

Hak-Sun Kim

List of Publications by Year in descending order

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114
papers

1,869
citations

257450

24
h-index

302126

39
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114
all docs

114
docs citations

114
times ranked

2177
citing authors

#	ARTICLE	IF	CITATIONS
1	Scoliosis Imaging: What Radiologists Should Know. <i>Radiographics</i> , 2010, 30, 1823-1842.	3.3	187
2	Reliability of Magnetic Resonance Imaging in Detecting Posterior Ligament Complex Injury in Thoracolumbar Spinal Fractures. <i>Spine</i> , 2000, 25, 2079-2084.	2.0	146
3	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, 1637-1644.	2.0	79
4	Retention of ¹²⁵ I-labeled recombinant human bone morphogenetic protein-2 by biphasic calcium phosphate or a composite sponge in a rabbit posterolateral spine arthrodesis model. <i>Journal of Orthopaedic Research</i> , 2002, 20, 1050-1059.	2.3	67
5	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, 80-86.	1.4	57
6	The Risk Assessment of a Fall in Patients With Lumbar Spinal Stenosis. <i>Spine</i> , 2011, 36, E588-E592.	2.0	53
7	Lumbar Spinal Stenosis: Pathophysiology and Treatment Principle: A Narrative Review. <i>Asian Spine Journal</i> , 2020, 14, 682-693.	2.0	52
8	Surgical Outcome of Lumbar Fusion Surgery in Patients With Parkinson Disease. <i>Journal of Spinal Disorders and Techniques</i> , 2012, 25, 351-355.	1.9	50
9	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, 40-46.	1.5	48
10	Tissue Engineering of the Intervertebral Disc With Cultured Nucleus Pulposus Cells Using Atelocollagen Scaffold and Growth Factors. <i>Spine</i> , 2012, 37, 452-458.	2.0	47
11	Comparison of the Predictive Value of Myelography, Computed Tomography and MRI on the Treadmill Test in Lumbar Spinal Stenosis. <i>Yonsei Medical Journal</i> , 2005, 46, 806.	2.2	45
12	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, 703-709.	2.8	40
13	Cardiopulmonary function and scoliosis severity in idiopathic scoliosis children. <i>Korean Journal of Pediatrics</i> , 2015, 58, 218.	1.9	38
14	The Accuracy of Computed Tomography in Assessing Cervical Pedicle Screw Placement. <i>Spine</i> , 2003, 28, 2441-2446.	2.0	37
15	Comparison of Multi-Echo Dixon Methods with Volume Interpolated Breath-Hold Gradient Echo Magnetic Resonance Imaging in Fat-Signal Fraction Quantification of Paravertebral Muscle. <i>Korean Journal of Radiology</i> , 2015, 16, 1086.	3.4	36
16	The Incidence of New Vertebral Compression Fractures in Women after Kyphoplasty and Factors Involved. <i>Yonsei Medical Journal</i> , 2007, 48, 645.	2.2	34
17	Changes in Vitamin D Status After Surgery in Female Patients With Lumbar Spinal Stenosis and Its Clinical Significance. <i>Spine</i> , 2012, 37, E1326-E1330.	2.0	33
18	Pelvic Obliquity in Neuromuscular Scoliosis. <i>Spine</i> , 2011, 36, 146-152.	2.0	32

