



Advances in Polymer Thermal Degradation: From Modelling through Controlled Decomposition to Circular Economy Development

Guest Editors:

Dr. Artur Bukowczan

Department of Chemistry and
Technology of Polymers, Cracow
University of Technology,
Warszawska 24, 31-155 Kraków,
Poland

Dr. Tomasz M. Majka

Department of Chemistry and
Technology of Polymers, Cracow
University of Technology,
Warszawska 24, 31-155 Kraków,
Poland

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Message from the Guest Editors

Dear Colleagues,

Thermal stability and degradation routes often decide whether new materials exhibit applicative potential and fulfil market demands. Currently, the development of novel materials must meet additional requirements such as enhancing the life cycle of polymers and promoting a circular economy. The investigation of thermal degradation processes, including theoretical modelling prediction and the characterization of degradation products, enables the full life cycle of new materials to be addressed, with a focus on maximizing their use after the end of their performance.

The purpose of this Special Issue is to provide a comprehensive understanding of the degradation processes of polymeric materials in order to design and close reuse and sustainability loops. Contributions to this Special Issue may cover all recent advances related to the thermal stability of polymers, the modelling of the degradation process and the characterization of degradation products, emphasizing possible applications in material recycling.

Dr. Artur Bukowczan

Dr. Tomasz M. Majka

Guest Editors





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Editor-in-Chief

Prof. Dr. Maryam Tabrizian

1. Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, McGill University, Montreal, QC H3A 2B6, Canada

2. Faculty of Dentistry and Oral Health Sciences, McGill University, 3640 Rue University, Montreal, QC H3A 0C7, Canada

Message from the Editor-in-Chief

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Contact Us

Materials Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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