Takashi Hirai

List of Publications by Year in descending order

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100 papers 1,666 citations

331259 21 h-index 36 g-index

114 all docs

114
docs citations

times ranked

114

1346 citing authors

#	Article	IF	CITATIONS
1	K-Line Tilt is a Predictor of Postoperative Kyphotic Deformity After Laminoplasty for Cervical Myelopathy Caused by Ossification of the Posterior Longitudinal Ligament. Global Spine Journal, 2023, 13, 1005-1010.	1.2	5
2	Risk factors for recurrence and regrowth of spinal schwannoma. Journal of Orthopaedic Science, 2023, 28, 554-559.	0.5	5
3	Pelvic incidence is a risk factor for lower instrumented vertebra failure in adult spinal deformity patients who underwent corrective fusion terminating at the L5 vertebra. Journal of Orthopaedic Science, 2023, 28, 302-307.	0.5	1
4	Severity of Myelopathy is Closely Associated With Advanced Age and Signal Intensity Change in Cervical Ossification of the Posterior Longitudinal Ligament. Clinical Spine Surgery, 2022, 35, E155-E161.	0.7	3
5	Impact of preoperative cervical sagittal alignment for cervical myelopathy caused by ossification of the posterior longitudinal ligament on surgical treatment. Journal of Orthopaedic Science, 2022, 27, 1208-1214.	0.5	5
6	Intradiscal Injection with Condoliase (Chondroitin Sulfate ABC Endolyase) for Painful Radiculopathy Caused by Lumbar Disc Herniation. Spine Surgery and Related Research, 2022, 6, 252-260.	0.4	6
7	Local Suppression Effect of Paclitaxel-Impregnated Hydroxyapatite/Collagen on Breast Cancer Bone Metastasis in a Rat Model. Spine Surgery and Related Research, 2022, 6, 294-302.	0.4	3
8	Comparison of laminoplasty and posterior fusion surgery for cervical ossification of posterior longitudinal ligament. Scientific Reports, 2022, 12, 748.	1.6	6
9	Surgical Strategy for Osteoid Osteoma Localized in Anterior Lumbar Vertebral Body: A Case Report. Spine Surgery and Related Research, 2022, 6, 408-411.	0.4	1
10	Is anterior decompression and fusion more beneficial than laminoplasty for K-line (+) cervical ossification of the posterior longitudinal ligament? An analysis using propensity score matching. Journal of Neurosurgery: Spine, 2022, 37, 13-20.	0.9	3
11	Factors Contributing to Residual Low Back Pain after Osteoporotic Vertebral Fractures. Journal of Clinical Medicine, 2022, 11, 1566.	1.0	4
12	Diverging pathophysiology in superficial siderosis with proximal upper limb amyotrophy. Journal of the Neurological Sciences, 2022, 436, 120248.	0.3	2
13	Comparison of decompression, decompression plus fusion, and decompression plus stabilization: a long-term follow-up of a prospective, randomized study. Spine Journal, 2022, 22, 747-755.	0.6	11
14	Early Experiences of One-Level Total Disc Replacement (Prestige LP) in Japan: A Comparison of Short-Term Outcomes with Anterior Cervical Discectomy with Fusion. Spine Surgery and Related Research, 2022, 6, 581-588.	0.4	2
15	Impact of obesity on cervical ossification of the posterior longitudinal ligament: a nationwide prospective study. Scientific Reports, 2022, 12, .	1.6	1
16	Perioperative Complications of Anterior Decompression with Fusion in Degenerative Cervical Myelopathyâ€"A Comparative Study between Ossification of Posterior Longitudinal Ligament and Cervical Spondylotic Myelopathy Using a Nationwide Inpatient Database. Journal of Clinical Medicine, 2022, 11, 3398.	1.0	2
17	Clinical Characteristics of Patients with Ossification of the Posterior Longitudinal Ligament and a High OP Index: A Multicenter Cross-Sectional Study (JOSL Study). Journal of Clinical Medicine, 2022, 11, 3694.	1.0	2
18	Predictors for quality of life improvement after acute osteoporotic vertebral fracture: results of post hoc analysis of a prospective randomized study. Quality of Life Research, 2021, 30, 129-135.	1.5	3

