

Takashi Hirai

List of Publications by Year in descending order

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100
papers

1,666
citations

331670

21
h-index

345221

36
g-index

114
all docs

114
docs citations

114
times ranked

1346
citing authors

#	ARTICLE	IF	CITATIONS
1	Five-year Follow-up Evaluation of Surgical Treatment for Cervical Myelopathy Caused by Ossification of the Posterior Longitudinal Ligament. <i>Spine</i> , 2012, 37, 367-376.	2.0	165
2	Cervical Sagittal Imbalance is a Predictor of Kyphotic Deformity After Laminoplasty in Cervical Spondylotic Myelopathy Patients Without Preoperative Kyphotic Alignment. <i>Spine</i> , 2016, 41, 299-305.	2.0	118
3	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. <i>Spine</i> , 2011, 36, 1940-1947.	2.0	75
4	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). <i>PLoS ONE</i> , 2016, 11, e0160117.	2.5	73
5	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. <i>European Spine Journal</i> , 2017, 26, 104-112.	2.2	71
6	Comparison of Decompression, Decompression Plus Fusion, and Decompression Plus Stabilization for Degenerative Spondylolisthesis. <i>Clinical Spine Surgery</i> , 2018, 31, E347-E352.	1.3	59
7	Anterior decompression with fusion versus posterior decompression with fusion for massive cervical ossification of the posterior longitudinal ligament with a $\geq 50\%$ canal occupying ratio: a multicenter retrospective study. <i>Spine Journal</i> , 2016, 16, 1351-1357.	1.3	58
8	Intrathecal AAV Serotype 9-mediated Delivery of shRNA Against TRPV1 Attenuates Thermal Hyperalgesia in a Mouse Model of Peripheral Nerve Injury. <i>Molecular Therapy</i> , 2014, 22, 409-419.	8.2	48
9	Presence of Anterior Compression of the Spinal Cord After Laminoplasty Inhibits Upper Extremity Motor Recovery in Patients With Cervical Spondylotic Myelopathy. <i>Spine</i> , 2012, 37, 377-384.	2.0	37
10	Prevalence and Distribution of Diffuse Idiopathic Skeletal Hyperostosis on Whole-spine Computed Tomography in Patients With Cervical Ossification of the Posterior Longitudinal Ligament. <i>Clinical Spine Surgery</i> , 2018, 31, E460-E465.	1.3	37
11	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. <i>BMC Musculoskeletal Disorders</i> , 2016, 17, 492.	1.9	36
12	The long noncoding RNA Crnde regulates osteoblast proliferation through the Wnt/ β 2-catenin signaling pathway in mice. <i>Bone</i> , 2020, 130, 115076.	2.9	34
13	Comparison of Rigid and Soft-Brace Treatments for Acute Osteoporotic Vertebral Compression Fracture: A Prospective, Randomized, Multicenter Study. <i>Journal of Clinical Medicine</i> , 2019, 8, 198.	2.4	33
14	Bone Turnover Markers as a New Predicting Factor for Nonunion After Spinal Fusion Surgery. <i>Spine</i> , 2018, 43, E29-E34.	2.0	32
15	Risk Factors for Early Reconstruction Failure of Multilevel Cervical Corpectomy With Dynamic Plate Fixation. <i>Spine</i> , 2011, 36, E582-E587.	2.0	31
16	A systematic review and meta-analysis comparing anterior decompression with fusion and posterior laminoplasty for cervical ossification of the posterior longitudinal ligament. <i>Journal of Orthopaedic Science</i> , 2020, 25, 58-65.	1.1	31
17	The impact of sarcopenia on the results of lumbar spinal surgery. <i>Osteoporosis and Sarcopenia</i> , 2018, 4, 33-36.	1.9	29
18	Adhesive Arachnoiditis With Extensive Syringomyelia and Giant Arachnoid Cyst After Spinal and Epidural Anesthesia. <i>Spine</i> , 2012, 37, E195-E198.	2.0	28

