Do Heum Yoon

List of Publications by Year in Descending Order

111 papers	2,150 citations	25 h-index	41 g-index
115 ext. papers	2,448 ext. citations	2.7 avg, IF	4.63 L-index

#	Paper	IF	Citations
111	Radiological Changes in Adjacent and Index Levels after Cervical Disc Arthroplasty.. *Yonsei Medical Journal*, **2022**, 63, 72-81	3	0
110	Prediction of angular kyphosis after cervical laminoplasty using radiologic measurements. *Journal of Clinical Neuroscience*, **2021**, 85, 13-19	2.2	2
109	Novel C-arm based planning spine surgery robot proved in a porcine model and quantitative accuracy assessment methodology. *International Journal of Medical Robotics and Computer Assisted Surgery*, **2021**, 17, e2182	2.9	0
108	Clinical and radiological outcomes of multilevel cervical laminoplasty versus three-level anterior cervical discectomy and fusion in patients with cervical spondylotic myelopathy. *Quantitative Imaging in Medicine and Surgery*, **2020**, 10, 2112-2124	3.6	3
107	Association of Frailty and Self-Care Activity With Sagittal Spinopelvic Alignment in the Elderly. *World Neurosurgery*, **2020**, 138, e759-e766	2.1	0
106	Surgical Strategies for Cervical Deformities Associated With Neuromuscular Disorders. *Neurospine*, **2020**, 17, 513-524	3.1	3
105	Comparison of the effectiveness and safety of bioactive glass ceramic to allograft bone for anterior cervical discectomy and fusion with anterior plate fixation. *Neurosurgical Review*, **2020**, 43, 1423-1430	3.9	1
104	Upper Cervical Surgery, Increased Signal Intensity of the Spinal Cord, and Hypertension as Risk Factors for Dyspnea After Multilevel Anterior Cervical Discectomy and Fusion. *Spine*, **2020**, 45, E379-E386	3.3	3
103	Analysis of Risk Factors Associated with Hospital Readmission Within 360 Days After Degenerative Lumbar Spine Surgery in Elderly Patients. *World Neurosurgery*, **2019**, 126, e196-e207	2.1	5
102	Surgical Management of Gorham-Stout Disease in Cervical Compression Fracture with Cervicothoracic Fusion: Case Report and Review of Literature. *World Neurosurgery*, **2019**, 129, 277-281	2.1	8
101	Clinical Efficacy and Safety of Trans-Sacral Epiduroscopic Laser Decompression Compared to Percutaneous Epidural Neuroplasty. *Pain Research and Management*, **2019**, 2019, 2893460	2.6	9
100	Vertebral Reconstruction with Customized 3-Dimensional-Printed Spine Implant Replacing Large Vertebral Defect with 3-Year Follow-up. *World Neurosurgery*, **2019**, 126, 90-95	2.1	14
99	Treatment outcomes of 17 patients with atypical spinal meningioma, including 4 with metastases: a retrospective observational study. *Spine Journal*, **2019**, 19, 276-284	4	9
98	Evaluating the differences between 1D, 2D, and 3D occupying ratios in reflecting the JOA score in cervical ossification of the posterior longitudinal ligament. *Quantitative Imaging in Medicine and Surgery*, **2019**, 9, 952-959	3.6	5
97	Patterns of short-term and long-term surgical outcomes and prognostic factors for cervical ossification of the posterior longitudinal ligament between anterior cervical corpectomy and fusion and posterior laminoplasty. *Neurosurgical Review*, **2019**, 42, 907-913	3.9	3
96	Impact of H3.3 K27M Mutation on Prognosis and Survival of Grade IV Spinal Cord Glioma on the Basis of New 2016 World Health Organization Classification of the Central Nervous System. *Neurosurgery*, **2019**, 84, 1072-1081	3.2	43
95	Biomechanical Comparison of Four Different Atlantoaxial Posterior Fixation Constructs in Adults: A Finite Element Study. *Spine*, **2018**, 43, E891-E897	3.3	15