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19	Functional Outcomes in Duchenne Muscular Dystrophy Scoliosis. <i>Journal of Bone and Joint Surgery - Series A</i> , 2014, 96, 409-415.	3.0	32
20	Life Expectancy After Lumbar Spine Surgery. <i>Spine</i> , 2008, 33, 2116-2121.	2.0	30
21	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.	2.8	27
22	Postoperative quality of life in patients with progressive neuromuscular scoliosis and their parents. <i>Spine Journal</i> , 2015, 15, 446-453.	1.3	27
23	Modified Step-Cut Osteotomy of the Humerus. <i>Journal of Pediatric Orthopaedics Part B</i> , 1998, 7, 162-166.	0.6	26
24	Bone Metabolism in Postmenopausal Women With Lumbar Spinal Stenosis. <i>Spine</i> , 2008, 33, 2435-2439.	2.0	26
25	The Quantitative Assessment of Risk Factors to Overstress at Adjacent Segments After Lumbar Fusion. <i>Spine</i> , 2011, 36, 1367-1373.	2.0	26
26	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.	2.2	25
27	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-E453.	1.9	23
28	Comparison of Effects of Nonoperative Treatment and Decompression Surgery on Risk of Patients with Lumbar Spinal Stenosis Falling. <i>Journal of Bone and Joint Surgery - Series A</i> , 2014, 96, e110.	3.0	21
29	Antibiotic Microbial Prophylaxis for Spinal Surgery: Comparison between 48 and 72-Hour AMP Protocols. <i>Asian Spine Journal</i> , 2010, 4, 71.	2.0	20
30	Downregulation 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, 515-523.	2.3	20
31	Transpedicular Curettage and Drainage of Infective Lumbar Spondylodiscitis: Technique and Clinical Results. <i>Clinics in Orthopaedic Surgery</i> , 2012, 4, 200.	2.2	19
32	Evidence-Based of Nonoperative Treatment in Adolescent Idiopathic Scoliosis. <i>Asian Spine Journal</i> , 2014, 8, 695.	2.0	19
33	Safety Evaluation of Freehand Lateral Mass Screw Fixation in the Subaxial Cervical Spine. <i>Spine</i> , 2015, 40, 2-5.	2.0	19
34	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, 52-59.	1.4	19
35	Analysis of Single Nucleotide Polymorphism in Adolescent Idiopathic Scoliosis in Korea: For Personalized Treatment. <i>Yonsei Medical Journal</i> , 2013, 54, 500.	2.2	18
36	Incidence and Risk Factors Associated with Superior Mesenteric Artery Syndrome following Surgical Correction of Scoliosis. <i>Asian Spine Journal</i> , 2008, 2, 27.	2.0	18

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37	Biologic Modification of Ligamentum Flavum Cells by Marker Gene Transfer and Recombinant Human Bone Morphogenetic Protein-2. Spine, 2004, 29, 960-965.	2.0	17
38	Value of Preoperative Pulmonary Function Test in Flaccid Neuromuscular Scoliosis Surgery. Spine, 2011, 36, E1391-E1394.	2.0	17
39	Comparison of Surgical Outcomes in Thoracolumbar Fractures Operated with Posterior Constructs Having Varying Fixation Length with Selective Anterior Fusion. Yonsei Medical Journal, 2009, 50, 546.	2.2	16
40	Herniated Intervertebral Disk Induces Hypertrophy and Ossification of Ligamentum Flavum. Journal of Spinal Disorders and Techniques, 2014, 27, 382-389.	1.9	16
41	Comparison between Operated Muscular Dystrophy and Spinal Muscular Atrophy Patients in terms of Radiological, Pulmonary and Functional Outcomes. Asian Spine Journal, 2010, 4, 82.	2.0	16
42	Multiple Levels of Lumbar Spondylolysis - A Case Report -. Asian Spine Journal, 2009, 3, 35.	2.0	15
43	Sagittal Plane Analysis of Adolescent Idiopathic Scoliosis after VATS (Video-Assisted Thoracoscopic) Tj ETQq1 1 0.784314 rgBT /Overl	2.2	14
44	Preoperative Risk Factors of C5 Nerve Root Palsy After Laminectomy and Fusion in Patients With Cervical Myelopathy. Clinical Spine Surgery, 2017, 30, 419-424.	1.3	14
45	Transpedicular curettage and drainage versus combined anterior and posterior surgery in infectious spondylodiscitis. Indian Journal of Orthopaedics, 2014, 48, 74-80.	1.1	12
46	Sexual Dysfunction in Men With Paraparesis in Lumbar Burst Fractures. Spine, 2000, 25, 2187-2190.	2.0	11
47	Intradiscal Electrothermal Treatment for Chronic Lower Back Pain Patients with Internal Disc Disruption. Yonsei Medical Journal, 2005, 46, 539.	2.2	11
48	Relationship between Bone Mineral Density and Spinal Muscle Area in Magnetic Resonance Imaging. Journal of Bone Metabolism, 2015, 22, 197.	1.3	11
49	Prognostic Factors for Surgical Outcomes Including Preoperative Total Knee Replacement and Knee Osteoarthritis Status in Female Patients With Lumbar Spinal Stenosis. Journal of Spinal Disorders and Techniques, 2015, 28, 47-52.	1.9	11
50	Effect of Sagittal Balance on Risk of Falling after Lateral Lumbar Interbody Fusion Surgery Combined with Posterior Surgery. Yonsei Medical Journal, 2017, 58, 1177.	2.2	11
51	Risk Factors Associated with the Halo Phenomenon after Lumbar Fusion Surgery and its Clinical Significance. Asian Spine Journal, 2008, 2, 22.	2.0	11
52	Restoration of Bone Turnover Rate After Decompression Surgery in Patients With Symptomatic Lumbar Spinal Stenosis. Spine, 2009, 34, E635-E639.	2.0	10
53	Which Factors Affect the Stress of Intraoperative Orthopedic Surgeons by Using Electroencephalography Signals and Heart Rate Variability?. Sensors, 2021, 21, 4016.	3.8	10
54	What is a Right Distal Fusion Level for Prevention of Sagittal Imbalance in Multilevel Posterior Cervical Spine Surgery: C7 or T1?. Clinical Spine Surgery, 2018, 31, 441-445.	1.3	9