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19	Comparative analysis of clinical factors associated with pedicle screw pullâ€out during or immediately after surgery between intraoperative coneâ€beam computed tomography and postoperative computed tomography. BMC Musculoskeletal Disorders, 2021, 22, 55.	0.8	7
20	Laminar Closure in Double-door Laminoplasty for Cervical Spondylotic Myelopathy with Nonkyphotic Alignment. Spine, 2021, 46, 999-1006.	1.0	4
21	Predictors associated with neurological recovery after anterior decompression with fusion for degenerative cervical myelopathy. BMC Surgery, 2021, 21, 144.	0.6	3
22	Sagittal alignment changes and postoperative complications following surgery for adult spinal deformity in patients with Parkinson's disease: a multi-institutional retrospective cohort study. BMC Musculoskeletal Disorders, 2021, 22, 357.	0.8	3
23	Prospective Investigation of Postoperative Complications in Anterior Decompression with Fusion for Severe Cervical Ossification of the Posterior Longitudinal Ligament. Spine, 2021, 46, 1621-1629.	1.0	5
24	Predictors for quality of life improvement after surgery for degenerative cervical myelopathy: a prospective multi-center study. Health and Quality of Life Outcomes, 2021, 19, 150.	1.0	6
25	Predictors of residual low back pain after acute osteoporotic compression fracture. Journal of Orthopaedic Science, 2021, 26, 453-458.	0.5	6
26	Machine Learning Approach in Predicting Clinically Significant Improvements After Surgery in Patients with Cervical Ossification of the Posterior Longitudinal Ligament. Spine, 2021, 46, 1683-1689.	1.0	11
27	The characteristics of the young patients with cervical ossification of the posterior longitudinal ligament of the spine: A multicenter cross-sectional study. Journal of Orthopaedic Science, 2021, , .	0.5	2
28	Neurological improvement is associated with neck pain attenuation after surgery for cervical ossification of the posterior longitudinal ligament. Scientific Reports, 2021, 11, 11910.	1.6	0
29	Current Advances in Spinal Diseases of the Elderly: Introduction to the Special Issue. Journal of Clinical Medicine, 2021, 10, 3298.	1.0	2
30	The impact of ossification spread on cervical spine function in patients with ossification of the posterior longitudinal ligament. Scientific Reports, 2021, 11, 14337.	1.6	3
31	Perioperative Complications in Posterior Surgeries for Cervical Ossification of the Posterior Longitudinal Ligament. Clinical Spine Surgery, 2021, Publish Ahead of Print, E594-E600.	0.7	4
32	Associations between Clinical Findings and Severity of Diffuse Idiopathic Skeletal Hyperostosis in Patients with Ossification of the Posterior Longitudinal Ligament. Journal of Clinical Medicine, 2021, 10, 4137.	1.0	4
33	A comparative study of surgical outcomes between anterior cervical discectomy with fusion and selective laminoplasty for cervical spondylotic myelopathy. Journal of Orthopaedic Science, 2021, , .	0.5	3
34	Application of an index derived from the area under a neutrophil curve as a predictor of surgical site infection after spinal surgery. BMC Surgery, 2021, 21, 354.	0.6	0
35	Predictive Factors Affecting Surgical Outcomes in Patients with Degenerative Lumbar Spondylolisthesis. Spine, 2021, 46, 610-616.	1.0	8
36	Risk factors for subsequent vertebral fracture after acute osteoporotic vertebral fractures. European Spine Journal, 2021, 30, 2698-2707.	1.0	15

