

Hwan-Mo Lee

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156
papers

2,080
citations

24
h-index

40
g-index

160
ext. papers

2,434
ext. citations

2.6
avg, IF

4.28
L-index

#	Paper	IF	Citations
156	The role of steroids and their effects on phospholipase A2. An animal model of radiculopathy. <i>Spine</i> , 1998 , 23, 1191-6	3.3	138
155	Reliability of magnetic resonance imaging in detecting posterior ligament complex injury in thoracolumbar spinal fractures. <i>Spine</i> , 2000 , 25, 2079-84	3.3	128
154	Bone morphogenetic protein-2 facilitates expression of chondrogenic, not osteogenic, phenotype of human intervertebral disc cells. <i>Spine</i> , 2003 , 28, 2679-84	3.3	119
153	Neurologic injury and recovery in patients with burst fracture of the thoracolumbar spine. <i>Spine</i> , 1999 , 24, 290-3; discussion 294	3.3	64
152	The biomechanical influence of the facet joint orientation and the facet tropism in the lumbar spine. <i>Spine Journal</i> , 2013 , 13, 1301-8	4	63
151	The effect of age on cervical sagittal alignment: normative data on 100 asymptomatic subjects. <i>Spine</i> , 2013 , 38, E458-63	3.3	60
150	The biomechanical effect of pedicle screws insertion angle and position on the superior adjacent segment in 1 segment lumbar fusion. <i>Spine</i> , 2012 , 37, 1637-44	3.3	60
149	Biologic response of human intervertebral disc cells to gene therapy cocktail. <i>Spine</i> , 2008 , 33, 1850-5	3.3	59
148	Deep vein thrombosis after major spinal surgery: incidence in an East Asian population. <i>Spine</i> , 2000 , 25, 1827-30	3.3	54
147	Inflammatory cytokines induce fibrosis and ossification of human ligamentum flavum cells. <i>Journal of Spinal Disorders and Techniques</i> , 2013 , 26, E6-12		50
146	The risk assessment of a fall in patients with lumbar spinal stenosis. <i>Spine</i> , 2011 , 36, E588-92	3.3	44
145	Surgical outcome of lumbar fusion surgery in patients with Parkinson disease. <i>Journal of Spinal Disorders and Techniques</i> , 2012 , 25, 351-5		43
144	Tissue engineering of the intervertebral disc with cultured nucleus pulposus cells using atelocollagen scaffold and growth factors. <i>Spine</i> , 2012 , 37, 452-8	3.3	41
143	Prognostic factor analysis in patients with metastatic spine disease depending on surgery and conservative treatment: review of 577 cases. <i>Annals of Surgical Oncology</i> , 2013 , 20, 40-6	3.1	40
142	Perioperative complication and surgical outcome in patients with spine metastases: retrospective 200-case series in a single institute. <i>Clinical Neurology and Neurosurgery</i> , 2014 , 122, 80-6	2	40
141	The effects of ketorolac injected via patient controlled analgesia postoperatively on spinal fusion. <i>Yonsei Medical Journal</i> , 2005 , 46, 245-51	3	38
140	Cross-cultural Adaptation of the Korean Version Of the Oswestry Disability Index (ODI). <i>Journal of Korean Society of Spine Surgery</i> , 2005 , 12, 146		38

