John Breen
Ph.D. Student in Chemistry, admitted Autumn 2016

Publications

PUBLICATIONS

• Probing Lattice Dynamics in Two-Dimensional Inorganic Pseudohalide Perovskites with Ultrafast Infrared Spectroscopy. *Journal of Physical Chemistry C*
  Xing, X., Li, J., Breen, J. P., Nishida, J., Karunadasa, H., Fayer, M. D.
  2022; 126 (24): 10145-10158

• Structural Dynamics in Ionic Liquid Thin Films: The Effect of Cation Chain Length. *Journal of Physical Chemistry C*
  Wu, B., Breen, J. P., Fayer, M. D.
  2020; 124 (7): 4179–89

• Controlling the Dynamics of Ionic Liquid Thin Films via Multilayer Surface Functionalization. *Journal of the American Chemical Society*
  Wu, B. n., Breen, J. P., Xing, X. n., Fayer, M. D.
  2020

• Extraordinary Slowing of Structural Dynamics in Thin Films of a Room Temperature Ionic Liquid. *ACS central science*
  Nishida, J., Breen, J. P., Wu, B., Fayer, M. D.
  2018; 4 (8): 1065–73

• Dynamically Disordered Lattice in a Layered Pb-I-SCN Perovskite Thin Film Probed by Two-Dimensional Infrared Spectroscopy. *Journal of the American Chemical Society*
  Nishida, J., Breen, J. P., Lindquist, K. P., Umeyama, D., Karunadasa, H. I., Fayer, M. D.
  2018

• Ultrafast to Ultraslow Dynamics of a Langmuir Monolayer at the Air/Water Interface Observed with Reflection Enhanced 2D IR Spectroscopy. *Journal of the American Chemical Society*
  Yan, C., Thomaz, J. E., Wang, Y., Nishida, J., Yuan, R., Breen, J. P., Fayer, M. D.
  2017; 139 (46): 16518–27