

# Ho-Taek Song

## List of Publications by Year in descending order

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91  
papers

7,205  
citations

218662

26  
h-index

54911

84  
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92  
all docs

92  
docs citations

92  
times ranked

9969  
citing authors

#	ARTICLE	IF	CITATIONS
1	Artificially engineered magnetic nanoparticles for ultra-sensitive molecular imaging. <i>Nature Medicine</i> , 2007, 13, 95-99.	30.7	1,756
2	Nanoscale Size Effect of Magnetic Nanocrystals and Their Utilization for Cancer Diagnosis via Magnetic Resonance Imaging. <i>Journal of the American Chemical Society</i> , 2005, 127, 5732-5733.	13.7	1,131
3	In Vivo Magnetic Resonance Detection of Cancer by Using Multifunctional Magnetic Nanocrystals. <i>Journal of the American Chemical Society</i> , 2005, 127, 12387-12391.	13.7	829
4	Overcoming Artifacts from Metallic Orthopedic Implants at High-Field-Strength MR Imaging and Multi-detector CT. <i>Radiographics</i> , 2007, 27, 791-803.	3.3	479
5	Surface Modulation of Magnetic Nanocrystals in the Development of Highly Efficient Magnetic Resonance Probes for Intracellular Labeling. <i>Journal of the American Chemical Society</i> , 2005, 127, 9992-9993.	13.7	299
6	Self-Confirming AND-Logic Nanoparticles for Fault-Free MRI. <i>Journal of the American Chemical Society</i> , 2010, 132, 11015-11017.	13.7	270
7	Metal artefact reduction in gemstone spectral imaging dual-energy CT with and without metal artefact reduction software. <i>European Radiology</i> , 2012, 22, 1331-1340.	4.5	236
8	<i>T<sub>1</sub></i> and <i>T<sub>2</sub></i> Dual-Mode MRI Contrast Agent for Enhancing Accuracy by Engineered Nanomaterials. <i>ACS Nano</i> , 2014, 8, 3393-3401.	14.6	195
9	Scoliosis Imaging: What Radiologists Should Know. <i>Radiographics</i> , 2010, 30, 1823-1842.	3.3	187
10	Role of magnetic resonance imaging in entrapment and compressive neuropathy—what, where, and how to see the peripheral nerves on the musculoskeletal magnetic resonance image: part 1. Overview and lower extremity. <i>European Radiology</i> , 2007, 17, 139-149.	4.5	119
11	Role of magnetic resonance imaging in entrapment and compressive neuropathy—what, where, and how to see the peripheral nerves on the musculoskeletal magnetic resonance image: part 2. Upper extremity. <i>European Radiology</i> , 2007, 17, 509-522.	4.5	113
12	Binary mixing of micelles using Pluronic for a nano-sized drug delivery system. <i>Colloids and Surfaces B: Biointerfaces</i> , 2011, 82, 190-195.	5.0	102
13	Intrinsic ligament and triangular fibrocartilage complex (TFCC) tears of the wrist: comparison of isovolumetric 3D-THRIVE sequence MR arthrography and conventional MR image at 3 T. <i>Magnetic Resonance Imaging</i> , 2013, 31, 221-226.	1.8	84
14	Agmatine ameliorates type 2 diabetes induced-Alzheimer's disease-like alterations in high-fat diet-fed mice via reactivation of blunted insulin signalling. <i>Neuropharmacology</i> , 2017, 113, 467-479.	4.1	69
15	Morton neuroma: evaluated with ultrasonography and MR imaging. <i>Korean Journal of Radiology</i> , 2007, 8, 148.	3.4	67
16	Definition of Ubiquitination Modulator COP1 as a Novel Therapeutic Target in Human Hepatocellular Carcinoma. <i>Cancer Research</i> , 2010, 70, 8264-8269.	0.9	65
17	Rat model of metastatic breast cancer monitored by MRI at 3 tesla and bioluminescence imaging with histological correlation. <i>Journal of Translational Medicine</i> , 2009, 7, 88.	4.4	52
18	Anterior-inferior labral lesions of recurrent shoulder dislocation evaluated by MR arthrography in an adduction internal rotation (ADIR) position. <i>Journal of Magnetic Resonance Imaging</i> , 2006, 23, 29-35.	3.4	48

