

Masayuki Miyagi

List of Publications by Year in descending order

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Version: 2024-02-01

103
papers

2,348
citations

218677

26
h-index

254184

43
g-index

103
all docs

103
docs citations

103
times ranked

2407
citing authors

#	ARTICLE	IF	CITATIONS
1	Factors associated with pain-related disorders and gait disturbance scores from the Japanese orthopedic association back pain evaluation questionnaire and Oswestry Disability Index in patients with osteoporosis. Archives of Osteoporosis, 2022, 17, 1.	2.4	13
2	Nerve decompression surgery suppresses TNF- α 's expression and T cell infiltration in a rat sciatic nerve chronic constriction injury model. Journal of Orthopaedic Research, 2022, 40, 2537-2545.	2.3	2
3	A High Body Mass Index and the Vacuum Phenomenon Upregulate Pain-Related Molecules in Human Degenerated Intervertebral Discs. International Journal of Molecular Sciences, 2022, 23, 2973.	4.1	5
4	Decreased muscle mass and strength affected spinal sagittal malalignment. European Spine Journal, 2022, 31, 1431-1437.	2.2	2
5	Origin of M2 M ϕ and its macrophage polarization by TGF- β 2 in a mice intervertebral injury model. International Journal of Immunopathology and Pharmacology, 2022, 36, 039463202211037.	2.1	7
6	Impact of obesity on cervical ossification of the posterior longitudinal ligament: a nationwide prospective study. Scientific Reports, 2022, 12, .	3.3	1
7	TNF- α Suppresses Apelin Receptor Expression in Mouse Quadriceps Femoris-Derived Cells. Current Issues in Molecular Biology, 2022, 44, 3146-3155.	2.4	0
8	Role of CD14 α -positive cells in inflammatory cytokine and pain-related molecule expression in human degenerated intervertebral discs. Journal of Orthopaedic Research, 2021, 39, 1755-1762.	2.3	13
9	Technical and Conceptual Review on the L5-S1 Oblique Lateral Interbody Fusion Surgery (OLIF51). Spine Surgery and Related Research, 2021, 5, 1-9.	0.7	11
10	Management of regional bone bank during declaration of a state of emergency concerning the COVID-19 in Japan. Cell and Tissue Banking, 2021, 22, 703-709.	1.1	2
11	Posterior Spinal Correction and Fusion Surgery in Patients with Spinal Muscular Atrophy-Associated Scoliosis for Whom Treatment with Nusinersen Was Planned. Spine Surgery and Related Research, 2021, 5, 109-113.	0.7	4
12	Body Composition in Japanese Girls with Adolescent Idiopathic Scoliosis. Spine Surgery and Related Research, 2021, 5, 68-74.	0.7	12
13	Gender-specific analysis for the association between trunk muscle mass and spinal pathologies. Scientific Reports, 2021, 11, 7816.	3.3	6
14	Improvements in Intractable Lumbar and Lower Extremity Symptoms after Systemic Administration of Tocilizumab, an Anti-interleukin-6 Receptor Antibody. Asian Spine Journal, 2021, , .	2.0	1
15	Prevalence and Characteristics of Spinal Sagittal Malalignment in Patients with Osteoporosis. Journal of Clinical Medicine, 2021, 10, 2827.	2.4	2
16	Possible Regulation of bFGF Expression by Mast Cells in Osteoarthritis Patients with Obesity: A Cross-Sectional Study. Diabetes, Metabolic Syndrome and Obesity: Targets and Therapy, 2021, Volume 14, 3291-3297.	2.4	3
17	Current Advances in Spinal Diseases of the Elderly: Introduction to the Special Issue. Journal of Clinical Medicine, 2021, 10, 3298.	2.4	2
18	Reduced TGF- β 2 Expression and CD206-Positive Resident Macrophages in the Intervertebral Discs of Aged Mice. BioMed Research International, 2021, 2021, 1-7.	1.9	10

