaging.. <i>European Radiology</i> , <b>2022</b> , 1	8	0
56	AcidoCEST-UTE MRI Reveals an Acidic Microenvironment in Knee Osteoarthritis.. <i>International Journal of Molecular Sciences</i> , <b>2022</b> , 23,	6.3	1
55	Automated cartilage segmentation and quantification using 3D ultrashort echo time (UTE) cones MR imaging with deep convolutional neural networks. <i>European Radiology</i> , <b>2021</b> , 31, 7653-7663	8	4
54	Ultrashort echo time Cones double echo steady state (UTE-Cones-DESS) for rapid morphological imaging of short T tissues. <i>Magnetic Resonance in Medicine</i> , <b>2021</b> , 86, 881-892	4.4	2
53	High-contrast osteochondral junction imaging using a 3D dual adiabatic inversion recovery-prepared ultrashort echo time cones sequence. <i>NMR in Biomedicine</i> , <b>2021</b> , 34, e4559	4.4	1
52	Depiction of the Periosteum Using Ultrashort Echo Time Pulse Sequence with Three-Dimensional Cone Trajectory and Histologic Correlation in a Porcine Model. <i>Korean Journal of Radiology</i> , <b>2021</b> , 22, 782-791	6.9	1
51	Inversion Recovery Ultrashort TE MR Imaging of Myelin is Significantly Correlated with Disability in Patients with Multiple Sclerosis. <i>American Journal of Neuroradiology</i> , <b>2021</b> , 42, 868-874	4.4	2
50	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). <i>Journal of Magnetic Resonance</i> , <b>2021</b> , 323, 106898	3	2
49	Fast T measurement of cortical bone using 3D UTE actual flip angle imaging and single-TR acquisition (3D UTE-AFI-STR). <i>Magnetic Resonance in Medicine</i> , <b>2021</b> , 85, 3290-3298	4.4	1
48	Feasibility of an Inversion Recovery-Prepared Fat-Saturated Zero Echo Time Sequence for High Contrast Imaging of the Osteochondral Junction.. <i>Frontiers in Endocrinology</i> , <b>2021</b> , 12, 777080	5.7	1
47	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. <i>Magnetic Resonance in Medicine</i> , <b>2020</b> , 84, 2551-2560	4.4	11
46	Magic angle effect on adiabatic T imaging of the Achilles tendon using 3D ultrashort echo time cones trajectory. <i>NMR in Biomedicine</i> , <b>2020</b> , 33, e4322	4.4	6
45	Inversion recovery zero echo time (IR-ZTE) imaging for direct myelin detection in human brain: a feasibility study. <i>Quantitative Imaging in Medicine and Surgery</i> , <b>2020</b> , 10, 895-906	3.6	5
44	Rotator Cuff Tendon Assessment in Symptomatic and Control Groups Using Quantitative MRI. <i>Journal of Magnetic Resonance Imaging</i> , <b>2020</b> , 52, 864-872	5.6	6
43	Quantitative Magnetic Resonance Imaging of Cortical and Trabecular Bone. <i>Seminars in Musculoskeletal Radiology</i> , <b>2020</b> , 24, 386-401	1.8	4
42	Trabecular bone imaging using a 3D adiabatic inversion recovery prepared ultrashort TE Cones sequence at 3T. <i>Magnetic Resonance in Medicine</i> , <b>2020</b> , 83, 1640-1651	4.4	18
41	Knee menisci segmentation and relaxometry of 3D ultrashort echo time cones MR imaging using attention U-Net with transfer learning. <i>Magnetic Resonance in Medicine</i> , <b>2020</b> , 83, 1109-1122	4.4	27

40	Water proton density in human cortical bone obtained from ultrashort echo time (UTE) MRI predicts bone microstructural properties. <i>Magnetic Resonance Imaging</i> , <b>2020</b> , 67, 85-89	3.3	6
39	T measurement of bound water in cortical bone using 3D adiabatic inversion recovery ultrashort echo time (3D IR-UTE) Cones imaging. <i>Magnetic Resonance in Medicine</i> , <b>2020</b> , 84, 634-645	4.4	3
