

HOUJOU LAB.

Designing Organic Crystals



Department of Materials and Environmental Science

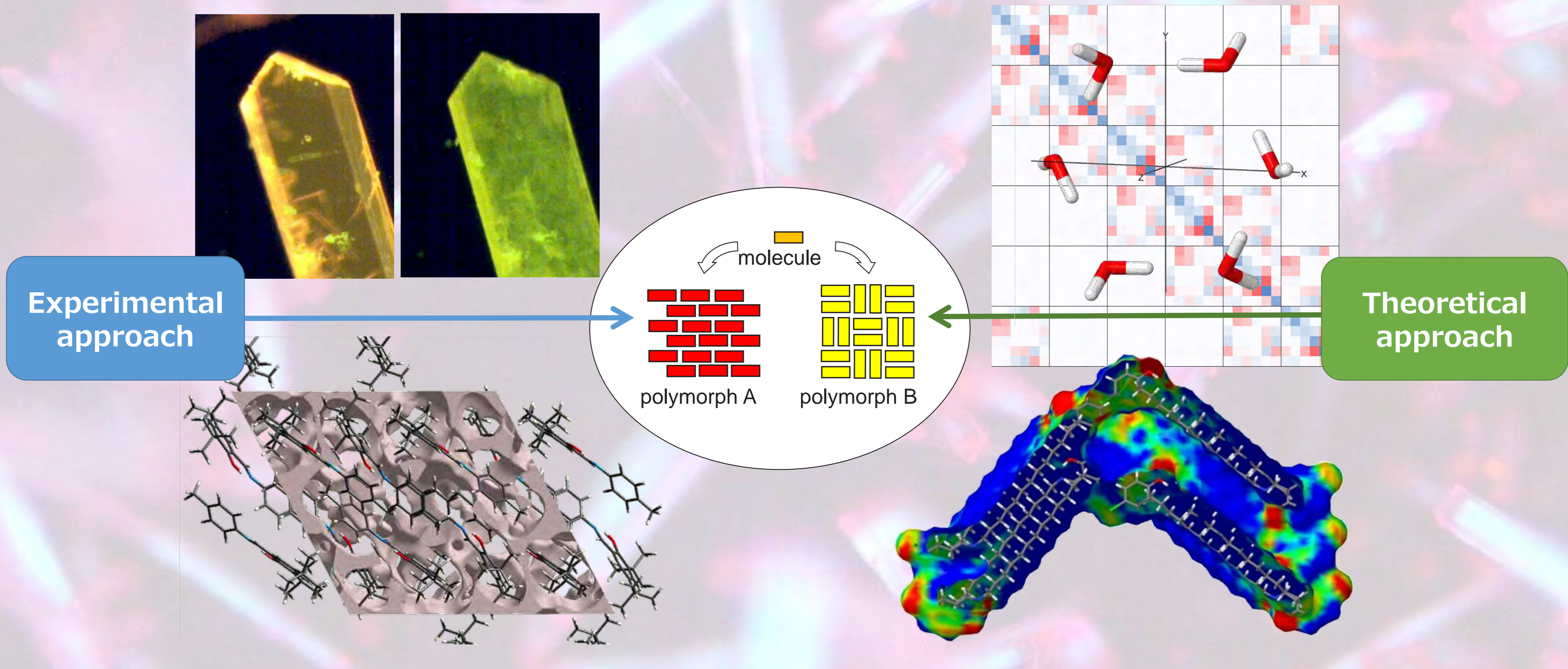
Molecular Integrated System Engineering