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19	Usefulness of slice encoding for metal artifact correction (SEMAC) for reducing metallic artifacts in 3-T MRI. <i>Magnetic Resonance Imaging</i> , 2013, 31, 703-706.	1.8	48
20	Chronic Tibiofibular Syndesmosis Injury of Ankle: Evaluation with Contrast-enhanced Fat-suppressed 3D Fast Spoiled Gradient-recalled Acquisition in the Steady State MR Imaging. <i>Radiology</i> , 2007, 242, 225-235.	7.3	44
21	Adiponectin receptor-mediated signaling ameliorates cerebral cell damage and regulates the neurogenesis of neural stem cells at high glucose concentrations: an in vivo and in vitro study. <i>Cell Death and Disease</i> , 2015, 6, e1844-e1844.	6.3	40
22	In vivo MR Imaging of Tissue-engineered Human Mesenchymal Stem Cells Transplanted to Mouse: a Preliminary Study. <i>Annals of Biomedical Engineering</i> , 2006, 35, 101-108.	2.5	37
23	Synovitis and soft tissue impingement of the ankle: Assessment with enhanced three-dimensional FSPGR MR imaging. <i>Journal of Magnetic Resonance Imaging</i> , 2004, 19, 108-116.	3.4	36
24	Comparison of Multi-Echo Dixon Methods with Volume Interpolated Breath-Hold Gradient Echo Magnetic Resonance Imaging in Fat-Signal Fraction Quantification of Paravertebral Muscle. <i>Korean Journal of Radiology</i> , 2015, 16, 1086.	3.4	36
25	Four-Dimensional Real-Time Cine Images of Wrist Joint Kinematics Using Dual Source CT with Minimal Time Increment Scanning. <i>Yonsei Medical Journal</i> , 2013, 54, 1026.	2.2	34
26	Rapid acquisition of magnetic resonance imaging of the shoulder using three-dimensional fast spin echo sequence with compressed sensing. <i>Magnetic Resonance Imaging</i> , 2017, 42, 152-157.	1.8	30
27	The safe establishment of a transseptal portal in the posterior knee. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2011, 19, 1320-1325.	4.2	29
28	MicroRNA-200 family members and ZEB2 are associated with brain metastasis in gastric adenocarcinoma. <i>International Journal of Oncology</i> , 2014, 45, 2403-2410.	3.3	29
29	Differentiation between Focal Malignant Marrow-Replacing Lesions and Benign Red Marrow Deposition of the Spine with T2 <sup>*</sup> -Corrected Fat-Signal Fraction Map Using a Three-Echo Volume Interpolated Breath-Hold Gradient Echo Dixon Sequence. <i>Korean Journal of Radiology</i> , 2014, 15, 781.	3.4	28
30	The role of orexin in post-stroke inflammation, cognitive decline, and depression. <i>Molecular Brain</i> , 2015, 8, 16.	2.6	27
31	Ultrasonography reveals a high prevalence of lower spinal dysraphism in children with urogenital anomalies. <i>Acta Anaesthesiologica Scandinavica</i> , 2012, 56, 624-628.	1.6	25
32	Optimizing reproducibility of operant testing through reinforcer standardization: identification of key nutritional constituents determining reward strength in touchscreens. <i>Molecular Brain</i> , 2017, 10, 31.	2.6	23
33	Quantitative T <sub>2</sub> * Mapping of Knee Cartilage: Comparison between the Synthetic MR Imaging and the CPMG Sequence. <i>Magnetic Resonance in Medical Sciences</i> , 2018, 17, 344-349.	2.0	22
34	Weighted subtraction in 3D ultrashort echo time (UTE) imaging for visualization of short T2 tissues of the knee. <i>Acta Radiologica</i> , 2014, 55, 454-461.	1.1	21
35	Agmatine Ameliorates High Glucose-Induced Neuronal Cell Senescence by Regulating the p21 and p53 Signaling. <i>Experimental Neurobiology</i> , 2016, 25, 24-32.	1.6	21
36	Correlations of 3T DCE-MRI Quantitative Parameters with Microvessel Density in a Human-Colorectal-Cancer Xenograft Mouse Model. <i>Korean Journal of Radiology</i> , 2011, 12, 722.	3.4	20

