

# Koichi Masuda

## List of Publications by Year in descending order

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Version: 2024-02-01

58  
papers

3,239  
citations

257450

24  
h-index

155660

55  
g-index

60  
all docs

60  
docs citations

60  
times ranked

3163  
citing authors

#	ARTICLE	IF	CITATIONS
1	Comprehensive assessment of in vivo lumbar spine intervertebral discs using a 3D adiabatic T1 $\rho$ -prepared ultrashort echo time (UTE-Adiab-T1 $\rho$ ) pulse sequence. Quantitative Imaging in Medicine and Surgery, 2022, 12, 269-280.	2.0	7
2	Progression of muscle loss and fat accumulation in a rabbit model of rotator cuff tear. Journal of Orthopaedic Research, 2022, 40, 1016-1025.	2.3	9
3	Delayed notochordal cell disappearance through integrin $\alpha$ 5 $\beta$ 1 mechanotransduction during ex vivo dynamic loading-induced intervertebral disc degeneration. Journal of Orthopaedic Research, 2021, 39, 1933-1944.	2.3	14
4	Three-dimensional computed tomographic evaluation of lateral lumbar interbody fusion: morphometric change of intervertebral structure. European Spine Journal, 2021, 30, 1355-1364.	2.2	4
5	A guide to reducing adverse outcomes in rabbit models of sciatic nerve injury. Laboratory Animal Research, 2021, 37, 13.	2.5	4
6	High-contrast osteochondral junction imaging using a 3D dual adiabatic inversion recovery-prepared ultrashort echo time cones sequence. NMR in Biomedicine, 2021, 34, e4559.	2.8	7
7	A perspective on the <sc><i>ORS Spine Section</i></sc> initiative to develop a multi-species <sc><i>JOR Spine</i></sc> histopathology series. JOR Spine, 2021, 4, e1165.	3.2	2
8	Development of a standardized histopathology scoring system for intervertebral disc degeneration and regeneration in rabbit models-An initiative of the <sc>ORS</sc> spine section. JOR Spine, 2021, 4, e1147.	3.2	11
9	High contrast cartilaginous endplate imaging using a 3D adiabatic inversion-recovery-prepared fat-saturated ultrashort echo time (3D IR-FS-UTE) sequence. NMR in Biomedicine, 2021, 34, e4579.	2.8	6
10	Prevalence of radiographic hip dysplasia in Japanese population-based study. Modern Rheumatology, 2021, , 1-6.	1.8	0
11	High-Contrast Lumbar Spinal Bone Imaging Using a 3D Slab-Selective UTE Sequence. Frontiers in Endocrinology, 2021, 12, 800398.	3.5	8
12	Intradiscal injection of monosodium iodoacetate induces intervertebral disc degeneration in an experimental rabbit model. Arthritis Research and Therapy, 2021, 23, 297.	3.5	6
13	Role of Curcuminoids and Tricalcium Phosphate Ceramic in Rat Spinal Fusion. Tissue Engineering - Part C: Methods, 2020, 26, 577-589.	2.1	2
14	A novel magnetic resonance imaging postprocessing technique for the assessment of intervertebral disc degeneration-Correlation with histological grading in a rabbit disc degeneration model. JOR Spine, 2019, 2, e1060.	3.2	1
15	&lt;p&gt;Platelet-rich plasma in the management of chronic low back pain: a critical review&lt;/p&gt;. Journal of Pain Research, 2019, Volume 12, 753-767.	2.0	49
16	ISSLS PRIZE IN BASIC SCIENCE 2018: Growth differentiation factor-6 attenuated pro-inflammatory molecular changes in the rabbit anular-puncture model and degenerated disc-induced pain generation in the rat xenograft radiculopathy model. European Spine Journal, 2018, 27, 739-751.	2.2	27
17	Strains in trussed spine interbody fusion implants are modulated by load and design. Journal of the Mechanical Behavior of Biomedical Materials, 2018, 80, 203-208.	3.1	5
18	Novel magnetic resonance technique for characterizing mesoscale structure of trabecular bone. Royal Society Open Science, 2018, 5, 180563.	2.4	4

