

Hiroshi Hashizume

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6732828/publications.pdf>

Version: 2024-02-01

107
papers

3,402
citations

172457

29
h-index

161849

54
g-index

121
all docs

121
docs citations

121
times ranked

3184
citing authors

#	ARTICLE	IF	CITATIONS
1	Prevalence and distribution of intervertebral disc degeneration over the entire spine in a population-based cohort: the Wakayama Spine Study. <i>Osteoarthritis and Cartilage</i> , 2014, 22, 104-110.	1.3	339
2	Spinal Glial Activation and Cytokine Expression After Lumbar Root Injury in the Rat. <i>Spine</i> , 2000, 25, 1206-1217.	2.0	241
3	Pathomechanism of Pain-Related Behavior Produced by Allografts of Intervertebral Disc in the Rat. <i>Spine</i> , 1996, 21, 2101-2107.	2.0	156
4	Lumbar Sagittal Balance Influences the Clinical Outcome After Decompression and Posterolateral Spinal Fusion for Degenerative Lumbar Spondylolisthesis. <i>Spine</i> , 2002, 27, 59-64.	2.0	154
5	The Use of Cultured Bone Marrow Cells in Type I Collagen Gel and Porous Hydroxyapatite for Posterolateral Lumbar Spine Fusion. <i>Spine</i> , 2005, 30, 1134-1138.	2.0	106
6	Progression, incidence, and risk factors for intervertebral disc degeneration in a longitudinal population-based cohort: the Wakayama Spine Study. <i>Osteoarthritis and Cartilage</i> , 2017, 25, 1122-1131.	1.3	93
7	The association of combination of disc degeneration, end plate signal change, and Schmorl node with low back pain in a large population study: the Wakayama Spine Study. <i>Spine Journal</i> , 2015, 15, 622-628.	1.3	91
8	Sagittal spino-pelvic alignment in adults: The Wakayama Spine Study. <i>PLoS ONE</i> , 2017, 12, e0178697.	2.5	89
9	Prevalence of diffuse idiopathic skeletal hyperostosis (DISH) of the whole spine and its association with lumbar spondylosis and knee osteoarthritis: the ROAD study. <i>Journal of Bone and Mineral Metabolism</i> , 2015, 33, 221-229.	2.7	82
10	Evaluation of Carriers of Bone Morphogenetic Protein for Spinal Fusion. <i>Spine</i> , 2001, 26, 933-939.	2.0	81
11	The Role of Phospholipase A2 and Nitric Oxide in Pain-Related Behavior Produced by an Allograft of Intervertebral Disc Material to the Sciatic Nerve of the Rat. <i>Spine</i> , 1997, 22, 1074-1079.	2.0	78
12	Central administration of methotrexate reduces mechanical allodynia in an animal model of radiculopathy/sciatica. <i>Pain</i> , 2000, 87, 159-169.	4.2	75
13	Effects of Steroid and Lipopolysaccharide on Spontaneous Resorption of Herniated Intervertebral Discs. <i>Spine</i> , 1998, 23, 870-876.	2.0	74
14	Endoscope-assisted spinal decompression surgery for lumbar spinal stenosis. <i>Journal of Neurosurgery: Spine</i> , 2013, 19, 664-671.	1.7	74
15	MRI-defined paraspinal muscle morphology in Japanese population: The Wakayama Spine Study. <i>PLoS ONE</i> , 2017, 12, e0187765.	2.5	65
16	Osteogenic Protein-1 (Osteogenic Protein-1/Bone Morphogenetic Protein-7) Inhibits Degeneration and Pain-Related Behavior Induced by Chronically Compressed Nucleus Pulposus in the Rat. <i>Spine</i> , 2005, 30, 1933-1939.	2.0	56
17	Effects of Basic Fibroblast Growth Factor on Spontaneous Resorption of Herniated Intervertebral Discs. <i>Spine</i> , 1999, 24, 940-945.	2.0	52
18	Prevalence of Cervical Cord Compression and Its Association With Physical Performance in a Population-Based Cohort in Japan. <i>Spine</i> , 2012, 37, 1892-1898.	2.0	48

