

Michael A Sherman

List of Publications by Year in descending order

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9
papers

1,382
citations

1163117

8
h-index

1588992

8
g-index

9
all docs

9
docs citations

9
times ranked

1507
citing authors

#	ARTICLE	IF	CITATIONS
1	OpenSim: Simulating musculoskeletal dynamics and neuromuscular control to study human and animal movement. PLoS Computational Biology, 2018, 14, e1006223.	3.2	735
2	OpenSim: a musculoskeletal modeling and simulation framework for in silico investigations and exchange. Procedia IUTAM, 2011, 2, 212-232.	1.2	219
3	Simbody: multibody dynamics for biomedical research. Procedia IUTAM, 2011, 2, 241-261.	1.2	193
4	What is a Moment Arm? Calculating Muscle Effectiveness in Biomechanical Models Using Generalized Coordinates. , 2013, 2013, .		60
5	Fast Flexible Modeling of RNA Structure Using Internal Coordinates. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2011, 8, 1247-1257.	3.0	58
6	Minimal formulation of joint motion for biomechanisms. Nonlinear Dynamics, 2010, 62, 291-303.	5.2	57
7	A fast multi-obstacle muscle wrapping method using natural geodesic variations. Multibody System Dynamics, 2016, 36, 195-219.	2.7	31
8	Making a meaningful impact: modelling simultaneous frictional collisions in spatial multibody systems. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2015, 471, 20140859.	2.1	16
9	A Transition-Aware Method for the Simulation of Compliant Contact With Regularized Friction. IEEE Robotics and Automation Letters, 2020, 5, 1859-1866.	5.1	13