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19	Intraoperative evaluation using mobile computed tomography in anterior cervical decompression with floating method for massive ossification of the posterior longitudinal ligament. <i>Journal of Orthopaedic Surgery and Research</i> , 2017, 12, 12.	2.3	26
20	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). <i>BMC Musculoskeletal Disorders</i> , 2018, 19, 107.	1.9	26
21	Long-term results of a prospective study of anterior decompression with fusion and posterior decompression with laminoplasty for treatment of cervical spondylotic myelopathy. <i>Journal of Orthopaedic Science</i> , 2018, 23, 32-38.	1.1	24
22	Surgical outcomes for lumbar spinal canal stenosis with coexisting cervical stenosis (tandem spinal) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 60.	2.3	22
23	Lumbar epidural lipomatosis is associated with visceral fat and metabolic disorders. <i>European Spine Journal</i> , 2018, 27, 1653-1661.	2.2	22
24	Postoperative lymphocyte percentage and neutrophilâ€“lymphocyte ratio are useful markers for the early prediction of surgical site infection in spinal decompression surgery. <i>Journal of Orthopaedic Surgery</i> , 2020, 28, 230949902091840.	1.0	22
25	Intrathecal shRNA-AAV9 Inhibits Target Protein Expression in the Spinal Cord and Dorsal Root Ganglia of Adult Mice. <i>Human Gene Therapy Methods</i> , 2012, 23, 119-127.	2.1	21
26	Clinical Outcomes of Surgical Treatment for Arachnoid Web: A Case Series. <i>Spine Surgery and Related Research</i> , 2019, 3, 43-48.	0.7	21
27	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-. <i>Journal of Orthopaedic Science</i> , 2019, 24, 35-41.	1.1	21
28	Comparison of Perioperative Complications in Anterior Decompression With Fusion and Posterior Decompression With Fusion for Cervical Ossification of the Posterior Longitudinal Ligament. <i>Spine</i> , 2020, 45, E1006-E1012.	2.0	21
29	Identification of Predictive Factors for Mechanical Complications After Adult Spinal Deformity Surgery. <i>Spine</i> , 2020, 45, 1185-1192.	2.0	21
30	Risk Factors of Nonunion After Acute Osteoporotic Vertebral Fractures. <i>Spine</i> , 2020, 45, 895-902.	2.0	21
31	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. <i>Clinical Spine Surgery</i> , 2017, 30, E1137-E1142.	1.3	20
32	Cervical pedicle screw placement using intraoperative computed tomography imaging with a mobile scanner gantry. <i>European Spine Journal</i> , 2016, 25, 1690-1697.	2.2	19
33	Drain Tip Culture is Not Prognostic for Surgical Site Infection in Spinal Surgery Under Prophylactic Use of Antibiotics. <i>Spine</i> , 2016, 41, 1179-1184.	2.0	15
34	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
35	Risk factors for subsequent vertebral fracture after acute osteoporotic vertebral fractures. <i>European Spine Journal</i> , 2021, 30, 2698-2707.	2.2	15
36	Lumbosacral pedicle screw placement using a fluoroscopic pedicle axis view and a cannulated tapping device. <i>Journal of Orthopaedic Surgery and Research</i> , 2015, 10, 79.	2.3	13