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37	A Prospective Cohort Study of Dysphagia After Subaxial Cervical Spine Surgery. Spine, 2021, 46, 492-498.	1.0	11
38	Comparison of Lateral Lumbar Interbody Fusion and Posterior Lumbar Interbody Fusion as Corrective Surgery for Patients with Adult Spinal Deformity—A Propensity Score Matching Analysis. Journal of Clinical Medicine, 2021, 10, 4737.	1.0	8
39	Hydroxyapatite/collagen composite graft for posterior lumbar interbody fusion: a comparison with local bone graft. Journal of Orthopaedic Surgery and Research, 2021, 16, 639.	0.9	8
40	Association between Severity of Diffuse Idiopathic Skeletal Hyperostosis and Ossification of Other Spinal Ligaments in Patients with Ossification of the Posterior Longitudinal Ligament. Journal of Clinical Medicine, 2021, 10, 4690.	1.0	2
41	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. Journal of Clinical Medicine, 2021, 10, 5026.	1.0	3
42	Anterior Cervical Corpectomy with Fusion versus Anterior Hybrid Fusion Surgery for Patients with Severe Ossification of the Posterior Longitudinal Ligament Involving Three or More Levels: A Retrospective Comparative Study. Journal of Clinical Medicine, 2021, 10, 5315.	1.0	8
43	Time Course of Acute Vertebral Fractures: A Prospective Multicenter Cohort Study. Journal of Clinical Medicine, 2021, 10, 5961.	1.0	5
44	Perioperative Complications of Laminoplasty in Degenerative Cervical Myelopathy -A Comparative Study Between Ossification of Posterior Longitudinal Ligament and Cervical Spondylotic Myelopathy Using a Nationwide Inpatient Database. Global Spine Journal, 2021, , 219256822110638.	1.2	3
45	A systematic review and meta-analysis comparing anterior decompression with fusion and posterior laminoplasty for cervical ossification of the posterior longitudinal ligament. Journal of Orthopaedic Science, 2020, 25, 58-65.	0.5	31
46	The long noncoding RNA Crnde regulates osteoblast proliferation through the Wnt/ \hat{l}^2 -catenin signaling pathway in mice. Bone, 2020, 130, 115076.	1.4	34
47	The characteristics of the patients with radiologically severe cervical ossification of the posterior longitudinal ligament of the spine: A CT-based multicenter cross-sectional study. Journal of Orthopaedic Science, 2020, 25, 746-750.	0.5	4
48	Preoperative risk factors for delirium in patients aged ≥75 years undergoing spinal surgery: a retrospective study. Journal of International Medical Research, 2020, 48, 030006052096121.	0.4	11
49	Incidence of atypical femoral fractures in the treatment of bone metastasis: An alert report. Journal of Bone Oncology, 2020, 23, 100301.	1.0	9
50	NA Microarray Analysis of Differential Gene Expression in the Dorsal Root Ganglia of Four Different Neuropathic Pain Mouse Models. Journal of Pain Research, 2020, Volume 13, 3031-3043.	0.8	9
51	Comparison of Perioperative Complications in Anterior Decompression With Fusion and Posterior Decompression With Fusion for Cervical Ossification of the Posterior Longitudinal Ligament. Spine, 2020, 45, E1006-E1012.	1.0	21
52	Prognostic factors for neurological outcome after anterior decompression and fusion for proximal-type cervical spondylotic amyotrophy – A retrospective analysis of 77 cases. Journal of Orthopaedic Science, 2020, 26, 733-738.	0.5	1
53	Identification of Predictive Factors for Mechanical Complications After Adult Spinal Deformity Surgery. Spine, 2020, 45, 1185-1192.	1.0	21
54	Associations between Clinical Symptoms and Degree of Ossification in Patients with Cervical Ossification of the Posterior Longitudinal Ligament: A Prospective Multi-Institutional Cross-Sectional Study. Journal of Clinical Medicine, 2020, 9, 4055.	1.0	6

