

Keung Nyun Kim

List of Publications by Year in descending order

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Version: 2024-02-01

83
papers

1,427
citations

430754

18
h-index

395590

33
g-index

85
all docs

85
docs citations

85
times ranked

1813
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Clinical Trial of Human Fetal Brain-Derived Neural Stem/Progenitor Cell Transplantation in Patients with Traumatic Cervical Spinal Cord Injury. <i>Neural Plasticity</i> , 2015, 2015, 1-22. | 1.0 | 104 |
| 2 | Sacral Reconstruction with a 3D-Printed Implant after Hemisacrectomy in a Patient with Sacral Osteosarcoma: 1-Year Follow-Up Result. <i>Yonsei Medical Journal</i> , 2017, 58, 453. | 0.9 | 93 |
| 3 | Comparison of Outcomes of Anterior, Posterior, and Transforaminal Lumbar Interbody Fusion Surgery at a Single Lumbar Level with Degenerative Spinal Disease. <i>World Neurosurgery</i> , 2017, 101, 216-226. | 0.7 | 91 |
| 4 | Surgical outcome and prognostic factors of anterior decompression and fusion for cervical compressive myelopathy due to ossification of the posterior longitudinal ligament. <i>Spine Journal</i> , 2015, 15, 875-884. | 0.6 | 85 |
| 5 | Relationship between T1 slope and loss of lordosis after laminoplasty in patients with cervical ossification of the posterior longitudinal ligament. <i>Spine Journal</i> , 2016, 16, 219-225. | 0.6 | 83 |
| 6 | Correlation between cervical spine sagittal alignment and clinical outcome after cervical laminoplasty for ossification of the posterior longitudinal ligament. <i>Journal of Neurosurgery: Spine</i> , 2016, 24, 100-107. | 0.9 | 67 |
| 7 | An effect comparison of teriparatide and bisphosphonate on posterior lumbar interbody fusion in patients with osteoporosis: a prospective cohort study and preliminary data. <i>European Spine Journal</i> , 2017, 26, 691-697. | 1.0 | 60 |
| 8 | 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. <i>Neurosurgery</i> , 2019, 84, 1072-1081. | 0.6 | 59 |
| 9 | Comparison of functional and histological outcomes after intraslesional, intracisternal, and intravenous transplantation of human bone marrow-derived mesenchymal stromal cells in a rat model of spinal cord injury. <i>Acta Neurochirurgica</i> , 2013, 155, 1943-1950. | 0.9 | 36 |
| 10 | Thoracolumbar extradural arachnoid cysts: a study of 14 consecutive cases. <i>Acta Neurochirurgica</i> , 2012, 154, 341-348. | 0.9 | 33 |
| 11 | The Fate of Heterotopic Ossification Associated With Cervical Artificial Disc Replacement. <i>Spine</i> , 2014, 39, 2078-2083. | 1.0 | 32 |
| 12 | Therapeutic Use of 3 rd -[N-(Na ⁺ , Na ⁺ -Dimethylaminoethane) Carbamoyl] Cholesterol-Modified PLGA Nanospheres as Gene Delivery Vehicles for Spinal Cord Injury. <i>PLoS ONE</i> , 2016, 11, e0147389. | 1.1 | 30 |
| 13 | The clinical features and surgical outcomes of pediatric patients with primary spinal cord tumor. <i>Child's Nervous System</i> , 2012, 28, 897-904. | 0.6 | 29 |
| 14 | The risk factors associated with delirium after lumbar spine surgery in elderly patients. <i>Quantitative Imaging in Medicine and Surgery</i> , 2019, 9, 700-710. | 1.1 | 26 |
| 15 | 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. <i>Acta Neurochirurgica</i> , 2014, 156, 297-303. | 0.9 | 24 |
| 16 | Long-term surgical outcomes of cervical myelopathy with athetoid cerebral palsy. <i>European Spine Journal</i> , 2014, 23, 1464-1471. | 1.0 | 23 |
| 17 | Effect of posterior instrumented fusion on three-dimensional volumetric growth of cervical ossification of the posterior longitudinal ligament: a multiple regression analysis. <i>Spine Journal</i> , 2018, 18, 1779-1786. | 0.6 | 21 |
| 18 | Matched Comparison of Fusion Rates between Hydroxyapatite Demineralized Bone Matrix and Autograft in Lumbar Interbody Fusion. <i>Journal of Korean Neurosurgical Society</i> , 2016, 59, 363. | 0.5 | 20 |

