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Design and Synthesis of Macrocyclic Compounds

Guest Editor:

Dr. Vladimir Burilov

Department of Organic Chemistry, Kazan Federal University, 420008 Kazan, Russia

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Message from the Guest Editor

The chemistry of macrocyclic compounds has a long history. From simple annulenes to powerful antibiotics, these molecules are united by one thing—the presence of a molecular cavity. Due to this property, macrocyclic molecules are unique synthons in supramolecular of intermolecular chemistry capable guest-host interactions with other molecules. Recently, of particular interest are the functional supramolecular macrocyclic systems capable of self-organization, which makes it possible to obtain smart materials on their basis for sensing, targeted drug delivery, and catalysis in green media. Changes in the structure and the introduction of new motifs into the macrocyclic framework allow researchers to modify existing ones and discover new properties of these molecules.

This Special Issue aims to familiarize readers with the most modern trends and achievements in the field of macrocyclic chemistry with a special focus on both the synthetic chemistry of macrocyclic compounds as well as the usage of macrocyclic compounds in molecular recognition, nanotechnology, catalysis, and biotechnology.













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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

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