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55	Postoperative lymphocyte percentage and neutrophil–lymphocyte ratio are useful markers for the early prediction of surgical site infection in spinal decompression surgery. Journal of Orthopaedic Surgery, 2020, 28, 230949902091840.	0.4	22
56	Risk Factors of Nonunion After Acute Osteoporotic Vertebral Fractures. Spine, 2020, 45, 895-902.	1.0	21
57	Surgical stabilization of spinal metastasis in diffuse idiopathic skeletal hyperostosis ("Mets-on-DISHâ€). Medicine (United States), 2020, 99, e20397.	0.4	1
58	Clinical characteristics in patients with ossification of the posterior longitudinal ligament: A prospective multi-institutional cross-sectional study. Scientific Reports, 2020, 10, 5532.	1.6	11
59	Effect of bisphosphonates or teriparatide on mechanical complications after posterior instrumented fusion for osteoporotic vertebral fracture: a multi-center retrospective study. BMC Musculoskeletal Disorders, 2020, 21, 420.	0.8	15
60	Comparison of Perioperative Complications Between Anterior Fusion and Posterior Fusion for Osteoporotic Vertebral Fractures in Elderly Patients. Clinical Spine Surgery, 2020, 33, E586-E592.	0.7	10
61	Preoperative Risk Factors for Adjacent Segment Degeneration after Two-Level Floating Posterior Fusion at L3-L5. Spine Surgery and Related Research, 2020, 4, 43-49.	0.4	4
62	Remnant neuromuscular junctions in denervated muscles contribute to functional recovery in delayed peripheral nerve repair. Neural Regeneration Research, 2020, 15, 731.	1.6	12
63	Increased Height of Fused Segments Contributes to Early-Phase Strut Subsidence after Anterior Cervical Corpectomy with Fusion for Multilevel Ossification of the Posterior Longitudinal Ligament. Spine Surgery and Related Research, 2020, 4, 294-299.	0.4	3
64	Surgical outcomes for distal-type cervical spondylotic amyotrophy: a multicenter retrospective analysis of 43 cases. European Spine Journal, 2019, 28, 2333-2341.	1.0	1
65	Clinical Outcomes of Surgical Treatment for Arachnoid Web: A Case Series. Spine Surgery and Related Research, 2019, 3, 43-48.	0.4	21
66	Retrospective analysis of surgical outcomes for atlantoaxial subluxation. Journal of Orthopaedic Surgery and Research, 2019, 14, 75.	0.9	7
67	Comparison of Rigid and Soft-Brace Treatments for Acute Osteoporotic Vertebral Compression Fracture: A Prospective, Randomized, Multicenter Study. Journal of Clinical Medicine, 2019, 8, 198.	1.0	33
68	Thoracic myelopathy caused by an extremely rare aberrant epidural ligament. Medicine (United States), 2019, 98, e17344.	0.4	0
69	Is Modified K-line a Powerful Tool of Surgical Decision Making for Patients With Cervical Spondylotic Myelopathy?. Clinical Spine Surgery, 2019, 32, 351-356.	0.7	13
70	Co-existence of ossification of the nuchal ligament is associated with severity of ossification in the whole spine in patients with cervical ossification of the posterior longitudinal ligament -A multi-center CT study Journal of Orthopaedic Science, 2019, 24, 35-41.	0.5	21
71	Surgical outcomes for lumbar spinal canal stenosis with coexisting cervical stenosis (tandem spinal) Tj $ETQq1\ 1$	0.784314 0.9	rgBT /Overlo 22
72	Lumbar epidural lipomatosis is associated with visceral fat and metabolic disorders. European Spine Journal, 2018, 27, 1653-1661.	1.0	22

