

Special Issue

From Amphiphilic to Polyphilic Polymers

Message from the Guest Editor

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

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Message from the Editor-in-Chief

Since its foundation in 2009, *Polymers* has developed into an internationally renowned, extremely successful open access journal. The editorial team and the editorial board dedicatedly combine open-access publishing and high-quality rigorous peer reviewing. The performance of the journal has proven this strategy to be well-suited and highly successful. This is reflected in the increasing impact factor of *Polymers*, the most recent one being 4.7.

I would like to invite you to contribute to the success of the journal by sending us your high quality research papers. We would be pleased to welcome you as one of our authors.

Editor-in-Chief

Prof. Dr. Alexander Böker

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