



Host-Guest Chemistry

Guest Editor:

Dr. David B. Smithrud
Department of Chemistry,
University of Cincinnati,
Cincinnati, OH 45221, USA

Deadline for manuscript
submissions:

closed (15 July 2015)

Message from the Guest Editor

Dear Colleagues,

In life, noncovalent complexation precludes the formation of covalent bonds and is a crucial step in signaling events. Chemists have spent many years constructing covalently linked hosts to replicate the noncovalent complexes observed in nature. The first generation of hosts formed strong noncovalent bonds with a guest through rigid pockets that matched a guest's size. Although able to form tight complexes with some selectivity, these hosts did not achieve the very large association constants observed in nature and lacked function. The scope of this Special Issue highlights the newest approaches in constructing hosts to maximize guest association and perform function through dynamic motion.

Dr. David B. Smithrud
Guest Editor





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Thomas J. Schmidt

Institute of Pharmaceutical
Biology and Phytochemistry,
University of Münster,
Corrensstrasse 48, D-48149
Münster, Germany

Message from the Editor-in-Chief

As the premier open access journal dedicated to experimental organic chemistry, and now in its 25th year of publication, the papers published in *Molecules* span from classical synthetic methodology to natural product isolation and characterization, as well as physicochemical studies and the applications of these molecules as pharmaceuticals, catalysts and novel materials. Pushing the boundaries of the discipline, we invite papers on multidisciplinary topics bridging biochemistry, biophysics and materials science, as well as timely reviews and topical issues on cutting edge fields in all these areas.

Author Benefits

Open Access: free for readers, with [article processing charges \(APC\)](#) paid by authors or their institutions.

High Visibility: indexed within [Scopus](#), [SCIE \(Web of Science\)](#), [PubMed](#), [MEDLINE](#), [PMC](#), [Reaxys](#), [CaPlus / SciFinder](#), [MarinLit](#), [AGRIS](#), and [other databases](#).

Journal Rank: JCR - Q2 (*Chemistry, Multidisciplinary*) / CiteScore - Q1 (*Chemistry (miscellaneous)*)

Contact Us

Molecules Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/molecules
molecules@mdpi.com
[X@Molecules_MDPI](https://twitter.com/Molecules_MDPI)