

Special Issue

Engineering Reversible Deactivation Radical Polymerization in the Second Century of Macromolecular Science

Message from the Guest Editors

Reversible deactivation radical polymerization (RDRP) has made a tremendous impact in polymer science, empowering us to finely control the growth of polymer chains, thus realizing well-defined, valuable materials. One hundred years after Staudinger's "macromolecular hypothesis", polymer scientists confront important challenges, which include shifting from fossil-based raw materials, designing degradable plastics, and making sequence-defined polymers and safe polymer-based energy devices. RDRP is greatly contributing to solving these challenges and leading innovation in polymer and material science. The underlying requirement is the development of simple, sustainable, and scalable processes to address environmental and societal needs. This Special Issue aims to collect original research and reviews presenting recent advances in RDRP processes with a focus on sustainability, simplification, and predictive methods. Topics include, but are not limited to:

- Sustainable catalysts/chain transfer systems;
- Temporal and spatial control;
- Oxygen tolerance;
- Flow chemistry;
- Dispersed media;
- Polymerization modeling and simulation.

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