#	ARTICLE	IF	CITATIONS
19	Experimental Spinal Fusion Using Sintered Bovine Bone Coated With Type I Collagen and Recombinant Human Bone Morphogenetic Protein-2. <i>Spine</i> , 1999, 24, 1863.	2.0	46
20	Japanese orthopaedic association back pain evaluation questionnaire (JOABPEQ) as an outcome measure for patients with low back pain: reference values in healthy volunteers. <i>Journal of Orthopaedic Science</i> , 2015, 20, 264-280.	1.1	43
21	The Effects of Bone Morphogenetic Protein and Basic Fibroblast Growth Factor on Cultured Mesenchymal Stem Cells for Spine Fusion. <i>Spine</i> , 2007, 32, 1067-1071.	2.0	43
22	The prevalence of cervical myelopathy among subjects with narrow cervical spinal canal in a population-based magnetic resonance imaging study: the Wakayama Spine Study. <i>Spine Journal</i> , 2014, 14, 2811-2817.	1.3	42
23	Clinical outcomes after microendoscopic laminotomy for lumbar spinal stenosis: a 5-year follow-up study. <i>European Spine Journal</i> , 2015, 24, 396-403.	2.2	40
24	Metabolic Syndrome Components Are Associated with Intervertebral Disc Degeneration: The Wakayama Spine Study. <i>PLoS ONE</i> , 2016, 11, e0147565.	2.5	40
25	Comparison of neuropathic pain induced by the application of normal and mechanically compressed nucleus pulposus to lumbar nerve roots in the rat. <i>Journal of Orthopaedic Research</i> , 2003, 21, 535-539.	2.3	39
26	Mechanical compression of the lumbar nerve root alters pain-related behaviors induced by the nucleus pulposus in the rat. <i>Journal of Orthopaedic Research</i> , 2000, 18, 257-264.	2.3	37
27	Epidural injection of cyclooxygenase-2 inhibitor attenuates pain-related behavior following application of nucleus pulposus to the nerve root in the rat. <i>Journal of Orthopaedic Research</i> , 2002, 20, 376-381.	2.3	37
28	Early versus delayed kyphoplasty for thoracolumbar osteoporotic vertebral fractures: The effect of timing on clinical and radiographic outcomes and subsequent compression fractures. <i>Clinical Neurology and Neurosurgery</i> , 2018, 173, 176-181.	1.4	37
29	Minimally invasive decompression surgery for lumbar spinal stenosis with degenerative scoliosis: Predictive factors of radiographic and clinical outcomes. <i>Journal of Orthopaedic Science</i> , 2017, 22, 377-383.	1.1	31
30	Association between types of Modic changes in the lumbar region and low back pain in a large cohort: the Wakayama spine study. <i>European Spine Journal</i> , 2021, 30, 1011-1017.	2.2	30
31	Classification of High Intensity Zones of the Lumbar Spine and Their Association with Other Spinal MRI Phenotypes: The Wakayama Spine Study. <i>PLoS ONE</i> , 2016, 11, e0160111.	2.5	30
32	A Clinical Case of Endoscopically Assisted Anterior Screw Fixation for the Type II Odontoid Fracture. <i>Spine</i> , 2003, 28, E102-E105.	2.0	29
33	Can decompression surgery relieve low back pain in patients with lumbar spinal stenosis combined with degenerative lumbar scoliosis?. <i>European Spine Journal</i> , 2013, 22, 2010-2014.	2.2	29
34	Diffuse idiopathic skeletal hyperostosis is associated with lumbar spinal stenosis requiring surgery. <i>Journal of Bone and Mineral Metabolism</i> , 2019, 37, 118-124.	2.7	29
35	Histochemical Demonstration of Nitric Oxide in Herniated Lumbar Discs. <i>Spine</i> , 1997, 22, 1080-1084.	2.0	28
36	Efficacy of Novel Minimally Invasive Surgery Using Spinal Microendoscope For Treating Extraforaminal Stenosis at the Lumbosacral Junction. <i>Journal of Spinal Disorders and Techniques</i> , 2012, 25, 268-276.	1.9	28

