

Tentative Outline
Special Issue for Current Organic Chemistry

Guest Editor(s): Ying-Wei Yang

TITLE: Pillararene Chemistry

Aims & Scope:

Organic supramolecular chemistry based on synthetic macrocycles plays a crucial role in chemistry, biology, materials science, and environmental science. As a rapid developing class of synthetic macrocycles with intrinsic characteristics and excellent properties discovered in 2008, *pillararenes* (or *pillarenes*) have become more and more attractive on account of their unique features

And great potentials in fabricating functional materials. The overall aim of this special themed issue is to bring science and applications together on this unique class of synthetic macrocycles and provide in---depth reviews and mini---reviews on the emergence and current progress in pillarene chemistry.

Subtopics:

- Artificial transmembrane channels
- Chemical synthesis and functionalization
- Drug delivery systems
- Mechanically-- - interlocked molecules (MIMs) and molecular machines
- Metal-- - organic frameworks
- Molecular recognition toward small organic molecules and biological relevant compounds
- Self-- - assembled architectures, i.e., vesicles, micelles, and tubes
- Sensors
- Supramolecular polymers
- Virus inhibition and protein assembly-- - disassembly

Approximate Schedule:

- Manuscript Submission Deadline: August 31, 2015
- Peer Review Due: September 15, 2015
- Revision Due: September 30, 2015
- Notification of Acceptance by the Guest Editor: October 10, 2015
- Final Manuscript Due: October 20, 2015