

James D Kang

List of Publications by Year in descending order

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Version: 2024-02-01

63
papers

1,863
citations

331670

21
h-index

276875

41
g-index

66
all docs

66
docs citations

66
times ranked

2193
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Development of machine learning and natural language processing algorithms for preoperative prediction and automated identification of intraoperative vascular injury in anterior lumbar spine surgery. <i>Spine Journal</i> , 2021, 21, 1635-1642. | 1.3 | 38 |
| 2 | Prospective validation of a clinical prediction score for survival in patients with spinal metastases: the New England Spinal Metastasis Score. <i>Spine Journal</i> , 2021, 21, 28-36. | 1.3 | 31 |
| 3 | National utilization and inpatient safety measures of lumbar spinal fusion methods by race/ethnicity. <i>Spine Journal</i> , 2021, 21, 785-794. | 1.3 | 13 |
| 4 | Surgeon-level variance in achieving clinical improvement after lumbar decompression: the importance of adequate risk adjustment. <i>Spine Journal</i> , 2021, 21, 405-410. | 1.3 | 6 |
| 5 | Development of prediction models for clinically meaningful improvement in PROMIS scores after lumbar decompression. <i>Spine Journal</i> , 2021, 21, 397-404. | 1.3 | 23 |
| 6 | ISSLS prize in basic science 2021: a novel inducible system to regulate transgene expression of TIMP1. <i>European Spine Journal</i> , 2021, 30, 1098-1107. | 2.2 | 2 |
| 7 | Improving Spine Models of Care. <i>JBJS Reviews</i> , 2021, 9, e20.00183. | 2.0 | 1 |
| 8 | Lactate oxidative phosphorylation by annulus fibrosus cells: evidence for lactate-dependent metabolic symbiosis in intervertebral discs. <i>Arthritis Research and Therapy</i> , 2021, 23, 145. | 3.5 | 13 |
| 9 | Augmented Chondroitin Sulfate Proteoglycan Has Therapeutic Potential for Intervertebral Disc Degeneration by Stimulating Anabolic Turnover in Bovine Nucleus Pulposus Cells under Changes in Hydrostatic Pressure. <i>International Journal of Molecular Sciences</i> , 2021, 22, 6015. | 4.1 | 6 |
| 10 | Trends in Spinal Surgery Performed by American Board of Orthopaedic Surgery Part II Candidates (2008 to 2017). <i>Journal of the American Academy of Orthopaedic Surgeons, The</i> , 2021, 29, e563-e575. | 2.5 | 6 |
| 11 | Design of the prospective observational study of spinal metastasis treatment (POST). <i>Spine Journal</i> , 2020, 20, 572-579. | 1.3 | 15 |
| 12 | Non-operative management of spinal metastases: A prognostic model for failure. <i>Clinical Neurology and Neurosurgery</i> , 2020, 188, 105574. | 1.4 | 4 |
| 13 | Natural language processing for automated detection of incidental durotomy. <i>Spine Journal</i> , 2020, 20, 695-700. | 1.3 | 44 |
| 14 | Post-operative hyperglycemia and its association with surgical site infection after instrumented spinal fusion. <i>Clinical Neurology and Neurosurgery</i> , 2020, 197, 106100. | 1.4 | 4 |
| 15 | Reemergence of Multispecialty Inpatient Elective Orthopaedic Surgery During the COVID-19 Pandemic. <i>Journal of Bone and Joint Surgery - Series A</i> , 2020, 102, e79. | 3.0 | 10 |
| 16 | Transforming the Orthopaedic Patient Experience Through Telemedicine. <i>Journal of Patient Experience</i> , 2020, 7, 302-304. | 0.9 | 7 |
| 17 | In vitro nucleus pulposus tissue model with physicochemical stresses. <i>JOR Spine</i> , 2020, 3, e1105. | 3.2 | 5 |
| 18 | Attenuation of ataxia telangiectasia mutated signalling mitigates age-associated intervertebral disc degeneration. <i>Aging Cell</i> , 2020, 19, e13162. | 6.7 | 18 |

