Alison C Jones

List of Publications by Year
in descending order

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	Finite element analysis of the spine: Towards a framework of verification, validation and sensitivity analysis. Medical Engineering and Physics, 2008, 30, 1287-1304.	1.7	194
2	The effect of collagen fibril orientation on the biphasic mechanics of articular cartilage. Journal of the Mechanical Behavior of Biomedical Materials, 2017, 65, 439-453.	3.1	55
3	Periprosthetic Femoral Fracture â€" A Biomechanical Comparison Between Vancouver Type B1 and B2 Fixation Methods. Journal of Arthroplasty, 2014, 29, 495-500.	3.1	49
4	Assessment of Factors Influencing Finite Element Vertebral Model Predictions. Journal of Biomechanical Engineering, 2007, 129, 898-903.	1.3	38
5	Finite element models of the tibiofemoral joint: A review of validation approaches and modelling challenges. Medical Engineering and Physics, 2019, 74, 1-12.	1.7	33
6	Periprosthetic femoral fracture fixation: A biomechanical comparison between proximal locking screws and cables. Journal of Orthopaedic Science, 2015, 20, 875-880.	1.1	28
7	Finite element analysis of polyethylene wear in total hip replacement: A literature review. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2019, 233, 1067-1088.	1.8	22
8	The influence of the representation of collagen fibre organisation on the cartilage contact mechanics of the hip joint. Journal of Biomechanics, 2016, 49, 1679-1685.	2.1	13
9	Geometric parameterisation of pelvic bone and cartilage in contact analysis of the natural hip: An initial study. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2015, 229, 570-580.	1.8	10
10	Subject-specific multi-validation of a finite element model of ovine cervical functional spinal units. Journal of Biomechanics, 2016, 49, 259-266.	2.1	10
11	Vertebroplasty: Patient and treatment variations studied through parametric computational models. Clinical Biomechanics, 2013, 28, 860-865.	1.2	7
12	Patient-specific parameterised cam geometry in finite element models of femoroacetabular impingement of the hip. Clinical Biomechanics, 2018, 54, 62-70.	1.2	7
13	Threeâ€dimensional assessment of impingement risk in geometrically parameterised hips compared with clinical measures. International Journal for Numerical Methods in Biomedical Engineering, 2017, 33, e2867.	2.1	6
14	Modelling the failure precursor mechanism of lamellar fibrous tissues, example of the annulus fibrosus. Journal of the Mechanical Behavior of Biomedical Materials, 2016, 63, 265-272.	3.1	5
15	Optimizing computational methods of modeling vertebroplasty in experimentally augmented human lumbar vertebrae. JOR Spine, 2020, 3, e1077.	3.2	5
16	Computationally efficient modelling of hip replacement separation due to small mismatches in component centres of rotation. Journal of Biomechanics, 2019, 95, 109296.	2.1	4
17	Development of robust finite element models of porcine tibiofemoral joints loaded under varied flexion angles and tibial freedoms. Journal of the Mechanical Behavior of Biomedical Materials, 2020, 109, 103797.	3.1	4
18	Dynamic virtual simulation of the occurrence and severity of edge loading in hip replacements associated with variation in the rotational and translational surgical position. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2017, 231, 299-306.	1.8	3

#	Article	IF	Citations
19	Importance of dynamics in the finite element prediction of plastic damage of polyethylene acetabular liners under edge loading conditions. Medical Engineering and Physics, 2021, 95, 97-103.	1.7	3
20	Subject-Specific Models of the Spine for the Analysis of Vertebroplasty. Studies in Mechanobiology, Tissue Engineering and Biomaterials, 2011, , 133-154.	1.0	2
21	A methodology for the generation and non-destructive characterisation of transverse fractures in long bones. Bone Reports, 2018, 8, 221-228.	0.4	0