

# Yoshiteru MATSUMOTO



**Assistant Professor, Graduate School of Material Science, University of Hyogo**

【E-mail】 matsu@sci.u-hyogo.ac.jp

【Speciality】 Molecular Spectroscopy

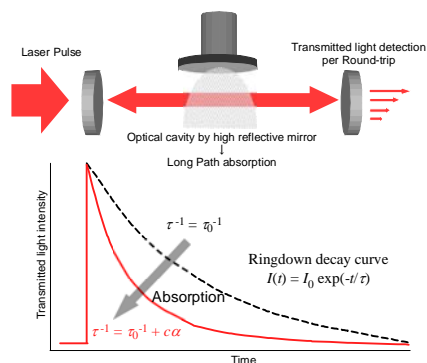
【Keywords】 IR Spectroscopy, Cluster, Hydrogen Bond

【Research Subject】 Study of the hydrogen bonded structures and fluctuation for the hydrated clusters by crossed jet – IR spectroscopy

## Research Group Activity

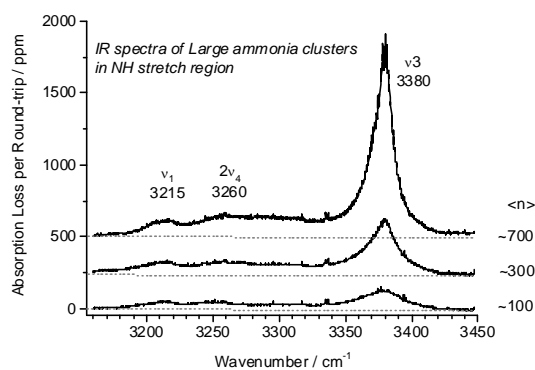
### # High sensitive detection of ultra-trace jet-cooled clusters

IR direct absorption measurement by cavity ringdown spectroscopy



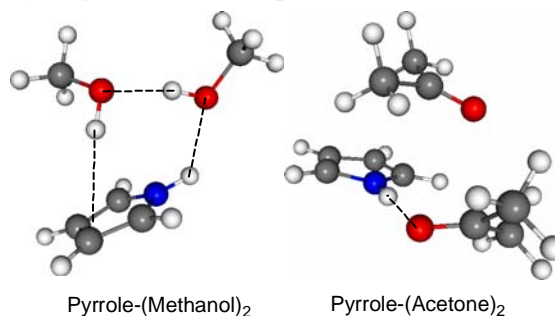
### IR spectroscopy of large-sized clusters

Probing of an analogy to bulk phase structure according to size increase



### # IR spectroscopy of solvated clusters

Study of intermolecular interaction such as hydrogen bond and dipole bond



### # Generation and observation of warm clusters by inelastic scattering

Fluctuation of cluster structures induced by crossed jet technique

