

# Ho-Taek Song

## 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.

92  
papers

6,192  
citations

25  
h-index

78  
g-index

92  
ext. papers

6,730  
ext. citations

5.6  
avg, IF

5.12  
L-index

| #  | Paper   | IF   | Citations |
|----|---|------|-----------|
| 92 | Artificially engineered magnetic nanoparticles for ultra-sensitive molecular imaging. <i>Nature Medicine</i> , <b>2007</b> , 13, 95-9   | 50.5 | 1583      |
| 91 | Nanoscale size effect of magnetic nanocrystals and their utilization for cancer diagnosis via magnetic resonance imaging. <i>Journal of the American Chemical Society</i> , <b>2005</b> , 127, 5732-3   | 16.4 | 1034      |
| 90 | In vivo magnetic resonance detection of cancer by using multifunctional magnetic nanocrystals. <i>Journal of the American Chemical Society</i> , <b>2005</b> , 127, 12387-91  | 16.4 | 768       |
| 89 | Overcoming artifacts from metallic orthopedic implants at high-field-strength MR imaging and multi-detector CT. <i>Radiographics</i> , <b>2007</b> , 27, 791-803  | 5.4  | 394       |
| 88 | 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> , <b>2005</b> , 127, 9992-3  | 16.4 | 287       |
| 87 | Self-confirming "AND" logic nanoparticles for fault-free MRI. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 11015-7  | 16.4 | 234       |
| 86 | Metal artefact reduction in gemstone spectral imaging dual-energy CT with and without metal artefact reduction software. <i>European Radiology</i> , <b>2012</b> , 22, 1331-40  | 8    | 196       |
| 85 | Triand T <sub>1</sub> dual-mode MRI contrast agent for enhancing accuracy by engineered nanomaterials. <i>ACS Nano</i> , <b>2014</b> , 8, 3393-401  | 16.7 | 162       |
| 84 | Scoliosis imaging: what radiologists should know. <i>Radiographics</i> , <b>2010</b> , 30, 1823-42  | 5.4  | 119       |
| 83 | 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> , <b>2007</b> , 17, 509-22               | 8    | 90        |
| 82 | Binary mixing of micelles using Pluronics for a nano-sized drug delivery system. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2011</b> , 82, 190-5  | 6    | 86        |
| 81 | 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> , <b>2007</b> , 17, 139-49 | 8    | 73        |
| 80 | 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> , <b>2013</b> , 31, 221-6                            | 3.3  | 67        |
| 79 | Definition of ubiquitination modulator COP1 as a novel therapeutic target in human hepatocellular carcinoma. <i>Cancer Research</i> , <b>2010</b> , 70, 8264-9  | 10.1 | 58        |
| 78 | 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> , <b>2017</b> , 113, 467-479   | 5.5  | 54        |
| 77 | Morton neuroma: evaluated with ultrasonography and MR imaging. <i>Korean Journal of Radiology</i> , <b>2007</b> , 8, 148-55   | 6.9  | 49        |
| 76 | Rat model of metastatic breast cancer monitored by MRI at 3 tesla and bioluminescence imaging with histological correlation. <i>Journal of Translational Medicine</i> , <b>2009</b> , 7, 88   | 8.5  | 48        |