38	Quantitative three-dimensional ultrashort echo time cones imaging of the knee joint with motion correction. <i>NMR in Biomedicine</i> , <b>2020</b> , 33, e4214	4.4	9
37	Whole-Brain Myelin Imaging Using 3D Double-Echo Sliding Inversion Recovery Ultrashort Echo Time (DESIRE UTE) MRI. <i>Radiology</i> , <b>2020</b> , 294, 362-374	20.5	16
36	Correlations of cortical bone microstructural and mechanical properties with water proton fractions obtained from ultrashort echo time (UTE) MRI tricomponent T2* model. <i>NMR in Biomedicine</i> , <b>2020</b> , 33, e4233	4.4	11
35	Improved volumetric myelin imaging in human brain using 3D dual echo inversion recovery-prepared UTE with complex echo subtraction. <i>Magnetic Resonance in Medicine</i> , <b>2020</b> , 83, 1168-1177	4.4	7
34	Quantitative Ultrashort Echo Time (UTE) Magnetic Resonance Imaging of Bone: An Update. <i>Frontiers in Endocrinology</i> , <b>2020</b> , 11, 567417	5.7	10
33	Knee osteochondral junction imaging using a fast 3D T-weighted ultrashort echo time cones sequence at 3T. <i>Magnetic Resonance Imaging</i> , <b>2020</b> , 73, 76-83	3.3	1
32	Ultrashort echo time quantitative susceptibility mapping (UTE-QSM) for detection of hemosiderin deposition in hemophilic arthropathy: A feasibility study. <i>Magnetic Resonance in Medicine</i> , <b>2020</b> , 84, 3246-3255	4.4	5
31	Rapid single scan ramped hybrid-encoding for bicomponent T2* mapping in a human knee joint: A feasibility study. <i>NMR in Biomedicine</i> , <b>2020</b> , 33, e4391	4.4	0
30	Volumetric imaging of myelin in vivo using 3D inversion recovery-prepared ultrashort echo time cones magnetic resonance imaging. <i>NMR in Biomedicine</i> , <b>2020</b> , 33, e4326	4.4	2
29	Myelin Imaging in Human Brain Using a Short Repetition Time Adiabatic Inversion Recovery Prepared Ultrashort Echo Time (STAIR-UTE) MRI Sequence in Multiple Sclerosis. <i>Radiology</i> , <b>2020</b> , 297, 392-404	20.5	5
28	An Update in Qualitative Imaging of Bone Using Ultrashort Echo Time Magnetic Resonance. <i>Frontiers in Endocrinology</i> , <b>2020</b> , 11, 555756	5.7	5
27	Inversion recovery UTE based volumetric myelin imaging in human brain using interleaved hybrid encoding. <i>Magnetic Resonance in Medicine</i> , <b>2020</b> , 83, 950-961	4.4	8
26	To measure T of short T species using an inversion recovery prepared three-dimensional ultrashort echo time (3D IR-UTE) method: A phantom study. <i>Journal of Magnetic Resonance</i> , <b>2020</b> , 314, 106725	3	3
25	Volumetric mapping of bound and pore water as well as collagen protons in cortical bone using 3D ultrashort echo time cones MR imaging techniques. <i>Bone</i> , <b>2019</b> , 127, 120-128	4.7	19
24	Advanced magnetic resonance imaging of cartilage components in haemophilic joints reveals that cartilage hemosiderin correlates with joint deterioration. <i>Haemophilia</i> , <b>2019</b> , 25, 851-858	3.3	11
23	Three-dimensional ultrashort echo time imaging with tricomponent analysis for human cortical bone. <i>Magnetic Resonance in Medicine</i> , <b>2019</b> , 82, 348-355	4.4	22

22	Ultrashort Echo Time Quantitative Susceptibility Mapping (UTE-QSM) of Highly Concentrated Magnetic Nanoparticles: A Comparison Study about Different Sampling Strategies. <i>Molecules</i> , <b>2019</b> , 24,	4.8	8
21	Fat suppression for ultrashort echo time imaging using a single-point Dixon method. <i>NMR in Biomedicine</i> , <b>2019</b> , 32, e4069	4.4	15
