SHIRAKASHI LAB.

Various Aspects of Biological Water Dynamics - Dielectric/Short Wave Infrared Spectroscopy and Molecular Dynamics -



Department of Mechanical and Biofunctional Systems

Phase Change Thermal Engineering

Department of Mechanical Engineering, Graduate School of Engineering https://www.iis.u-tokyo.ac.jp/~aa21150/indexe.html

Water is vital for biological matters. In biological system water molecules show different dynamics and energy states from balk water because of close interaction with a variety of biomolecules. We are measuring these unique states of water by Dielectric/ Infrared Spectroscopy and calculating them with Molecular Dynamics Simulation to reveal how these water states define the macroscopic properties of biological matters.