139	Morphometric study of the lumbar spinal canal in the Korean population. <i>Spine</i> , 1995 , 20, 1679-84	3.3	37
138	Facet joint degeneration of the cervical spine: a computed tomographic analysis of 320 patients. <i>Spine</i> , 2014 , 39, E713-8	3.3	32
137	Zonal responsiveness of the human intervertebral disc to bone morphogenetic protein-2. <i>Spine</i> , 2009 , 34, 1834-8	3.3	32
136	Analysis of biomechanical changes after removal of instrumentation in lumbar arthrodesis by finite element analysis. <i>Medical and Biological Engineering and Computing</i> , 2010 , 48, 703-9	3.1	29
135	Life expectancy after lumbar spine surgery: one- to eleven-year follow-up of 1015 patients. <i>Spine</i> , 2008 , 33, 2116-21; discussion 2122-3	3.3	28
134	Prevalence of vitamin D deficiency in patients with lumbar spinal stenosis and its relationship with pain. <i>Pain Physician</i> , 2013 , 16, 165-76	1.8	27
133	Pelvic obliquity in neuromuscular scoliosis: radiologic comparative results of single-stage posterior versus two-stage anterior and posterior approach. <i>Spine</i> , 2011 , 36, 146-52	3.3	25
132	The natural history of degenerative spondylolisthesis of the cervical spine with 2- to 7-year follow-up. <i>Spine</i> , 2013 , 38, E205-10	3.3	23
131	Changes in vitamin D status after surgery in female patients with lumbar spinal stenosis and its clinical significance. <i>Spine</i> , 2012 , 37, E1326-30	3.3	23
130	The incidence of new vertebral compression fractures in women after kyphoplasty and factors involved. <i>Yonsei Medical Journal</i> , 2007 , 48, 645-52	3	22
129	Postoperative quality of life in patients with progressive neuromuscular scoliosis and their parents. <i>Spine Journal</i> , 2015 , 15, 446-53	4	21
128	Comparison of adjacent segment degeneration after successful posterolateral fusion with unilateral or bilateral pedicle screw instrumentation: a minimum 10-year follow-up. <i>Spine Journal</i> , 2013 , 13, 1208-16	4	21
127	The quantitative assessment of risk factors to overstress at adjacent segments after lumbar fusion: removal of posterior ligaments and pedicle screws. <i>Spine</i> , 2011 , 36, 1367-73	3.3	20
126	Contrast enhancement pattern and frequency of previously unoperated lumbar discs on MRI. <i>Journal of Magnetic Resonance Imaging</i> , 1997 , 7, 575-8	5.6	18
125	Safety evaluation of freehand lateral mass screw fixation in the subaxial cervical spine: evaluation of 1256 screws. <i>Spine</i> , 2015 , 40, 2-5	3.3	17
124	Bone metabolism in postmenopausal women with lumbar spinal stenosis: analysis of bone mineral density and bone turnover markers. <i>Spine</i> , 2008 , 33, 2435-9	3.3	17
123	Quality of life in patients with osteoporotic vertebral fractures. <i>Asian Spine Journal</i> , 2014 , 8, 653-8	2.8	17
122	Diagnostic value of oblique magnetic resonance images for evaluating cervical foraminal stenosis. <i>Spine Journal</i> , 2015 , 15, 607-11	4	16