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19	Association of occupational direct radiation exposure to the hands with longitudinal melanonychia and hand eczema in spine surgeons: a survey by the society for minimally invasive spinal treatment (MIST). <i>European Spine Journal</i> , 2021, 30, 3702-3708.	2.2	3
20	Factors Significantly Associated with Postoperative Neck Pain Deterioration after Surgery for Cervical Ossification of the Posterior Longitudinal Ligament: Study of a Cohort Using a Prospective Registry. <i>Journal of Clinical Medicine</i> , 2021, 10, 5026.	2.4	3
21	Risk Factor for Poor Patient Satisfaction After Lumbar Spine Surgery in Elderly Patients Aged Over 80 years. <i>Clinical Spine Surgery</i> , 2021, 34, E223-E228.	1.3	6
22	Sequential CCL2 Expression Profile After Disc Injury in Mice. <i>Journal of Orthopaedic Research</i> , 2020, 38, 895-901.	2.3	16
23	Short- versus long-segment posterior spinal fusion with vertebroplasty for osteoporotic vertebral collapse with neurological impairment in thoracolumbar spine: a multicenter study. <i>BMC Musculoskeletal Disorders</i> , 2020, 21, 513.	1.9	7
24	Acceleration of bone union by in situ-formed hydrogel containing bone morphogenetic protein-2 in a mouse refractory fracture model. <i>Journal of Orthopaedic Surgery and Research</i> , 2020, 15, 426.	2.3	5
25	Cervical Hyperextension Treated by Posterior Spinal Correction and Fusion in A Patient with Ullrich Congenital Muscular Dystrophy. <i>JBJS Case Connector</i> , 2020, 10, e0392-e0392.	0.3	2
26	A portable pneumatic compression device to prevent venous thromboembolism in orthopedic patients with the highest risks of both venous thrombosis and bleeding: A case series study. <i>Journal of Orthopaedic Surgery</i> , 2020, 28, 230949902090571.	1.0	7
27	Effect of bisphosphonates or teriparatide on mechanical complications after posterior instrumented fusion for osteoporotic vertebral fracture: a multi-center retrospective study. <i>BMC Musculoskeletal Disorders</i> , 2020, 21, 420.	1.9	15
28	Investigation of resident and recruited macrophages following disc injury in mice. <i>Journal of Orthopaedic Research</i> , 2020, 38, 1703-1709.	2.3	34
29	<p>Increase in Tryptase and Its Role in the Synovial Membrane of Overweight and Obese Patients with Osteoarthritis of the Knee</p>. <i>Diabetes, Metabolic Syndrome and Obesity: Targets and Therapy</i> , 2020, Volume 13, 1491-1497.	2.4	11
30	Acceleration of Bone Healing by In Situ-Forming Dextran-Tyramine Conjugates Containing Basic Fibroblast Growth Factor in Mice. <i>Cureus</i> , 2020, 12, e10085.	0.5	1
31	Experience of an Orthopaedic Surgery Department Early During the COVID-19 Outbreak in Japan Including Real-Time Polymerase Chain Reaction Assay Results for SARS-CoV-2. <i>Cureus</i> , 2020, 12, e11140.	0.5	2
32	Minimally invasive manganese-enhanced magnetic resonance imaging for the sciatic nerve tract tracing used intra-articularly administrated dextran-manganese encapsulated nanogels. <i>JOR Spine</i> , 2019, 2, e1059.	3.2	1
33	Risk Factors for Proximal Junctional Fracture Following Fusion Surgery for Osteoporotic Vertebral Collapse with Delayed Neurological Deficits: A Retrospective Cohort Study of 403 Patients. <i>Spine Surgery and Related Research</i> , 2019, 3, 171-177.	0.7	15
34	Complications after spinal fixation surgery for osteoporotic vertebral collapse with neurological deficits: Japan Association of Spine Surgeons with ambition multicenter study. <i>Journal of Orthopaedic Science</i> , 2019, 24, 985-990.	1.1	8
35	Surgical outcomes of spinal fusion for osteoporotic vertebral fracture in the thoracolumbar spine: Comprehensive evaluations of 5 typical surgical fusion techniques. <i>Journal of Orthopaedic Science</i> , 2019, 24, 1020-1026.	1.1	18
36	Wrapping With Basic Fibroblast Growth Factor-impregnated Collagen Sheet Reduces Rat Sciatic Nerve Allodynia. <i>Journal of Orthopaedic Research</i> , 2019, 37, 2258-2263.	2.3	10

