



RAFT Living Radical Polymerization and Self-Assembly

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Message from the Guest Editor

Reversible addition-fragmentation chain transfer (RAFT) polymerization is one kind of well-established controlled/living radical polymerization (CLRP) methods (e.g., atom transfer radical polymerization, nitroxide-mediated radical polymerization, and RAFT polymerization) that exhibits numerous appealing characteristics for controlling the synthesis of a wide variety of macromolecular architectures, as well as maintaining molecular weight control, narrow molecular weight distributions, and functionality. The absence of catalysts and the ease of scaling up make RAFT one of the most versatile CLRP techniques. The use of CLRP methods has recently increased extensively in the preparation of block polymers, because using this method yields advantages such as an experimental setup, a wide range of functional monomers, and complex macromolecular architectures with well-defined end groups of narrow polydispersity in the CLRP. Amphiphilic block copolymers can form various self-assembled aggregates such as spherical micelles, vesicles, cylinders, gyroids, and lamellae through the selective interaction of the solvent with hydrophobic and hydrophilic blocks.





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Message from the Editor-in-Chief

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