Special Issue

Synthesis, Properties and Applications of Amphiphilic Polymers

Message from the Guest Editor

Amphiphilic polymers are ubiquitous in natural systems and synthetic products and materials. Due to their ability to adsorb at interfaces and to self-assemble into aggregates of various shapes and sizes, they can act as emulsion/colloids stabilizers, polymeric surfactants, hydrogels, and encapsulating agents. For these reasons, they find their application in many diverse areas, such as coatings, biotechnology, nanotechnology, medicine, pharmacology, cosmetics, agriculture, water purification, food, electronics, and enhanced oil recovery. Of great interest is the possibility to introduce stimuli-responsive behaviour (to pH, temperature, electrolytes concentration, UV irradiation, etc.), which is at the basis of the design of smart materials and medical devices for drug/gene delivery and tissue engineering. This Special Issue intends to collect recent advances in the synthesis, characterization, study of properties, and applications of amphiphilic polymers, including amphiphilic block copolymers, polysoaps, hydrophobic polyelectrolytes, and biopolymeric surfactants.

Guest Editor

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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 4.9.

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

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