

Biomedical Engineering

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Our research is focused on using nanoprobes to characterize and fabricate biological materials and systems. The aim is to develop a fundamental understanding of how diseases affect the nanomechanical behavior of tissues and the properties of individual biomolecules. Nanoprobes are also used to modify the chemical and morphological properties of surfaces with the goal of enhancing their biocompatibility and fabricating new biomaterials.



Recent Papers:

1. Kotha S.P., DePaula C.A., Mann A.B. and Guzelsu N., "High Frequency Ultrasound Prediction of Mechanical Properties of Cortical Bone with Varying Amount of Mineral Content", *Ultrasound in Medicine & Biology*, 34, 630-637 (2008).
2. Kavukcuoglu B., Ramirez F., Artega-Solis E., Lee-Artega S. and Mann A.B., "Nanomechanics and Raman spectroscopy of fibrillin 2 knock-out mouse bones", *Journal of Materials Science*, 42, 8788-8794 (2007).
3. Braly A., Darnell L.A., Mann A.B., Teaford M.F. and Weihs T.P., "The Effect of Orientation on the Indentation Testing of Human Molar Enamel", *Archives of Oral Biology*, 52, 856-860 (2007).



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