

# A02-2 Condensed conjugation by orthogonal dispersion forces

Principal investigator: Daisuke Sakamaki (Osaka Metropolitan Univ)

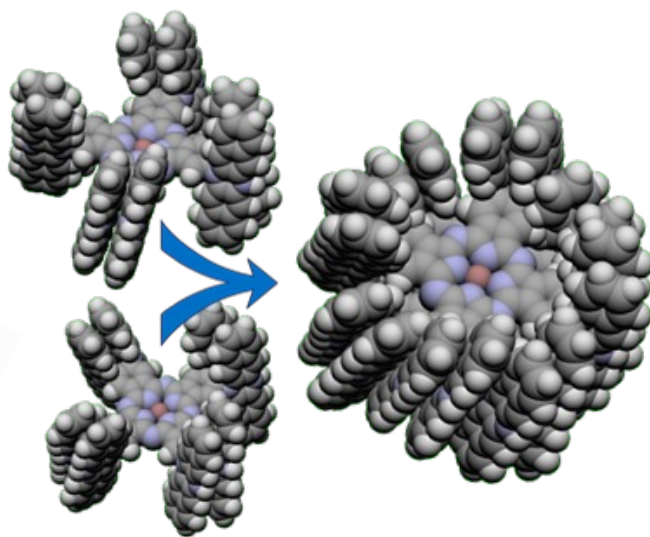
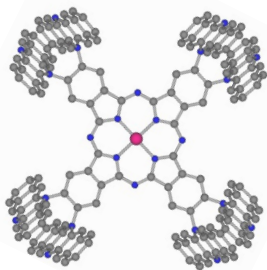
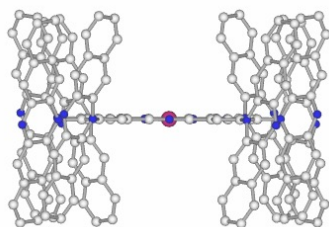
Co-investigators: Naoki Haruta (Kyoto Univ), Daiki Shimizu (Kyoto Univ)

**Our Mission:** Fixing condensed conjugation by maximizing Intermolecular interactions

## Aims of A02-2

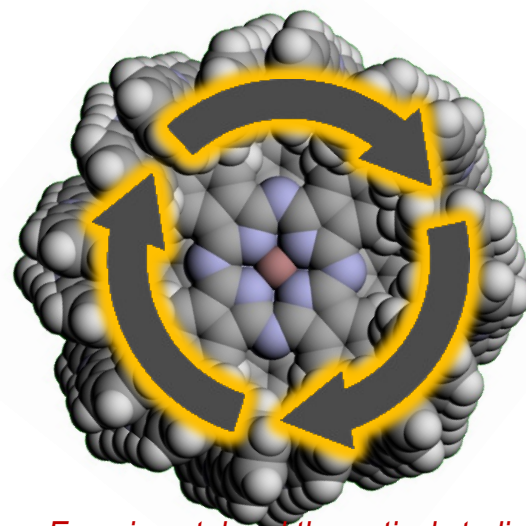
- Designing molecular arrangements for maximizing dispersion forces
- Exploring emergent properties in circularly stacked  $\pi$ -systems

Multi-point van der Waals interactions



*Isolable dimers bound by  $\pi$ - $\pi$  interactions*

Circularly stacked  $\pi$ -systems



*Experimental and theoretical studies on toroidal  $\pi$ -systems*