



From Amphiphilic to Polyphilic Polymers

Guest Editor:

Prof. Dr. Jörg Kressler

Department of Chemistry, Martin
Luther University Halle-
Wittenberg, D-06120 Halle
(Saale), Germany

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Message from the Guest Editor

Dear Colleagues,

This concept includes specific interactions between polymer and water (hydrophilic), polymer and non-polar surrounding (lipophilic), polymer and solvent in general (solvophilic), polymer and chemical element (fluorophilic, borophilic, siliphilic etc.,) and philicities which arise from the specific shape of the molecule. Due to the frequently specific interactions which are encoded in the inherent structure of the polymer or in the specific environment, a plethora of structure formation processes is potentially known from the building principles of nature. This might lead to the formation of thermodynamically stable supramolecular structures or to transient, kinetically determined structures which are highly dynamic. These new morphologies and their dynamics can then be tailored e.g., for interactions with model membranes or lipid monolayers, in the field of nanomedicine, and for pharmaceutical or biomedical applications.

Guest Editor





polymers



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Editor-in-Chief

Prof. Dr. Alexander Böker

Lehrstuhl für Polymermaterialien
und Polymertechnologie,
University of Potsdam, 14476
Potsdam-Golm, Germany

Message from the Editor-in-Chief

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MDPI, St. Alban-Anlage 66
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