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37	Is Modified K-line a Powerful Tool of Surgical Decision Making for Patients With Cervical Spondylotic Myelopathy?. <i>Clinical Spine Surgery</i> , 2019, 32, 351-356.	1.3	13
38	A Prospective Comparative Study in Skin Antiseptic Solutions for Posterior Spine Surgeries. <i>Clinical Spine Surgery</i> , 2018, 31, E353-E356.	1.3	12
39	Remnant neuromuscular junctions in denervated muscles contribute to functional recovery in delayed peripheral nerve repair. <i>Neural Regeneration Research</i> , 2020, 15, 731.	3.0	12
40	Preoperative risk factors for delirium in patients aged ≥75 years undergoing spinal surgery: a retrospective study. <i>Journal of International Medical Research</i> , 2020, 48, 030006052096121.	1.0	11
41	Clinical characteristics in patients with ossification of the posterior longitudinal ligament: A prospective multi-institutional cross-sectional study. <i>Scientific Reports</i> , 2020, 10, 5532.	3.3	11
42	Machine Learning Approach in Predicting Clinically Significant Improvements After Surgery in Patients with Cervical Ossification of the Posterior Longitudinal Ligament. <i>Spine</i> , 2021, 46, 1683-1689.	2.0	11
43	A Prospective Cohort Study of Dysphagia After Subaxial Cervical Spine Surgery. <i>Spine</i> , 2021, 46, 492-498.	2.0	11
44	Comparison of decompression, decompression plus fusion, and decompression plus stabilization: a long-term follow-up of a prospective, randomized study. <i>Spine Journal</i> , 2022, 22, 747-755.	1.3	11
45	Comparison of Perioperative Complications Between Anterior Fusion and Posterior Fusion for Osteoporotic Vertebral Fractures in Elderly Patients. <i>Clinical Spine Surgery</i> , 2020, 33, E586-E592.	1.3	10
46	Incidence of atypical femoral fractures in the treatment of bone metastasis: An alert report. <i>Journal of Bone Oncology</i> , 2020, 23, 100301.	2.4	9
47	<p>DNA Microarray Analysis of Differential Gene Expression in the Dorsal Root Ganglia of Four Different Neuropathic Pain Mouse Models</p>. <i>Journal of Pain Research</i> , 2020, Volume 13, 3031-3043.	2.0	9
48	Predictive Factors Affecting Surgical Outcomes in Patients with Degenerative Lumbar Spondylolisthesis. <i>Spine</i> , 2021, 46, 610-616.	2.0	8
49	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. <i>Journal of Clinical Medicine</i> , 2021, 10, 4737.	2.4	8
50	Hydroxyapatite/collagen composite graft for posterior lumbar interbody fusion: a comparison with local bone graft. <i>Journal of Orthopaedic Surgery and Research</i> , 2021, 16, 639.	2.3	8
51	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. <i>Journal of Clinical Medicine</i> , 2021, 10, 5315.	2.4	8
52	Retrospective analysis of surgical outcomes for atlantoaxial subluxation. <i>Journal of Orthopaedic Surgery and Research</i> , 2019, 14, 75.	2.3	7
53	Comparative analysis of clinical factors associated with pedicle screw pullout during or immediately after surgery between intraoperative cone-beam computed tomography and postoperative computed tomography. <i>BMC Musculoskeletal Disorders</i> , 2021, 22, 55.	1.9	7
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. <i>Journal of Clinical Medicine</i> , 2020, 9, 4055.	2.4	6