94	Feasibility of a Modified E-PASS and POSSUM System for Postoperative Risk Assessment in Patients with Spinal Disease. *World Neurosurgery*, **2018**, 112, e95-e102	2.1	
93	Effect of posterior instrumented fusion on three-dimensional volumetric growth of cervical ossification of the posterior longitudinal ligament: a multiple regression analysis. *Spine Journal*, **2018**, 18, 1779-1786	4	18
92	Influence of plate fixation on cervical height and alignment after one- or two-level anterior cervical discectomy and fusion. *British Journal of Neurosurgery*, **2018**, 32, 188-195	1	7
91	Factors associated with surgical outcomes of cervical ossification of the posterior longitudinal ligament. *Medicine (United States)*, **2018**, 97, e11342	1.8	7
90	Prevalence, Incidence, Comorbidity, and Mortality Rates of Ossification of Posterior Longitudinal Ligament in the Cervical Spine: A Nested Case-Control Cohort Study. *World Neurosurgery*, **2018**, 117, e323-e328	2.1	11
89	Anatomical variations of vertebral artery and C2 isthmus in atlanto-axial fusion: Consecutive surgical 100 cases. *Journal of Clinical Neuroscience*, **2018**, 53, 147-152	2.2	11
88	An effect comparison of teriparatide and bisphosphonate on posterior lumbar interbody fusion in patients with osteoporosis: a prospective cohort study and preliminary data. *European Spine Journal*, **2017**, 26, 691-697	2.7	41
87	Artificial Disk Replacement Combined With Fusion Versus 2-Level Fusion in Cervical 2-Level Disk Disease With a 5-Year Follow-up. *Clinical Spine Surgery*, **2017**, 30, E620-E627	1.8	13
86	Comparison of Outcomes of Anterior, Posterior, and Transforaminal Lumbar Interbody Fusion Surgery at a Single Lumbar Level with Degenerative Spinal Disease. *World Neurosurgery*, **2017**, 101, 216-226	2.1	60
85	Sacral Reconstruction with a 3D-Printed Implant after Hemisacrectomy in a Patient with Sacral Osteosarcoma: 1-Year Follow-Up Result. *Yonsei Medical Journal*, **2017**, 58, 453-457	3	69
84	Effectiveness and tolerability of transdermal buprenorphine patches: a multicenter, prospective, open-label study in Asian patients with moderate to severe chronic musculoskeletal pain. *BMC Musculoskeletal Disorders*, **2017**, 18, 337	2.8	14
83	Automated Pressure-Controlled Discography in Patients Undergoing Anterior Lumbar Interbody Fusion for Discogenic Back Pain. *World Neurosurgery*, **2017**, 97, 8-15	2.1	4
82	Inter- and Intra-Observer Variability of the Volume of Cervical Ossification of the Posterior Longitudinal Ligament Using Medical Image Processing Software. *Journal of Korean Neurosurgical Society*, **2017**, 60, 441-447	2.3	6
81	Characteristics of Cervical Spine Trauma in Patients with Ankylosing Spondylitis and Ossification of the Posterior Longitudinal Ligament. *World Neurosurgery*, **2016**, 96, 202-208	2.1	6
80	Progression of Coronal Cobb Angle After Short-Segment Lumbar Interbody Fusion in Patients with Degenerative Lumbar Stenosis. *World Neurosurgery*, **2016**, 89, 510-6	2.1	6
79	Paradoxical Radiographic Changes of Coflex Interspinous Device with Minimum 2-Year Follow-Up in Lumbar Spinal Stenosis. *World Neurosurgery*, **2016**, 85, 177-84	2.1	9
78	Clinical Characteristics and Surgical Outcome of Revision Surgery in Patients with Cervical Ossification of the Posterior Longitudinal Ligament. *World Neurosurgery*, **2016**, 90, 164-171	2.1	11
77	Correlation between cervical spine sagittal alignment and clinical outcome after cervical laminoplasty for ossification of the posterior longitudinal ligament. *Journal of Neurosurgery: Spine*, **2016**, 24, 100-7	2.8	52