121	A validated finite element analysis of nerve root stress in degenerative lumbar scoliosis. <i>Medical and Biological Engineering and Computing</i> , 2009 , 47, 599-605	3.1	16
120	Osteoporotic profiles in elderly patients with symptomatic lumbar spinal canal stenosis. <i>Indian Journal of Orthopaedics</i> , 2012 , 46, 279-84	1.3	16
119	Feasibility of ultrasound examination in posterior ligament complex injury of thoracolumbar spine fracture. <i>Spine</i> , 2002 , 27, 2154-8	3.3	16
118	The Use of T1 Sagittal Angle in Predicting Cervical Disc Degeneration. <i>Asian Spine Journal</i> , 2015 , 9, 757-61.8	6.8	16
117	The prevalence of idiopathic scoliosis in eleven year-old Korean adolescents: a 3 year epidemiological study. <i>Yonsei Medical Journal</i> , 2014 , 55, 773-8	3	15
116	Antibiotic Microbial Prophylaxis for Spinal Surgery: Comparison between 48 and 72-Hour AMP Protocols. <i>Asian Spine Journal</i> , 2010 , 4, 71-6	2.8	15
115	Comparison of surgical outcomes in thoracolumbar fractures operated with posterior constructs having varying fixation length with selective anterior fusion. <i>Yonsei Medical Journal</i> , 2009 , 50, 546-54	3	15
114	Comparison of Effects of Nonoperative Treatment and Decompression Surgery on Risk of Patients with Lumbar Spinal Stenosis Falling: Evaluation with Functional Mobility Tests. <i>Journal of Bone and Joint Surgery - Series A</i> , 2014 , 96, e110	5.6	14
113	Down-regulation of collagen synthesis and matrix metalloproteinase expression in myofibroblasts from Dupuytren nodule using adenovirus-mediated relaxin gene therapy. <i>Journal of Orthopaedic Research</i> , 2014 , 32, 515-23	3.8	14
112	Pulsed electromagnetic field stimulates cellular proliferation in human intervertebral disc cells. <i>Yonsei Medical Journal</i> , 2010 , 51, 954-9	3	14
111	Comparison between Operated Muscular Dystrophy and Spinal Muscular Atrophy Patients in terms of Radiological, Pulmonary and Functional Outcomes. <i>Asian Spine Journal</i> , 2010 , 4, 82-8	2.8	14
110	Efficacy and Safety of Different Aceclofenac Treatments for Chronic Lower Back Pain: Prospective, Randomized, Single Center, Open-Label Clinical Trials. <i>Yonsei Medical Journal</i> , 2017 , 58, 637-643	3	13
109	Clinical Outcome and Changes of Foraminal Dimension in Patients With Foraminal Stenosis After ACDF. <i>Journal of Spinal Disorders and Techniques</i> , 2015 , 28, E449-53		13
108	Loss of lordosis and clinical outcomes after anterior cervical fusion with dynamic rotational plates. <i>Yonsei Medical Journal</i> , 2013 , 54, 726-31	3	13
107	Biologic modification of ligamentum flavum cells by marker gene transfer and recombinant human bone morphogenetic protein-2. <i>Spine</i> , 2004 , 29, 960-5	3.3	13
106	Quality of Life Comparison between Vertebroplasty and Kyphoplasty in Patients with Osteoporotic Vertebral Fractures. <i>Asian Spine Journal</i> , 2014 , 8, 799-803	2.8	13
105	Age-related changes in cervical sagittal range of motion and alignment. <i>Global Spine Journal</i> , 2014 , 4, 151-6	2.7	12
104	Multiple levels of lumbar spondylolysis - a case report -. <i>Asian Spine Journal</i> , 2009 , 3, 35-8	2.8	12

