



Synthesis, Properties and Applications of Amphiphilic Polymers

Guest Editor:

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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.





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