76	Compression Angle of Ossification of the Posterior Longitudinal Ligament and Its Clinical Significance in Cervical Myelopathy. *Journal of Korean Neurosurgical Society*, **2016**, 59, 471-7	2.3	1
75	Therapeutic Use of 3Ē[N-(NŢNŦDimethylaminoethane) Carbamoyl] Cholesterol-Modified PLGA Nanospheres as Gene Delivery Vehicles for Spinal Cord Injury. *PLoS ONE*, **2016**, 11, e0147389	3.7	24
74	Relationship between T1 slope and loss of lordosis after laminoplasty in patients with cervical ossification of the posterior longitudinal ligament. *Spine Journal*, **2016**, 16, 219-25	4	59
73	Clinical Outcomes of Correcting Cervical Deformity in Cerebral Palsy Patients. *World Neurosurgery*, **2016**, 96, 500-509	2.1	2
72	Finite Element Analysis of the Effect of Epidural Adhesions. *Pain Physician*, **2016**, 19, E787-93	1.8	2
71	Human Adipose Stem Cells Improve Mechanical Allodynia and Enhance Functional Recovery in a Rat Model of Neuropathic Pain. *Tissue Engineering - Part A*, **2015**, 21, 2044-52	3.9	17
70	Human-induced pluripotent stem cells generated from intervertebral disc cells improve neurologic functions in spinal cord injury. *Stem Cell Research and Therapy*, **2015**, 6, 125	8.3	21
69	Multifunctional nanoparticles for gene delivery and spinal cord injury. *Journal of Biomedical Materials Research - Part A*, **2015**, 103, 3474-82	5.4	20
68	A Gene and Neural Stem Cell Therapy Platform Based on Neuronal Cell Type-Inducible Gene Overexpression. *Yonsei Medical Journal*, **2015**, 56, 1036-43	3	4
67	Three Cases of Spine Fractures after an Airplane Crash. *Korean Journal of Neurotrauma*, **2015**, 11, 195-200	0.7	2
66	The use of magnetic resonance imaging in predicting the clinical outcome of spinal arteriovenous fistula. *Yonsei Medical Journal*, **2015**, 56, 397-402	3	10
65	A morphometric analysis of contralateral neural foramen in TLIF. *European Spine Journal*, **2015**, 24, 783-90	2.7	5
64	Surgical outcome and prognostic factors of anterior decompression and fusion for cervical compressive myelopathy due to ossification of the posterior longitudinal ligament. *Spine Journal*, **2015**, 15, 875-84	4	72
63	Experimental Evaluation of Percutaneous Lumbar Laser Disc Decompression Using a 1414 nm Nd:YAG Laser. *Pain Physician*, **2015**, 18, E1091-9	1.8	11
62	Effect of combined bevacizumab and temozolomide treatment on intramedullary spinal cord tumor. *Spine*, **2014**, 39, E65-73	3.3	10
61	Use of Annular Closure Device (Barricaid) for Preventing Lumbar Disc Reherniation: One-Year Results of Three Cases. *Korean Journal of Neurotrauma*, **2014**, 10, 119-22	0.7	13
60	Association between urine cotinine levels and bone mineral density in lumbar spine and femoral neck among adult males. *Spine*, **2014**, 39, 311-7	3.3	7
59	The fate of heterotopic ossification associated with cervical artificial disc replacement. *Spine*, **2014**, 39, 2078-83	3.3	28