103	Preoperative Risk Factors of C5 Nerve Root Palsy After Laminectomy and Fusion in Patients With Cervical Myelopathy: Analysis of 70 Consecutive Patients. <i>Clinical Spine Surgery</i> , 2017 , 30, 419-424	1.8	11
102	Herniated intervertebral disk induces hypertrophy and ossification of ligamentum flavum. <i>Journal of Spinal Disorders and Techniques</i> , 2014 , 27, 382-9		11
101	Transpedicular curettage and drainage of infective lumbar spondylodiscitis: technique and clinical results. <i>Clinics in Orthopedic Surgery</i> , 2012 , 4, 200-8	2.9	11
100	Sexual dysfunction in men with paraparesis in lumbar burst fractures. <i>Spine</i> , 2000 , 25, 2187-90	3.3	11
99	Delayed surgical intervention in central cord syndrome with cervical stenosis. <i>Global Spine Journal</i> , 2015 , 5, 69-72	2.7	10
98	Restoration of bone turnover rate after decompression surgery in patients with symptomatic lumbar spinal stenosis: preliminary report. <i>Spine</i> , 2009 , 34, E635-9	3.3	10
97	Paraspinal abscess communicated with epidural abscess after extra-articular facet joint injection. <i>Yonsei Medical Journal</i> , 2007 , 48, 711-4	3	10
96	Spinal sagittal balance status affects postoperative actual falls and quality of life after decompression and fusion in-situ surgery in patients with lumbar spinal stenosis. <i>Clinical Neurology and Neurosurgery</i> , 2016 , 148, 52-9	2	10
95	Neuropathic Pain Components in Patients with Lumbar Spinal Stenosis. <i>Yonsei Medical Journal</i> , 2015 , 56, 1044-50	3	9
94	Transpedicular curettage and drainage versus combined anterior and posterior surgery in infectious spondylodiscitis. <i>Indian Journal of Orthopaedics</i> , 2014 , 48, 74-80	1.3	9
93	Intradiscal electrothermal treatment for chronic lower back pain patients with internal disc disruption. <i>Yonsei Medical Journal</i> , 2005 , 46, 539-45	3	9
92	Comparison of mechanical motion profiles following instrumented fusion and non-instrumented fusion at the L4-5 segment. <i>Clinical and Investigative Medicine</i> , 2009 , 32, E64-9	0.9	9
91	Lumbar Spinal Stenosis: Pathophysiology and Treatment Principle: A Narrative Review. <i>Asian Spine Journal</i> , 2020 , 14, 682-693	2.8	9
90	Finite element analysis for comparison of spinous process osteotomies technique with conventional laminectomy as lumbar decompression procedure. <i>Yonsei Medical Journal</i> , 2015 , 56, 146-53		9
89	Relationship between Bone Mineral Density and Spinal Muscle Area in Magnetic Resonance Imaging. <i>Journal of Bone Metabolism</i> , 2015 , 22, 197-204	2.7	8
88	Surgical Outcome Predictor in Degenerative Lumbar Spinal Disease Based on Health Related Quality of Life Using Euro-Quality 5 Dimensions Analysis. <i>Yonsei Medical Journal</i> , 2016 , 57, 1214-21	3	8
87	Prevalence of hip pathology in patients over age 50 with spinal conditions requiring surgery. <i>Indian Journal of Orthopaedics</i> , 2012 , 46, 291-6	1.3	7
86	A comparison of autologous and homologous transfusions in spinal fusion. <i>Yonsei Medical Journal</i> , 2006 , 47, 840-6	3	7

85	Radiographic and functional outcome after surgical management of severe scoliosis in skeletally immature patients with muscular dystrophy. <i>Journal of Spinal Disorders and Techniques</i> , 2004 , 17, 505-10		7
84	Risk factors associated with the halo phenomenon after lumbar fusion surgery and its clinical significance. <i>Asian Spine Journal</i> , 2008 , 2, 22-6	2.8	7
83	Patient safety in spine surgery: regarding the wrong-site surgery. <i>Asian Spine Journal</i> , 2013 , 7, 63-71	2.8	7
82	Prognostic factors for surgical outcomes including preoperative total knee replacement and knee osteoarthritis status in female patients with lumbar spinal stenosis. <i>Journal of Spinal Disorders and Techniques</i> , 2015 , 28, 47-52		6
81	Biomechanical comparison of the angle of inserted screws and the length of anterior cervical plate systems with allograft spacers. <i>Clinical Biomechanics</i> , 2020 , 76, 105021	2.2	6
80	The association of the activation-inducible tumor necrosis factor receptor and ligand with lumbar disc herniation. <i>Yonsei Medical Journal</i> , 2007 , 48, 839-46	3	6
79	Lumbar Lordosis of Spinal Stenosis Patients during Intraoperative Prone Positioning. <i>Clinics in Orthopedic Surgery</i> , 2016 , 8, 65-70	2.9	6
78	What is a Right Distal Fusion Level for Prevention of Sagittal Imbalance in Multilevel Posterior Cervical Spine Surgery: C7 or T1?. <i>Clinical Spine Surgery</i> , 2018 , 31, 441-445	1.8	6
77	Hand grip strength can predict clinical outcomes and risk of falls after decompression and instrumented posterolateral fusion for lumbar spinal stenosis. <i>Spine Journal</i> , 2020 , 20, 1960-1967	4	5
76	Biomechanical comparison of cervical discectomy/fusion model using allograft spacers between anterior and posterior fixation methods (lateral mass and pedicle screw). <i>Clinical Biomechanics</i> , 2020 , 73, 226-233	2.2	5
75	Effect of Sagittal Balance on Risk of Falling after Lateral Lumbar Interbody Fusion Surgery Combined with Posterior Surgery. <i>Yonsei Medical Journal</i> , 2017 , 58, 1177-1185	3	5
74	Neurologic recovery according to the spinal fracture patterns by Denis classification. <i>Yonsei Medical Journal</i> , 2013 , 54, 715-9	3	5
73	Radiographic Morphometry of Lumbar Intervertebral Disc Space in Normal Korean. <i>Journal of Korean Society of Spine Surgery</i> , 2007 , 14, 129		5
72	Relaxin Modulates the Expression of MMPs and TIMPs in Fibroblasts of Patients with Carpal Tunnel Syndrome. <i>Yonsei Medical Journal</i> , 2017 , 58, 415-422	3	4
71	Growing rod technique for the treatment of the traumatic spinopelvic dissociation: a technical trick. <i>Spine Journal</i> , 2016 , 16, e209-14	4	4
70	The significance of Joint Commission International accreditation. <i>Journal of the Korean Medical Association</i> , 2012 , 55, 17	0.5	4
69	De novo osteogenesis from human ligamentum flavum by adenovirus-mediated bone morphogenetic protein-2 gene transfer. <i>Spine</i> , 2005 , 30, 2749-54	3.3	4
68	20-Year-Follow up of Treatment Using Spine Osteotomy and Halo-pelvic Traction for Tuberculous Kyphosis - A Case Report -. <i>Asian Spine Journal</i> , 2009 , 3, 27-31	2.8	4