#	ARTICLE	IF	CITATIONS
37	Microendoscopic laminotomy versus conventional laminoplasty for cervical spondylotic myelopathy: 5-year follow-up study. <i>Journal of Neurosurgery: Spine</i> , 2017, 27, 403-409.	1.7	28
38	Radiographic natural course of lumbar degenerative spondylolisthesis and its risk factors related to the progression and onset in a 15-year community-based cohort study: the Miyama study. <i>Journal of Orthopaedic Science</i> , 2015, 20, 978-984.	1.1	26
39	The prevalence of tandem spinal stenosis and its characteristics in a population-based MRI study: The Wakayama Spine Study. <i>European Spine Journal</i> , 2017, 26, 2529-2535.	2.2	26
40	Lumbar high-intensity zones on MRI: imaging biomarkers for severe, prolonged low back pain and sciatica in a population-based cohort. <i>Spine Journal</i> , 2020, 20, 1025-1034.	1.3	26
41	Physical Performance Measures Associated With Locomotive Syndrome in Middle-Aged and Older Japanese Women. <i>Journal of Geriatric Physical Therapy</i> , 2015, 38, 202-207.	1.1	25
42	Improved accuracy of diagnosis of lumbar intra and/or extra-foraminal stenosis by use of three-dimensional MR imaging: comparison with conventional MR imaging. <i>Journal of Orthopaedic Science</i> , 2015, 20, 287-294.	1.1	25
43	Cognitive impairment associated with locomotive syndrome in community-dwelling elderly women in Japan. <i>Clinical Interventions in Aging</i> , 2017, Volume 12, 1451-1457.	2.9	25
44	Differences in prevalence and associated factors between mild and severe vertebral fractures in Japanese men and women: the third survey of the ROAD study. <i>Journal of Bone and Mineral Metabolism</i> , 2019, 37, 844-853.	2.7	25
45	Augmentation of motor evoked potentials using multi-train transcranial electrical stimulation in intraoperative neurophysiologic monitoring during spinal surgery. <i>Journal of Clinical Monitoring and Computing</i> , 2015, 29, 35-39.	1.6	23
46	Experimental study of carriers of bone morphogenetic protein used for spinal fusion. <i>Journal of Orthopaedic Science</i> , 2004, 9, 142-151.	1.1	22
47	Microendoscopic Decompression for Lumbar Spinal Stenosis With Degenerative Spondylolisthesis. <i>Clinical Spine Surgery</i> , 2019, 32, E20-E26.	1.3	22
48	APrunus mume Extract Stimulated the Proliferation and Differentiation of Osteoblastic MC3T3-E1 Cells. <i>Bioscience, Biotechnology and Biochemistry</i> , 2011, 75, 1907-1911.	1.3	21
49	<i>In Vivo</i> Patch-Clamp Analysis of the Antinociceptive Actions of TRPA1 Activation in the Spinal Dorsal Horn. <i>Molecular Pain</i> , 2015, 11, s12990-015-0021.	2.1	20
50	Verification of the sensitivity of functional scores for treatment results “Substantial clinical benefit thresholds for the Japanese Orthopaedic Association Back Pain Evaluation Questionnaire (JOABPEQ). <i>Journal of Orthopaedic Science</i> , 2017, 22, 665-669.	1.1	20
51	Locomotive syndrome is associated with body composition and cardiometabolic disorders in elderly Japanese women. <i>BMC Geriatrics</i> , 2016, 16, 166.	2.7	19
52	The Relationship between Locomotive Syndrome and Depression in Community-Dwelling Elderly People. <i>Current Gerontology and Geriatrics Research</i> , 2017, 2017, 1-6.	1.6	19
53	Factors associated with lumbar spinal stenosis in a large-scale, population-based cohort: The Wakayama Spine Study. <i>PLoS ONE</i> , 2018, 13, e0200208.	2.5	19
54	Association of Lumbar Spondylolisthesis With Low Back Pain and Symptomatic Lumbar Spinal Stenosis in a Population-based Cohort. <i>Spine</i> , 2017, 42, E666-E671.	2.0	18

