

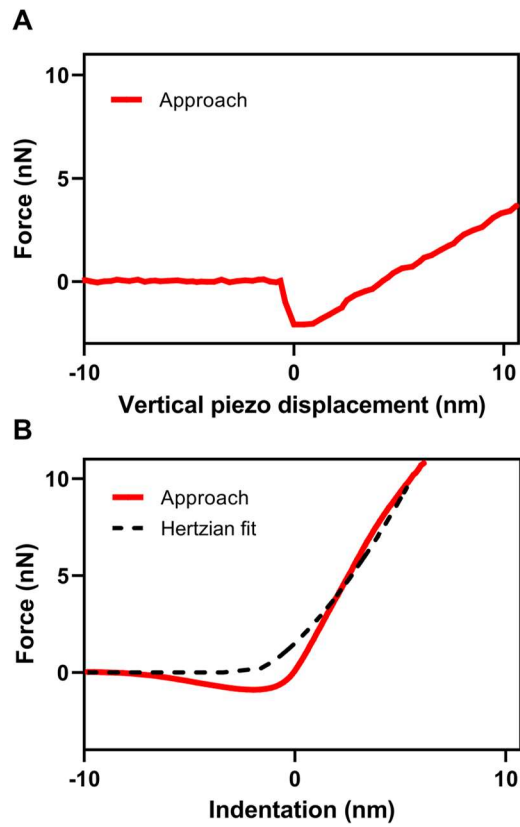
# **QUANTIFYING THE VISCOSITY OF INDIVIDUAL SUBMICROMETER SEMISOLID PARTICLES USING ATOMIC FORCE MICROSCOPY**

*Chamika K. Madawala, Hansol D. Lee, Chathuri P. Kaluarachchi, Alexei V. Tivanski\**

Department of Chemistry, University of Iowa, Iowa City, Iowa 52242, USA.

Corresponding Author

\*E-mail: alexei-tivanski@uiowa.edu



**Figure S1.** (A) Representative force versus vertical piezo displacement and (B) corresponding force versus indentation profiles (only approach data are shown) collected at 30% RH over an individual glucose particle. The black dashed line is the Hertzian elastic contact model fit used to determine point of contact (i.e., zero indentation).