67	Pamidronate Down-regulates Tumor Necrosis Factor-alpha Induced Matrix Metalloproteinases Expression in Human Intervertebral Disc Cells. <i>Journal of Bone Metabolism</i> , 2016 , 23, 165-73	2.7	4
66	Risk Factors of Clostridium Difficile Infection After Spinal Surgery: National Health Insurance Database. <i>Scientific Reports</i> , 2020 , 10, 4438	4.9	3
65	Comparative Study of the Safety and Effectiveness of Tramadol 37.5 mg/Acetaminophen 325 mg Combined Tablets and Cyclo-Oxygenase-2 (Celecoxib) Inhibitor for the Treatment of Chronic Low Back Pain - A Multicenter, Randomized, Comparative Clinical Study -. <i>Journal of Korean Society of Spine Surgery</i> , 2005 , 12, 299		3
64	Classification and Imaging Study of the Lumbar Disc Herniation. <i>Journal of Korean Society of Spine Surgery</i> , 2001 , 8, 314		3
63	ACDF With Total En Bloc Resection of Uncinate in Foraminal Stenosis of the Cervical Spine: Comparison With Conventional ACDF. <i>Clinical Spine Surgery</i> , 2021 , 34, E237-E242	1.8	3
62	Is There an Association Between Psychiatric Disorders and Adolescent Idiopathic Scoliosis? A Large-database Study. <i>Clinical Orthopaedics and Related Research</i> , 2021 , 479, 1805-1812	2.2	3
61	Joint laxity negatively correlates with lumbar disc degeneration in young adults. <i>Spine</i> , 2013 , 38, E1541-3	3.3	2
60	A Change of Pulmonary Function in the Patients with Severe Non-Idiopathic Scoliosis Following Reconstructive Spine Surgery. <i>Journal of Korean Society of Spine Surgery</i> , 2006 , 13, 106		2
59	Follistatin Mitigates Myofibroblast Differentiation and Collagen Synthesis of Fibroblasts from Scar Tissue around Injured Flexor Tendons. <i>Yonsei Medical Journal</i> , 2020 , 61, 85-93	3	2
58	Prevalence of Gastrointestinal and Cardiovascular Risk in Patients with Degenerative Lumbar Spinal Disease. <i>Clinics in Orthopedic Surgery</i> , 2020 , 12, 343-352	2.9	2
57	Cervical foraminal and discal height after dynamic rotational plating in the cervical discectomy and fusion. <i>Asian Spine Journal</i> , 2013 , 7, 289-93	2.8	2
56	Delayed Spinal Epidural Hematoma after En Block Spondylectomy for Vertebral Ewing's Sarcoma. <i>Asian Spine Journal</i> , 2010 , 4, 118-22	2.8	2
55	Biomechanical Analysis of Allograft Spacer Failure as a Function of Cortical-Cancellous Ratio in Anterior Cervical Discectomy/Fusion: Allograft Spacer Alone Model. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 6413	2.6	2
54	Emphysematous osteomyelitis of the spine: A rare case report. <i>Medicine (United States)</i> , 2020 , 99, e21113	3.8	2
53	Biomechanical Comparison of Posterior Fixation Combinations with an Allograft Spacer between the Lateral Mass and Pedicle Screws. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 7291	2.6	2
52	Incidence and Surgery Rate of Idiopathic Scoliosis: A Nationwide Database Study. <i>International Journal of Environmental Research and Public Health</i> , 2021 , 18,	4.6	2
51	Ogilvie's Syndrome after Lumbar Spinal Surgery. <i>Journal of Korean Society of Spine Surgery</i> , 2019 , 26, 63	0.2	1
50	Optimal end-tidal concentration of sevoflurane to test an ankle clonus in children. <i>Spine</i> , 2006 , 31, E813-3	3.3	1