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|----|--|------|----|
| 75 | Usefulness of slice encoding for metal artifact correction (SEMAC) for reducing metallic artifacts in 3-T MRI. <i>Magnetic Resonance Imaging</i> , <b>2013</b> , 31, 703-6   | 3.3  | 40 |
| 74 | 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> , <b>2006</b> , 23, 29-35  | 5.6  | 38 |
| 73 | 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> , <b>2007</b> , 242, 225-35  | 20.5 | 38 |
| 72 | In vivo MR imaging of tissue-engineered human mesenchymal stem cells transplanted to mouse: a preliminary study. <i>Annals of Biomedical Engineering</i> , <b>2007</b> , 35, 101-8   | 4.7  | 36 |
| 71 | Synovitis and soft tissue impingement of the ankle: assessment with enhanced three-dimensional FSPGR MR imaging. <i>Journal of Magnetic Resonance Imaging</i> , <b>2004</b> , 19, 108-16   | 5.6  | 31 |
| 70 | 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> , <b>2015</b> , 6, e1844   | 9.8  | 29 |
| 69 | 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> , <b>2015</b> , 16, 1086-95   | 6.9  | 29 |
| 68 | Four-dimensional real-time cine images of wrist joint kinematics using dual source CT with minimal time increment scanning. <i>Yonsei Medical Journal</i> , <b>2013</b> , 54, 1026-32  | 3    | 25 |
| 67 | The safe establishment of a transeptal portal in the posterior knee. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , <b>2011</b> , 19, 1320-5  | 5.5  | 22 |
| 66 | 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> , <b>2015</b> , 22, 909-17  | 4.3  | 20 |
| 65 | Ultrasonography reveals a high prevalence of lower spinal dysraphism in children with urogenital anomalies. <i>Acta Anaesthesiologica Scandinavica</i> , <b>2012</b> , 56, 624-8   | 1.9  | 20 |
| 64 | The role of orexin in post-stroke inflammation, cognitive decline, and depression. <i>Molecular Brain</i> , <b>2015</b> , 8, 16  | 4.5  | 20 |
| 63 | Correlations of 3T DCE-MRI quantitative parameters with microvessel density in a human-colorectal-cancer xenograft mouse model. <i>Korean Journal of Radiology</i> , <b>2011</b> , 12, 722-30  | 6.9  | 20 |
| 62 | Differentiation between focal malignant marrow-replacing lesions and benign red marrow deposition of the spine with T2*-corrected fat-signal fraction map using a three-echo volume interpolated breath-hold gradient echo Dixon sequence. <i>Korean Journal of Radiology</i> , <b>2014</b> , 15, 781-91 | 6.9  | 19 |
| 61 | Rapid acquisition of magnetic resonance imaging of the shoulder using three-dimensional fast spin echo sequence with compressed sensing. <i>Magnetic Resonance Imaging</i> , <b>2017</b> , 42, 152-157   | 3.3  | 18 |
| 60 | MicroRNA-200 family members and ZEB2 are associated with brain metastasis in gastric adenocarcinoma. <i>International Journal of Oncology</i> , <b>2014</b> , 45, 2403-10  | 4.4  | 17 |
| 59 | A nanosized delivery system of superparamagnetic iron oxide for tumor MR imaging. <i>International Journal of Pharmaceutics</i> , <b>2012</b> , 439, 342-8   | 6.5  | 17 |
| 58 | 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> , <b>2016</b> , 144, 73-80   | 6    | 17 |

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|----|--|-----|----|
| 57 | Quantitative T Mapping of Knee Cartilage: Comparison between the Synthetic MR Imaging and the CPMG Sequence. <i>Magnetic Resonance in Medical Sciences</i> , <b>2018</b> , 17, 344-349   | 2.9 | 16 |
| 56 | Weighted subtraction in 3D ultrashort echo time (UTE) imaging for visualization of short T2 tissues of the knee. <i>Acta Radiologica</i> , <b>2014</b> , 55, 454-61  | 2   | 16 |
| 55 | Response evaluation of giant-cell tumor of bone treated by denosumab: Histogram and texture analysis of CT images. <i>Journal of Orthopaedic Science</i> , <b>2018</b> , 23, 570-577   | 1.6 | 15 |
| 54 | Intracellular translocation of superparamagnetic iron oxide nanoparticles encapsulated with peptide-conjugated poly(D,L lactide-co-glycolide). <i>Journal of Applied Physics</i> , <b>2005</b> , 97, 10Q913  | 2.5 | 15 |
| 53 | Optimizing reproducibility of operant testing through reinforcer standardization: identification of key nutritional constituents determining reward strength in touchscreens. <i>Molecular Brain</i> , <b>2017</b> , 10, 31                            | 4.5 | 14 |
| 52 | Feasibility of fat-saturated T2-weighted magnetic resonance imaging with slice encoding for metal artifact correction (SEMAC) at 3T. <i>Magnetic Resonance Imaging</i> , <b>2014</b> , 32, 1001-5  | 3.3 | 13 |
| 51 | Distinguishing hemangiomas from malignant solid hepatic lesions: a comparison of heavily T2-weighted images obtained before and after administration of gadoxetic acid. <i>Journal of Magnetic Resonance Imaging</i> , <b>2011</b> , 34, 310-7         | 5.6 | 13 |
| 50 | Simultaneous acquisition of perfusion and permeability from corrected relaxation rates with dynamic susceptibility contrast dual gradient echo. <i>Magnetic Resonance Imaging</i> , <b>2004</b> , 22, 307-14   | 3.3 | 13 |
| 49 | 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> , <b>2005</b> , 6, 117-24              | 6.9 | 13 |
| 48 | Agmatine Ameliorates High Glucose-Induced Neuronal Cell Senescence by Regulating the p21 and p53 Signaling. <i>Experimental Neurobiology</i> , <b>2016</b> , 25, 24-32   | 4   | 13 |
| 47 | 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> , <b>2016</b> , 57, 66-73   | 2   | 12 |
| 46 | Physicochemical characterizations of amphiphilic block copolymers with different MWs and micelles for development of anticancer drug nanocarriers. <i>Macromolecular Research</i> , <b>2012</b> , 20, 944-953  | 1.9 | 12 |
| 45 | Quantitative T2* imaging of metastatic human breast cancer to brain in the nude rat at 3 T. <i>NMR in Biomedicine</i> , <b>2011</b> , 24, 325-34   | 4.4 | 12 |
| 44 | Enhanced stem cell tracking via electrostatically assembled fluorescent SPION-peptide complexes. <i>Nanotechnology</i> , <b>2009</b> , 20, 355102  | 3.4 | 12 |
| 43 | Clinical Feasibility of Synthetic Magnetic Resonance Imaging in the Diagnosis of Internal Derangements of the Knee. <i>Korean Journal of Radiology</i> , <b>2018</b> , 19, 311-319   | 6.9 | 12 |
| 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> , <b>2013</b> , 82, 2296-302 | 4.7 | 11 |
| 41 | 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> , <b>2015</b> , 56, 458-64                                   | 2   | 11 |
| 40 | 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> , <b>2012</b> , 81, 2783-7                                    | 4.7 | 11 |