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37	Transforming growth factor- β^2 stimulates nerve growth factor production in osteoarthritic synovium. <i>BMC Musculoskeletal Disorders</i> , 2019, 20, 204.	1.9	16
38	Surgical outcomes of spinal fusion for osteoporotic thoracolumbar vertebral fractures in patients with Parkinson's disease: what is the impact of Parkinson's disease on surgical outcome?. <i>BMC Musculoskeletal Disorders</i> , 2019, 20, 103.	1.9	16
39	Changes in Nerve Growth Factor Expression and Macrophage Phenotype Following Intervertebral Disc Injury in Mice. <i>Journal of Orthopaedic Research</i> , 2019, 37, 1798-1804.	2.3	40
40	ISSLS PRIZE IN CLINICAL SCIENCE 2019: clinical importance of trunk muscle mass for low back pain, spinal balance, and quality of life—a multicenter cross-sectional study. <i>European Spine Journal</i> , 2019, 28, 914-921.	2.2	56
41	Regression of Retro-odontoid Pseudotumor Using External Orthosis without Atlantoaxial Fusion. <i>JBJS Case Connector</i> , 2019, 9, e0329-e0329.	0.3	5
42	Hip-spine syndrome: cross-sectional-study of spinal alignment in patients with coxalgia. <i>HIP International</i> , 2019, 29, 21-25.	1.7	13
43	Vein wrapping promotes M2 macrophage polarization in a rat chronic constriction injury model. <i>Journal of Orthopaedic Research</i> , 2018, 36, 2210-2217.	2.3	15
44	Relationship between synovial inflammatory cytokines and progression of osteoarthritis after hip arthroscopy: Experimental assessment. <i>Journal of Orthopaedic Surgery</i> , 2018, 26, 230949901877092.	1.0	8
45	Answer to the Letter to the Editor of Wang Kai et al. concerning "Radiographic evaluation of indirect decompression of mini-open anterior retroperitoneal lumbar interbody fusion: oblique lateral interbody fusion for degenerated lumbar spondylolisthesis" by Jun Sato et al. <i>Eur Spine J</i> (2017) 26:671-678. <i>European Spine Journal</i> . 2018, 27, 240-241.	2.2	4
46	Safety and Efficacy of Treatment for Scoliosis Is Secondary to Spinal Muscular Atrophy Fused to Lumbar 5 Level. <i>Spine Surgery and Related Research</i> , 2018, 2, 294-298.	0.7	9
47	Sensory nerve ingrowth, cytokines, and instability of discogenic low back pain: A review. <i>Spine Surgery and Related Research</i> , 2018, 2, 11-17.	0.7	41
48	Regulation of calcitonin gene-related peptide expression through the COX-2/mPGES-1/PGE2 pathway in the infrapatellar fat pad in knee osteoarthritis. <i>Lipids in Health and Disease</i> , 2018, 17, 215.	3.0	14
49	Spontaneous Spinal Epidural Hematoma in an Infant with Developmental Disabilities. <i>Spine Surgery and Related Research</i> , 2018, 2, 335-339.	0.7	1
50	Vascular endothelial growth factor expression and their action in the synovial membranes of patients with painful knee osteoarthritis. <i>BMC Musculoskeletal Disorders</i> , 2018, 19, 204.	1.9	41
51	Macrophage-derived inflammatory cytokines regulate growth factors and pain-related molecules in mice with intervertebral disc injury. <i>Journal of Orthopaedic Research</i> , 2018, 36, 2274-2279.	2.3	37
52	Evaluation of Lumbar Intervertebral Disc Degeneration Using T1 ρ and T2 Magnetic Resonance Imaging in a Rabbit Disc Injury Model. <i>Asian Spine Journal</i> , 2018, 12, 317-324.	2.0	13
53	Perioperative Complications in Posterior Spinal Fusion Surgery for Neuromuscular Scoliosis. <i>Spine Surgery and Related Research</i> , 2018, 2, 278-282.	0.7	8
54	Radiographic evaluation of indirect decompression of mini-open anterior retroperitoneal lumbar interbody fusion: oblique lateral interbody fusion for degenerated lumbar spondylolisthesis. <i>European Spine Journal</i> , 2017, 26, 671-678.	2.2	180

