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【Speciality】 Molecular Spectroscopy, Cluster Chemistry

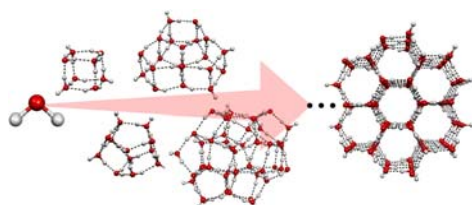
【Keywords】 Cluster, Hydrogen Bond, and
Laser Spectroscopy

【Research Subject】 Extensive hydration structure of amino acids probed by infrared spectroscopy of large-sized clusters

Research Group Activity

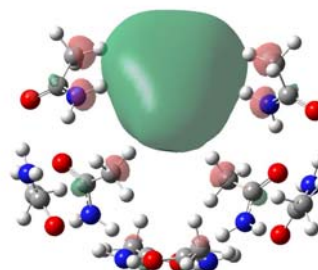
IR Spectroscopy of large-sized clusters

Hydrogen bond network structure formed by a few
tens to hundreds molecules



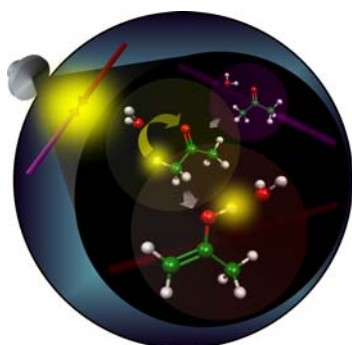
Electron transfer mechanism in biosystems
probed by cluster anion spectroscopy

Electronic structure of peptide model cluster anions



Vacuum UV – IR double resonance
spectroscopy

A new IR spectroscopic technique to probe chromophore
free systems and reaction mechanisms in photoionization



Observation of reaction intermediates in
aromatic substitution reactions

IR spectroscopy of s-complex structures in substituted
aromatic cluster cations