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55	Predictors for quality of life improvement after surgery for degenerative cervical myelopathy: a prospective multi-center study. <i>Health and Quality of Life Outcomes</i> , 2021, 19, 150.	2.4	6
56	Predictors of residual low back pain after acute osteoporotic compression fracture. <i>Journal of Orthopaedic Science</i> , 2021, 26, 453-458.	1.1	6
57	Intradiscal Injection with Condoliase (Chondroitin Sulfate ABC Endolyase) for Painful Radiculopathy Caused by Lumbar Disc Herniation. <i>Spine Surgery and Related Research</i> , 2022, 6, 252-260.	0.7	6
58	Comparison of laminoplasty and posterior fusion surgery for cervical ossification of posterior longitudinal ligament. <i>Scientific Reports</i> , 2022, 12, 748.	3.3	6
59	Prospective Investigation of Postoperative Complications in Anterior Decompression with Fusion for Severe Cervical Ossification of the Posterior Longitudinal Ligament. <i>Spine</i> , 2021, 46, 1621-1629.	2.0	5
60	K-Line Tilt is a Predictor of Postoperative Kyphotic Deformity After Laminoplasty for Cervical Myelopathy Caused by Ossification of the Posterior Longitudinal Ligament. <i>Global Spine Journal</i> , 2023, 13, 1005-1010.	2.3	5
61	Impact of preoperative cervical sagittal alignment for cervical myelopathy caused by ossification of the posterior longitudinal ligament on surgical treatment. <i>Journal of Orthopaedic Science</i> , 2022, 27, 1208-1214.	1.1	5
62	Time Course of Acute Vertebral Fractures: A Prospective Multicenter Cohort Study. <i>Journal of Clinical Medicine</i> , 2021, 10, 5961.	2.4	5
63	Risk factors for recurrence and regrowth of spinal schwannoma. <i>Journal of Orthopaedic Science</i> , 2023, 28, 554-559.	1.1	5
64	Efficient Gene Suppression in Dorsal Root Ganglia and Spinal Cord Using Adeno-Associated Virus Vectors Encoding Short-Hairpin RNA. <i>Methods in Molecular Biology</i> , 2016, 1364, 277-290.	0.9	4
65	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. <i>Journal of Orthopaedic Science</i> , 2020, 25, 746-750.	1.1	4
66	Laminar Closure in Double-door Laminoplasty for Cervical Spondylotic Myelopathy with Nonkyphotic Alignment. <i>Spine</i> , 2021, 46, 999-1006.	2.0	4
67	Perioperative Complications in Posterior Surgeries for Cervical Ossification of the Posterior Longitudinal Ligament. <i>Clinical Spine Surgery</i> , 2021, Publish Ahead of Print, E594-E600.	1.3	4
68	Associations between Clinical Findings and Severity of Diffuse Idiopathic Skeletal Hyperostosis in Patients with Ossification of the Posterior Longitudinal Ligament. <i>Journal of Clinical Medicine</i> , 2021, 10, 4137.	2.4	4
69	Preoperative Risk Factors for Adjacent Segment Degeneration after Two-Level Floating Posterior Fusion at L3-L5. <i>Spine Surgery and Related Research</i> , 2020, 4, 43-49.	0.7	4
70	Factors Contributing to Residual Low Back Pain after Osteoporotic Vertebral Fractures. <i>Journal of Clinical Medicine</i> , 2022, 11, 1566.	2.4	4
71	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. <i>Journal of Orthopaedic Science</i> , 2018, 23, 923-928.	1.1	3
72	Predictors for quality of life improvement after acute osteoporotic vertebral fracture: results of post hoc analysis of a prospective randomized study. <i>Quality of Life Research</i> , 2021, 30, 129-135.	3.1	3