58	Robotic resection of huge presacral tumors: case series and comparison with an open resection. *Journal of Spinal Disorders and Techniques*, **2014**, 27, E151-4		22
57	Co-transplantation of bone marrow-derived mesenchymal stem cells and nanospheres containing FGF-2 improve cell survival and neurological function in the injured rat spinal cord. *Acta Neurochirurgica*, **2014**, 156, 297-303	3	20
56	Long-term surgical outcomes of cervical myelopathy with athetoid cerebral palsy. *European Spine Journal*, **2014**, 23, 1464-71	2.7	19
55	Rosai-dorfman disease in thoracic spine: a rare case of compression fracture. *Korean Journal of Spine*, **2014**, 11, 198-201		6
54	Clinical features and surgical outcomes of primary cauda equina tumours. *Acta Neurochirurgica*, **2013**, 155, 1911-6	3	2
53	The predisposing factors for the heterotopic ossification after cervical artificial disc replacement. *Spine Journal*, **2013**, 13, 1048-54	4	73
52	Association between low-back pain and lumbar spine bone density: a population-based cross-sectional study. *Journal of Neurosurgery: Spine*, **2013**, 19, 307-13	2.8	9
51	Stand-alone cervical cages versus anterior cervical plate in 2-level cervical anterior interbody fusion patients: clinical outcomes and radiologic changes. *Journal of Spinal Disorders and Techniques*, **2013**, 26, 415-20		26
50	Radiofrequency ablation of spine: an experimental study in an ex vivo bovine and in vivo swine model for feasibility in spine tumor. *Spine*, **2013**, 38, E1121-7	3.3	4
49	Thoracolumbar extradural arachnoid cysts: a study of 14 consecutive cases. *Acta Neurochirurgica*, **2012**, 154, 341-8; discussion 348	3	25
48	Chitosan/TPP-hyaluronic acid nanoparticles: a new vehicle for gene delivery to the spinal cord. *Journal of Biomaterials Science, Polymer Edition*, **2012**, 23, 1437-50	3.5	21
47	Initial clinical outcomes of minimally invasive lateral lumbar interbody fusion in degenerative lumbar disease: a preliminary report on the experience of a single institution with 30 cases. *Korean Journal of Spine*, **2012**, 9, 187-92		5
46	Spinal cord hemangioblastomas in von hippel-lindau disease: management of asymptomatic and symptomatic tumors. *Yonsei Medical Journal*, **2012**, 53, 1073-80	3	6
45	A histopathological diagnostic marker for human spinal astrocytoma: expression of glial fibrillary acidic protein-□*Journal of Neuro-Oncology*, **2012**, 108, 45-52	4.8	20
44	Hypoxia-specific VEGF-expressing neural stem cells in spinal cord injury model. *NeuroReport*, **2012**, 23, 174-8	1.7	15
43	Transplantation of an adipose stem cell cluster in a spinal cord injury. *NeuroReport*, **2012**, 23, 277-82	1.7	37
42	Rapid recovery of tissue hypoxia by cotransplantation of endothelial cells. *NeuroReport*, **2012**, 23, 658-62	1.7	1
41	Correction of Coronal Imbalance in Degenerative Lumbar Spine Disease Following Direct Lateral Interbody Fusion (DLIF). *Korean Journal of Spine*, **2012**, 9, 176-80		11

40	Intraoperative indocyanine green video-angiography: spinal dural arteriovenous fistula. *Spine*, **2011**, 36, E1578-80	3.3	21
39	Neural stem cells modified by a hypoxia-inducible VEGF gene expression system improve cell viability under hypoxic conditions and spinal cord injury. *Spine*, **2011**, 36, 857-64	3.3	14
38	Robot-assisted anterior lumbar interbody fusion in a Swine model in vivo test of the da vinci surgical-assisted spinal surgery system. *Spine*, **2011**, 36, E139-43	3.3	27
37	Hypoxia-induced expression of VEGF in the organotypic spinal cord slice culture. *NeuroReport*, **2011**, 22, 55-60	1.7	5
36	Cotransplantation of mouse neural stem cells (mNSCs) with adipose tissue-derived mesenchymal stem cells improves mNSC survival in a rat spinal cord injury model. *Cell Transplantation*, **2011**, 20, 837-49	4	46
35	The clinical features and surgical outcomes of patients with intramedullary spinal cord cavernous malformations. *Acta Neurochirurgica*, **2011**, 153, 1677-84; discussion 1685	3	24
34	Robot-assisted transoral odontoidectomy : experiment in new minimally invasive technology, a cadaveric study. *Journal of Korean Neurosurgical Society*, **2011**, 49, 248-51	2.3	18
33	Comparison of the Outcomes after Intralesional, Intracisternal, and Intravenous Transplantation of Human Bone Marrow Derived Mesenchymal Stem Cells for Spinal Cord Injured Rat. *Korean Journal of Spine*, **2011**, 8, 88		
32	Primary spinal cord melanoma. *Journal of Korean Neurosurgical Society*, **2010**, 48, 157-61	2.3	35
31	Hypoxia-preconditioned adipose tissue-derived mesenchymal stem cell increase the survival and gene expression of engineered neural stem cells in a spinal cord injury model. *Neuroscience Letters*, **2010**, 472, 215-9	3.3	67
30	Neuroprotective effects of mexiletine on motor evoked potentials in demyelinated rat spinal cords. *Neuroscience Research*, **2010**, 67, 59-64	2.9	4
29	Difference in occurrence of heterotopic ossification according to prosthesis type in the cervical artificial disc replacement. *Spine*, **2010**, 35, 1556-61	3.3	96
28	Effect of primate bone marrow stromal cells on survival and neurite outgrowth. *NeuroReport*, **2010**, 21, 877-81	1.7	3
27	Cervical spondylolysis: three cases and a review of the current literature. *Spine*, **2010**, 35, E80-3	3.3	12
26	Neuroprotective effect of combined hypoxia-induced VEGF and bone marrow-derived mesenchymal stem cell treatment. *Childs Nervous System*, **2010**, 26, 323-31	1.7	16
25	Pediatric cervical chordoma: report of two cases and a review of the current literature. *Childs Nervous System*, **2010**, 26, 835-40	1.7	17
24	Robot-assisted anterior lumbar interbody fusion (ALIF) using retroperitoneal approach. *Acta Neurochirurgica*, **2010**, 152, 675-9	3	32
23	Controlled nonviral gene delivery and expression using stable neural stem cell line transfected with a hypoxia-inducible gene expression system. *Journal of Gene Medicine*, **2010**, 12, 990-1001	3.5	22