Department of Chemistry and Biotechnology, Graduate School of Engineering

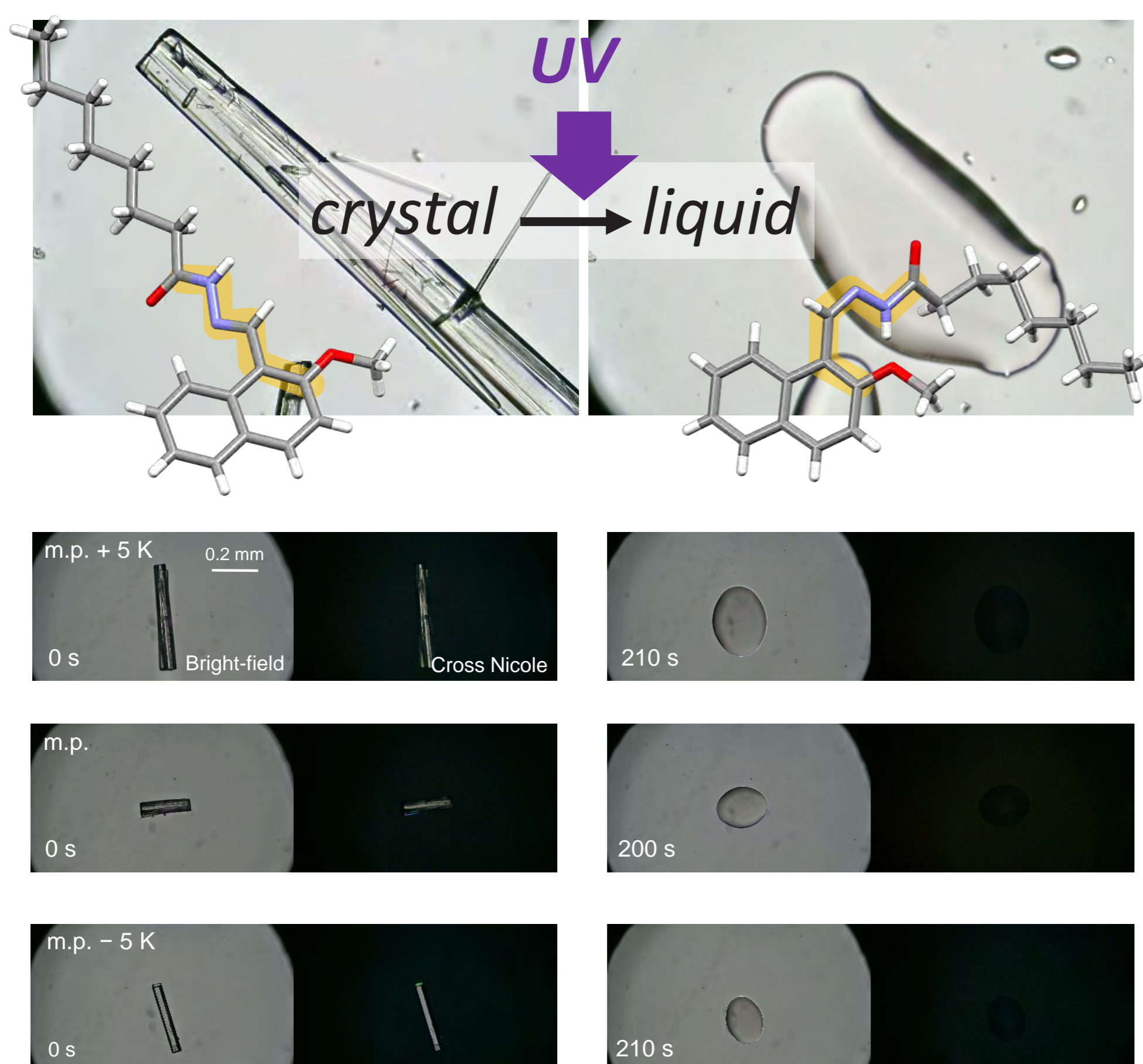
https://www.iis.u-tokyo.ac.jp/~houjou/hjlab_wiki/

