



Supramolecular Chemistry

Job Boekhoven

Molecular self-assembly

Self-assembly brings together molecules to create architectures with properties beyond the molecule. Biology also uses self-assembly to create its structural components. However, biology is vastly better at creating molecular assemblies than us synthetic chemists. So, inspired by biology, we ask ourselves, can we synthesize molecular assemblies as complex, intricate, and beautiful as biology does?

In the BoekhovenLab, we design, synthesize, and study molecules to introduce new bio-inspired concepts to the field of supramolecular chemistry. The overarching goals are to create new supramolecular materials as sophisticated as biology's materials, to push the boundaries of supramolecular chemistry, and, one day, to synthesize life from the bottom up.

