



From Amphiphilic to Polyphilic Polymers

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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





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Message from the Editor-in-Chief

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