Functions of Molecular Arrangement

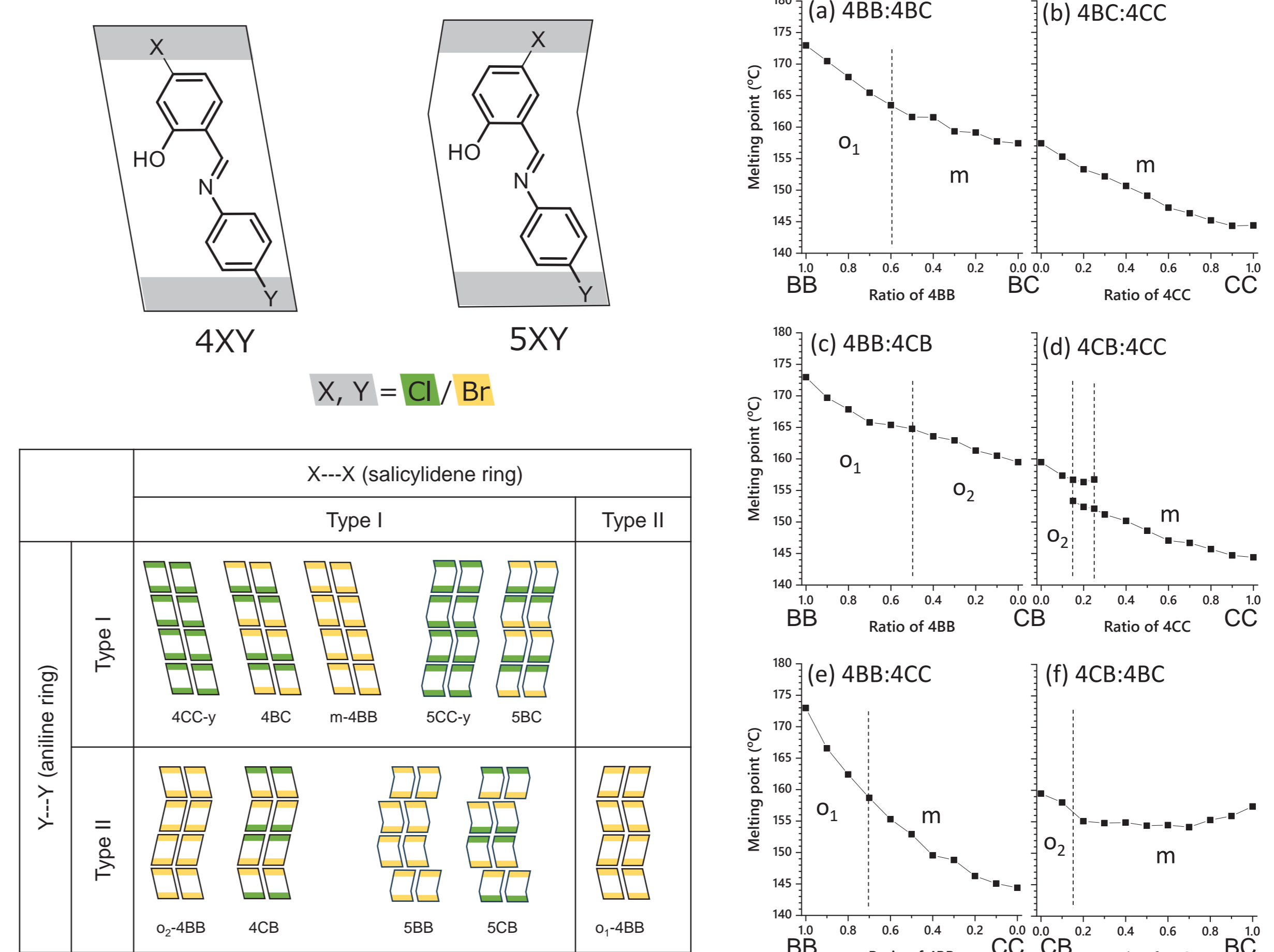
Polymorphism, a phenomenon that a single molecule crystallizes differently, has an impact on the materials' function, hence it is associated with pharmaceuticals, food science, dyes and pigments, and organic electronics. We are working on crystal engineering problems through experimental and theoretical approaches.



Materials undergoing crystal-to-liquid transition by photo irradiation: application to energy storage.

Koibuchi, et al., *J. Phys. Chem. Lett.* (2023)

Controlling molecular arrangement using a group of compounds that form continuous solid solutions.

Yoshikawa, et al., *Cryst. Eng. Comm.* (2023)