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|----|---|-----|-----------|
| 19 | Parkinson's disease-related non-motor features as risk factors for post-operative delirium in spinal surgery. PLoS ONE, 2018, 13, e0195749. | 1.1 | 19 |
| 20 | 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. | 0.7 | 18 |
| 21 | Treatment outcomes of 17 patients with atypical spinal meningioma, including 4 with metastases: a retrospective observational study. Spine Journal, 2019, 19, 276-284. | 0.6 | 18 |
| 22 | The Use of Magnetic Resonance Imaging in Predicting the Clinical Outcome of Spinal Arteriovenous Fistula. Yonsei Medical Journal, 2015, 56, 397. | 0.9 | 17 |
| 23 | Anatomical variations of vertebral artery and C2 isthmus in atlanto-axial fusion: Consecutive surgical 100 cases. Journal of Clinical Neuroscience, 2018, 53, 147-152. | 0.8 | 17 |
| 24 | Use of Annular Closure Device (Barricaid®) for Preventing Lumbar Disc Reherniation: One-Year Results of Three Cases. Korean Journal of Neurotrauma, 2014, 10, 119. | 0.2 | 16 |
| 25 | Vertebral Reconstruction with Customized 3-Dimensional 3D-Printed Spine Implant Replacing Large Vertebral Defect with 3-Year Follow-up. World Neurosurgery, 2019, 126, 90-95. | 0.7 | 16 |
| 26 | Efficacy of Percutaneous Epidural Neuroplasty Does Not Correlate with Dural Sac Cross-Sectional Area in Single Level Disc Disease. Yonsei Medical Journal, 2015, 56, 691. | 0.9 | 15 |
| 27 | Clinical Characteristics and Surgical Outcome of Revision Surgery in Patients with Cervical Ossification of the Posterior Longitudinal Ligament. World Neurosurgery, 2016, 90, 164-171. | 0.7 | 14 |
| 28 | 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. | 0.4 | 14 |
| 29 | Association of miR-146a, miR-149, miR-196a2, and miR-499 Polymorphisms with Ossification of the Posterior Longitudinal Ligament of the Cervical Spine. PLoS ONE, 2016, 11, e0159756. | 1.1 | 14 |
| 30 | Clinical Significance of Epidurography Contrast Patterns after Adhesiolysis during Lumbar Percutaneous Epidural Neuroplasty. Pain Research and Management, 2018, 2018, 1-8. | 0.7 | 13 |
| 31 | Clinical Efficacy and Safety of Trans-Sacral Epiduroscopic Laser Decompression Compared to Percutaneous Epidural Neuroplasty. Pain Research and Management, 2019, 2019, 1-7. | 0.7 | 13 |
| 32 | Experimental Evaluation of Percutaneous Lumbar Laser Disc Decompression Using a 1414 nm Nd:YAG Laser. Pain Physician, 2015, 18, E1091-9. | 0.3 | 13 |
| 33 | Paradoxical Radiographic Changes of Coflex Interspinous Device with Minimum 2-Year Follow-Up in Lumbar Spinal Stenosis. World Neurosurgery, 2016, 85, 177-184. | 0.7 | 12 |
| 34 | 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. | 0.7 | 12 |
| 35 | Correction of Coronal Imbalance in Degenerative Lumbar Spine Disease Following Direct Lateral Interbody Fusion (DLIF). Korean Journal of Spine, 2012, 9, 176. | 0.9 | 12 |
| 36 | Characteristics of Cervical Spine Trauma in Patients with Ankylosing Spondylitis and Ossification of the Posterior Longitudinal Ligament. World Neurosurgery, 2016, 96, 202-208. | 0.7 | 11 |

