

# Kyungsoo Kim

## List of Publications by Year in descending order

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42  
papers

739  
citations

567281

15  
h-index

580821

25  
g-index

43  
all docs

43  
docs citations

43  
times ranked

842  
citing authors

#	ARTICLE	IF	CITATIONS
1	Biomechanical investigation of anterior cruciate ligament injury risk in pivoting leg during taekwondo kicks using motion analysis system. Journal of Mechanical Science and Technology, 2022, 36, 1051-1056.	1.5	2
2	Biomechanical Influence of Treatment Table Axis Location on Axial Rotation of Lumbar Spine. International Journal of Precision Engineering and Manufacturing, 2021, 22, 889-897.	2.2	2
3	Effects of Impactor Size on Biomechanical Characteristics of Spinal Cord in Hemiconfusion Injury Model Using Finite Element Analysis. Applied Sciences (Switzerland), 2020, 10, 4097.	2.5	1
4	New method to evaluate three-dimensional push-off angle during short-track speed skating using wearable inertial measurement unit sensors. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2019, 233, 476-480.	1.8	8
5	Effects of medial collateral ligament release, limb correction, and soft tissue laxity on knee joint contact force distribution after medial opening wedge high tibial osteotomy: a computational study. Computer Methods in Biomechanics and Biomedical Engineering, 2019, 22, 243-250.	1.6	3
6	Biomechanical Effects on Cervical Spinal Cord and Nerve Root Following Laminoplasty for Ossification of the Posterior Longitudinal Ligament in the Cervical Spine: A Comparison Between Open-Door and Double-Door Laminoplasty Using Finite Element Analysis. Journal of Biomechanical Engineering, 2018, 140, .	1.3	14
7	Robustness of Whole Spine Reconstruction using Anterior-Posterior and Lateral Planar X-ray Images. International Journal of Precision Engineering and Manufacturing, 2018, 19, 281-285.	2.2	0
8	Recent advances in finite element modeling of the human cervical spine. Journal of Mechanical Science and Technology, 2018, 32, 1-10.	1.5	40
9	Comparative Evaluation Between Anatomic and Nonanatomic Lateral Ligament Reconstruction Techniques in the Ankle Joint: A Computational Study. Journal of Biomechanical Engineering, 2018, 140, .	1.3	7
10	One-Shot Dual-Code Immunotargeting for Ultra-Sensitive Tumor Necrosis Factor- $\alpha$ Nanosensors by 3D Enhanced Dark-Field Super-Resolution Microscopy. Analytical Chemistry, 2018, 90, 5100-5107.	6.5	9
11	Influence of ankle joint plantarflexion and dorsiflexion on lateral ankle sprain: A computational study. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2018, 232, 458-467.	1.8	11
12	Biomechanical investigation of post-operative C5 palsy due to ossification of the posterior longitudinal ligament in different types of cervical spinal alignment. Journal of Biomechanics, 2017, 57, 54-61.	2.1	15
13	Fatigue injury risk in anterior cruciate ligament of target side knee during golf swing. Journal of Biomechanics, 2017, 53, 9-14.	2.1	19
14	Interjoint coordination of the lower extremities in short-track speed skating. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2017, 231, 987-993.	1.8	14
15	Investigation of ligament strains in lateral ankle sprain using computational simulation of accidental injury cases. Journal of Mechanical Science and Technology, 2017, 31, 3627-3632.	1.5	4
16	Increased stress and strain on the spinal cord due to ossification of the posterior longitudinal ligament in the cervical spine under flexion after laminectomy. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2017, 231, 898-906.	1.8	8
17	Effect of mechanical loading on heterotopic ossification in cervical total disc replacement: a three-dimensional finite element analysis. Biomechanics and Modeling in Mechanobiology, 2016, 15, 1191-1199.	2.8	44
18	Augmented 3D super-resolution of fluorescence-free nanoparticles using enhanced dark-field illumination based on wavelength-modulation and a least-cubic algorithm. Scientific Reports, 2016, 6, 32863.	3.3	13