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37	MR Quantification of the Fatty Fraction from T2*-corrected Dixon Fat/Water Separation Volume-interpolated Breathhold Examination (VIBE) in the Assessment of Muscle Atrophy in Rotator Cuff Tears. <i>Academic Radiology</i> , 2015, 22, 909-917.	2.5	20
38	A nanosized delivery system of superparamagnetic iron oxide for tumor MR imaging. <i>International Journal of Pharmaceutics</i> , 2012, 439, 342-348.	5.2	19
39	Development of a new tri-block copolymer with a functional end and its feasibility for treatment of metastatic breast cancer. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016, 144, 73-80.	5.0	19
40	Double-inversion recovery with synthetic magnetic resonance: a pilot study for assessing synovitis of the knee joint compared to contrast-enhanced magnetic resonance imaging. <i>European Radiology</i> , 2019, 29, 2573-2580.	4.5	19
41	Intracellular translocation of superparamagnetic iron oxide nanoparticles encapsulated with peptide-conjugated poly(D,Llactide-co-glycolide). <i>Journal of Applied Physics</i> , 2005, 97, 10Q913.	2.5	18
42	Fat-suppressed volume isotropic turbo spin echo acquisition (VISTA) MR imaging in evaluating radial and root tears of the meniscus: Focusing on reader-defined axial reconstruction. <i>European Journal of Radiology</i> , 2013, 82, 2296-2302.	2.6	17
43	Response evaluation of giant-cell tumor of bone treated by denosumab: Histogram and texture analysis of CT images. <i>Journal of Orthopaedic Science</i> , 2018, 23, 570-577.	1.1	17
44	Clinical Feasibility of Synthetic Magnetic Resonance Imaging in the Diagnosis of Internal Derangements of the Knee. <i>Korean Journal of Radiology</i> , 2018, 19, 311.	3.4	17
45	The Role of Popliteal Lymph Nodes in Differentiating Rheumatoid Arthritis from Osteoarthritis by Using CE 3D-FSPGR MR Imaging: Relationship of the Inflamed Synovial Volume. <i>Korean Journal of Radiology</i> , 2005, 6, 117.	3.4	16
46	Enhanced stem cell tracking via electrostatically assembled fluorescent SPION-peptide complexes. <i>Nanotechnology</i> , 2009, 20, 355102.	2.6	16
47	Infrapatellar plica of the knee: Revisited with MR arthrographies undertaken in the knee flexion position mimicking operative arthroscopic posture. <i>European Journal of Radiology</i> , 2012, 81, 2783-2787.	2.6	16
48	Feasibility of fat-saturated T2-weighted magnetic resonance imaging with slice encoding for metal artifact correction (SEMAC) at 3T. <i>Magnetic Resonance Imaging</i> , 2014, 32, 1001-1005.	1.8	16
49	Simultaneous acquisition of perfusion and permeability from corrected relaxation rates with dynamic susceptibility contrast dual gradient echo. <i>Magnetic Resonance Imaging</i> , 2004, 22, 307-314.	1.8	15
50	Focal Eosinophilic Infiltration of the Liver. <i>Journal of Computer Assisted Tomography</i> , 2011, 35, 81-85.	0.9	15
51	Distinguishing hemangiomas from malignant solid hepatic lesions: A comparison of heavily T2-weighted images obtained before and after administration of gadoteric acid. <i>Journal of Magnetic Resonance Imaging</i> , 2011, 34, 310-317.	3.4	15
52	Clinical value of fat-suppressed 3D volume isotropic spin-echo (VISTA) sequence compared to 2D sequence in evaluating internal structures of the knee. <i>Acta Radiologica</i> , 2016, 57, 66-73.	1.1	15
53	Hyperpolarized [1-13C] pyruvate MR spectroscopy detect altered glycolysis in the brain of a cognitively impaired mouse model fed high-fat diet. <i>Molecular Brain</i> , 2018, 11, 74.	2.6	15
54	Assessment of Cognitive Impairment in a Mouse Model of High-Fat Diet-Induced Metabolic Stress with Touchscreen-Based Automated Battery System. <i>Experimental Neurobiology</i> , 2018, 27, 277-286.	1.6	15