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55	Usefulness of Noninvasive Positive-pressure Ventilation During Surgery of Flaccid Neuromuscular Scoliosis. <i>Journal of Spinal Disorders and Techniques</i> , 2015, 28, 298-300.	1.9	8
56	Comparison of survival analysis between surgical and non-surgical treatments in Duchenne muscular dystrophy scoliosis. <i>Spine Journal</i> , 2020, 20, 1840-1849.	1.3	8
57	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, 505-510.	1.9	7
58	A Comparison of Autologous and Homologous Transfusions in Spinal Fusion. <i>Yonsei Medical Journal</i> , 2006, 47, 840.	2.2	7
59	Vascular Injury in Thoracolumbar Spinal Surgeries and Role of Angiography in Early Diagnosis and Management. <i>Journal of Spinal Disorders and Techniques</i> , 2010, 23, 418-424.	1.9	7
60	Growing rod technique for the treatment of the traumatic spinopelvic dissociation: a technical trick. <i>Spine Journal</i> , 2016, 16, e209-e214.	1.3	7
61	Anterior Plate-Screws and Lower Postoperative T1 Slope Affect Cervical Allospacer Failures in Multi-Level ACDF Surgery: Anterior Versus Posterior Fixation. <i>Global Spine Journal</i> , 2023, 13, 89-96.	2.3	6
62	Prevalence of Gastrointestinal and Cardiovascular Risk in Patients with Degenerative Lumbar Spinal Disease. <i>Clinics in Orthopedic Surgery</i> , 2020, 12, 343.	2.2	6
63	ACDF With Total En Bloc Resection of Uncinate in Foraminal Stenosis of the Cervical Spine. <i>Clinical Spine Surgery</i> , 2021, 34, E237-E242.	1.3	6
64	Radiographic Morphometry of Lumbar Intervertebral Disc Space in Normal Korean. <i>Journal of Korean Society of Spine Surgery</i> , 2007, 14, 129.	0.3	5
65	The Thoracic Lordosis Correction Improves Sacral Slope and Walking Ability in Neuromuscular Scoliosis. <i>Clinical Spine Surgery</i> , 2016, 29, E413-E420.	1.3	5
66	Efficacy and Safety of Transdermal Buprenorphine versus Oral Tramadol/Acetaminophen in Patients with Persistent Postoperative Pain after Spinal Surgery. <i>Pain Research and Management</i> , 2017, 2017, 1-11.	1.8	5
67	Assessment of Korea's Orthopedic Research Activities in the Top 15 Orthopedic Journals, 2008-2017. <i>Clinics in Orthopedic Surgery</i> , 2019, 11, 237.	2.2	5
68	Cervical foraminal stenosis as a risk factor for cervical kyphosis following cervical laminoplasty. <i>Spine Journal</i> , 2022, 22, 1271-1280.	1.3	5
69	At Least One Cyclic Teriparatide Administration Can Be Helpful to Delay Initial Onset of a New Osteoporotic Vertebral Compression Fracture. <i>Yonsei Medical Journal</i> , 2014, 55, 1576.	2.2	4
70	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.	1.3	4
71	Odontoid osteomyelitis with atlantoaxial subluxation in an infant. <i>European Spine Journal</i> , 2017, 26, 136-140.	2.2	4
72	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.	0.3	3