49	Cervical myelopathy from atlantal hypoplasia and torticollis. <i>Clinical Orthopaedics and Related Research</i> , 2006 , 451, 274-8	2.2	1
48	Growth Factors and Their Clinical Applications. <i>Journal of Korean Society of Spine Surgery</i> , 2001 , 8, 372		1
47	Matrix Synthesis of Human Intervertebral Disc Cells According to Grade of Degeneration: Under the Basal State and TGF- β Stimulation. <i>Journal of Korean Society of Spine Surgery</i> , 2001 , 8, 107		1
46	Bone Forming Gene Therapy (Immune Animal Model in Ex Vivo Gene Therapy for Spinal Fusion with Type 5 Adenoviral Delivery of the LIM Mineralization Protein-1 cDNA). <i>Journal of Korean Society of Spine Surgery</i> , 2001 , 8, 437		1
45	Osteoinduction using by Human BMP-2-physio-functional Bioactive Ceramics. <i>The Journal of the Korean Orthopaedic Association</i> , 2007 , 42, 386	0.1	1
44	Responsiveness of Human Intervertebral Disc Cells in Matrix Synthesis To Adenovirus-Mediated Gene Transfer(IGF-1, TGF- β Encoding Genes). <i>Journal of Korean Society of Spine Surgery</i> , 2001 , 8, 195		1
43	Osteogenesis by Transfer of Bone Morphogenetic Protein-2 cDNA in Ligamentum Flavum Cells: Approach Toward Tissue Engineering. <i>Journal of Korean Society of Spine Surgery</i> , 2002 , 9, 263		1
42	Comparison between Posterior Lumbar Interbody Fusion with Pedicle Screw Fixation and Posterolateral Fusion with Pedicle Screw Fixation in Spondylolytic Spondylolisthesis in Adults. <i>Journal of Korean Society of Spine Surgery</i> , 2003 , 10, 104		1
41	Learning Curve for the Thoracoscopic Correction of Spinal Deformities. <i>Journal of Korean Society of Spine Surgery</i> , 2003 , 10, 261		1
40	The Comparison of Biomechanical Changes between Spinous Process Osteotomy and Conventional Laminectomy. <i>Transactions of the Korean Society of Mechanical Engineers, A</i> , 2009 , 33, 645-651	1	1
39	Biomechanical evaluation of a modified proximal humeral locking plate application for distal extra-articular diaphyseal humeral fractures. <i>Journal of Orthopaedic Research</i> , 2021 , 39, 1877-1883	3.8	1
38	Transient fixation of L4 vertebra preserves lumbar motion and function in Lenke Type 5C and 6C scoliosis. <i>Scientific Reports</i> , 2021 , 11, 10192	4.9	1
37	Invasive dental procedures as risk factors for postoperative spinal infection and the effect of antibiotic prophylaxis. <i>Journal of Clinical Periodontology</i> , 2021 , 48, 1270-1280	7.7	1
36	Intraoperative real-time stress in degenerative lumbar spine surgery: simultaneous analysis of electroencephalography signals and heart rate variability: a pilot study. <i>Spine Journal</i> , 2020 , 20, 1203-1210	4.0	1
35	Relationship between Lumbar Disc Degeneration and Back Muscle Degeneration. <i>Journal of Korean Society of Spine Surgery</i> , 2018 , 25, 47	0.2	1
34	Comparison of the Prevalence of Low Back Pain and Related Spinal Diseases among Smokers and Nonsmokers: Using Korean National Health Insurance Database. <i>Clinics in Orthopedic Surgery</i> , 2020 , 12, 200-208	2.9	0
33	Association Between Excessive Joint Laxity and a Wider Hill-Sachs Lesion in Anterior Shoulder Instability. <i>American Journal of Sports Medicine</i> , 2021 , 49, 3981-3987	6.8	0
32	Hand grip strength as a surrogate marker for postoperative changes in spinopelvic alignment in patients with lumbar spinal stenosis. <i>Scientific Reports</i> , 2020 , 10, 13432	4.9	0

