

# HOUJOU LAB.

## [Metallopolymer]

Department of Material and Environmental Science

[http://www.iis.u-tokyo.ac.jp/~houjou/hjlab\\_wiki/](http://www.iis.u-tokyo.ac.jp/~houjou/hjlab_wiki/)

Department of  
Chemistry and  
Biotechnology

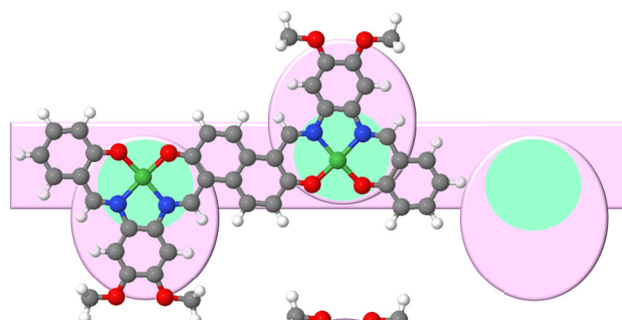
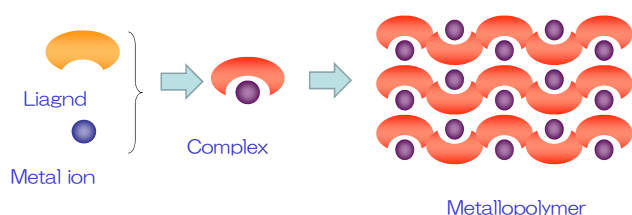
**Molecular Integrated System Engineering**

## A New Hybrid Material

A new hybrid of organic materials and metals

Organic macromolecules and metals are respectively utilized as structural materials, electronic materials, and so on. Recently, with a growing interest in organic-inorganic hybrid materials, our lab is involved in metallopolymer, a kind of atomic-level hybrid material. We are developing metallopolymers composed of functional salen complexes, and investigating their optical and electronic properties. Based on the studies on structure-function relation, we hope to launch a new material with unknown properties.

Metallopolymer = Organic-inorganic atomic-level hybrid



Salen-type  $\pi$ -conjugated metallopolymer

