

Kyungsoo Kim

List of Publications by Year in descending order

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papers

739
citations

567281

15
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580821

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docs citations

43
times ranked

842
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	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
4	Effect of mechanical loading on heterotopic ossification in cervical total disc replacement: a three-dimensional finite element analysis. <i>Biomechanics and Modeling in Mechanobiology</i> , 2016, 15, 1191-1199.	2.8	44
5	Recent advances in finite element modeling of the human cervical spine. <i>Journal of Mechanical Science and Technology</i> , 2018, 32, 1-10.	1.5	40
6	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
7	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
8	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
9	Biomechanical analysis of two-step traction therapy in the lumbar spine. <i>Manual Therapy</i> , 2014, 19, 527-533.	1.6	23
10	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
11	Base Station Placement Algorithm for Large-Scale LTE Heterogeneous Networks. <i>PLoS ONE</i> , 2015, 10, e0139190.	2.5	21
12	Fatigue injury risk in anterior cruciate ligament of target side knee during golf swing. <i>Journal of Biomechanics</i> , 2017, 53, 9-14.	2.1	19
13	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
14	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
15	Dynamic simulation of tibial tuberosity realignment: model evaluation. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2015, 18, 1606-1610.	1.6	15
16	Biomechanical investigation of post-operative C5 palsy due to ossification of the posterior longitudinal ligament in different types of cervical spinal alignment. <i>Journal of Biomechanics</i> , 2017, 57, 54-61.	2.1	15
17	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
18	Interjoint coordination of the lower extremities in short-track speed skating. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2017, 231, 987-993.	1.8	14

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19	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. <i>Journal of Biomechanical Engineering</i> , 2018, 140, .	1.3	14
20	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
21	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
22	Augmented 3D super-resolution of fluorescence-free nanoparticles using enhanced dark-field illumination based on wavelength-modulation and a least-cubic algorithm. <i>Scientific Reports</i> , 2016, 6, 32863.	3.3	13
23	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
24	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
25	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
26	Influence of ankle joint plantarflexion and dorsiflexion on lateral ankle sprain: A computational study. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2018, 232, 458-467.	1.8	11
27	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
28	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
29	One-Shot Dual-Code Immunotargeting for Ultra-Sensitive Tumor Necrosis Factor- $\hat{\pm}$ Nanosensors by 3D Enhanced Dark-Field Super-Resolution Microscopy. <i>Analytical Chemistry</i> , 2018, 90, 5100-5107.	6.5	9
30	Increased stress and strain on the spinal cord due to ossification of the posterior longitudinal ligament in the cervical spine under flexion after laminectomy. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2017, 231, 898-906.	1.8	8
31	New method to evaluate three-dimensional push-off angle during short-track speed skating using wearable inertial measurement unit sensors. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2019, 233, 476-480.	1.8	8
32	Comparative Evaluation Between Anatomic and Nonanatomic Lateral Ligament Reconstruction Techniques in the Ankle Joint: A Computational Study. <i>Journal of Biomechanical Engineering</i> , 2018, 140, .	1.3	7
33	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
34	Investigation of ligament strains in lateral ankle sprain using computational simulation of accidental injury cases. <i>Journal of Mechanical Science and Technology</i> , 2017, 31, 3627-3632.	1.5	4
35	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
36	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

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37	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. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2019, 22, 243-250.	1.6	3
38	Application of nonlinear complementary filters to human motion analysis. , 2015, , .		2
39	Biomechanical Influence of Treatment Table Axis Location on Axial Rotation of Lumbar Spine. <i>International Journal of Precision Engineering and Manufacturing</i> , 2021, 22, 889-897.	2.2	2
40	Biomechanical investigation of anterior cruciate ligament injury risk in pivoting leg during taekwondo kicks using motion analysis system. <i>Journal of Mechanical Science and Technology</i> , 2022, 36, 1051-1056.	1.5	2
41	Effects of Impactor Size on Biomechanical Characteristics of Spinal Cord in Hemicondusion Injury Model Using Finite Element Analysis. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 4097.	2.5	1
42	Robustness of Whole Spine Reconstruction using Anterior-Posterior and Lateral Planar X-ray Images. <i>International Journal of Precision Engineering and Manufacturing</i> , 2018, 19, 281-285.	2.2	0