- 31 Anterior Plate-Screws and Lower Postoperative T1 Slope Affect Cervical Allospacer Failures in Multi-Level ACDF Surgery: Anterior Versus Posterior Fixation. *Global Spine Journal*, **2021**, 2192568221991515^{2,7} ○
- 30 Incidence rate of congenital scoliosis estimated from a nationwide health insurance database. *Scientific Reports*, **2021**, 11, 5507 4.9 ○
- 29 Anatomic fit of precontoured extra-articular distal humeral locking plates: a cadaveric study. *Clinics in Shoulder and Elbow*, **2021**, 24, 66-71 0.8 ○
- 28 Relationship Between Pelvic Tilt and Lumbar Disc Degeneration. *Journal of Korean Society of Spine Surgery*, **2017**, 24, 176 0.2
- 27 The Relationship Between Preoperative MRI Findings and Clinical Outcomes in Surgical Treatment of Lumbar Disc Herniation. *Journal of Korean Society of Spine Surgery*, **2014**, 21, 24 0.2
- 26 Tissue Engineering of the Intervertebral Disc with Cultured Nucleus Pulposus Cells Using Atelocollagen Scaffold and Gene Therapy. *Journal of Korean Society of Spine Surgery*, **2010**, 17, 49 0.2
- 25 THE RELATION BETWEEN ROTATION DEFORMITY AND NERVE ROOT STRESS IN LUMBAR SCOLIOSIS. *International Journal of Modern Physics B*, **2010**, 24, 2803-2808 1.1
- 24 Dual Roles of Ligamentum Flavum for Spinal Fusion: As an Osteoinductive Agent and Carrier for Ex-vivo Gene Transfer. *Journal of Korean Society of Spine Surgery*, **2003**, 10, 1
- 23 Phospholipase A2in Herniated Lumbar Discs: Its Relevance to Pain. *Journal of Korean Society of Spine Surgery*, **2002**, 9, 8
- 22 Evaluation of Posterolateral Fusion Mass at Lumbosacral Junction Using Standard AP and Ferguson Radiographs. *Journal of Korean Society of Spine Surgery*, **2001**, 8, 235
- 21 Adenovirus-Mediated Therapeutic Gene Transfer: Matrix Synthesis of Human Intervertebral Disc Cells. *Journal of Korean Society of Spine Surgery*, **2001**, 8, 1
- 20 Matrix Synthesis of Human Intervertebral Disc Cells - Effect of Gene Transfer, Exogenous Growth Factor, Incubation Period, and Culture Methods -. *Journal of Korean Society of Spine Surgery*, **2001**, 8, 447
- 19 The Effect of Extracellular Collagen on Synthesis of Extracellular Matrix in a 3-Dimensional Culture of Intervertebral Disc Cells. *Journal of Korean Society of Spine Surgery*, **2002**, 9, 70
- 18 Transforming Growth Factor- β and Bone Morphogenetic Protein-2 Upregulates Matrix Synthesis and Chondrogenic Phenotype in Intervertebral Disc Cells. *Journal of Korean Society of Spine Surgery*, **2002**, 9, 165
- 17 Host Immune Responses to Intradiscal Gene Transfer. *Journal of Korean Society of Spine Surgery*, **2002**, 9, 84
- 16 Molecular Biological and Pathological Aspects of Intercostal Muscles and Intervertebral Discs in Adolescent Idiopathic Scoliosis in Korea. *Journal of Korean Society of Spine Surgery*, **2003**, 10, 209
- 15 Mesenchymal Stem Cell Based Intradiscal Gene Therapy: Therapeutic Implication in Degenerative Disc Disease. *Journal of Korean Society of Spine Surgery*, **2004**, 11, 67
- 14 The Effect of Pulsed Electromagnetic Field in Human Intervertebral Disc Cell. *Journal of Korean Society of Spine Surgery*, **2004**, 11, 194

