

# Jason P Halloran

## List of Publications by Year in descending order

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Version: 2024-02-01

17  
papers

732  
citations

1040056

9  
h-index

888059

17  
g-index

17  
all docs

17  
docs citations

17  
times ranked

768  
citing authors

#	ARTICLE	IF	CITATIONS
1	Explicit finite element modeling of total knee replacement mechanics. <i>Journal of Biomechanics</i> , 2005, 38, 323-331.	2.1	252
2	Considerations for reporting finite element analysis studies in biomechanics. <i>Journal of Biomechanics</i> , 2012, 45, 625-633.	2.1	161
3	Concurrent musculoskeletal dynamics and finite element analysis predicts altered gait patterns to reduce foot tissue loading. <i>Journal of Biomechanics</i> , 2010, 43, 2810-2815.	2.1	65
4	Probabilistic finite element prediction of knee wear simulator mechanics. <i>Journal of Biomechanics</i> , 2006, 39, 2303-2310.	2.1	59
5	Adaptive Surrogate Modeling for Efficient Coupling of Musculoskeletal Control and Tissue Deformation Models. <i>Journal of Biomechanical Engineering</i> , 2009, 131, 011014.	1.3	48
6	A general framework for application of prestrain to computational models of biological materials. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2016, 61, 499-510.	3.1	40
7	Deciphering the "Art" in Modeling and Simulation of the Knee Joint: Overall Strategy. <i>Journal of Biomechanical Engineering</i> , 2019, 141, .	1.3	34
8	Adaptive Surrogate Modeling for Expedited Estimation of Nonlinear Tissue Properties Through Inverse Finite Element Analysis. <i>Annals of Biomedical Engineering</i> , 2011, 39, 2388-2397.	2.5	13
9	Commentary on the Integration of Model Sharing and Reproducibility Analysis to Scholarly Publishing Workflow in Computational Biomechanics. <i>IEEE Transactions on Biomedical Engineering</i> , 2016, 63, 2080-2085.	4.2	13
10	Use of distraction loading to estimate subject-specific knee ligament slack lengths. <i>Journal of Biomechanics</i> , 2019, 92, 1-5.	2.1	11
11	Deciphering the "Art" in Modeling and Simulation of the Knee Joint: Variations in Model Development. <i>Journal of Biomechanical Engineering</i> , 2021, 143, .	1.3	9
12	Evaluation of a post-processing approach for multiscale analysis of biphasic mechanics of chondrocytes. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2013, 16, 1112-1126.	1.6	8
13	Specimen specific imaging and joint mechanical testing data for next generation virtual knees. <i>Data in Brief</i> , 2021, 35, 106824.	1.0	6
14	A Method to Compare Heterogeneous Types of Bone and Cartilage Meshes. <i>Journal of Biomechanical Engineering</i> , 2021, 143, .	1.3	5
15	Assessment of reporting practices and reproducibility potential of a cohort of published studies in computational knee biomechanics. <i>Journal of Orthopaedic Research</i> , 2023, 41, 325-334.	2.3	5
16	WraptMor: Confirmation of an Approach to Estimate Ligament Fiber Length and Reactions With Knee-Specific Morphology. <i>Journal of Biomechanical Engineering</i> , 2021, 143, .	1.3	2
17	The potential for intercellular mechanical interaction: simulations of single chondrocyte versus anatomically based distribution. <i>Biomechanics and Modeling in Mechanobiology</i> , 2018, 17, 159-168.	2.8	1