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55	Hyperpolarized [ <sup>13</sup> C]lactate flux increased in the hippocampal region in diabetic mice. <i>Molecular Brain</i> , 2019, 12, 88.	2.6	15
56	Physicochemical characterizations of amphiphilic block copolymers with different MWs and micelles for development of anticancer drug nanocarriers. <i>Macromolecular Research</i> , 2012, 20, 944-953.	2.4	14
57	Fast isotropic volumetric magnetic resonance imaging of the ankle: Acceleration of the three-dimensional fast spin echo sequence using compressed sensing combined with parallel imaging. <i>European Journal of Radiology</i> , 2019, 112, 52-58.	2.6	14
58	Quantitative <sup>2</sup> T* imaging of metastatic human breast cancer to brain in the nude rat at 3 T. <i>NMR in Biomedicine</i> , 2011, 24, 325-334.	2.8	13
59	Spectral parametric segmentation of contrast-enhanced dual-energy CT to detect bone metastasis: feasibility sensitivity study using whole-body bone scintigraphy. <i>Acta Radiologica</i> , 2015, 56, 458-464.	1.1	13
60	The Usefulness of Virtual MR Arthroscopy as an Adjunct to Conventional MR Arthrography in Detecting Anterior Labral Lesions of the Shoulder. <i>American Journal of Roentgenology</i> , 2009, 192, W149-W155.	2.2	12
61	Î <sup>2</sup> -PIX Is Critical for Transplanted Mesenchymal Stromal Cell Migration. <i>Stem Cells and Development</i> , 2012, 21, 1989-1999.	2.1	12
62	Arsenic Trioxide as a Vascular Disrupting Agent: Synergistic Effect with Irinotecan on Tumor Growth Delay in a CT26 Allograft Model. <i>Translational Oncology</i> , 2013, 6, 83-91.	3.7	11
63	Use of strain ratio in evaluating superficial soft tissue tumors on ultrasonic elastography. <i>Journal of Medical Ultrasonics</i> (2001), 2014, 41, 319-323.	1.3	11
64	Impairment of insulin receptor substrate 1 signaling by insulin resistance inhibits neurite outgrowth and aggravates neuronal cell death. <i>Neuroscience</i> , 2015, 301, 26-38.	2.3	11
65	High resolution hyperpolarized <sup>13</sup> C MRSI using SPICE at 9.4T. <i>Magnetic Resonance in Medicine</i> , 2018, 80, 703-710.	3.0	10
66	Magnetic Resonance Arthrographic Dissection of Posterolateral Corner of the Knee: Revealing the Menisofibular Ligament. <i>Yonsei Medical Journal</i> , 2012, 53, 820.	2.2	9
67	Characteristic MRI Findings of Spinal Metastases from Various Primary Cancers: Retrospective Study of Pathologically-Confirmed Cases. <i>Journal of the Korean Society of Magnetic Resonance in Medicine</i> , 2013, 17, 8.	0.1	9
68	Metabolite-selective hyperpolarized <sup>13</sup> C imaging using extended chemical shift displacement at 9.4 T. <i>Magnetic Resonance Imaging</i> , 2016, 34, 535-540.	1.8	9
69	A case report of xanthogranulomatous osteomyelitis of the distal ulna mimicking a malignant neoplasm. <i>American Journal of Case Reports</i> , 2013, 14, 304-307.	0.8	8
70	Quantification of superparamagnetic iron oxide-mediated signal intensity change in patients with liver cirrhosis using T2 and T2* mapping: A preliminary report. <i>Journal of Magnetic Resonance Imaging</i> , 2010, 31, 1379-1386.	3.4	7
71	Quantitative Assessment of Tumor Responses after Radiation Therapy in a DLD-1 Colon Cancer Mouse Model Using Serial Dynamic Contrast-Enhanced Magnetic Resonance Imaging. <i>Yonsei Medical Journal</i> , 2012, 53, 1147.	2.2	7
72	KML001 Displays Vascular Disrupting Properties and Irinotecan Combined Antitumor Activities in a Murine Tumor Model. <i>PLoS ONE</i> , 2013, 8, e53900.	2.5	7

