

A03-3

Localized/delocalized charge carriers interacting with molecular vibration in conjugation molecular materials

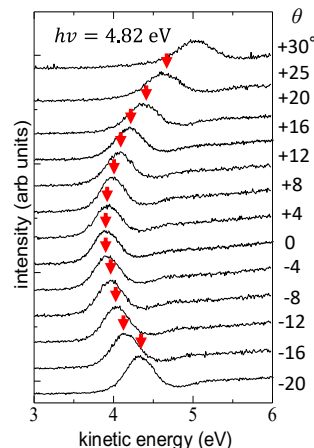
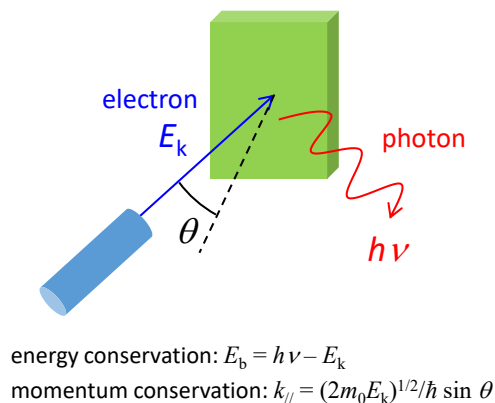
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Our Mission: Observation of condensed conjugation

Aims of A03-3

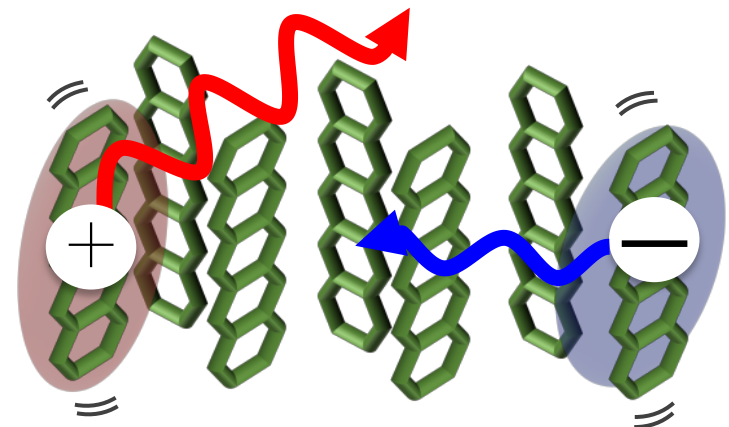
- First observation of LUMO band structure using angle-resolved low-energy inverse photoelectron spectroscopy (AR-LEIPS)
- Precise electron polarization energy determined using LEIPS
- Relationship between localization/delocalization of charge carriers and charge-molecular vibration interaction leading to deeply understanding electron conjugation and transport

Observation of LUMO band structure



angle-resolved low-energy photoelectron spectroscopy

Electron conjugation and transport



localization/delocalization of charge carriers and charge-molecular vibration interaction