- 13 Phenotypical Stability and Matrix Synthesis of Human Intervertebral Disc Cells in Response to Dexamethasone and Transforming Growth Factor- β . *Journal of Korean Society of Spine Surgery*, **2005**, 12, 91
- 12 A Multi-center, Double-blind, Randomized and Comparative Clinical Study for the Safety and Analgesic Effect after four-week-treatment with Neurotrophin β in Patients with Low Back Pain: Compared to Aceclofenac. *Journal of Korean Society of Spine Surgery*, **2005**, 12, 214
- 11 Tissue Engineered Intervertebral Disc by Atelocollagen Scaffolds and Growth Factors. *Journal of Korean Society of Spine Surgery*, **2005**, 12, 164
- 10 A Comparison of Bone Mineral Density between Adolescent Idiopathic Scoliosis and Neuromuscular Scoliosis. *Journal of Korean Society of Spine Surgery*, **2007**, 14, 17
- 9 The Effect of Synovial Fluid from Degenerated Facet on Hypertrophy and Ossification of the Ligamentum Flavum. *Journal of Korean Society of Spine Surgery*, **2007**, 14, 25
- 8 Results of Magnetically Controlled Growing Rods for Early Onset Scoliosis. *The Journal of the Korean Orthopaedic Association*, **2018**, 53, 443 0.1
- 7 Early Failure of Cortical-Bone Screw Fixation in the Lumbar Spinal Stenosis. *The Journal of the Korean Orthopaedic Association*, **2020**, 55, 405 0.1
- 6 Arthrodesis Using Bilateral Dual Iliac Screws with Autologous Iliac Bone Transfer for the Treatment of Pyogenic Sacroiliitis. *Yonsei Medical Journal*, **2020**, 61, 198-200 3
- 5 Dual Growing Rod Treatment for Progressive Pediatric Spinal Deformity. *Journal of Korean Society of Spine Surgery*, **2017**, 24, 183 0.2
- 4 Responses to the Letter: Cervical Foraminal and Discal Height after Dynamic Rotational Plating in the Cervical Discectomy and Fusion. *Asian Spine Journal*, **2016**, 10, 405 2.8
- 3 Effect of Smoking on Osteoporotic Vertebral Fracture in Postmenopausal Women. *Journal of Korean Society of Spine Surgery*, **2016**, 23, 1 0.2
- 2 Hypoxia Regulates the Extracellular Matrix via Mitogen-Activated Protein Kinases Pathway in Cells Retrieved from the Human Intervertebral Disc. *Yonsei Medical Journal*, **2021**, 62, 734-742 3
- 1 Direct Internal Fixation for Unstable Atlas Fractures.. *Yonsei Medical Journal*, **2022**, 63, 265-271 3