Mohammad Nikkhoo

List of Publications by Year
in descending order

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43 papers	300 citations	1039406 9 h-index	1058022 14 g-index
46 all docs	46 docs citations	46 times ranked	263 citing authors

#	Article	IF	Citations
1	The effect of orthopedic screw profiles on the healing time of femoral neck fracture. Computer Methods in Biomechanics and Biomedical Engineering, 2022, 25, 97-110.	0.9	4
2	Using different unit-cell geometries to generate bone tissue scaffolds by additive manufacturing technology. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2022, , 095441192210997.	1.0	1
3	The role of orthopedic screws threads properties on the success of femoral fracture fixation. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2022, 236, 9419-9430.	1.1	1
4	Mechanical comparison of cold-worked versus cold-worked hot-forged dynamic hip screw system. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2022, 236, 10742-10750.	1.1	1
5	Comparative biomechanical analyses of lower cervical spine post anterior fusion versus intervertebral disc arthroplasty: A geometrically patient-specific poroelastic finite element investigation. Journal of Orthopaedic Translation, 2022, 36, 33-43.	1.9	6
6	The Biomechanical Response of the Lower Cervical Spine Post Laminectomy: Geometrically-Parametric Patient-Specific Finite Element Analyses. Journal of Medical and Biological Engineering, 2021, 41, 59-70.	1.0	6
7	Reliability and Validity of a Mobile Device for Assessing Head Control Ability. Journal of Medical and Biological Engineering, 2021, 41, 45-52.	1.0	6
8	A comparative finite element simulation of locking compression plate materials for tibial fracture treatment. Computer Methods in Biomechanics and Biomedical Engineering, 2021, 24, 1064-1072.	0.9	7
9	A finite element study of fatigue load effects on total hip joint prosthesis. Computer Methods in Biomechanics and Biomedical Engineering, 2021, 24, 1-7.	0.9	4
10	Biomechanical Investigation Between Rigid and Semirigid Posterolateral Fixation During Daily Activities: Geometrically Parametric Poroelastic Finite Element Analyses. Frontiers in Bioengineering and Biotechnology, 2021, 9, 646079.	2.0	7
11	Frailty Level Classification of the Community Elderly Using Microsoft Kinect-Based Skeleton Pose: A Machine Learning Approach. Sensors, 2021, 21, 4017.	2.1	17
12	Biomechanical modeling of spinal ligaments: finite element analysis of L4-L5 spinal segment. Computer Methods in Biomechanics and Biomedical Engineering, 2021, 24, 1807-1818.	0.9	5
13	Finite Element Analysis of the Effect of Dental Implants on Jaw Bone under Mechanical and Thermal Loading Conditions. Mathematical Problems in Engineering, 2021, 2021, 1-17.	0.6	5
14	Comparative biomechanical analysis of rigid vs. flexible fixation devices for the lumbar spine: A geometrically patient-specific poroelastic finite element study. Computer Methods and Programs in Biomedicine, 2021, 212, 106481.	2.6	12
15	Biomechanical role of posterior cruciate ligament in total knee arthroplasty: A finite element analysis. Computer Methods and Programs in Biomedicine, 2020, 183, 105109.	2.6	11
16	Fatigue changes neck muscle control and deteriorates postural stability during arm movement perturbations in patients with chronic neck pain. Spine Journal, 2020, 20, 530-537.	0.6	20
17	Numerical and analytical simulation of multilayer cellular scaffolds. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2020, 42, 1.	0.8	3
18	Development of a novel geometrically-parametric patient-specific finite element model to investigate the effects of the lumbar lordosis angle on fusion surgery. Journal of Biomechanics, 2020, 102, 109722.	0.9	21