20	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 3T. <i>NMR in Biomedicine</i> , <b>2019</b> , 32, e4080	4.4	11
19	Fat suppression for ultrashort echo time imaging using a novel soft-hard composite radiofrequency pulse. <i>Magnetic Resonance in Medicine</i> , <b>2019</b> , 82, 2178-2187	4.4	10
18	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). <i>Magnetic Resonance Imaging</i> , <b>2019</b> , 62, 104-110	3.3	16
17	Evaluation of cortical bone perfusion using dynamic contrast enhanced ultrashort echo time imaging: a feasibility study. <i>Quantitative Imaging in Medicine and Surgery</i> , <b>2019</b> , 9, 1383-1393	3.6	3
16	Ultrashort Echo Time MRI (UTE-MRI) Quantifications of Cortical Bone Varied Significantly at Body Temperature Compared with Room Temperature <b>2019</b> , 23, 202		8
15	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. <i>Magnetic Resonance in Medicine</i> , <b>2019</b> , 81, 1634-1644	4.4	30
14	True phase quantitative susceptibility mapping using continuous single-point imaging: a feasibility study. <i>Magnetic Resonance in Medicine</i> , <b>2019</b> , 81, 1907-1914	4.4	12
13	Collagen proton fraction from ultrashort echo time magnetization transfer (UTE-MT) MRI modelling correlates significantly with cortical bone porosity measured with micro-computed tomography ( $\mu$ CT). <i>NMR in Biomedicine</i> , <b>2019</b> , 32, e4045	4.4	19
12	Deep convolutional neural network and 3D deformable approach for tissue segmentation in musculoskeletal magnetic resonance imaging. <i>Magnetic Resonance in Medicine</i> , <b>2018</b> , 79, 2379-2391	4.4	163
11	Rapid dual-echo ramped hybrid encoding MR-based attenuation correction (dRHE-MRAC) for PET/MR. <i>Magnetic Resonance in Medicine</i> , <b>2018</b> , 79, 2912-2922	4.4	19
10	Fully phase-encoded MRI near metallic implants using ultrashort echo times and broadband excitation. <i>Magnetic Resonance in Medicine</i> , <b>2018</b> , 79, 2156-2163	4.4	7
9	Deep Learning MR Imaging-based Attenuation Correction for PET/MR Imaging. <i>Radiology</i> , <b>2018</b> , 286, 676-684	20.5	229
8	A deep learning approach for F-FDG PET attenuation correction. <i>EJNMMI Physics</i> , <b>2018</b> , 5, 24	4.4	57
7	Feasibility of Deep Learning-Based PET/MR Attenuation Correction in the Pelvis Using Only Diagnostic MR Images. <i>Tomography</i> , <b>2018</b> , 4, 138-147	3.1	22
6	Technical Note: Deep learning based MRAC using rapid ultrashort echo time imaging. <i>Medical Physics</i> , <b>2018</b> , 45, 3697	4.4	32
5	Externally calibrated parallel imaging for 3D multispectral imaging near metallic implants using broadband ultrashort echo time imaging. <i>Magnetic Resonance in Medicine</i> , <b>2017</b> , 77, 2303-2309	4.4	5

4	A rapid and robust gradient measurement technique using dynamic single-point imaging. <i>Magnetic Resonance in Medicine</i> , <b>2017</b> , 78, 950-962	4.4	12
3	Ramped hybrid encoding for improved ultrashort echo time imaging. <i>Magnetic Resonance in Medicine</i> , <b>2016</b> , 76, 814-25	4.4	26
2	Accelerated 4D quantitative single point EPR imaging using model-based reconstruction. <i>Magnetic Resonance in Medicine</i> , <b>2015</b> , 73, 1692-701	4.4	5
1	Single acquisition quantitative single-point electron paramagnetic resonance imaging. <i>Magnetic Resonance in Medicine</i> , <b>2013</b> , 70, 1173-81	4.4	14