

Chaochao Zhou

List of Publications by Year in descending order

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Version: 2024-02-01

26
papers

200
citations

1163065

8
h-index

1125717

13
g-index

26
all docs

26
docs citations

26
times ranked

145
citing authors

#	ARTICLE	IF	CITATIONS
1	Investigation of Alterations in the Lumbar Disc Biomechanics at the Adjacent Segments After Spinal Fusion Using a Combined In Vivo and In Silico Approach. <i>Annals of Biomedical Engineering</i> , 2021, 49, 601-616.	2.5	29
2	Intervertebral range of motion characteristics of normal cervical spinal segments (C0-T1) during in vivo neck motions. <i>Journal of Biomechanics</i> , 2020, 98, 109418.	2.1	28
3	In vivo kinematics and ligamentous function of the knee during weight-bearing flexion: an investigation on mid-range flexion of the knee. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2020, 28, 797-805.	4.2	17
4	An upper bound computational model for investigation of fusion effects on adjacent segment biomechanics of the lumbar spine. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2019, 22, 1126-1134.	1.6	15
5	Quantifying the ranges of relative motions of the intervertebral discs and facet joints in the normal cervical spine. <i>Journal of Biomechanics</i> , 2020, 112, 110023.	2.1	14
6	Alterations in the Geometry, Fiber Orientation, and Mechanical Behavior of the Lumbar Intervertebral Disc by Nucleus Swelling. <i>Journal of Biomechanical Engineering</i> , 2020, 142, .	1.3	10
7	The effect of structural parameters of total hip arthroplasty on polyethylene liner wear behavior: A theoretical model analysis. <i>Journal of Orthopaedic Research</i> , 2020, 38, 1587-1595.	2.3	9
8	In vivo primary and coupled segmental motions of the healthy female head-neck complex during dynamic head axial rotation. <i>Journal of Biomechanics</i> , 2021, 123, 110513.	2.1	9
9	Simulation of extracellular matrix remodeling by fibroblast cells in soft three-dimensional bioresorbable scaffolds. <i>Biomechanics and Modeling in Mechanobiology</i> , 2016, 15, 1685-1698.	2.8	8
10	Sensitivities of lumbar segmental kinematics and functional tissue loads in sagittal bending to design parameters of a ball-in-socket total disc arthroplasty prosthesis. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2020, 23, 536-547.	1.6	8
11	There are isoheight points that measure constant femoral condyle heights along the knee flexion path. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , 2021, 29, 600-607.	4.2	8
12	Physiological articular contact kinematics and morphological femoral condyle translations of the tibiofemoral joint. <i>Journal of Biomechanics</i> , 2021, 123, 110536.	2.1	8
13	Multiobjective Design Optimization of a Biconcave Mobile-Bearing Lumbar Total Artificial Disk Considering Spinal Kinematics, Facet Joint Loading, and Metal-on-Polyethylene Contact Mechanics. <i>Journal of Biomechanical Engineering</i> , 2020, 142, .	1.3	7
14	In vivo intervertebral kinematics and disc deformations of the human cervical spine during walking. <i>Medical Engineering and Physics</i> , 2021, 87, 63-72.	1.7	6
15	Transfer learning from an artificial radiograph-landmark dataset for registration of the anatomic skull model to dual fluoroscopic X-ray images. <i>Computers in Biology and Medicine</i> , 2021, 138, 104923.	7.0	6
16	Prediction of biomechanical responses of human lumbar discs - a stochastic finite element model analysis. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2021, 24, 1-12.	1.6	4
17	Articulation of the femoral condyle during knee flexion. <i>Journal of Biomechanics</i> , 2022, 131, 110906.	2.1	4
18	Development of a Biconcave Mobile-Bearing Lumbar Total Disc Arthroplasty Concept Using Finite Element Analysis and Design Optimization. <i>Journal of Orthopaedic Research</i> , 2019, 37, 1805-1816.	2.3	3

#	ARTICLE	IF	CITATIONS
19	Does contemporary bicruciate retaining total knee arthroplasty restore the native knee kinematics? A descriptive literature review. Archives of Orthopaedic and Trauma Surgery, 2022, 142, 2313-2322.	2.4	3
20	Investigation of in vivo three-dimensional changes of the spinal canal after corrective surgeries of the idiopathic scoliosis. JOR Spine, 2021, 4, e1151.	3.2	2
21	Influence of structural and material property uncertainties on biomechanics of intervertebral discs - Implications for disc tissue engineering. Journal of the Mechanical Behavior of Biomedical Materials, 2021, 122, 104661.	3.1	2
22	Ligament deformation patterns of the craniocervical junction during head axial rotation tracked by biplane fluoroscopes. Clinical Biomechanics, 2021, 88, 105442.	1.2	0
23	Investigation of femoral condyle height changes during flexion of the knee: implication to gap balance in TKA surgery. Archives of Orthopaedic and Trauma Surgery, 2021, , 1.	2.4	0
24	3D Geometric Shape Reconstruction for Revision TKA and UKA Knees Using Gaussian Process Regression. Annals of Biomedical Engineering, 2021, 49, 3685-3697.	2.5	0
25	Investigation of Structural Parameters of Total Hip Arthroplasty (THA) Systems – A Theoretical Model Analysis. The Abstracts of ATEM International Conference on Advanced Technology in Experimental Mechanics Asian Conference on Experimental Mechanics, 2019, 2019, 1008E1230.	0.0	0
26	In vivo ranges of motion of cervical segments in patients with cervical spondylosis during dynamic neck motions. Chinese Medical Journal, 2021, 134, 478-480.	2.3	0