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|----|--|------|-----------|
| 19 | Decision Making for Treatment of Persistent Sciatica. <i>New England Journal of Medicine</i> , 2020, 382, 1161-1162. | 27.0 | 8 |
| 20 | Can natural language processing provide accurate, automated reporting of wound infection requiring reoperation after lumbar discectomy?. <i>Spine Journal</i> , 2020, 20, 1602-1609. | 1.3 | 31 |
| 21 | Commentary on "Gene Therapy Approach for Intervertebral Disc Degeneration: An Update". <i>Neurospine</i> , 2020, 17, 15-16. | 2.9 | 1 |
| 22 | Biomechanical Analysis of a Growing Rod with Sliding Pedicle Screw System for Early-Onset Scoliosis. <i>Journal of Healthcare Engineering</i> , 2019, 2019, 1-7. | 1.9 | 2 |
| 23 | Validating the Stopping Opioids after Surgery (SOS) score for sustained postoperative prescription opioid use in spine surgical patients. <i>Spine Journal</i> , 2019, 19, 1666-1671. | 1.3 | 21 |
| 24 | Ambulatory status after surgical and nonsurgical treatment for spinal metastasis. <i>Cancer</i> , 2019, 125, 2631-2637. | 4.1 | 32 |
| 25 | Prognosticating outcomes and survival for patients with lumbar spinal metastases: Results of a bayesian regression analysis. <i>Clinical Neurology and Neurosurgery</i> , 2019, 181, 98-103. | 1.4 | 1 |
| 26 | Systemic clearance of p16 ^{INK4a} -positive senescent cells mitigates age-associated intervertebral disc degeneration. <i>Aging Cell</i> , 2019, 18, e12927. | 6.7 | 118 |
| 27 | Optimization of compressive loading parameters to mimic in vivo cervical spine kinematics in vitro. <i>Journal of Biomechanics</i> , 2019, 87, 107-113. | 2.1 | 4 |
| 28 | Serum and nutrient deprivation increase autophagic flux in intervertebral disc annulus fibrosus cells: an in vitro experimental study. <i>European Spine Journal</i> , 2019, 28, 993-1004. | 2.2 | 28 |
| 29 | Molecular Mechanisms of Intervertebral Disc Degeneration. <i>Spine Surgery and Related Research</i> , 2019, 3, 1-11. | 0.7 | 51 |
| 30 | Photopolymerizable biogel scaffold seeded with mesenchymal stem cells: safety and efficacy evaluation of novel treatment for intervertebral disc degeneration. <i>Journal of Orthopaedic Research</i> , 2019, 37, 1451-1459. | 2.3 | 15 |
| 31 | Molecular and histological characteristics of bovine caudal nucleus pulposus by combined changes in hydrostatic and osmotic pressures in vitro. <i>Journal of Orthopaedic Research</i> , 2019, 37, 466-476. | 2.3 | 11 |
| 32 | Radiological evaluation of kyphoplasty with an intravertebral expander after osteoporotic vertebral fracture. <i>Journal of Orthopaedic Research</i> , 2019, 37, 457-465. | 2.3 | 7 |
| 33 | Alterations in 90-day morbidity, mortality, and readmission rates following spine surgery in Medicare Accountable Care Organizations (2009-2014). <i>Spine Journal</i> , 2019, 19, 8-14. | 1.3 | 13 |
| 34 | Cervical bracing practices after degenerative cervical surgery: a survey of Cervical Spine Research Society members. <i>Spine Journal</i> , 2018, 18, 1950-1955. | 1.3 | 6 |
| 35 | Sustained Preoperative Opioid Use Is a Predictor of Continued Use Following Spine Surgery. <i>Journal of Bone and Joint Surgery - Series A</i> , 2018, 100, 914-921. | 3.0 | 103 |
| 36 | Small cavity creation in the vertebral body reduces the rate of cement leakage during vertebroplasty. <i>Journal of Orthopaedic Research</i> , 2017, 35, 154-159. | 2.3 | 4 |

