

Alison C Jones

List of Publications by Year in descending order

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Version: 2024-02-01

21
papers

498
citations

933447

10
h-index

752698

20
g-index

21
all docs

21
docs citations

21
times ranked

584
citing authors

#	ARTICLE	IF	CITATIONS
1	Importance of dynamics in the finite element prediction of plastic damage of polyethylene acetabular liners under edge loading conditions. <i>Medical Engineering and Physics</i> , 2021, 95, 97-103.	1.7	3
2	Optimizing computational methods of modeling vertebroplasty in experimentally augmented human lumbar vertebrae. <i>JOR Spine</i> , 2020, 3, e1077.	3.2	5
3	Development of robust finite element models of porcine tibiofemoral joints loaded under varied flexion angles and tibial freedoms. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2020, 109, 103797.	3.1	4
4	Computationally efficient modelling of hip replacement separation due to small mismatches in component centres of rotation. <i>Journal of Biomechanics</i> , 2019, 95, 109296.	2.1	4
5	Finite element analysis of polyethylene wear in total hip replacement: A literature review. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2019, 233, 1067-1088.	1.8	22
6	Finite element models of the tibiofemoral joint: A review of validation approaches and modelling challenges. <i>Medical Engineering and Physics</i> , 2019, 74, 1-12.	1.7	33
7	A methodology for the generation and non-destructive characterisation of transverse fractures in long bones. <i>Bone Reports</i> , 2018, 8, 221-228.	0.4	0
8	Patient-specific parameterised cam geometry in finite element models of femoroacetabular impingement of the hip. <i>Clinical Biomechanics</i> , 2018, 54, 62-70.	1.2	7
9	Three-dimensional assessment of impingement risk in geometrically parameterised hips compared with clinical measures. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2017, 33, e2867.	2.1	6
10	Dynamic virtual simulation of the occurrence and severity of edge loading in hip replacements associated with variation in the rotational and translational surgical position. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2017, 231, 299-306.	1.8	3
11	The effect of collagen fibril orientation on the biphasic mechanics of articular cartilage. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2017, 65, 439-453.	3.1	55
12	Subject-specific multi-validation of a finite element model of ovine cervical functional spinal units. <i>Journal of Biomechanics</i> , 2016, 49, 259-266.	2.1	10
13	The influence of the representation of collagen fibre organisation on the cartilage contact mechanics of the hip joint. <i>Journal of Biomechanics</i> , 2016, 49, 1679-1685.	2.1	13
14	Modelling the failure precursor mechanism of lamellar fibrous tissues, example of the annulus fibrosus. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2016, 63, 265-272.	3.1	5
15	Geometric parameterisation of pelvic bone and cartilage in contact analysis of the natural hip: An initial study. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2015, 229, 570-580.	1.8	10
16	Periprosthetic femoral fracture fixation: A biomechanical comparison between proximal locking screws and cables. <i>Journal of Orthopaedic Science</i> , 2015, 20, 875-880.	1.1	28
17	Periprosthetic Femoral Fracture – A Biomechanical Comparison Between Vancouver Type B1 and B2 Fixation Methods. <i>Journal of Arthroplasty</i> , 2014, 29, 495-500.	3.1	49
18	Vertebroplasty: Patient and treatment variations studied through parametric computational models. <i>Clinical Biomechanics</i> , 2013, 28, 860-865.	1.2	7

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19	Subject-Specific Models of the Spine for the Analysis of Vertebroplasty. <i>Studies in Mechanobiology, Tissue Engineering and Biomaterials</i> , 2011, , 133-154.	1.0	2
20	Finite element analysis of the spine: Towards a framework of verification, validation and sensitivity analysis. <i>Medical Engineering and Physics</i> , 2008, 30, 1287-1304.	1.7	194
21	Assessment of Factors Influencing Finite Element Vertebral Model Predictions. <i>Journal of Biomechanical Engineering</i> , 2007, 129, 898-903.	1.3	38