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19	Semi-Automatic Segmentation of Vertebral Bodies in MR Images of Human Lumbar Spines. Applied Sciences (Switzerland), 2018, 8, 1586.	2.5	17
20	Fine-Grain Segmentation of the Intervertebral Discs from MR Spine Images Using Deep Convolutional Neural Networks: BSU-Net. Applied Sciences (Switzerland), 2018, 8, 1656.	2.5	39
21	Short Link N promotes disc repair in a rabbit model of disc degeneration. Arthritis Research and Therapy, 2018, 20, 201.	3.5	13
22	FOXO are required for intervertebral disk homeostasis during aging and their deficiency promotes disk degeneration. Aging Cell, 2018, 17, e12800.	6.7	59
23	Morphology of intervertebral disc ruptures evaluated by vacuum phenomenon using multi-detector computed tomography: association with lumbar disc degeneration and canal stenosis. BMC Musculoskeletal Disorders, 2018, 19, 164.	1.9	34
24	Age-related reduction in the expression of FOXO transcription factors and correlations with intervertebral disc degeneration. Journal of Orthopaedic Research, 2017, 35, 2682-2691.	2.3	60
25	Three-dimensional micro-computed tomography analysis for spinal instability after lumbar facetectomy in the rat. European Spine Journal, 2017, 26, 2014-2020.	2.2	8
26	RANK/RANKL/OPG system in the intervertebral disc. Arthritis Research and Therapy, 2017, 19, 121.	3.5	19
27	Intradiscal Injection of Autologous Platelet-Rich Plasma Releasate to Treat Discogenic Low Back Pain: A Preliminary Clinical Trial. Asian Spine Journal, 2017, 11, 380-389.	2.0	89
28	Quantitative magnetic resonance imaging of the lumbar intervertebral discs. Quantitative Imaging in Medicine and Surgery, 2016, 6, 744-755.	2.0	22
29	CD146 defines commitment of cultured annulus fibrosus cells to express a contractile phenotype. Journal of Orthopaedic Research, 2016, 34, 1361-1372.	2.3	28
30	Effect of hyaluronidase on tissue-engineered human septal cartilage. Laryngoscope, 2016, 126, 1984-1989.	2.0	3
31	Hyaluronan concentration and size distribution in human knee synovial fluid: variations with age and cartilage degeneration. Arthritis Research and Therapy, 2016, 18, 18.	3.5	94
32	Specific bone region localization of osteolytic versus osteoblastic lesions in a patient-derived xenograft model of bone metastatic prostate cancer. Asian Journal of Urology, 2016, 3, 229-239.	1.2	6
33	Ex vivo loading of trussed implants for spine fusion induces heterogeneous strains consistent with homeostatic bone mechanobiology. Journal of Biomechanics, 2016, 49, 4090-4097.	2.1	12
34	Evaluation of the disco-vertebral junction using ultrashort time-to-echo magnetic resonance imaging: inter-reader agreement and association with vertebral endplate lesions. Skeletal Radiology, 2016, 45, 1249-1256.	2.0	14
35	Synthetic bone mimetic matrix-mediated in situ bone tissue formation through host cell recruitment. Acta Biomaterialia, 2015, 19, 1-9.	8.3	21
36	Transplantation of Tissue-Engineered Cartilage in an Animal Model (Xenograft and Autograft): Construct Validation. Methods in Molecular Biology, 2015, 1340, 247-259.	0.9	1

