

J Zhang

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

707
citations

567281

15
h-index

580821

25
g-index

30
all docs

30
docs citations

30
times ranked

708
citing authors

#	ARTICLE	IF	CITATIONS
1	Patient-specific finite element estimated femur strength as a predictor of the risk of hip fracture: the effect of methodological determinants. <i>Osteoporosis International</i> , 2016, 27, 2815-2822.	3.1	80
2	Lower limb estimation from sparse landmarks using an articulated shape model. <i>Journal of Biomechanics</i> , 2016, 49, 3875-3881.	2.1	60
3	An anatomical region-based statistical shape model of the human femur. <i>Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization</i> , 2014, 2, 176-185.	1.9	58
4	Predictive statistical models of baseline variations in 3-D femoral cortex morphology. <i>Medical Engineering and Physics</i> , 2016, 38, 450-457.	1.7	50
5	Statistical shape modelling versus linear scaling: Effects on predictions of hip joint centre location and muscle moment arms in people with hip osteoarthritis. <i>Journal of Biomechanics</i> , 2019, 85, 164-172.	2.1	47
6	The MAP Client: User-Friendly Musculoskeletal Modelling Workflows. <i>Lecture Notes in Computer Science</i> , 2014, , 182-192.	1.3	44
7	Men and women have similarly shaped carpometacarpal joint bones. <i>Journal of Biomechanics</i> , 2015, 48, 3420-3426.	2.1	38
8	Accuracy of femur reconstruction from sparse geometric data using a statistical shape model. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2017, 20, 566-576.	1.6	37
9	Multiscale musculoskeletal modelling, dataâ€“model fusion and electromyography-informed modelling. <i>Interface Focus</i> , 2016, 6, 20150084.	3.0	34
10	Influence of collars on the primary stability of cementless femoral stems: A finite element study using a diverse patient cohort. <i>Journal of Orthopaedic Research</i> , 2018, 36, 1185-1195.	2.3	34
11	Toward modeling locomotion using electromyographyâ€“informed 3D models: application to cerebral palsy. <i>Wiley Interdisciplinary Reviews: Systems Biology and Medicine</i> , 2017, 9, e1368.	6.6	31
12	The morphology of the human mandible: A computational modelling study. <i>Biomechanics and Modeling in Mechanobiology</i> , 2020, 19, 1187-1202.	2.8	29
13	Minimal medical imaging can accurately reconstruct geometric bone models for musculoskeletal models. <i>PLoS ONE</i> , 2019, 14, e0205628.	2.5	23
14	Automated creation and tuning of personalised muscle paths for OpenSim musculoskeletal models of the knee joint. <i>Biomechanics and Modeling in Mechanobiology</i> , 2021, 20, 521-533.	2.8	19
15	Early morphologic changes in trapeziometacarpal joint bones with osteoarthritis. <i>Osteoarthritis and Cartilage</i> , 2018, 26, 1338-1344.	1.3	17
16	Virtual trial to evaluate the robustness of cementless femoral stems to patient and surgical variation. <i>Journal of Biomechanics</i> , 2019, 82, 346-356.	2.1	17
17	Trapeziometacarpal joint contact varies between men and women during three isometric functional tasks. <i>Medical Engineering and Physics</i> , 2017, 50, 43-49.	1.7	15
18	Point-cloud registration using adaptive radial basis functions. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2018, 21, 498-502.	1.6	15

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19	Evaluating the primary stability of standard vs lateralised cementless femoral stems – A finite element study using a diverse patient cohort. <i>Clinical Biomechanics</i> , 2018, 59, 101-109.	1.2	10
20	Musculoskeletal Modelling and the Physiome Project. <i>CISM International Centre for Mechanical Sciences, Courses and Lectures</i> , 2018, , 123-174.	0.6	10
21	Towards rapid prediction of personalised muscle mechanics: integration with diffusion tensor imaging. <i>Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization</i> , 2020, 8, 492-500.	1.9	6
22	Influence of femoral external shape on internal architecture and fracture risk. <i>Biomechanics and Modeling in Mechanobiology</i> , 2020, 19, 1251-1261.	2.8	6
23	Development of an in situ procedure to evaluate the reticulo-rumen morphology of sheep selected for divergent methane emissions. <i>Animal</i> , 2019, 13, 542-548.	3.3	5
24	Using partial least squares regression as a predictive tool in describing equine third metacarpal bone shape. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2017, 20, 1609-1612.	1.6	4
25	Rapid muscle volume prediction using anthropometric measurements and population-derived statistical models. <i>Biomechanics and Modeling in Mechanobiology</i> , 2020, 19, 1239-1249.	2.8	4
26	Automatic Meshing of Femur Cortical Surfaces from Clinical CT Images. <i>Lecture Notes in Computer Science</i> , 2012, , 40-48.	1.3	3
27	Rapid Prediction of Personalised Muscle Mechanics: Integration with Diffusion Tensor Imaging. <i>Lecture Notes in Computer Science</i> , 2017, , 71-77.	1.3	3
28	On the Use of Population-Based Statistical Models in Biomechanics. , 2019, , 229-237.		3
29	Relationship between lower lumbar spine shape and patient bone metabolic activity as characterised by 18F NaF bio-markers. <i>Computers in Biology and Medicine</i> , 2020, 116, 103529.	7.0	3
30	Automatic segmentation of the thumb trapeziometacarpal joint using parametric statistical shape modelling and random forest regression voting. <i>Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization</i> , 2019, 7, 297-301.	1.9	2