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73	Video-Assisted Thoracoscopic Surgery for Correction of Adolescent Idiopathic Scoliosis: Comparison of 4.5 mm versus 5.5 mm Rod Constructs. <i>Yonsei Medical Journal</i> , 2010, 51, 753.	2.2	3
74	Results of Dual Growing Rods Treatment for Progressive Pediatric Spinal Deformity. <i>Journal of Korean Society of Spine Surgery</i> , 2013, 20, 8.	0.0	3
75	Short Plate with Screw Angle over 20 Degrees Improves the Radiologic Outcome in ACDF: Clinical Study. <i>Journal of Clinical Medicine</i> , 2021, 10, 2034.	2.4	3
76	Comparison of Mechanical Property of Conventional Rods versus Growing Rods for Pediatric Early Onset Scoliosis. <i>Journal of Korean Society of Spine Surgery</i> , 2010, 17, 177.	0.0	3
77	Clinical Issues in Indication, Correction, and Outcomes of the Surgery for Neuromuscular Scoliosis: Narrative Review in Pedicle Screw Era. <i>Neurospine</i> , 2022, 19, 177-187.	2.9	3
78	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.	0.3	2
79	Intraspinal Clear Cell Meningioma - A Case Report -. <i>The Journal of the Korean Orthopaedic Association</i> , 2008, 43, 518.	0.1	2
80	Video-Assisted Thoracoscopic Surgery Plus Lumbar Mini-Open Surgery for Adolescent Idiopathic Scoliosis. <i>Yonsei Medical Journal</i> , 2011, 52, 130.	2.2	2
81	Efficacy of computed tomography in prediction of operability of L5/S1 foraminal stenosis using region of interest. <i>Medicine (United States)</i> , 2019, 98, e17422.	1.0	2
82	Transient fixation of L4 vertebra preserves lumbar motion and function in Lenke Type 5C and 6C scoliosis. <i>Scientific Reports</i> , 2021, 11, 10192.	3.3	2
83	Hibernoma in Psoas Muscle - A Case Report -. <i>Journal of Korean Society of Spine Surgery</i> , 2006, 13, 306.	0.3	2
84	Growth Factors and Their Clinical Applications. <i>Journal of Korean Society of Spine Surgery</i> , 2001, 8, 372.	0.3	1
85	Matrix Synthesis of Human Intervertebral Disc Cells According to Grade of Degeneration: Under the Basal State and TGF- β 1 Stimulation. <i>Journal of Korean Society of Spine Surgery</i> , 2001, 8, 107.	0.3	1
86	Bone Forming Gene Therapy (Immune Animal Model in Ex Vivo Gene Therapy for Spinal Fusion with Type) Tj ETQq0 0 0 rgBT /Overlock 1 Surgery, 2001, 8, 437.	0.3	1
87	Gelatinous Transformation of Bone Marrow Mimicking Malignant Marrow-Replacing Lesion on Magnetic Resonance Imaging in a Patient without Underlying Devastating Disease. <i>Investigative Magnetic Resonance Imaging</i> , 2018, 22, 50.	0.4	1
88	The Evidence for Nonoperative Treatment of Lumbar Spinal Diseases. <i>Journal of Korean Society of Spine Surgery</i> , 2019, 26, 178.	0.0	1
89	Response to: Evidence-Based of Nonoperative Treatment in Adolescent Idiopathic Scoliosis. <i>Asian Spine Journal</i> , 2015, 9, 315.	2.0	1
90	Responsiveness of Human Intervertebral Disc Cells in Matrix Synthesis To Adenovirus-Mediated Gene Transfer(IGF-1, TGF- β 1 Encoding Genes). <i>Journal of Korean Society of Spine Surgery</i> , 2001, 8, 195.	0.3	1