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|----|---|-----|----|
| 39 | Focal eosinophilic infiltration of the liver: gadoteric acid-enhanced magnetic resonance imaging and diffusion-weighted imaging. <i>Journal of Computer Assisted Tomography</i> , <b>2011</b> , 35, 81-5  | 2.2 | 11 |
| 38 | EPIX is critical for transplanted mesenchymal stromal cell migration. <i>Stem Cells and Development</i> , <b>2012</b> , 21, 1989-99   | 4.4 | 11 |
| 37 | 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> , <b>2018</b> , 27, 277-286   | 4   | 11 |
| 36 | Arsenic Trioxide as a Vascular Disrupting Agent: Synergistic Effect with Irinotecan on Tumor Growth Delay in a CT26 Allograft Model. <i>Translational Oncology</i> , <b>2013</b> , 6, 83-91   | 4.9 | 10 |
| 35 | 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> , <b>2009</b> , 192, W149-55  | 5.4 | 10 |
| 34 | 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> , <b>2019</b> , 29, 2573-2580                    | 8   | 10 |
| 33 | 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> , <b>2019</b> , 112, 52-58 | 4.7 | 9  |
| 32 | Metabolite-selective hyperpolarized ( <sup>13</sup> C) imaging using extended chemical shift displacement at 9.4T. <i>Magnetic Resonance Imaging</i> , <b>2016</b> , 34, 535-40   | 3.3 | 9  |
| 31 | High resolution hyperpolarized C MRSI using SPICE at 9.4T. <i>Magnetic Resonance in Medicine</i> , <b>2018</b> , 80, 703-710  | 4.4 | 8  |
| 30 | Hyperpolarized [1- <sup>13</sup> C]lactate flux increased in the hippocampal region in diabetic mice. <i>Molecular Brain</i> , <b>2019</b> , 12, 88   | 4.5 | 8  |
| 29 | Use of strain ratio in evaluating superficial soft tissue tumors on ultrasonic elastography. <i>Journal of Medical Ultrasonics (2001)</i> , <b>2014</b> , 41, 319-23  | 1.4 | 8  |
| 28 | Impairment of insulin receptor substrate 1 signaling by insulin resistance inhibits neurite outgrowth and aggravates neuronal cell death. <i>Neuroscience</i> , <b>2015</b> , 301, 26-38  | 3.9 | 7  |
| 27 | Magnetic resonance arthrographic dissection of posterolateral corner of the knee: revealing the meniscofibular ligament. <i>Yonsei Medical Journal</i> , <b>2012</b> , 53, 820-4  | 3   | 7  |
| 26 | 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> , <b>2013</b> , 17, 8                        |     | 7  |
| 25 | Hyperpolarized [1- <sup>13</sup> C] pyruvate MR spectroscopy detect altered glycolysis in the brain of a cognitively impaired mouse model fed high-fat diet. <i>Molecular Brain</i> , <b>2018</b> , 11, 74  | 4.5 | 7  |
| 24 | An indirect method for in vivo T mapping of [1- <sup>13</sup> C] pyruvate using hyperpolarized C CSI. <i>NMR in Biomedicine</i> , <b>2017</b> , 30, e3690   | 4.4 | 6  |
| 23 | Dual-energy computed tomography arthrography of the shoulder joint using virtual monochromatic spectral imaging: optimal dose of contrast agent and monochromatic energy level. <i>Korean Journal of Radiology</i> , <b>2014</b> , 15, 746-56             | 6.9 | 6  |
| 22 | 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> , <b>2012</b> , 53, 1147-53                       | 3   | 6  |

