

Design of closely-stacked structures for condensed conjugation based on coordination chemistry

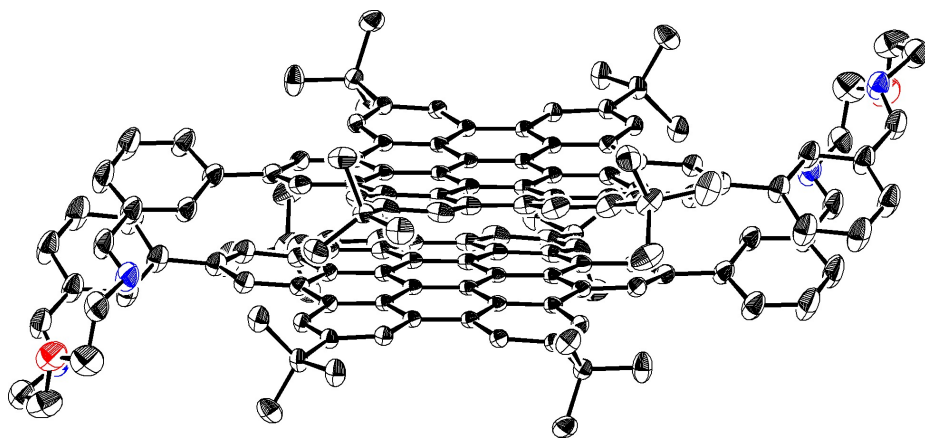
Principal investigator: Shigehisa Akine (Kanazawa Univ)

Our Mission: Fixing condensed conjugation by maximizing Intermolecular interactions

Aims of A02-4

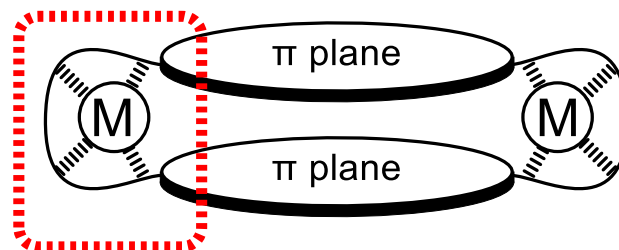
- Design and synthesis of new molecules for condensed conjugation driven by coordination bond formation
- Tuning of stacking distances and patterns by selecting appropriate metals

A π plane dimer with coordination sites



graphite-like stacking of two π planes

Concept of closely stacked π dimers assisted by coordination bonds



shorten the interplane distances by coordination bond formation