Joy P Ku

List of Publications by Year
in descending order

17 papers	2,193 citations	687363 13 h-index	888059 17 g-index
17 all docs	17 docs citations	17 times ranked	2746 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	OpenMM 4: A Reusable, Extensible, Hardware Independent Library for High Performance Molecular Simulation. Journal of Chemical Theory and Computation, 2013, 9, 461-469.	5.3	583
3	Predictive Medicine: Computational Techniques in Therapeutic Decision-Making. Computer Aided Surgery, 1999, 4, 231-247.	1.8	223
4	Predictive medicine: Computational techniques in therapeutic decisionâ€making. Computer Aided Surgery, 1999, 4, 231-247.	1.8	116
5	Predictive medicine: Computational techniques in therapeutic decision-making. Computer Aided Surgery, 1999, 4, 231-247.	1.8	97
6	In vivo validation of a one-dimensional finite-element method for predicting blood flow in cardiovascular bypass grafts. IEEE Transactions on Biomedical Engineering, 2003, 50, 649-656.	4.2	91
7	Comparison of CFD and MRI Flow and Velocities in an In Vitro Large Artery Bypass Graft Model. Annals of Biomedical Engineering, 2005, 33, 257-269.	2.5	87
8	In Vivo Validation of Numerical Prediction of Blood Flow in Arterial Bypass Grafts. Annals of Biomedical Engineering, 2002, 30, 743-752.	2.5	71
9	Credible practice of modeling and simulation in healthcare: ten rules from a multidisciplinary perspective. Journal of Translational Medicine, 2020, 18, 369.	4.4	56
10	Credibility, Replicability, and Reproducibility in Simulation for Biomedicine and Clinical Applications in Neuroscience. Frontiers in Neuroinformatics, 2018, 12, 18.	2.5	36
11	Internet-based system for simulation-based medical planning for cardiovascular disease. IEEE Transactions on Information Technology in Biomedicine, 2003, 7, 123-129.	3.2	24
12	The mobilize center: an NIH big data to knowledge center to advance human movement research and improve mobility. Journal of the American Medical Informatics Association: JAMIA, 2015, 22, 1120-1125.	4.4	24
13	Mobile Health: making the leap to research and clinics. Npj Digital Medicine, 2021, 4, 83.	10.9	17
14	Perspectives on Sharing Models and Related Resources in Computational Biomechanics Research. Journal of Biomechanical Engineering, 2018, 140, .	1.3	16
15	Simbios: an NIH national center for physics-based simulation of biological structures. Journal of the American Medical Informatics Association: JAMIA, 2012, 19, 186-189.	4.4	9
16	Reference data on thickness and mechanics of tissue layers and anthropometry of musculoskeletal extremities. Scientific Data, 2018, 5, 180193.	5.3	6
17	Reference data on in vitro anatomy and indentation response of tissue layers of musculoskeletal extremities. Scientific Data, 2020, 7, 20.	5.3	2