

Special Issue

Spatial Organization of Multi-Porphyrins for Pre-Defined Properties

Message from the Guest Editors

In Nature, many systems contain structurally organized porphyrinoids including various enzymes, dedicated to oxygen transport, oxidation processes etc., or the light harvesting antennae and the reaction center involved in the photosynthetic processes. This observation opens the route to new challenges of synthesizing molecular architectures of growing size and structural complexity, for instance as potential models of the light harvesting complexes, but also as photonic and electronic wires. The scope of this Special Issue, "Spatial Organization of Multi-Porphyrins for Pre-Defined Properties" is broad and includes covalently linked and self-assembled devices, as well as more sophisticated systems obtained when covalent linkage and supramolecular chemistry can work together. Furthermore, since chirality plays a pivotal role in the structural organization of vast majority of natural assemblies including photosynthesis owing to asymmetry of amino acids, the importance of chirality in some systems will also be covered in this issue.

Guest Editors

Dr. Nathalie Solladié

LCC (Laboratoire de Chimie de Coordination) - CNRS, Université de Toulouse, CNRS, 205 Route de Narbonne, 31077 Toulouse CEDEX 4, France

Dr. Regis Rein

LCC (Laboratoire de Chimie de Coordination) - CNRS, Université de Toulouse, CNRS, 205 Route de Narbonne, 31077 Toulouse CEDEX 4, France

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4052 Basel, Switzerland
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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

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