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55	The cytokine expression in synovial membrane and the relationship with pain and pathological findings at hip arthroscopy. <i>Journal of Experimental Orthopaedics</i> , 2017, 4, 12.	1.8	10
56	Transforming growth factor activating kinase 1 regulates extracellular matrix degrading enzymes and pain-related molecule expression following tumor necrosis factor- α stimulation of synovial cells: an in vitro study. <i>BMC Musculoskeletal Disorders</i> , 2017, 18, 283.	1.9	22
57	Oriented collagen tubes combined with basic fibroblast growth factor promote peripheral nerve regeneration in a 15Åmm sciatic nerve defect rat model. <i>Journal of Biomedical Materials Research - Part A</i> , 2017, 105, 8-14.	4.0	47
58	Basic Fibroblast Growth Factor-Anchored Multilayered Mesenchymal Cell Sheets Accelerate Periosteal Bone Formation. <i>BioMed Research International</i> , 2017, 2017, 1-8.	1.9	2
59	Efficacy of nerve growth factor antibody in a knee osteoarthritis pain model in mice. <i>BMC Musculoskeletal Disorders</i> , 2017, 18, 428.	1.9	32
60	Increase and regulation of synovial calcitonin gene-related peptide expression in patients with painful knee osteoarthritis. <i>Journal of Pain Research</i> , 2017, Volume 10, 1099-1104.	2.0	29
61	Risk factors of cervical surgery related complications in patients older than 80 years. <i>Spine Surgery and Related Research</i> , 2017, 1, 179-184.	0.7	3
62	Surgical treatment for suicidal jumper's fracture (unstable sacral fracture) with thoracolumbar burst fracture: a report of three cases. <i>Spine Surgery and Related Research</i> , 2017, 1, 100-106.	0.7	1
63	Change of Lumbar Ligamentum Flavum after Indirect Decompression Using Anterior Lumbar Interbody Fusion. <i>Asian Spine Journal</i> , 2017, 11, 105-112.	2.0	35
64	Nerve Growth Factor Regulation by TNF- α and IL-1 β in Synovial Macrophages and Fibroblasts in Osteoarthritic Mice. <i>Journal of Immunology Research</i> , 2016, 2016, 1-8.	2.2	54
65	Spinal Epidural Hematoma after Thoracolumbar Posterior Fusion Surgery without Decompression for Thoracic Vertebral Fracture. <i>Case Reports in Orthopedics</i> , 2016, 2016, 1-5.	0.3	5
66	Pregabalin for Refractory Radicular Leg Pain due to Lumbar Spinal Stenosis: A Preliminary Prospective Study. <i>Pain Research and Management</i> , 2016, 2016, 1-10.	1.8	22
67	Efficacy of Anti-Nav1.7 Antibody on the Sensory Nervous System in a Rat Model of Lumbar Intervertebral Disc Injury. <i>Yonsei Medical Journal</i> , 2016, 57, 748.	2.2	5
68	Acceleration of bone formation during fracture healing by poly(pro- ¹⁰ gly) and basic fibroblast growth factor containing polycystic kidney disease and collagen-binding domains from <i>Clostridium histolyticum</i> collagenase. <i>Journal of Biomedical Materials Research - Part A</i> , 2016, 104, 1372-1378.	4.0	14
69	Activation of calcitonin gene-related peptide signaling through the prostaglandin E2-EP1/EP2/EP4 receptor pathway in synovium of knee osteoarthritis patients. <i>Journal of Orthopaedic Surgery and Research</i> , 2016, 11, 117.	2.3	29
70	Muscle injury in rats induces upregulation of inflammatory cytokines in injured muscle and calcitonin gene-related peptide in dorsal root ganglia innervating the injured muscle. <i>Muscle and Nerve</i> , 2016, 54, 776-782.	2.2	5
71	The efficacy of nerve growth factor antibody in a mouse model of neuropathic cancer pain. <i>Experimental Animals</i> , 2016, 65, 337-343.	1.1	8
72	Single intradiscal injection of the interleukin-6 receptor antibody tocilizumab provides short-term relief of discogenic low back pain; prospective comparative cohort study. <i>Journal of Orthopaedic Science</i> , 2016, 21, 2-6.	1.1	43

