

Editorial

2020 Editors' Choice Papers

The JBME Associate Editors selected the top papers published in the journal during 2020. Those Editors' Choice papers, listed below in chronological order, exemplified both the high quality and the breadth of papers published in the journal. Congratulations to these authors and to all the authors whose work appeared in the JBME over the past year!

Alatalo, D., Jiang, L., Geddes, D., and Hassanipour, F., 2020, "Nipple Deformation and Peripheral Pressure on the Areola During Breastfeeding," *ASME J. Biomech. Eng.*, **142**(1), p. 011004.

Travagliano, S., Murdock, K., Tran, A., Martin, C., Liang, L., Wang, Y., and Sun, W., 2020, "Computational Optimization Study of Transcatheter Aortic Valve Leaflet Design Using Porcine and Bovine Leaflets," *ASME J. Biomech. Eng.*, **142**(1), p. 011007.

Marchi, B. C., Arruda, E. M., and Coleman, R. M., 2020, "The Effect of Articular Cartilage Focal Defect Size and Location in Whole Knee Biomechanics Models," *ASME J. Biomech. Eng.*, **142**(2), p. 021002.

Karabulut, D., Dogru, S. C., Lin, Y. C., Pandy, M. G., Herzog, W., and Arslan, Y. Z., 2020, "Direct Validation of Model-Predicted Muscle Forces in the Cat Hindlimb During Locomotion," *ASME J. Biomech. Eng.*, **142**(5), p. 051014.

Norton, N. M., Barnds, B., McIff, T. E., Bruce, T. E., and Fischer, K. J., 2020, "The Effect of the Joint Capsule and Anterior Oblique Ligament on Dorsal Subluxation of the First Metacarpal During Key Pinch," *ASME J. Biomech. Eng.*, **142**(6), p. 065402.

Dawson, L., Koncan, D., Post, A., Zemek, R., Gilchrist, M. D., Marshall, S., and Hoshizaki, T. B., 2020, "Biomechanical Comparison of Real World Concussive Impacts in Children, Adolescents, and Adults," *ASME J. Biomech. Eng.*, **142**(7), p. 071004.

Song, D., Dong, L., Gupta, M., Li, L., Klaas, O., Loghin, A., Beall, M., Chen, C. S., and Oberai, A. A., 2020, "Recovery of Tensions Exerted by Single Cells in Three-Dimensional Nonlinear Matrices," *ASME J. Biomech. Eng.*, **142**(8), p. 081012.

Kuxhaus, L., Michalek, A. J., Martin, S. M., and Steinbacher, J. L., 2020, "Bridging the Gap: Science and Technology Policy in the (Bio) Engineering Classroom," *ASME J. Biomech. Eng.*, **142**(11), p. 114703.

Bracamonte, J. H., Wilson, J. S., and Soares, J. S., 2020, "Assessing Patient-Specific Mechanical Properties of Aortic Wall and Peri-Aortic Structures From In Vivo DENSE Magnetic Resonance Imaging Using an Inverse Finite Element Method and Elastic Foundation Boundary Conditions," *ASME J. Biomech. Eng.*, **142**(12), p. 121011.