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19	Biphasic Rheology of Different Artificial Degenerated Intervertebral Discs. IFMBE Proceedings, 2019, , 671-674.	0.2	0
20	Development and validation of a geometrically personalized finite element model of the lower ligamentous cervical spine for clinical applications. Computers in Biology and Medicine, 2019, 109, 22-32.	3.9	33
21	The Effect of Mandibular Flexure on Stress Distribution in the All-on-4 Treated Edentulous Mandible: A Comparative Finite-Element Study Based on Mechanostat Theory. Journal of Long-Term Effects of Medical Implants, 2019, 29, 79-86.	0.2	4
22	Biomechanical response of intact, degenerated and repaired intervertebral discs under impact loading â€“ Ex-vivo and In-Silico investigation. Journal of Biomechanics, 2018, 70, 26-32.	0.9	19
23	A finite element study on intra-operative corrective forces and evaluation of screw density in scoliosis surgeries. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2018, 232, 1245-1254.	1.0	6
24	Postural stability and trunk muscle responses to the static and perturbed balance tasks in individuals with and without symptomatic degenerative lumbar disease. Gait and Posture, 2018, 64, 159-164.	0.6	9
25	A regenerative approach towards recovering the mechanical properties of degenerated intervertebral discs: Genipin and platelet-rich plasma therapies. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2017, 231, 127-137.	1.0	11
26	A model for flexi-bar to evaluate intervertebral disc and muscle forces in exercises. Medical Engineering and Physics, 2016, 38, 1076-1082.	0.8	5
27	Effect of Degeneration on FluidÃ¢â‚¬â€œSolid Interaction within Intervertebral Disk Under Cyclic Loading Ã¢â‚¬â€œ A Meta-Model Analysis of Finite Element Simulations. Frontiers in Bioengineering and Biotechnology, 2015, 3, 4.	2.0	10
28	Time-dependent response of intact intervertebral disc â€“ In Vitro and In-Silico study on the effect of loading mode and rate. Engineering Solid Mechanics, 2015, 3, 51-58.	0.6	3
29	A Mechanical model for flexible exercise bars to study the influence of the initial position of the bar on lumbar discs and muscles forces. , 2015, 2015, 3917-20.		0
30	Recovering the mechanical properties of denatured intervertebral discs through Platelet-Rich Plasma therapy. , 2015, 2015, 933-6.		4
31	An in silico parametric model of vertebrae trabecular bone based on density and microstructural parameters to assess risk of fracture in osteoporosis. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2014, 228, 1281-1295.	1.0	4
32	Material Property Identification of Artificial Degenerated Intervertebral Disc Models â€” Comparison of Inverse Poroelastic Finite Element Analysis with Biphasic Closed Form Solution. Journal of Mechanics, 2013, 29, 589-597.	0.7	4
33	A meta-model analysis of a finite element simulation for defining poroelastic properties of intervertebral discs. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2013, 227, 672-682.	1.0	23
34	DYNAMIC RESPONSES OF INTERVERTEBRAL DISC DURING STATIC CREEP AND DYNAMIC CYCLIC LOADING: A PARAMETRIC POROELASTIC FINITE ELEMENT ANALYSIS. Biomedical Engineering - Applications, Basis and Communications, 2013, 25, 1350013.	0.3	9
35	Rheological and Dynamic Integrity of Simulated Degenerated Disc and Consequences After Cross-linker Augmentation. Spine, 2013, 38, E1446-E1453.	1.0	8
36	Investigation of Low Back Pain Using System Modeling. Advanced Science Letters, 2013, 19, 1260-1264.	0.2	2

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37	On low back pain: Identification of structural changes in system parameters for fatigue loaded intervertebral disc using PCA. , 2012, , .		1
38	ASSESSMENT OF EXOGENOUS CROSSLINKING THERAPY FOR BIOCHEMICAL AND MECHANICAL INDUCED DEGENERATION. Journal of Biomechanics, 2012, 45, S617.	0.9	1
39	DISC RHEOLOGY CHANGES IN DEGENERATED DISC MODEL BY TRYPSIN AND GLYCATION. Journal of Biomechanics, 2012, 45, S619.	0.9	2
40	An axisymmetric poroelastic model for description of the short-term and long-term creep behavior of L4-L5 intervertebral disc. , 2011, , .		0
41	A Poroelastic Finite Element Model to Describe the Time-Dependent Response of Lumbar Intervertebral Disc. Journal of Medical Imaging and Health Informatics, 2011, 1, 246-251.	0.2	4
42	Computer Aided Tissue Engineering from Modeling to Manufacturing. Advances in Bioinformatics and Biomedical Engineering Book Series, 2010, , 75-88.	0.2	0
43	The role of the fiber ply configurations on the biomechanics of the hip prosthesis. International Journal of Modeling, Simulation, and Scientific Computing, 0, , .	0.9	0