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|----|--|-----|-----------|
| 37 | New horizons in spine research: Intervertebral disc repair and regeneration. Journal of Orthopaedic Research, 2017, 35, 5-7. | 2.3 | 8 |
| 38 | NSAID use in intervertebral disc degeneration: what are the effects on matrix homeostasis in vivo?. Spine Journal, 2017, 17, 1163-1170. | 1.3 | 7 |
| 39 | Senescent intervertebral disc cells exhibit perturbed matrix homeostasis phenotype. Mechanisms of Ageing and Development, 2017, 166, 16-23. | 4.6 | 34 |
| 40 | Establishing objective volume-outcome measures for anterior and posterior cervical spine fusion. Clinical Neurology and Neurosurgery, 2017, 161, 65-69. | 1.4 | 18 |
| 41 | Risk Factors for Prolonged Opioid Use Following Spine Surgery, and the Association with Surgical Intensity, Among Opioid-Naive Patients. Journal of Bone and Joint Surgery - Series A, 2017, 99, 1247-1252. | 3.0 | 146 |
| 42 | New Horizons in Spine Research: Disc biology, spine biomechanics and pathomechanisms of back pain. Journal of Orthopaedic Research, 2016, 34, 1287-1288. | 2.3 | 3 |
| 43 | Recurrent anterior cervical wound abscesses following cervical corpectomy and fusion surgery from an odontogenic source mimicking an esophageal perforation: a case report. Spine Journal, 2016, 16, e399-e402. | 1.3 | 2 |
| 44 | The effect of chronic liver disease on acute outcomes following cervical spine trauma. Spine Journal, 2016, 16, 1194-1199. | 1.3 | 10 |
| 45 | NF- κ B Signaling Pathway in Controlling Intervertebral Disk Cell Response to Inflammatory and Mechanical Stressors. Physical Therapy, 2016, 96, 704-711. | 2.4 | 23 |
| 46 | Reliable Magnetic Resonance Imaging Based Grading System for Cervical Intervertebral Disc Degeneration. Asian Spine Journal, 2016, 10, 70. | 2.0 | 17 |
| 47 | Posterior surgical approach procedures for cervical myelopathy. The Cochrane Library, 2015, , . | 2.8 | 0 |
| 48 | Molecular Basis of Intervertebral Disc Degeneration and Herniations: What Are the Important Translational Questions?. Clinical Orthopaedics and Related Research, 2015, 473, 1903-1912. | 1.5 | 196 |
| 49 | PMMA \hat{c} hydroxyapatite composite material retards fatigue failure of augmented bone compared to augmentation with plain PMMA: <i>in vivo</i> study using a sheep model. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2014, 102, 1613-1619. | 3.4 | 22 |
| 50 | Control of the vertebral artery from a posterior approach: a technical report. Spine Journal, 2014, 14, e37-e41. | 1.3 | 8 |
| 51 | Vertebral artery injuries in cervical spine surgery. Spine Journal, 2014, 14, 1520-1525. | 1.3 | 86 |
| 52 | The Identification of Biomarkers That Are Predictive of Response to Interventional Spinal Procedures for Axial Low Back Pain: A Pilot Study. PM and R, 2013, 5, S296-S297. | 1.6 | 0 |
| 53 | Grafton and Local Bone Have Comparable Outcomes to Iliac Crest Bone in Instrumented Single-Level Lumbar Fusions. Spine, 2012, 37, 1083-1091. | 2.0 | 93 |
| 54 | Novel ex-vivo mechanobiological intervertebral disc culture system. Journal of Biomechanics, 2012, 45, 382-385. | 2.1 | 22 |

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|----|---|-----|-----------|
| 55 | Nanocrystalline hydroxyapatite facilitates bone apposition to polymethylmethacrylate: Histological investigation using a sheep model. <i>Journal of Orthopaedic Research</i> , 2012, 30, 1290-1295. | 2.3 | 6 |
| 56 | Manifestations of Systemic Diseases on Thoracic Imaging. <i>Current Problems in Diagnostic Radiology</i> , 2010, 39, 247-261. | 1.4 | 10 |
| 57 | Changes of femoral periprosthetic bone mineral density 6 years after treatment with alendronate following total hip arthroplasty. <i>Journal of Orthopaedic Research</i> , 2009, 27, 183-188. | 2.3 | 46 |
| 58 | Characterization of Intervertebral Disc Aging. <i>Spine</i> , 2008, 33, 1821-1828. | 2.0 | 83 |
| 59 | Safety assessment of intradiscal gene transfer: a pilot study. <i>Spine Journal</i> , 2006, 6, 107-112. | 1.3 | 65 |
| 60 | Alendronate prevents femoral periprosthetic bone loss following total hip arthroplasty: Prospective randomized double-blind study. <i>Journal of Orthopaedic Research</i> , 2006, 24, 1336-1341. | 2.3 | 67 |
| 61 | Bone Strength Influences Periprosthetic Bone Loss after Hip Arthroplasty. <i>Clinical Orthopaedics and Related Research</i> , 2005, 440, 178-183. | 1.5 | 5 |
| 62 | OSSIFICATION OF THE POSTERIOR LONGITUDINAL LIGAMENT. <i>Journal of Bone and Joint Surgery - Series A</i> , 2005, 87, 610-615. | 3.0 | 26 |
| 63 | Adenovirus-Mediated Gene Transfer to Nucleus Pulposus Cells. <i>Spine</i> , 1998, 23, 2437-2442. | 2.0 | 158 |