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19	Evaluation of compressive and shear joint forces on medial and lateral compartments in knee joint during walking before and after medial open-wedge high tibial osteotomy. <i>International Journal of Precision Engineering and Manufacturing</i> , 2016, 17, 1365-1370.	2.2	10
20	Improvements in spinal alignment after high tibial osteotomy in patients with medial compartment knee osteoarthritis. <i>Gait and Posture</i> , 2016, 48, 131-136.	1.4	12
21	Prediction of medial and lateral contact force of the knee joint during normal and turning gait after total knee replacement. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2016, 230, 288-297.	1.8	9
22	Effect of posterior decompression extent on biomechanical parameters of the spinal cord in cervical ossification of the posterior longitudinal ligament. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2016, 230, 545-552.	1.8	12
23	Application of nonlinear complementary filters to human motion analysis. , 2015, , .		2
24	Base Station Placement Algorithm for Large-Scale LTE Heterogeneous Networks. <i>PLoS ONE</i> , 2015, 10, e0139190.	2.5	21
25	Consistent accuracy in whole-body joint kinetics during gait using wearable inertial motion sensors and in-shoe pressure sensors. <i>Gait and Posture</i> , 2015, 42, 65-69.	1.4	57
26	Influence of sagittal and axial types of ossification of posterior longitudinal ligament on mechanical stress in cervical spinal cord: A finite element analysis. <i>Clinical Biomechanics</i> , 2015, 30, 1133-1139.	1.2	13
27	Improvement of the knee center of rotation during walking after opening wedge high tibial osteotomy. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2015, 229, 464-468.	1.8	3
28	Dynamic simulation of tibial tuberosity realignment: model evaluation. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2015, 18, 1606-1610.	1.6	15
29	Conversion Equation between the Drop Height in the New York University Impactor and the Impact Force in the Infinite Horizon Impactor in the Contusion Spinal Cord Injury Model. <i>Journal of Neurotrauma</i> , 2015, 32, 1987-1993.	3.4	24
30	Biomechanical effects of fusion levels on the risk of proximal junctional failure and kyphosis in lumbar spinal fusion surgery. <i>Clinical Biomechanics</i> , 2015, 30, 1162-1169.	1.2	31
31	Changes in range of motion, intradiscal pressure, and facet joint force after intervertebral disc and facet joint degeneration in the cervical spine. <i>Journal of Mechanical Science and Technology</i> , 2015, 29, 3031-3038.	1.5	13
32	Pre-tension effects from tightening the ligature on spinous process fracture risk in interspinous process device implantation. <i>International Journal of Precision Engineering and Manufacturing</i> , 2014, 15, 2597-2604.	2.2	6
33	Influence of Bundle Diameter and Attachment Point on Kinematic Behavior in Double Bundle Anterior Cruciate Ligament Reconstruction Using Computational Model. <i>Computational and Mathematical Methods in Medicine</i> , 2014, 2014, 1-8.	1.3	11
34	Effect of bone fragment impact velocity on biomechanical parameters related to spinal cord injury: A finite element study. <i>Journal of Biomechanics</i> , 2014, 47, 2820-2825.	2.1	22
35	Biomechanical analysis of two-step traction therapy in the lumbar spine. <i>Manual Therapy</i> , 2014, 19, 527-533.	1.6	23
36	Quantitative investigation of ligament strains during physical tests for sacroiliac joint pain using finite element analysis. <i>Manual Therapy</i> , 2014, 19, 235-241.	1.6	15

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37	Effects of degenerated intervertebral discs on intersegmental rotations, intradiscal pressures, and facet joint forces of the whole lumbar spine. <i>Computers in Biology and Medicine</i> , 2013, 43, 1234-1240.	7.0	118
38	A new patient-specific planning method based on joint contact force balance with soft tissue release in total knee arthroplasty. <i>International Journal of Precision Engineering and Manufacturing</i> , 2013, 14, 2193-2199.	2.2	3
39	Contribution of posterolateral corner structures to knee joint translational and rotational stabilities: A computational study. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2013, 227, 968-975.	1.8	14
40	Application of Computational Lower Extremity Model to Investigate Different Muscle Activities and Joint Force Patterns in Knee Osteoarthritis Patients during Walking. <i>Computational and Mathematical Methods in Medicine</i> , 2013, 2013, 1-9.	1.3	17
41	Stress analysis in a pedicle screw fixation system with flexible rods in the lumbar spine. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2010, 224, 477-485.	1.8	29
42	Biomechanical comparison of instrumentation techniques in treatment of thoracolumbar burst fractures: a finite element analysis. <i>Journal of Orthopaedic Science</i> , 2009, 14, 443-449.	1.1	45