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[Specialty] Theoretical chemistry

【Keywords】 Vibrational spectroscopy, Intermolecular interactions, Liquids, Peptides

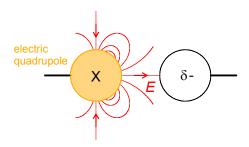
[Research Subject]

Theories of analysis for better understanding on the changes in vibrational band intensities and shapes induced by intermolecular interactions

Research Group Activity

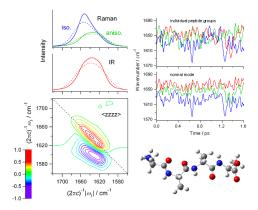
 Physicochemical Picture of Halogen Bonding

The electronic structural properties and the effects on vibrational spectra



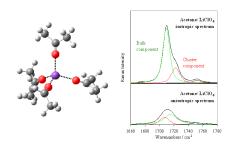
 Vibrational Band Profiles of Hydrated Peptide Chains

Calculations and analysis of 1D and 2D vibrational spectra using time-domain method



 Liquid Structures around Metal Ions and Vibrational Spectra

Characteristics of polarized Raman spectra and liquids structures



• Vibrational Band Profiles due to Weakly Resonant Vibrational Coupling Merger and intensity bias arising from vibrational coupling between different species

