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

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Deadline for manuscript submissions:
closed (30 January 2022)

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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Message from the Editor-in-Chief

Processes (ISSN 2227-9717) provides an advanced forum for process/system-related research in chemistry, biology, material, energy, environment, food, pharmaceutical, manufacturing and allied engineering fields. The journal publishes regular research papers, communications, letters, short notes and reviews. Our aim is to encourage researchers to publish their experimental, theoretical and computational results in as much detail as necessary. There is no restriction on paper length or number of figures and tables.

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