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|----|--|-----|---|
| 21 | KML001 displays vascular disrupting properties and irinotecan combined antitumor activities in a murine tumor model. <i>PLoS ONE</i> , <b>2013</b> , 8, e53900   | 3.7 | 6 |
| 20 | 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> , <b>2010</b> , 31, 1379-86  | 5.6 | 6 |
| 19 | A case report of xanthogranulomatous osteomyelitis of the distal ulna mimicking a malignant neoplasm. <i>American Journal of Case Reports</i> , <b>2013</b> , 14, 304-7  | 1.3 | 5 |
| 18 | Flow-suppressed hyperpolarized C chemical shift imaging using velocity-optimized bipolar gradient in mouse liver tumors at 9.4 T. <i>Magnetic Resonance in Medicine</i> , <b>2017</b> , 78, 1674-1682  | 4.4 | 3 |
| 17 | (18)F-fluoride PET imaging in a nude rat model of bone metastasis from breast cancer: Comparison with (18)F-FDG and bioluminescence imaging. <i>Nuclear Medicine and Biology</i> , <b>2015</b> , 42, 728-33  | 2.1 | 3 |
| 16 | Quantitative computed tomography (QCT) as a radiology reporting tool by using optical character recognition (OCR) and macro program. <i>Journal of Digital Imaging</i> , <b>2012</b> , 25, 815-8   | 5.3 | 3 |
| 15 | Cancer-Targeted MR Molecular Imaging. <i>Journal of the Korean Medical Association</i> , <b>2009</b> , 52, 121   | 0.5 | 3 |
| 14 | Dynamic hyperpolarized C MR spectroscopic imaging using SPICE in mouse kidney at 9.4 T. <i>NMR in Biomedicine</i> , <b>2020</b> , 33, e4230  | 4.4 | 3 |
| 13 | Optimization of T2-weighted imaging for shoulder magnetic resonance arthrography by synthetic magnetic resonance imaging. <i>Acta Radiologica</i> , <b>2018</b> , 59, 959-965  | 2   | 3 |
| 12 | Comparison of T2* mapping between regular echo time and ultrashort echo time with 3D cones at 3 tesla for knee meniscus. <i>Medicine (United States)</i> , <b>2018</b> , 97, e13443  | 1.8 | 3 |
| 11 | Determination of optimal imaging mode for ultrasonographic detection of subdermal contraceptive rods: comparison of spatial compound, conventional, and tissue harmonic imaging methods. <i>Korean Journal of Radiology</i> , <b>2012</b> , 13, 602-9                                      | 6.9 | 2 |
| 10 | Quantitative Assessment and Ligament Traceability of Volume Isotropic Turbo Spin Echo Acquisition (VISTA) Ankle Magnetic Resonance Imaging: Fat Suppression versus without Fat Suppression. <i>Journal of the Korean Society of Magnetic Resonance in Medicine</i> , <b>2013</b> , 17, 110 |     | 2 |
| 9  | Offset of apparent hyperpolarized C lactate flux by the use of adjuvant metformin in ionizing radiation therapy in vivo. <i>NMR in Biomedicine</i> , <b>2021</b> , 34, e4561   | 4.4 | 2 |
| 8  | Accelerated metallic artifact reduction imaging using spectral bin modulation of multiacquisition variable-resonance image combination selective imaging. <i>Magnetic Resonance Imaging</i> , <b>2020</b> , 72, 19-24  | 3.3 | 1 |
| 7  | Dual Component Analysis for In Vivo T2 * Decay of Hyperpolarized 13C Metabolites <b>2017</b> , 21, 1   |     | 1 |
| 6  | Determination of Optimal Scan Time for the Measurement of Downstream Metabolites in Hyperpolarized 13C MRSI <b>2015</b> , 19, 212  |     | 1 |
| 5  | Optimization of MRI Protocol for the Musculoskeletal System. <i>Journal of the Korean Society of Radiology</i> , <b>2020</b> , 81, 21  | 0.2 | 1 |
| 4  | The Utility of Modified Dixon Turbo Spin Echo Shoulder Magnetic Resonance Arthrography in Assessing Rotator Cuff Disorder and Evaluating the Rotator Cuff Muscles. <i>Academic Radiology</i> , <b>2021</b> , 28, 233-242   | 4.3 | 1 |

- 3 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
- 2 Alternating Acquisition Technique for Quantification of in vitro Hyperpolarized [1-13C] Pyruvate Metabolism **2016**, 20, 53
- 1 Correction: 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*, **2022**, 83, 750 0.2