## HOUJOU LAB.

## [Crystal Engineering]



Department of Materials and Environmental Science

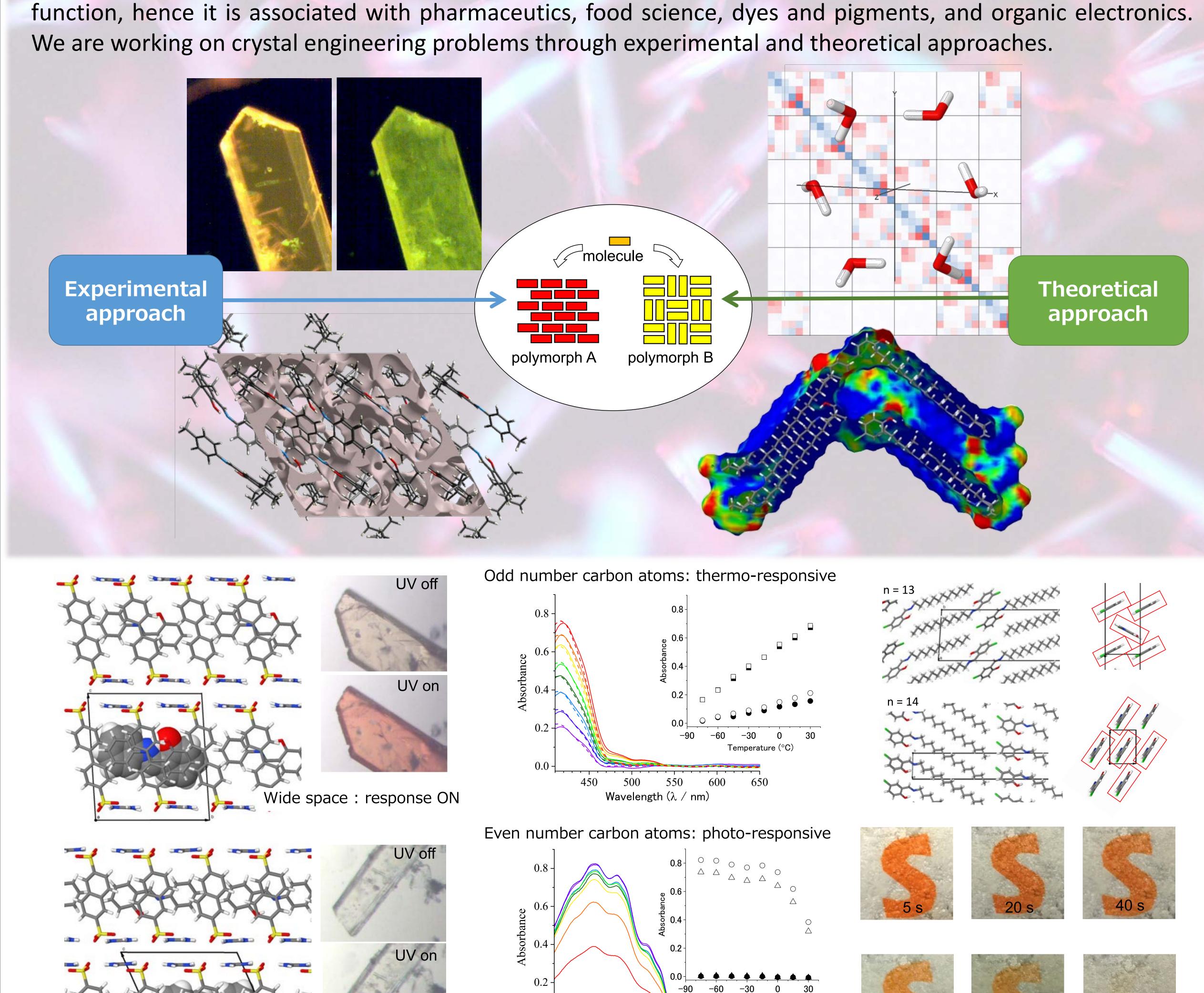
Molecular Integrated System Engineering

Department of Chemistry and Biotechnology

http://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'



Encapsulation of molecules into crystal space modifies their photo-response. (RSC Adv. 2021) A slight modification of molecular structure (i.e. homolog approach) had an impact on crystal packing, which realized hi-spec photochromic materials. (Cryst. Growth Des. 2021)

2 min

4 min



Narrow space : response OFF

550

Wavelength ( $\lambda$  / nm)

500