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73	Predictors associated with neurological recovery after anterior decompression with fusion for degenerative cervical myelopathy. <i>BMC Surgery</i> , 2021, 21, 144.	1.3	3
74	Severity of Myelopathy is Closely Associated With Advanced Age and Signal Intensity Change in Cervical Ossification of the Posterior Longitudinal Ligament. <i>Clinical Spine Surgery</i> , 2022, 35, E155-E161.	1.3	3
75	Sagittal alignment changes and postoperative complications following surgery for adult spinal deformity in patients with Parkinson's disease: a multi-institutional retrospective cohort study. <i>BMC Musculoskeletal Disorders</i> , 2021, 22, 357.	1.9	3
76	The impact of ossification spread on cervical spine function in patients with ossification of the posterior longitudinal ligament. <i>Scientific Reports</i> , 2021, 11, 14337.	3.3	3
77	A comparative study of surgical outcomes between anterior cervical discectomy with fusion and selective laminoplasty for cervical spondylotic myelopathy. <i>Journal of Orthopaedic Science</i> , 2021, , .	1.1	3
78	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
79	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. <i>Spine Surgery and Related Research</i> , 2020, 4, 294-299.	0.7	3
80	Local Suppression Effect of Paclitaxel-Impregnated Hydroxyapatite/Collagen on Breast Cancer Bone Metastasis in a Rat Model. <i>Spine Surgery and Related Research</i> , 2022, 6, 294-302.	0.7	3
81	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. <i>Journal of Neurosurgery: Spine</i> , 2022, 37, 13-20.	1.7	3
82	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. <i>Global Spine Journal</i> , 2021, , 219256822110638.	2.3	3
83	The characteristics of the young patients with cervical ossification of the posterior longitudinal ligament of the spine: A multicenter cross-sectional study. <i>Journal of Orthopaedic Science</i> , 2021, , .	1.1	2
84	Current Advances in Spinal Diseases of the Elderly: Introduction to the Special Issue. <i>Journal of Clinical Medicine</i> , 2021, 10, 3298.	2.4	2
85	Association between Severity of Diffuse Idiopathic Skeletal Hyperostosis and Ossification of Other Spinal Ligaments in Patients with Ossification of the Posterior Longitudinal Ligament. <i>Journal of Clinical Medicine</i> , 2021, 10, 4690.	2.4	2
86	Diverging pathophysiology in superficial siderosis with proximal upper limb amyotrophy. <i>Journal of the Neurological Sciences</i> , 2022, 436, 120248.	0.6	2
87	Early Experiences of One-Level Total Disc Replacement (Prestige LP) in Japan: A Comparison of Short-Term Outcomes with Anterior Cervical Discectomy with Fusion. <i>Spine Surgery and Related Research</i> , 2022, 6, 581-588.	0.7	2
88	Perioperative Complications of Anterior Decompression with Fusion in Degenerative Cervical Myelopathy –A Comparative Study between Ossification of Posterior Longitudinal Ligament and Cervical Spondylotic Myelopathy Using a Nationwide Inpatient Database. <i>Journal of Clinical Medicine</i> , 2022, 11, 3398.	2.4	2
89	Clinical Characteristics of Patients with Ossification of the Posterior Longitudinal Ligament and a High OP Index: A Multicenter Cross-Sectional Study (JOSL Study). <i>Journal of Clinical Medicine</i> , 2022, 11, 3694.	2.4	2
90	Myositis Ossificans Traumatica Secondary to Fracture of the Odontoid in a Five-Month-Old Infant. <i>JBJS Case Connector</i> , 2012, 2, e7.	0.3	1

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91	Surgical outcomes for distal-type cervical spondylotic amyotrophy: a multicenter retrospective analysis of 43 cases. <i>European Spine Journal</i> , 2019, 28, 2333-2341.	2.2	1
92	Prognostic factors for neurological outcome after anterior decompression and fusion for proximal-type cervical spondylotic amyotrophy – A retrospective analysis of 77 cases. <i>Journal of Orthopaedic Science</i> , 2020, 26, 733-738.	1.1	1
93	Surgical stabilization of spinal metastasis in diffuse idiopathic skeletal hyperostosis (‐Mets-on-DISH‐). <i>Medicine (United States)</i> , 2020, 99, e20397.	1.0	1
94	Surgical Strategy for Osteoid Osteoma Localized in Anterior Lumbar Vertebral Body: A Case Report. <i>Spine Surgery and Related Research</i> , 2022, 6, 408-411.	0.7	1
95	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. <i>Journal of Orthopaedic Science</i> , 2023, 28, 302-307.	1.1	1
96	Impact of obesity on cervical ossification of the posterior longitudinal ligament: a nationwide prospective study. <i>Scientific Reports</i> , 2022, 12, .	3.3	1
97	Revision Surgery for Short Segment Fusion Influences Postoperative Low Back Pain and Lower Extremity Pain: A Retrospective Single-Center Study of Patient-Based Evaluation. <i>Spine Surgery and Related Research</i> , 2018, 2, 215-220.	0.7	0
98	Thoracic myelopathy caused by an extremely rare aberrant epidural ligament. <i>Medicine (United States)</i> , 2019, 98, e17344.	1.0	0
99	Neurological improvement is associated with neck pain attenuation after surgery for cervical ossification of the posterior longitudinal ligament. <i>Scientific Reports</i> , 2021, 11, 11910.	3.3	0
100	Application of an index derived from the area under a neutrophil curve as a predictor of surgical site infection after spinal surgery. <i>BMC Surgery</i> , 2021, 21, 354.	1.3	0