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73	The impact of sarcopenia on the results of lumbar spinal surgery. Osteoporosis and Sarcopenia, 2018, 4, 33-36.	0.7	29
74	Bone Turnover Markers as a New Predicting Factor for Nonunion After Spinal Fusion Surgery. Spine, 2018, 43, E29-E34.	1.0	32
75	Long-term results of a prospective study of anterior decompression with fusion and posterior decompression with laminoplasty for treatment of cervical spondylotic myelopathy. Journal of Orthopaedic Science, 2018, 23, 32-38.	0.5	24
76	Prevalence and Distribution of Diffuse Idiopathic Skeletal Hyperostosis on Whole-spine Computed Tomography in Patients With Cervical Ossification of the Posterior Longitudinal Ligament. Clinical Spine Surgery, 2018, 31, E460-E465.	0.7	37
77	Revision Surgery for Short Segment Fusion Influences Postoperative Low Back Pain and Lower Extremity Pain: A Retrospective Single-Center Study of Patient-Based Evaluation. Spine Surgery and Related Research, 2018, 2, 215-220.	0.4	0
78	Clinical and radiologic outcomes of bone grafted and non-bone grafted double-door laminoplasty, the modified Kirita-Miyazaki method, for treatment of cervical spondylotic myelopathy: Five-year follow-up. Journal of Orthopaedic Science, 2018, 23, 923-928.	0.5	3
79	Distribution of ossified spinal lesions in patients with severe ossification of the posterior longitudinal ligament and prediction of ossification at each segment based on the cervical OP index classification: a multicenter study (JOSL CT study). BMC Musculoskeletal Disorders, 2018, 19, 107.	0.8	26
80	A Prospective Comparative Study in Skin Antiseptic Solutions for Posterior Spine Surgeries. Clinical Spine Surgery, 2018, 31, E353-E356.	0.7	12
81	Comparison of Decompression, Decompression Plus Fusion, and Decompression Plus Stabilization for Degenerative Spondylolisthesis. Clinical Spine Surgery, 2018, 31, E347-E352.	0.7	59
82	Intraoperative evaluation using mobile computed tomography in anterior cervical decompression with floating method for massive ossification of the posterior longitudinal ligament. Journal of Orthopaedic Surgery and Research, 2017, 12, 12.	0.9	26
83	A Comparative Study of Anterior Decompression With Fusion and Posterior Decompression With Laminoplasty for the Treatment of Cervical Spondylotic Myelopathy Patients With Large Anterior Compression of the Spinal Cord. Clinical Spine Surgery, 2017, 30, E1137-E1142.	0.7	20
84	Impact of the surgical treatment for degenerative cervical myelopathy on the preoperative cervical sagittal balance: a review of prospective comparative cohort between anterior decompression with fusion and laminoplasty. European Spine Journal, 2017, 26, 104-112.	1.0	71
85	Prevalence and Distribution of Ossified Lesions in the Whole Spine of Patients with Cervical Ossification of the Posterior Longitudinal Ligament A Multicenter Study (JOSL CT study). PLoS ONE, 2016, 11, e0160117.	1.1	73
86	Prevalence and distribution of ossification of the supra/interspinous ligaments in symptomatic patients with cervical ossification of the posterior longitudinal ligament of the spine: a CT-based multicenter cross-sectional study. BMC Musculoskeletal Disorders, 2016, 17, 492.	0.8	36
87	Cervical pedicle screw placement using intraoperative computed tomography imaging with a mobile scanner gantry. European Spine Journal, 2016, 25, 1690-1697.	1.0	19
88	Anterior decompression with fusion versus posterior decompression with fusion for massive cervical ossification of the posterior longitudinal ligament with a â%¥50% canal occupying ratio: a multicenter retrospective study. Spine Journal, 2016, 16, 1351-1357.	0.6	58
89	Cervical Sagittal Imbalance is a Predictor of Kyphotic Deformity After Laminoplasty in Cervical Spondylotic Myelopathy Patients Without Preoperative Kyphotic Alignment. Spine, 2016, 41, 299-305.	1.0	118
90	Drain Tip Culture is Not Prognostic for Surgical Site Infection in Spinal Surgery Under Prophylactic Use of Antibiotics. Spine, 2016, 41, 1179-1184.	1.0	15

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91	Efficient Gene Suppression in Dorsal Root Ganglia and Spinal Cord Using Adeno-Associated Virus Vectors Encoding Short-Hairpin RNA. Methods in Molecular Biology, 2016, 1364, 277-290.	0.4	4
92	Lumbosacral pedicle screw placement using a fluoroscopic pedicle axis view and a cannulated tapping device. Journal of Orthopaedic Surgery and Research, 2015, 10, 79.	0.9	13
93	Intrathecal AAV Serotype 9-mediated Delivery of shRNA Against TRPV1 Attenuates Thermal Hyperalgesia in a Mouse Model of Peripheral Nerve Injury. Molecular Therapy, 2014, 22, 409-419.	3.7	48
94	Intrathecal shRNA-AAV9 Inhibits Target Protein Expression in the Spinal Cord and Dorsal Root Ganglia of Adult Mice. Human Gene Therapy Methods, 2012, 23, 119-127.	2.1	21
95	Presence of Anterior Compression of the Spinal Cord After Laminoplasty Inhibits Upper Extremity Motor Recovery in Patients With Cervical Spondylotic Myelopathy. Spine, 2012, 37, 377-384.	1.0	37
96	Five-year Follow-up Evaluation of Surgical Treatment for Cervical Myelopathy Caused by Ossification of the Posterior Longitudinal Ligament. Spine, 2012, 37, 367-376.	1.0	165
97	Adhesive Arachnoiditis With Extensive Syringomyelia and Giant Arachnoid Cyst After Spinal and Epidural Anesthesia. Spine, 2012, 37, E195-E198.	1.0	28
98	Myositis Ossificans Traumatica Secondary to Fracture of the Odontoid in a Five-Month-Old Infant. JBJS Case Connector, 2012, 2, e7.	0.1	1
99	Middle-Term Results of a Prospective Comparative Study of Anterior Decompression With Fusion and Posterior Decompression With Laminoplasty for the Treatment of Cervical Spondylotic Myelopathy. Spine, 2011, 36, 1940-1947.	1.0	75
100	Risk Factors for Early Reconstruction Failure of Multilevel Cervical Corpectomy With Dynamic Plate Fixation. Spine, 2011, 36, E582-E587.	1.0	31