

Koichi Masuda

List of Publications by Year in descending order

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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	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
2	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
3	A novel two-step method for the formation of tissue-engineered cartilage by mature bovine chondrocytes: The alginate-recovered-chondrocyte (ARC) method. <i>Journal of Orthopaedic Research</i> , 2003, 21, 139-148.	2.3	238
4	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
5	Growth Factors and Treatment of Intervertebral Disc Degeneration. <i>Spine</i> , 2004, 29, 2757-2769.	2.0	180
6	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
7	Proinflammatory Cytokines Stimulate the Expression of Nerve Growth Factor by Human Intervertebral Disc Cells. <i>Spine</i> , 2007, 32, 635-642.	2.0	143
8	Animal models for human disc degeneration. <i>Spine Journal</i> , 2005, 5, S267-S279.	1.3	138
9	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
10	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
11	Hyaluronan concentration and size distribution in human knee synovial fluid: variations with age and cartilage degeneration. <i>Arthritis Research and Therapy</i> , 2016, 18, 18.	3.5	94
12	Intradiscal Injection of Autologous Platelet-Rich Plasma Releasate to Treat Discogenic Low Back Pain: A Preliminary Clinical Trial. <i>Asian Spine Journal</i> , 2017, 11, 380-389.	2.0	89
13	Effect of scaffold microarchitecture on osteogenic differentiation of human mesenchymal stem cells. , 2013, 25, 114-129.		76
14	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
15	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
16	New Challenges for Intervertebral Disc Treatment Using Regenerative Medicine. <i>Tissue Engineering - Part B: Reviews</i> , 2010, 16, 147-158.	4.8	63
17	Tissue-Engineered Human Nasal Septal Cartilage Using the Alginate-Recovered-Chondrocyte Method. <i>Laryngoscope</i> , 2004, 114, 38-45.	2.0	62
18	Ageâ€related reduction in the expression of FOXO transcription factors and correlations with intervertebral disc degeneration. <i>Journal of Orthopaedic Research</i> , 2017, 35, 2682-2691.	2.3	60

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19	FOXO are required for intervertebral disk homeostasis during aging and their deficiency promotes disk degeneration. <i>Aging Cell</i> , 2018, 17, e12800.	6.7	59
20	<p>Platelet-rich plasma in the management of chronic low back pain: a critical review</p>. <i>Journal of Pain Research</i> , 2019, Volume 12, 753-767.	2.0	49
21	Fine-Grain Segmentation of the Intervertebral Discs from MR Spine Images Using Deep Convolutional Neural Networks: BSU-Net. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 1656.	2.5	39
22	Morphology of intervertebral disc ruptures evaluated by vacuum phenomenon using multi-detector computed tomography: association with lumbar disc degeneration and canal stenosis. <i>BMC Musculoskeletal Disorders</i> , 2018, 19, 164.	1.9	34
23	Axonal Growth Potential of Lumbar Dorsal Root Ganglion Neurons in an Organ Culture System. <i>Spine</i> , 2007, 32, 857-863.	2.0	30
24	CD146 defines commitment of cultured annulus fibrosus cells to express a contractile phenotype. <i>Journal of Orthopaedic Research</i> , 2016, 34, 1361-1372.	2.3	28
25	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. <i>European Spine Journal</i> , 2018, 27, 739-751.	2.2	27
26	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
27	Quantitative magnetic resonance imaging of the lumbar intervertebral discs. <i>Quantitative Imaging in Medicine and Surgery</i> , 2016, 6, 744-755.	2.0	22
28	Synthetic bone mimetic matrix-mediated in situ bone tissue formation through host cell recruitment. <i>Acta Biomaterialia</i> , 2015, 19, 1-9.	8.3	21
29	RANK/RANKL/OPG system in the intervertebral disc. <i>Arthritis Research and Therapy</i> , 2017, 19, 121.	3.5	19
30	Semi-Automatic Segmentation of Vertebral Bodies in MR Images of Human Lumbar Spines. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 1586.	2.5	17
31	Neurotrophin Suppresses Inflammatory Cytokine Expression and Cell Death through Suppression of NF- κ B and JNK in Hepatocytes. <i>PLoS ONE</i> , 2014, 9, e114071.	2.5	16
32	Evaluation of the disco-vertebral junction using ultrashort time-to-echo magnetic resonance imaging: inter-reader agreement and association with vertebral endplate lesions. <i>Skeletal Radiology</i> , 2016, 45, 1249-1256.	2.0	14
33	Delayed notochordal cell disappearance through integrin α 5 β 1 mechanotransduction during ex vivo dynamic loading-induced intervertebral disc degeneration. <i>Journal of Orthopaedic Research</i> , 2021, 39, 1933-1944.	2.3	14
34	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
35	Short Link N promotes disc repair in a rabbit model of disc degeneration. <i>Arthritis Research and Therapy</i> , 2018, 20, 201.	3.5	13
36	Ex vivo loading of trussed implants for spine fusion induces heterogeneous strains consistent with homeostatic bone mechanobiology. <i>Journal of Biomechanics</i> , 2016, 49, 4090-4097.	2.1	12

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37	Development of a standardized histopathology scoring system for intervertebral disc degeneration and regeneration in rabbit models—An initiative of the ORS spine section. JOR Spine, 2021, 4, e1147.	3.2	11
38	Micro-Computed Tomography-Based Three-Dimensional Kinematic Analysis During Lateral Bending for Spinal Fusion Assessment in a Rat Posterolateral Lumbar Fusion Model. Tissue Engineering - Part C: Methods, 2014, 20, 578-587.	2.1	9
39	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
40	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
41	High-Contrast Lumbar Spinal Bone Imaging Using a 3D Slab-Selective UTE Sequence. Frontiers in Endocrinology, 2021, 12, 800398.	3.5	8
42	Comprehensive assessment of in vivo lumbar spine intervertebral discs using a 3D adiabatic T1 ρ -prepared ultrashort echo time (UTE-Adiab-T1 ρ) pulse sequence. Quantitative Imaging in Medicine and Surgery, 2022, 12, 269-280.	2.0	7
43	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
44	Evaluation of Autogenous Engineered Septal Cartilage Grafts in Rabbits: A Minimally Invasive Preclinical Model. Advances in Otolaryngology, 2014, 2014, 1-7.	1.1	6
45	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
46	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
47	Intradiscal injection of monosodium iodoacetate induces intervertebral disc degeneration in an experimental rabbit model. Arthritis Research and Therapy, 2021, 23, 297.	3.5	6
48	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
49	Novel magnetic resonance technique for characterizing mesoscale structure of trabecular bone. Royal Society Open Science, 2018, 5, 180563.	2.4	4
50	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
51	A guide to reducing adverse outcomes in rabbit models of sciatic nerve injury. Laboratory Animal Research, 2021, 37, 13.	2.5	4
52	Effect of hyaluronidase on tissue-engineered human septal cartilage. Laryngoscope, 2016, 126, 1984-1989.	2.0	3
53	Role of Curcuminoids and Tricalcium Phosphate Ceramic in Rat Spinal Fusion. Tissue Engineering - Part C: Methods, 2020, 26, 577-589.	2.1	2
54	A perspective on the ORS Spine Section initiative to develop a multi-species JOR Spine histopathology series. JOR Spine, 2021, 4, e1165.	3.2	2

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55	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
56	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
57	10.4172/2324-8785.1000172. Journal of Otology & Rhinology, 2014, 03, .	0.1	1
58	Prevalence of radiographic hip dysplasia in Japanese population-based study. Modern Rheumatology, 2021, , 1-6.	1.8	0