22	Comparison of anterior cervical foraminotomy vs arthroplasty for unilateral cervical radiculopathy. *World Neurosurgery*, **2009**, 71, 677-80, discussion 680		15
21	Radiologically documented adjacent-segment degeneration after cervical arthroplasty: characteristics and review of cases. *World Neurosurgery*, **2009**, 72, 325-9; discussion 329		19
20	Artificial disc replacement combined with fusion versus two-level fusion in cervical two-level disc disease. *Spine*, **2009**, 34, 1153-9; discussion 1160-1	3.3	90
19	The efficacy of microendoscopic discectomy in reducing iatrogenic muscle injury. *Journal of Neurosurgery: Spine*, **2008**, 8, 39-43	2.8	81
18	Effect of ramosetron on patient-controlled analgesia related nausea and vomiting after spine surgery in highly susceptible patients: comparison with ondansetron. *Spine*, **2008**, 33, E602-6	3.3	53
17	A dumbbell-shaped solitary fibrous tumor of the cervical spinal cord. *Yonsei Medical Journal*, **2008**, 49, 167-70	3	10
16	Early results from posterior cervical fusion with a screw-rod system. *Yonsei Medical Journal*, **2007**, 48, 440-8	3	11
15	Early clinical experience with the mobi-C disc prosthesis. *Yonsei Medical Journal*, **2007**, 48, 457-64	3	27
14	Spinal cord tumors of the thoracolumbar junction requiring surgery: a retrospective review of clinical features and surgical outcome. *Yonsei Medical Journal*, **2007**, 48, 988-93	3	1
13	Modified techniques to prevent sagittal imbalance after cervical arthroplasty. *Spine*, **2007**, 32, 1986-91	3.3	36
12	Posterior lumbar interbody fusion via a unilateral approach. *Yonsei Medical Journal*, **2006**, 47, 319-25	3	12
11	Postoperative spinal epidural hematoma: risk factor and clinical outcome. *Yonsei Medical Journal*, **2006**, 47, 326-32	3	103
10	Effects of glial transplantation on functional recovery following acute spinal cord injury. *Journal of Neurotrauma*, **2005**, 22, 575-89	5.4	45
9	Surgical management of spinal disease in renal recipients. *Clinical Transplantation*, **2005**, 19, 632-7	3.8	10
8	Effects of methylprednisolone on the neural conduction of the motor evoked potentials in spinal cord injured rats. *Journal of Korean Medical Science*, **2005**, 20, 132-8	4.7	11
7	Real-time CT fluoroscopy (CTF)-guided vertebroplasty in osteoporotic spine fractures. *Yonsei Medical Journal*, **2005**, 46, 635-42	3	10
6	Posterolateral Approach of Percutaneous Vertebroplasty in Thoracolumbar Fractures. *Journal of Korean Neurotraumatology Society*, **2005**, 1, 61		1
5	Hemorrhagic Complication after Spine Surgery. *Journal of Korean Neurotraumatology Society*, **2005**, 1, 98		

4	Posterior atlantoaxial dislocation without fracture. Case report. *Journal of Neurosurgery: Spine*, **2003**, 98, 73-6	2.8	14
3	Thoracoscopic limited T-3 sympathicotomy for primary hyperhidrosis: prevention for compensatory hyperhidrosis. *Journal of Neurosurgery: Spine*, **2003**, 99, 39-43	2.8	17
2	Oncocytoma of the spinal cord. Case report. *Journal of Neurosurgery: Spine*, **2001**, 94, 310-2	2.8	7
1	Therapeutic time window for methylprednisolone in spinal cord injured rat. *Yonsei Medical Journal*, **1999**, 40, 313-20	3	20