#	ARTICLE	IF	CITATIONS
55	Cyclooxygenase-2 inhibitor SC-236 attenuates mechanical allodynia following nerve root injury in rats. <i>Journal of Orthopaedic Research</i> , 2000, 18, 977-982.	2.3	17
56	Sarpogrelate Hydrochloride, a 5-HT _{2A} Receptor Antagonist, Attenuates Neurogenic Pain Induced by Nucleus Pulposus in Rats. <i>Spine</i> , 2007, 32, 315-320.	2.0	17
57	A New 3-Dimensional Computed Tomography Imaging Method to Diagnose Extraforaminal Stenosis at the Lumbosacral Junction. <i>Journal of Spinal Disorders and Techniques</i> , 2010, 23, e47-e52.	1.9	17
58	An outcome measure for patients with cervical myelopathy: the Japanese Orthopaedic Association Cervical Myelopathy Evaluation Questionnaire (JOACMEQ): an average score of healthy volunteers. <i>Journal of Orthopaedic Science</i> , 2014, 19, 33-48.	1.1	16
59	Efficacy of Posterior Segmental Decompression Surgery for Pincer Mechanism in Cervical Spondylotic Myelopathy. <i>Spine</i> , 2015, 40, 1807-1815.	2.0	16
60	Could automated machine-learned MRI grading aid epidemiological studies of lumbar spinal stenosis? Validation within the Wakayama spine study. <i>BMC Musculoskeletal Disorders</i> , 2020, 21, 158.	1.9	16
61	Adjacent segment disease on hip joint as a complication of spinal fusion surgery including sacroiliac joint fixation. <i>European Spine Journal</i> , 2021, 30, 1314-1319.	2.2	16
62	The Association between the Cross-Sectional Area of the Dural Sac and Low Back Pain in a Large Population: The Wakayama Spine Study. <i>PLoS ONE</i> , 2016, 11, e0160002.	2.5	16
63	A New Electrophysiological Method for the Diagnosis of Extraforaminal Stenosis at L5-S1. <i>Asian Spine Journal</i> , 2014, 8, 145.	2.0	15
64	<p>Prevalence of Facet Effusion and Its Relationship with Lumbar Spondylolisthesis and Low Back Pain: The Wakayama Spine Study</p>. <i>Journal of Pain Research</i> , 2019, Volume 12, 3521-3528.	2.0	14
65	Relationship of sagittal spinal alignment with low back pain and physical performance in the general population. <i>Scientific Reports</i> , 2021, 11, 20604.	3.3	13
66	Development and evaluation of a video exercise program for locomotive syndrome in the elderly. <i>Modern Rheumatology</i> , 2014, 24, 250-257.	1.8	12
67	A short-segment fusion strategy using a wide-foot-plate expandable cage for vertebral pseudarthrosis after an osteoporotic vertebral fracture. <i>Journal of Neurosurgery: Spine</i> , 2020, 33, 862-869.	1.7	12
68	Detailed Subphenotyping of Lumbar Modic Changes and Their Association with Low Back Pain in a Large Population-Based Study: The Wakayama Spine Study. <i>Pain and Therapy</i> , 2022, 11, 57-71.	3.2	12
69	Quantification of the proportion of motor neurons recruited by transcranial electrical stimulation during intraoperative motor evoked potential monitoring. <i>Journal of Clinical Monitoring and Computing</i> , 2013, 27, 633-637.	1.6	11
70	Local Sagittal Alignment of the Lumbar Spine and Range of Motion in 627 Asymptomatic Subjects: Age-Related Changes and Sex-Based Differences. <i>Asian Spine Journal</i> , 2019, 13, 663-671.	2.0	11
71	The use of sintered bone in spinal surgery. <i>European Spine Journal</i> , 2001, 10, S185-S188.	2.2	9
72	Safety of Epidural Administration of Osteogenic Protein-1 (OP-1/BMP-7). <i>Spine</i> , 2007, 32, 1388-1393.	2.0	9