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37	Evaluation of Autogenous Engineered Septal Cartilage Grafts in Rabbits: A Minimally Invasive Preclinical Model. <i>Advances in Otolaryngology</i> , 2014, 2014, 1-7.	1.1	6
38	Micro-Computed Tomography-Based Three-Dimensional Kinematic Analysis During Lateral Bending for Spinal Fusion Assessment in a Rat Posterolateral Lumbar Fusion Model. <i>Tissue Engineering - Part C: Methods</i> , 2014, 20, 578-587.	2.1	9
39	Proton density water fraction as a biomarker of bone marrow cellularity: Validation in ex vivo spine specimens. <i>Magnetic Resonance Imaging</i> , 2014, 32, 1097-1101.	1.8	26
40	Neurotrophin Suppresses Inflammatory Cytokine Expression and Cell Death through Suppression of NF- $\kappa$ B and JNK in Hepatocytes. <i>PLoS ONE</i> , 2014, 9, e114071.	2.5	16
41	10.4172/2324-8785.1000172. <i>Journal of Otology &amp; Rhinology</i> , 2014, 03, .	0.1	1
42	Effect of scaffold microarchitecture on osteogenic differentiation of human mesenchymal stem cells. , 2013, 25, 114-129.		76
43	The biophysical mechanisms of altered hyaluronan concentration in synovial fluid after anterior cruciate ligament transection. <i>Arthritis and Rheumatism</i> , 2012, 64, 3993-4003.	6.7	13
44	Effect of autologous platelet-rich plasma-releasate on intervertebral disc degeneration in the rabbit anular puncture model: a preclinical study. <i>Arthritis Research and Therapy</i> , 2012, 14, R241.	3.5	100
45	The efficacy of Link N as a mediator of repair in a rabbit model of intervertebral disc degeneration. <i>Arthritis Research and Therapy</i> , 2011, 13, R120.	3.5	71
46	New Challenges for Intervertebral Disc Treatment Using Regenerative Medicine. <i>Tissue Engineering - Part B: Reviews</i> , 2010, 16, 147-158.	4.8	63
47	Biological repair of the degenerated intervertebral disc by the injection of growth factors. <i>European Spine Journal</i> , 2008, 17, 441-451.	2.2	175
48	Proinflammatory Cytokines Stimulate the Expression of Nerve Growth Factor by Human Intervertebral Disc Cells. <i>Spine</i> , 2007, 32, 635-642.	2.0	143
49	Axonal Growth Potential of Lumbar Dorsal Root Ganglion Neurons in an Organ Culture System. <i>Spine</i> , 2007, 32, 857-863.	2.0	30
50	Osteogenic Protein-1 Injection Into a Degenerated Disc Induces the Restoration of Disc Height and Structural Changes in the Rabbit Anular Puncture Model. <i>Spine</i> , 2006, 31, 742-754.	2.0	248
51	Platelet-Rich Plasma (PRP) Stimulates the Extracellular Matrix Metabolism of Porcine Nucleus Pulposus and Anulus Fibrosus Cells Cultured in Alginate Beads. <i>Spine</i> , 2006, 31, 959-966.	2.0	120
52	Effects of Growth Differentiation Factor-5 on the Intervertebral DiscâIn Vitro Bovine Study and In Vivo Rabbit Disc Degeneration Model Study. <i>Spine</i> , 2006, 31, 2909-2917.	2.0	188
53	Nerve Fiber Ingrowth Into Scar Tissue Formed Following Nucleus Pulposus Extrusion in the Rabbit Anular-Puncture Disc Degeneration Model: Effects of Depth of Puncture. <i>Spine</i> , 2006, 31, E774-E780.	2.0	63
54	A Novel Rabbit Model of Mild, Reproducible Disc Degeneration by an Anulus Needle Puncture: Correlation Between the Degree of Disc Injury and Radiological and Histological Appearances of Disc Degeneration. <i>Spine</i> , 2005, 30, 5-14.	2.0	566

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55	Animal models for human disc degeneration. Spine Journal, 2005, 5, S267-S279.	1.3	138
56	Tissue-Engineered Human Nasal Septal Cartilage Using the Alginate-Recovered-Chondrocyte Method. Laryngoscope, 2004, 114, 38-45.	2.0	62
57	Growth Factors and Treatment of Intervertebral Disc Degeneration. Spine, 2004, 29, 2757-2769.	2.0	180
58	A novel two-step method for the formation of tissue-engineered cartilage by mature bovine chondrocytes: The alginate-recovered-chondrocyte (ARC) method. Journal of Orthopaedic Research, 2003, 21, 139-148.	2.3	238