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73	Differences in levels of inflammatory mediators in meniscal and synovial tissue of patients with meniscal lesions. <i>Journal of Experimental Orthopaedics</i> , 2016, 3, 7.	1.8	12
74	Do Physical Symptoms Predict the Outcome of Surgical Fusion in Patients with Discogenic Low Back Pain?. <i>Asian Spine Journal</i> , 2016, 10, 509.	2.0	8
75	Classification of Chronic Back Muscle Degeneration after Spinal Surgery and Its Relationship with Low Back Pain. <i>Asian Spine Journal</i> , 2016, 10, 516.	2.0	9
76	Treatment of nocturnal leg cramps by blockade of the medial branch of the deep peroneal nerve after lumbar spine surgery. <i>Brain and Behavior</i> , 2015, 5, e00370.	2.2	2
77	Interleukin-6 and interleukin-6 receptor expression, localization, and involvement in pain-sensing neuron activation in a mouse intervertebral disc injury model. <i>Journal of Orthopaedic Research</i> , 2015, 33, 1508-1514.	2.3	28
78	Mini-Open Anterior Retroperitoneal Lumbar Interbody Fusion: Oblique Lateral Interbody Fusion for Degenerated Lumbar Spinal Kyphoscoliosis. <i>Asian Spine Journal</i> , 2015, 9, 565.	2.0	98
79	More than 6 Months of Teriparatide Treatment Was More Effective for Bone Union than Shorter Treatment Following Lumbar Posterolateral Fusion Surgery. <i>Asian Spine Journal</i> , 2015, 9, 573.	2.0	50
80	Efficacy of Direct Injection of Etanercept into Knee Joints for Pain in Moderate and Severe Knee Osteoarthritis. <i>Yonsei Medical Journal</i> , 2015, 56, 1379.	2.2	47
81	Mini-Open Anterior Retroperitoneal Lumbar Interbody Fusion: Oblique Lateral Interbody Fusion for Lumbar Spinal Degeneration Disease. <i>Yonsei Medical Journal</i> , 2015, 56, 1051.	2.2	129
82	Hyaluronic Acid (800kDa) Supplementation of University of Wisconsin Solution Improves Viability of Osteochondral Grafts and Reduces Matrix Metalloproteinase Expression during Cold Preservation. <i>Scientific World Journal</i> , The, 2015, 2015, 1-7.	2.1	3
83	Remote Hemorrhage in the Cerebellum and Temporal Lobe after Lumbar Spine Surgery. <i>Case Reports in Orthopedics</i> , 2015, 2015, 1-5.	0.3	0
84	Diffusion tensor imaging of lumbar spinal nerve in subjects with degenerative lumbar disorders. <i>Magnetic Resonance Imaging</i> , 2015, 33, 956-961.	1.8	37
85	Less invasive corrective surgery using oblique lateral interbody fusion (OLIF) including L5-S1 fusion for severe lumbar kyphoscoliosis due to L4 compression fracture in a patient with Parkinson's disease: a case report. <i>BMC Research Notes</i> , 2015, 8, 126.	1.4	19
86	Pathomechanisms of discogenic low back pain in humans and animal models. <i>Spine Journal</i> , 2015, 15, 1347-1355.	1.3	123
87	Progressive Change in Joint Degeneration in Patients with Knee or Hip Osteoarthritis Treated with Fentanyl in a Randomized Trial. <i>Yonsei Medical Journal</i> , 2014, 55, 1379.	2.2	7
88	Incidence of Nocturnal Leg Cramps in Patients with Lumbar Spinal Stenosis before and after Conservative and Surgical Treatment. <i>Yonsei Medical Journal</i> , 2014, 55, 779.	2.2	11
89	Increase of TRPV1-Immunoreactivity in Dorsal Root Ganglia Neurons Innervating the Femur in a Rat Model of Osteoporosis. <i>Yonsei Medical Journal</i> , 2014, 55, 1600.	2.2	18
90	ISSLS Prize Winner. <i>Spine</i> , 2014, 39, 1345-1354.	2.0	89