#	ARTICLE	IF	CITATIONS
73	Japanese orthopaedic association cervical myelopathy evaluation questionnaire (JOACMEQ): Part 5. Determination of responsiveness. <i>Journal of Orthopaedic Science</i> , 2019, 24, 57-61.	1.1	9
74	Prevalence of cervical anterior and posterior spondylolisthesis and its association with degenerative cervical myelopathy in a general population. <i>Scientific Reports</i> , 2020, 10, 10455.	3.3	9
75	Consuming breakfast and exercising longer during high school increases bone mineral density in young adult men. <i>Journal of Bone and Mineral Metabolism</i> , 2013, 31, 329-336.	2.7	8
76	Development of a support tool for the clinical diagnosis of symptomatic lumbar intra-and/or extra-foraminal stenosis. <i>Journal of Orthopaedic Science</i> , 2015, 20, 811-817.	1.1	8
77	Is radiographic lumbar spondylolisthesis associated with occupational exposures? Findings from a nested case control study within the Wakayama spine study. <i>BMC Musculoskeletal Disorders</i> , 2019, 20, 618.	1.9	8
78	Microendoscopic decompression for lumbosacral foraminal stenosis: a novel surgical strategy based on anatomical considerations using 3D image fusion with MRI/CT. <i>Journal of Neurosurgery: Spine</i> , 2020, , 1-7.	1.7	8
79	A Prospective, 3-year Longitudinal Study of Modic Changes of the Lumbar Spine in a Population-based Cohort. <i>Spine</i> , 2022, 47, 490-497.	2.0	8
80	Long-term survival case of malignant glomus tumor mimicking "dumbbell-shaped" neurogenic tumor. <i>European Spine Journal</i> , 2017, 26, 42-46.	2.2	7
81	Physical performance decreases in the early stage of cervical myelopathy before the myelopathic signs appear: the Wakayama Spine Study. <i>European Spine Journal</i> , 2019, 28, 1217-1224.	2.2	7
82	Association between subjective oral dysfunction and locomotive syndrome in community-dwelling older adults. <i>Scientific Reports</i> , 2021, 11, 12591.	3.3	7
83	Distinct Degree of Radiculopathy at Different Levels of Peripheral Nerve Injury. <i>Molecular Pain</i> , 2012, 8, 1744-8069-8-31.	2.1	6
84	Serum levels of matrix metalloproteinase-3 and autoantibodies related to rheumatoid arthritis in the general Japanese population and their association with osteoporosis and osteoarthritis: the ROAD study. <i>Journal of Bone and Mineral Metabolism</i> , 2018, 36, 246-253.	2.7	6
85	Kitchen elbow sign predicts surgical outcomes in adults with spinal deformity: a retrospective cohort study. <i>Scientific Reports</i> , 2021, 11, 12859.	3.3	6
86	Improving effect of microendoscopic decompression surgery on low back pain in patients with lumbar spinal stenosis and predictive factors of postoperative residual low back pain: a single-center retrospective study. <i>BMC Musculoskeletal Disorders</i> , 2021, 22, 954.	1.9	6
87	Spinal Endoscopy for Delayed-Onset Lumbar Radiculopathy Resulting from Foraminal Stenosis after Osteoporotic Vertebral Fracture: A Case Report of a New Surgical Strategy. <i>Case Reports in Orthopedics</i> , 2018, 2018, 1-4.	0.3	5
88	Long-term Clinical Outcomes of Microendoscopic Laminotomy for Cervical Spondylotic Myelopathy. <i>Clinical Spine Surgery</i> , 2021, 34, 383-390.	1.3	5
89	The discrepancy between radiographically-assessed and self-recognized hallux valgus in a large population-based cohort. <i>BMC Musculoskeletal Disorders</i> , 2022, 23, 31.	1.9	5
90	Lumbar Fusion including Sacroiliac Joint Fixation Increases the Stress and Angular Motion at the Hip Joint: A Finite Element Study. <i>Spine Surgery and Related Research</i> , 2022, 6, 681-688.	0.7	5