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|----|---|-----|-----------|
| 37 | Clinical and radiological outcomes of multilevel cervical laminoplasty versus three-level anterior cervical discectomy and fusion in patients with cervical spondylotic myelopathy. <i>Quantitative Imaging in Medicine and Surgery</i> , 2020, 10, 2112-2124. | 1.1 | 11 |
| 38 | Risk factors for reoperation after lumbar spine surgery in a 10-year Korean national health insurance service health examinee cohort. <i>Scientific Reports</i> , 2022, 12, 4606. | 1.6 | 11 |
| 39 | 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. <i>Neurosurgical Review</i> , 2019, 42, 907-913. | 1.2 | 10 |
| 40 | Efficacy and Safety of Sodium Hyaluronate with 1,4-Butanediol Diglycidyl Ether Compared to Sodium Carboxymethylcellulose in Preventing Adhesion Formation after Lumbar Discectomy. <i>Korean Journal of Spine</i> , 2015, 12, 41. | 0.9 | 9 |
| 41 | Progression of Coronal Cobb Angle After Short-Segment Lumbar Interbody Fusion in Patients with Degenerative Lumbar Stenosis. <i>World Neurosurgery</i> , 2016, 89, 510-516. | 0.7 | 9 |
| 42 | Influence of diabetes mellitus on patients with lumbar spinal stenosis: A nationwide population-based study. <i>PLoS ONE</i> , 2019, 14, e0213858. | 1.1 | 9 |
| 43 | Clinical, Radiographic, and Genetic Analyses in a Population-Based Cohort of Adult Spinal Deformity in the Older Population. <i>Neurospine</i> , 2021, 18, 608-617. | 1.1 | 9 |
| 44 | Efficacy and Safety of a Thrombin-Containing Collagen-Based Hemostatic Agent in Spinal Surgery: A Randomized Clinical Trial. <i>World Neurosurgery</i> , 2021, 154, e215-e221. | 0.7 | 9 |
| 45 | Effect of the type of electrical stimulation on spinal fusion in a rat posterolateral spinal fusion model. <i>Spine Journal</i> , 2019, 19, 1106-1120. | 0.6 | 8 |
| 46 | Comparison of the effectiveness and safety of bioactive glass ceramic to allograft bone for anterior cervical discectomy and fusion with anterior plate fixation. <i>Neurosurgical Review</i> , 2020, 43, 1423-1430. | 1.2 | 8 |
| 47 | Surgical Strategies for Cervical Deformities Associated With Neuromuscular Disorders. <i>Neurospine</i> , 2020, 17, 513-524. | 1.1 | 8 |
| 48 | Evaluating the differences between 1D, 2D, and 3D occupying ratios in reflecting the JOA score in cervical ossification of the posterior longitudinal ligament. <i>Quantitative Imaging in Medicine and Surgery</i> , 2019, 9, 952-959. | 1.1 | 7 |
| 49 | Novel Câ€arm based planning spine surgery robot proved in a porcine model and quantitative accuracy assessment methodology. <i>International Journal of Medical Robotics and Computer Assisted Surgery</i> , 2021, 17, e2182. | 1.2 | 7 |
| 50 | Surgical Strategy for Sacral Tumor Resection. <i>Yonsei Medical Journal</i> , 2021, 62, 59. | 0.9 | 7 |
| 51 | Influence of Osteoporosis Following Spine Surgery on Reoperation, Readmission, and Economic Costs: An 8-Year Nationwide Population-Based Study in Korea. <i>World Neurosurgery</i> , 2021, 149, e360-e368. | 0.7 | 7 |
| 52 | Rosai-Dorfman Disease in Thoracic Spine: A Rare Case of Compression Fracture. <i>Korean Journal of Spine</i> , 2014, 11, 198. | 0.9 | 7 |
| 53 | Inter- and Intra-Observer Variability of the Volume of Cervical Ossification of the Posterior Longitudinal Ligament Using Medical Image Processing Software. <i>Journal of Korean Neurosurgical Society</i> , 2017, 60, 441-447. | 0.5 | 7 |
| 54 | Lactoferrin-Anchored Tannylated Mesoporous Silica Nanomaterials for Enhanced Osteo-Differentiation Ability. <i>Pharmaceutics</i> , 2021, 13, 30. | 2.0 | 7 |