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91	Miniopen Oblique Lateral L5-S1 Interbody Fusion: A Report of 2 Cases. Case Reports in Orthopedics, 2014, 2014, 1-5.	0.3	19
92	Interspinous Ligament Lidocaine and Steroid Injections for the Management of Bastrup's Disease: A Case Series. Asian Spine Journal, 2014, 8, 260.	2.0	17
93	Up-Regulation of Pain Behavior and Glial Activity in the Spinal Cord after Compression and Application of Nucleus Pulposus onto the Sciatic Nerve in Rats. Asian Spine Journal, 2014, 8, 549.	2.0	4
94	Evaluation of Behavior and Expression of Receptor Activator of Nuclear Factor-Kappa B Ligand in Dorsal Root Ganglia after Sciatic Nerve Compression and Application of Nucleus Pulposus in Rats. Asian Spine Journal, 2014, 8, 557.	2.0	4
95	PainVision Apparatus Is Effective for Assessing Low Back Pain. Asian Spine Journal, 2014, 8, 793.	2.0	17
96	Additional decompression at adjacent segments leads to adjacent segment degeneration after PLIF. European Spine Journal, 2013, 22, 1877-1883.	2.2	24
97	Assessment of Pain Behavior in a Rat Model of Intervertebral Disc Injury Using the Catwalk Gait Analysis System. Spine, 2013, 38, 1459-1465.	2.0	49
98	ISSLS Prize Winner. Spine, 2012, 37, 1810-1818.	2.0	55
99	Assessment of Gait in a Rat Model of Myofascial Inflammation Using the CatWalk System. Spine, 2011, 36, 1760-1764.	2.0	33
100	Disk Injury in Rats Produces Persistent Increases in Pain-Related Neuropeptides in Dorsal Root Ganglia and Spinal Cord Glia but Only Transient Increases in Inflammatory Mediators. Spine, 2011, 36, 2260-2266.	2.0	78
101	Pain-related sensory innervation in monoiodoacetate-induced osteoarthritis in rat knees that gradually develops neuronal injury in addition to inflammatory pain. BMC Musculoskeletal Disorders, 2011, 12, 134.	1.9	173
102	Neural Mechanisms of Discogenic Back Pain: How Does Nerve Growth Factor Play a Key Role?. Korean Journal of Spine, 2011, 8, 83.	0.9	1
103	Up-regulation of TNF α in DRG satellite cells following lumbar facet joint injury in rats. European Spine Journal, 2006, 15, 953-958.	2.2	41