

100 YEARS OF POLYMERS SCIENCE

GUEST EDITOR

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DESCRIPTION

Dear Colleagues,

In the last decade, there have been increasing research activities in the use of different polymerization methods, especially reversible-deactivation radical polymerization (RDRP) to prepare well-defined polymers. RDRP is one of the most rapidly developing areas of polymer science that allows easily control over molecular weight, preparation of polymers with narrow molecular weight distributions, incorporation of precisely placed functionalities, and fabrication of various architectures. Significant efforts have been dedicated to the green chemistry class of this approach including low ppm RDRP techniques, which are based on improving regeneration processes of copper in the lower oxidation state using appropriate reducing agent or external stimuli.

This Special Issue is intended to cover the latest advances and developments in the synthesis of precisely defined polymers with different architecture with the emphasize on different polymerization methods that offers a more environmentally benign and industrially relevant alternative for synthesizing polymers. Topics including, but not limiting to, optimization of reaction setup, kinetics investigation of synthesis processes, characterization of macroinitiators and received macromolecules including naturally-derived polymers.

It is my pleasure to invite you to submit a manuscript for this Special Issue. Original, high-quality research articles and reviews are all welcome.

Submissions deadline: 30.06.2022

KEYWORDS

- Polymerization
- Radical polymerization
- Reversible-deactivation radical polymerization
- Controlled polymerization
- Well-defined polymers
- Polymers with different architecture
- Functional polymers
- Bio-hybrid polymers
- Naturally-derived macromolecules
- Smart materials

HOW TO SUBMIT

The authors are kindly invited to register at our paper processing [system](#) and submit their contribution (both original papers or reviews are welcome) using a special track established for this topical issue: Section/Category – **‘Topical Issue on Polymers – 100 Years of Polymers Science’**.

All manuscripts will undergo the standard peer-review process (single-blind, at least two independent reviewers) and will be treated in the same way as other regular articles (indexing, abstracting, immediate publication, etc.). Instructions for authors are available [here](#).

In case of any questions please contact Open Chemistry Managing Editor: Karolina Kurtyka (openchemistry@degruyter.com).