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|----|--|-----|-----------|
| 55 | 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. | 0.9 | 6 |
| 56 | Feasibility of Translaminar Screw Placement in Korean Population: Morphometric Analysis of Cervical Spine. Yonsei Medical Journal, 2015, 56, 159. | 0.9 | 6 |
| 57 | Postoperative Cervical Sagittal Realignment Improves Patient-Reported Outcomes in Chronic Atlantoaxial Anterior Dislocation. Operative Neurosurgery, 2018, 15, 643-650. | 0.4 | 6 |
| 58 | Accuracy and Safety of Lateral Vertebral Notch-Referred Technique Used in Subaxial Cervical Pedicle Screw Placement. Operative Neurosurgery, 2019, 17, 52-60. | 0.4 | 6 |
| 59 | Independent Correlation of the C1â€2 Cobb Angle With Patient-Reported Outcomes After Correcting Chronic Atlantoaxial Instability. Neurospine, 2019, 16, 267-276. | 1.1 | 6 |
| 60 | Laminectomy with instrumented fusion vs. laminoplasty in the surgical treatment of cervical ossification of the posterior longitudinal ligament: A multicenter retrospective study. Journal of Clinical Neuroscience, 2021, 94, 271-280. | 0.8 | 6 |
| 61 | Automated Pressure-Controlled Discography in Patients Undergoing Anterior Lumbar Interbody Fusion for Discogenic Back Pain. World Neurosurgery, 2017, 97, 8-15. | 0.7 | 5 |
| 62 | 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. | 0.7 | 5 |
| 63 | Prediction of angular kyphosis after cervical laminoplasty using radiologic measurements. Journal of Clinical Neuroscience, 2021, 85, 13-19. | 0.8 | 5 |
| 64 | Preoperative Cognitive Impairment as a Predictor of Postoperative Outcomes in Elderly Patients Undergoing Spinal Surgery for Degenerative Spinal Disease. Journal of Clinical Medicine, 2021, 10, 1385. | 1.0 | 5 |
| 65 | Randomized Controlled Study of Percutaneous Epidural Neuroplasty Using Racz Catheter and Epidural Steroid Injection in Cervical Disc Disease. Pain Physician, 2016, 19, 39-48. | 0.3 | 5 |
| 66 | An optimal cortical bone trajectory technique to prevent early surgical complications. British Journal of Neurosurgery, 2020, , 1-7. | 0.4 | 4 |
| 67 | Association of Frailty and Self-Care Activity With Sagittal Spinopelvic Alignment in the Elderly. World Neurosurgery, 2020, 138, e759-e766. | 0.7 | 4 |
| 68 | Effect of primate bone marrow stromal cells on survival and neurite outgrowth. NeuroReport, 2010, 21, 877-881. | 0.6 | 3 |
| 69 | Biologic Response of Degenerative Living Human Nucleus Pulposus Cells to Treatment with Cytokines. Yonsei Medical Journal, 2015, 56, 277. | 0.9 | 3 |
| 70 | Three Cases of Spine Fractures after an Airplane Crash. Korean Journal of Neurotrauma, 2015, 11, 195. | 0.2 | 3 |
| 71 | Clinical Outcomes of Correcting Cervical Deformity in Cerebral Palsy Patients. World Neurosurgery, 2016, 96, 500-509. | 0.7 | 3 |
| 72 | Finite Element Analysis of the Effect of Epidural Adhesions. Pain Physician, 2016, 19, E787-93. | 0.3 | 3 |

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|----|--|-----|-----------|
| 73 | Clinical features and surgical outcomes of primary cauda equina tumours. <i>Acta Neurochirurgica</i> , 2013, 155, 1911-1916. | 0.9 | 2 |
| 74 | Natural history and aggravating factors of sagittal imbalance in marked sagittal deformity compared with mild to moderate sagittal deformity. <i>Medicine (United States)</i> , 2020, 99, e19551. | 0.4 | 2 |
| 75 | Revision Surgery for a Failed Artificial Disc. <i>Yonsei Medical Journal</i> , 2021, 62, 240. | 0.9 | 2 |
| 76 | Association of frailty with regional sagittal spinal alignment in the elderly. <i>Journal of Clinical Neuroscience</i> , 2022, 96, 172-179. | 0.8 | 2 |
| 77 | Radiological Changes in Adjacent and Index Levels after Cervical Disc Arthroplasty. <i>Yonsei Medical Journal</i> , 2022, 63, 72. | 0.9 | 2 |
| 78 | Factors Affecting Postoperative Complications and Outcomes of Cervical Spondylotic Myelopathy with Cerebral Palsy : A Retrospective Analysis. <i>Journal of Korean Neurosurgical Society</i> , 2021, 64, 808-817. | 0.5 | 1 |
| 79 | Posterolateral Approach of Percutaneous Vertebroplasty in Thoracolumbar Fractures. <i>Journal of Korean Neurotraumatology Society</i> , 2005, 1, 61. | 0.0 | 1 |
| 80 | Compression Angle of Ossification of the Posterior Longitudinal Ligament and Its Clinical Significance in Cervical Myelopathy. <i>Journal of Korean Neurosurgical Society</i> , 2016, 59, 471. | 0.5 | 1 |
| 81 | Feasibility of a Modified E-PASS and POSSUM System for Postoperative Risk Assessment in Patients with Spinal Disease. <i>World Neurosurgery</i> , 2018, 112, e95-e102. | 0.7 | 0 |
| 82 | Hemorrhagic Complication after Spine Surgery. <i>Journal of Korean Neurotraumatology Society</i> , 2005, 1, 98. | 0.0 | 0 |
| 83 | Comparison of the Outcomes after Intralesional, Intracisternal, and Intravenous Transplantation of Human Bone Marrow Derived Mesenchymal Stem Cells for Spinal Cord Injured Rat. <i>Korean Journal of Spine</i> , 2011, 8, 88. | 0.9 | 0 |