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73	Dual-Energy Computed Tomography Arthrography of the Shoulder Joint Using Virtual Monochromatic Spectral Imaging: Optimal Dose of Contrast Agent and Monochromatic Energy Level. Korean Journal of Radiology, 2014, 15, 746.	3.4	7
74	An indirect method for <i>in vivo</i> T <sub>2</sub> mapping of [ <sup>13</sup> C] pyruvate using hyperpolarized <sup>13</sup> C CSI. NMR in Biomedicine, 2017, 30, e3690.	2.8	7
75	Optimization of T2-weighted imaging for shoulder magnetic resonance arthrography by synthetic magnetic resonance imaging. Acta Radiologica, 2018, 59, 959-965.	1.1	6
76	Offset of apparent hyperpolarized <sup>13</sup> C lactate flux by the use of adjuvant metformin in ionizing radiation therapy <i>in vivo</i> . NMR in Biomedicine, 2021, 34, e4561.	2.8	5
77	Quantitative Computed Tomography (QCT) as a Radiology Reporting Tool by Using Optical Character Recognition (OCR) and Macro Program. Journal of Digital Imaging, 2012, 25, 815-818.	2.9	4
78	<sup>18</sup> F-fluoride PET imaging in a nude rat model of bone metastasis from breast cancer: Comparison with <sup>18</sup> F-FDG and bioluminescence imaging. Nuclear Medicine and Biology, 2015, 42, 728-733.	0.6	4
79	Flow-suppressed hyperpolarized <sup>13</sup> C chemical shift imaging using velocity-optimized bipolar gradient in mouse liver tumors at 9.4 T. Magnetic Resonance in Medicine, 2017, 78, 1674-1682.	3.0	4
80	Dynamic hyperpolarized <sup>13</sup> C MR spectroscopic imaging using SPICE in mouse kidney at 9.4 T. NMR in Biomedicine, 2020, 33, e4230.	2.8	4
81	Accelerated metallic artifact reduction imaging using spectral bin modulation of multiacquisition variable-resonance image combination selective imaging. Magnetic Resonance Imaging, 2020, 72, 19-24.	1.8	4
82	Cancer-Targeted MR Molecular Imaging. Journal of the Korean Medical Association, 2009, 52, 121.	0.3	4
83	Comparison of T2 <sup>*</sup> mapping between regular echo time and ultrashort echo time with 3D cones at 3 tesla for knee meniscus. Medicine (United States), 2018, 97, e13443.	1.0	3
84	Optimization of MRI Protocol for the Musculoskeletal System. Journal of the Korean Society of Radiology, 2020, 81, 21.	0.2	3
85	Determination of Optimal Imaging Mode for Ultrasonographic Detection of Subdermal Contraceptive Rods: Comparison of Spatial Compound, Conventional, and Tissue Harmonic Imaging Methods. Korean Journal of Radiology, 2012, 13, 602.	3.4	2
86	Quantitative Assessment and Ligament Traceability of Volume Isotropic Turbo Spin Echo Acquisition (VISTA) Ankle Magnetic Resonance Imaging: Fat Suppression versus without Fat Suppression. Journal of the Korean Society of Magnetic Resonance in Medicine, 2013, 17, 110.	0.1	2
87	Determination of Optimal Scan Time for the Measurement of Downstream Metabolites in Hyperpolarized <sup>13</sup> C MRSI. Investigative Magnetic Resonance Imaging, 2015, 19, 212.	0.4	1
88	Dual Component Analysis for <i>In Vivo</i> T <sub>2</sub> <sup>*</sup> Decay of Hyperpolarized <sup>13</sup> C Metabolites. Investigative Magnetic Resonance Imaging, 2017, 21, 1.	0.4	1
89	The Utility of Modified Dixon Turbo Spin Echo Shoulder Magnetic Resonance Arthrography in Assessing Rotator Cuff Disorder and Evaluating the Rotator Cuff Muscles. Academic Radiology, 2021, 28, 233-242.	2.5	1
90	A Bone Metastasis Nude Mouse Model Created by Ultrasound Guided Intracardiac Injection of Breast Cancer Cells: the Micro-CT, MRI and Bioluminescence Imaging Analysis. Journal of the Korean Society of Radiology, 2011, 64, 57.	0.2	0

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91	Alternating Acquisition Technique for Quantification of in vitro Hyperpolarized [1-13C] Pyruvate Metabolism. Investigative Magnetic Resonance Imaging, 2016, 20, 53.	0.4	0