

# 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	Molecular Basis of Intervertebral Disc Degeneration and Herniations: What Are the Important Translational Questions?. <i>Clinical Orthopaedics and Related Research</i> , 2015, 473, 1903-1912.	1.5	196
2	Adenovirus-Mediated Gene Transfer to Nucleus Pulposus Cells. <i>Spine</i> , 1998, 23, 2437-2442.	2.0	158
3	Risk Factors for Prolonged Opioid Use Following Spine Surgery, and the Association with Surgical Intensity, Among Opioid-Naive Patients. <i>Journal of Bone and Joint Surgery - Series A</i> , 2017, 99, 1247-1252.	3.0	146
4	Systemic clearance of p16 <sup>INK4a</sup> -positive senescent cells mitigates age-associated intervertebral disc degeneration. <i>Aging Cell</i> , 2019, 18, e12927.	6.7	118
5	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
6	Grafton and Local Bone Have Comparable Outcomes to Iliac Crest Bone in Instrumented Single-Level Lumbar Fusions. <i>Spine</i> , 2012, 37, 1083-1091.	2.0	93
7	Vertebral artery injuries in cervical spine surgery. <i>Spine Journal</i> , 2014, 14, 1520-1525.	1.3	86
8	Characterization of Intervertebral Disc Aging. <i>Spine</i> , 2008, 33, 1821-1828.	2.0	83
9	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
10	Safety assessment of intradiscal gene transfer: a pilot study. <i>Spine Journal</i> , 2006, 6, 107-112.	1.3	65
11	Molecular Mechanisms of Intervertebral Disc Degeneration. <i>Spine Surgery and Related Research</i> , 2019, 3, 1-11.	0.7	51
12	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
13	Natural language processing for automated detection of incidental durotomy. <i>Spine Journal</i> , 2020, 20, 695-700.	1.3	44
14	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
15	Senescent intervertebral disc cells exhibit perturbed matrix homeostasis phenotype. <i>Mechanisms of Ageing and Development</i> , 2017, 166, 16-23.	4.6	34
16	Ambulatory status after surgical and nonsurgical treatment for spinal metastasis. <i>Cancer</i> , 2019, 125, 2631-2637.	4.1	32
17	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
18	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

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19	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
20	OSSIFICATION OF THE POSTERIOR LONGITUDINAL LIGAMENT. <i>Journal of Bone and Joint Surgery - Series A</i> , 2005, 87, 610-615.	3.0	26
21	NF- $\kappa$ B Signaling Pathway in Controlling Intervertebral Disk Cell Response to Inflammatory and Mechanical Stressors. <i>Physical Therapy</i> , 2016, 96, 704-711.	2.4	23
22	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
23	Novel ex-vivo mechanobiological intervertebral disc culture system. <i>Journal of Biomechanics</i> , 2012, 45, 382-385.	2.1	22
24	PMMA-hydroxyapatite composite material retards fatigue failure of augmented bone compared to augmentation with plain PMMA: <i>in vivo</i> study using a sheep model. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2014, 102, 1613-1619.	3.4	22
25	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
26	Establishing objective volume-outcome measures for anterior and posterior cervical spine fusion. <i>Clinical Neurology and Neurosurgery</i> , 2017, 161, 65-69.	1.4	18
27	Attenuation of ataxia telangiectasia mutated signalling mitigates age-associated intervertebral disc degeneration. <i>Aging Cell</i> , 2020, 19, e13162.	6.7	18
28	Reliable Magnetic Resonance Imaging Based Grading System for Cervical Intervertebral Disc Degeneration. <i>Asian Spine Journal</i> , 2016, 10, 70.	2.0	17
29	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
30	Design of the prospective observational study of spinal metastasis treatment (POST). <i>Spine Journal</i> , 2020, 20, 572-579.	1.3	15
31	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
32	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
33	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
34	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
35	Manifestations of Systemic Diseases on Thoracic Imaging. <i>Current Problems in Diagnostic Radiology</i> , 2010, 39, 247-261.	1.4	10
36	The effect of chronic liver disease on acute outcomes following cervical spine trauma. <i>Spine Journal</i> , 2016, 16, 1194-1199.	1.3	10

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37	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
38	Control of the vertebral artery from a posterior approach: a technical report. <i>Spine Journal</i> , 2014, 14, e37-e41.	1.3	8
39	New horizons in spine research: Intervertebral disc repair and regeneration. <i>Journal of Orthopaedic Research</i> , 2017, 35, 5-7.	2.3	8
40	Decision Making for Treatment of Persistent Sciatica. <i>New England Journal of Medicine</i> , 2020, 382, 1161-1162.	27.0	8
41	NSAID use in intervertebral disc degeneration: what are the effects on matrix homeostasis in vivo?. <i>Spine Journal</i> , 2017, 17, 1163-1170.	1.3	7
42	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
43	Transforming the Orthopaedic Patient Experience Through Telemedicine. <i>Journal of Patient Experience</i> , 2020, 7, 302-304.	0.9	7
44	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
45	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
46	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
47	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
48	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</i> , The, 2021, 29, e563-e575.	2.5	6
49	Bone Strength Influences Periprosthetic Bone Loss after Hip Arthroplasty. <i>Clinical Orthopaedics and Related Research</i> , 2005, 440, 178-183.	1.5	5
50	In vitro nucleus pulposus tissue model with physicochemical stresses. <i>JOR Spine</i> , 2020, 3, e1105.	3.2	5
51	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
52	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
53	Non-operative management of spinal metastases: A prognostic model for failure. <i>Clinical Neurology and Neurosurgery</i> , 2020, 188, 105574.	1.4	4
54	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

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55	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
56	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
57	Biomechanical Analysis of a Growing Rod with Sliding Pedicle Screw System for Early-Onset Scoliosis. Journal of Healthcare Engineering, 2019, 2019, 1-7.	1.9	2
58	ISSLS prize in basic science 2021: a novel inducible system to regulate transgene expression of TIMP1. European Spine Journal, 2021, 30, 1098-1107.	2.2	2
59	Prognosticating outcomes and survival for patients with lumbar spinal metastases: Results of a bayesian regression analysis. Clinical Neurology and Neurosurgery, 2019, 181, 98-103.	1.4	1
60	Improving Spine Models of Care. JBJS Reviews, 2021, 9, e20.00183.	2.0	1
61	Commentary on "Gene Therapy Approach for Intervertebral Disc Degeneration: An Update". Neurospine, 2020, 17, 15-16.	2.9	1
62	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
63	Posterior surgical approach procedures for cervical myelopathy. The Cochrane Library, 2015, , .	2.8	0