

Xianlian Zhou

List of Publications by Year in descending order

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Version: 2024-02-01

45
papers

668
citations

1051969

10
h-index

685536

24
g-index

48
all docs

48
docs citations

48
times ranked

647
citing authors

#	ARTICLE	IF	CITATIONS
1	A quasi-3D model of the whole lung: airway extension to the tracheobronchial limit using the constrained constructive optimization and alveolar modeling, using a sacâ€“trumpet model. Journal of Computational Design and Engineering, 2021, 8, 691-704.	1.5	4
2	Reinforcement Learning and Control of a Lower Extremity Exoskeleton for Squat Assistance. Frontiers in Robotics and AI, 2021, 8, 702845.	2.0	16
3	Isogeometric high order mesh generation. Computer Methods in Applied Mechanics and Engineering, 2021, 386, 114104.	3.4	5
4	Design and Evaluation of Torque Compensation Controllers for a Lower Extremity Exoskeleton. Journal of Biomechanical Engineering, 2021, 143, .	0.6	10
5	Model-Based Comparison of Passive and Active Assistance Designs in an Occupational Upper Limb Exoskeleton for Overhead Lifting. IJSE Transactions on Occupational Ergonomics and Human Factors, 2021, , 1-19.	0.5	0
6	Model-Based Comparison of Passive and Active Assistance Designs in an Occupational Upper Limb Exoskeleton for Overhead Lifting. IJSE Transactions on Occupational Ergonomics and Human Factors, 2021, 9, 167-185.	0.5	10
7	Spline-Based Modeling and Control of Soft Robots. , 2020, , .		2
8	Neck musculoskeletal model generation through anthropometric scaling. PLoS ONE, 2020, 15, e0219954.	1.1	8
9	Predictive Human-in-the-Loop Simulations for Assistive Exoskeletons. , 2020, , .		5
10	Spatial coordinate corrected motion tracking for optical coherence elastography. , 2020, 11242, .		0
11	Neck musculoskeletal model generation through anthropometric scaling. , 2020, 15, e0219954.		0
12	Neck musculoskeletal model generation through anthropometric scaling. , 2020, 15, e0219954.		0
13	Neck musculoskeletal model generation through anthropometric scaling. , 2020, 15, e0219954.		0
14	Neck musculoskeletal model generation through anthropometric scaling. , 2020, 15, e0219954.		0
15	Spine-Inspired Continuum Soft Exoskeleton for Stoop Lifting Assistance. IEEE Robotics and Automation Letters, 2019, 4, 4547-4554.	3.3	66
16	An Open Source, Geometry Kernel Based High-Order Element Mesh Generation Tool. , 2019, , .		0
17	Effects of Head Supported Mass on Predicted Neck Musculoskeletal Loadings During Walking and Running. , 2019, , .		0
18	Spatial coordinate corrected motion tracking for optical coherence elastography. Biomedical Optics Express, 2019, 10, 6160.	1.5	8

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19	A non-linear multiaxial fatigue damage model for the cervical intervertebral disc annulus. <i>Advances in Mechanical Engineering</i> , 2018, 10, 168781401877949.	0.8	4
20	Modeling of Muscle Atrophy and Exercise Induced Hypertrophy. <i>Advances in Intelligent Systems and Computing</i> , 2018, , 116-127.	0.5	0
21	Anthropometry model generation based on ANSUR II database. <i>International Journal of the Digital Human</i> , 2016, 1, 321.	0.1	9
22	Damage Prediction for a Cervical Spine Intervertebral Disc. , 2016, , .		2
23	Modeling Skeletal Injuries in Military Scenarios. <i>Studies in Mechanobiology, Tissue Engineering and Biomaterials</i> , 2016, , 3-35.	0.7	1
24	Anthropometry model generation based on ANSUR II database. <i>International Journal of the Digital Human</i> , 2016, 1, 321.	0.1	2
25	Cortical Spiking Network Interfaced with Virtual Musculoskeletal Arm and Robotic Arm. <i>Frontiers in Neurorobotics</i> , 2015, 9, 13.	1.6	22
26	Towards a Micromechanical Model of Intervertebral Disc Degeneration Under Cyclic Loading. , 2014, , .		0
27	A musculoskeletal fatigue model for prediction of aviator neck manoeuvring loadings. <i>International Journal of Human Factors Modelling and Simulation</i> , 2014, 4, 191.	0.1	10
28	Virtual musculoskeletal arm and robotic arm driven by a biomimetic model of sensorimotor cortex with reinforcement learning. , 2013, , .		8
29	A fast and robust whole-body control algorithm for running. <i>International Journal of Human Factors Modelling and Simulation</i> , 2011, 2, 127.	0.1	8
30	Cylindrical element: Isogeometric model of continuum rod. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2011, 200, 233-241.	3.4	18
31	A Robust Real-Time Control Algorithm for Whole-Body Running. , 2011, , .		0
32	Patient-Specific Wall Stress Analysis in Cerebral Aneurysms Using Inverse Shell Model. <i>Annals of Biomedical Engineering</i> , 2010, 38, 478-489.	1.3	38
33	High-Fidelity and Compact Modeling for Bone Conduction Communication Systems. , 2009, , .		0
34	Computational Modeling of Helmet Structural Dynamics During Blunt Impacts. , 2009, , .		3
35	Estimation of vascular open configuration using finite element inverse elastostatic method. <i>Engineering With Computers</i> , 2009, 25, 49-59.	3.5	10
36	Techniques in Finite Element Modeling of Helmeted-Head Biomechanics. , 2009, , .		0

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37	Inverse method of stress analysis for cerebral aneurysms. Biomechanics and Modeling in Mechanobiology, 2008, 7, 477-486.	1.4	82
38	Inverse formulation for geometrically exact stress resultant shells. International Journal for Numerical Methods in Engineering, 2008, 74, 1278-1302.	1.5	18
39	Computational method of inverse elastostatics for anisotropic hyperelastic solids. International Journal for Numerical Methods in Engineering, 2007, 69, 1239-1261.	1.5	57
40	Inverse elastostatic stress analysis in pre-deformed biological structures: Demonstration using abdominal aortic aneurysms. Journal of Biomechanics, 2007, 40, 693-696.	0.9	133
41	Inverse Formulation for Geometrically Exact Stress Resultant Shell. , 2007, , 320-320.		0
42	Towards a new generation of virtual humans. International Journal of Human Factors Modelling and Simulation, 2006, 1, 2.	0.1	74
43	Biomechanical Analysis of Skeletal Muscle in an Interactive Digital Human System. , 2005, , .		2
44	NURBS-based Galerkin method and application to skeletal muscle modeling. , 2005, , .		29
45	Virtual Body Generator for Anthropometry and Physiology Based Modeling. , 0, , .		1