## **Akira SAKAMOTO**



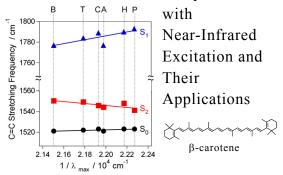
## Associate Professor, Graduate School of Science and Engineering, Saitama University

[E-mail] sakamoto@chem.saitama-u.ac.jp
[Speciality] Molecular Spectroscopy, Structural Chemistry
[Keywords] Picosecond Time-Resolved and Ordinary
Infrared and Raman Spectroscopy, Functional Molecules,
Functional Macromolecules, Unstable Molecular Species,
Electron-Molecular Vibration Interaction

[Research Subject] Picosecond Time-Resolved Near-Infrared Excited Raman Studies on Functional Molecules, Macromolecules, and Biomolecules

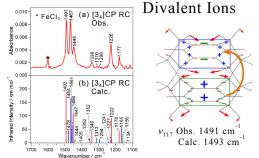
## Research Group Activity

Construction of Picosecond
 Time-Resolved Raman Spectrometers

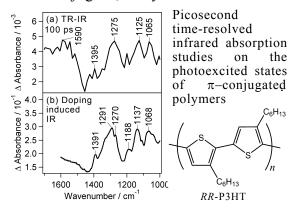


A: acetone, B: benzene, C: cyclohexane, H: *n*-hexane, P: *n*-pentane, T: tetrahydrofuran

• Electron–Molecular Vibration Interaction ①: Observation and Analyses of the Infrared Spectra of  $\pi$ –Conjugated Radical Ions and



 Photoexcited Dynamics of π-Conjugated Polymers



• Electron-Molecular Vibration Interaction ②: Near-Infrared Resonance Raman Study on the