#	ARTICLE	IF	CITATIONS
91	Factory and construction work is associated with an increased risk of severe lumbar spinal stenosis on MRI: A case control analysis within the wakayama spine study. American Journal of Industrial Medicine, 2019, 62, 430-438.	2.1	4
92	Does prophylactic use of topical gelatin-thrombin matrix sealant affect postoperative drainage volume and hematoma formation following microendoscopic spine surgery? A randomized controlled trial. Spine Journal, 2021, 21, 446-454.	1.3	4
93	Relationship Between Age-Related Spinopelvic Sagittal Alignment and Low Back Pain in Adults of Population-Based Cohorts: The ROAD Study. Journal of Pain Research, 2022, Volume 15, 33-38.	2.0	4
94	An Experimental Approach to Spinal Fusion Using Sintered Bovine Bone in a Pig Model. Journal of Spinal Disorders, 2000, 13, 156-164.	1.1	3
95	Skipping breakfast and less exercise are risk factors for bone loss in young Japanese adults: a 3-year follow-up study. Journal of Bone and Mineral Metabolism, 2014, 32, 420-427.	2.7	3
96	Prevalence and associated factors of pistol grip deformity in Japanese local residents. Scientific Reports, 2021, 11, 6025.	3.3	3
97	Lateral lumbar interbody fusion after reduction using the percutaneous pedicle screw system in the lateral position for Meyerding grade II spondylolisthesis: a preliminary report of a new lumbar reconstruction strategy. BMC Musculoskeletal Disorders, 2021, 22, 17.	1.9	3
98	The incidence and risk factors for adjacent vertebral fractures in community-dwelling people with prevalent vertebral fracture: the 3rd and 4th survey of the ROAD study. Archives of Osteoporosis, 2020, 15, 74.	2.4	2
99	Long-Term Outcomes after Selective Microendoscopic Laminotomy for Multilevel Lumbar Spinal Stenosis with and without Remaining Radiographic Stenosis: A 10-Year Follow-Up Study. Spine Surgery and Related Research, 2022, 6, 488-496.	0.7	2
100	Is radiographic lumbar spinal stenosis associated with the quality of life?: The Wakayama Spine Study. PLoS ONE, 2022, 17, e0263930.	2.5	1
101	Development and evaluation of a video exercise program for locomotive syndrome in the elderly. Modern Rheumatology, 2013, , 1.	1.8	0
102	Response to "Revisiting the nomenclature and grading schemes for disc degeneration: issues to be solved". Spine Journal, 2015, 15, 2595-2596.	1.3	0
103	The beneficial effect of physical activity on cognitive function in community-dwelling older persons with locomotive syndrome. PeerJ, 2021, 9, e12292.	2.0	0
104	Sacroiliac Joint Pain Should Be Suspected In Early Buttock And Groin Pain After Adult Spinal Deformity Surgery: An Observational Study. Spine Surgery and Related Research, 2022, , .	0.7	0
105	Lateral interbody release for fused vertebrae via transpoas approach in adult spinal deformity surgery: a preliminary report of radiographic and clinical outcomes. BMC Musculoskeletal Disorders, 2022, 23, 245.	1.9	0
106	A novel technique using ultrasonography in upper airway management after anterior cervical decompression and fusion. BMC Medical Imaging, 2022, 22, 67.	2.7	0
107	Psychometric Evaluation and External Validity of the Japanese Version of Lumbar Stiffness Disability Index. Spine Surgery and Related Research, 2022, , .	0.7	0