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91	Osteogenesis by Transfer of Bone Morphogenetic Protein-2 cDNA in Ligamentum Flavum Cells: Approach Toward Tissue Engineering. Journal of Korean Society of Spine Surgery, 2002, 9, 263.	0.3	1
92	Learning Curve for the Thoracoscopic Correction of Spinal Deformities. Journal of Korean Society of Spine Surgery, 2003, 10, 261.	0.3	1
93	Results of Magnetically Controlled Growing Rods for Early Onset Scoliosis. The Journal of the Korean Orthopaedic Association, 2018, 53, 443.	0.1	1
94	Posterior Device Fixation Using Pedicle Screws in Patients with Degenerative Spine Disease: A Prospective, Single-Group, Therapeutic Pilot Study. Journal of Korean Society of Spine Surgery, 2020, 27, 131.	0.0	1
95	Direct Internal Fixation for Unstable Atlas Fractures. Yonsei Medical Journal, 2022, 63, 265.	2.2	1
96	Phospholipase A ₂ in Herniated Lumbar Discs: Its Relevance to Pain. Journal of Korean Society of Spine Surgery, 2002, 9, 8.	0.3	0
97	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.	0.3	0
98	Thoracic Fracture-Dislocations Without Spinal Cord Injury - Two Cases Reports-. Journal of Korean Society of Spine Surgery, 2006, 13, 69.	0.3	0
99	Prevention of New Vertebral Fractures after Treatment with Risedronate, Alendronate or Calcium Carbonate in Patients with Osteoporotic Compression Fracture Treated with Cement Augmentation. The Journal of the Korean Orthopaedic Association, 2009, 44, 436.	0.1	0
100	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.	0.0	0
101	Fistula Formation Between the Disc and Dura after Percutaneous Endoscopic Lumbar Discectomy: A Case Report. Journal of Korean Society of Spine Surgery, 2018, 25, 180.	0.0	0
102	Handgrip Strength Correlated with Falling Risk in Patients with Degenerative Cervical Myelopathy. Journal of Clinical Medicine, 2021, 10, 1980.	2.4	0
103	Transforming Growth Factor- β 1 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.	0.3	0
104	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.	0.3	0
105	The Effect of Pulsed Electromagnetic Field in Human Intervertebral Disc Cell. Journal of Korean Society of Spine Surgery, 2004, 11, 194.	0.3	0
106	Phenotypical Stability and Matrix Synthesis of Human Intervertebral Disc Cells in Response to Dexamethasone and Transforming Growth Factor- β 1. Journal of Korean Society of Spine Surgery, 2005, 12, 91.	0.3	0
107	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.	0.3	0
108	Tissue Engineered Intervertebral Disc by Atelocollagen Scaffolds and Growth Factors. Journal of Korean Society of Spine Surgery, 2005, 12, 164.	0.3	0

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109	A Comparison of Bone Mineral Density between Adolescent Idiopathic Scoliosis and Neuromuscular Scoliosis. Journal of Korean Society of Spine Surgery, 2007, 14, 17.	0.3	0
110	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.	0.3	0
111	Delayed Onset Neurological Deterioration due to a Spinal Epidural Hematoma after a Spine Fracture. Asian Spine Journal, 2007, 1, 98.	2.0	0
112	Polyaxial Screws with Thick Rod versus Monoaxial Screws with Thin Rod in Video-Assisted Thoracoscopic Scoliosis Surgery (VATS). Journal of Korean Society of Spine Surgery, 2008, 15, 9.	0.3	0
113	Gradual Neurologic Deterioration Post Kyphoscoliosis Correction Surgery: A Case Report. Asian Spine Journal, 2012, 6, 140.	2.0	0
114	Dual Growing Rod Treatment for Progressive Pediatric Spinal Deformity. Journal of Korean Society of Spine Surgery, 2017, 24, 183.	0.0	0