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Polymer/Biopolymer Stabilization and Degradation

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Message from the Collection Editors

Dear Colleagues,

Due to their structures, the polymeric materials used in various application areas are characterized by limited stability during exposure to an environment. Therefore, their specific properties decline during long-term exploitation. Conditions such as processing, storage, and service conditions also add structural imperfections that contribute to the lowering of the material's lifetime. Accurate results from weathering tests must be obtained by the manufacturers, since the lifetime and extent of an application depend on molecular modifications. Polymer degradation occurs through bond cleavage, radical diffusion, oxidation, and crosslinking. This Topic Collection is concerned with the thermal, photochemical, and microbiological behavior of polymer-based materials. We hope to share new concepts related to the behavior of polymeric materials under environmental factors, both under laboratory and outdoor exposure conditions. In this way, we seek to bring new insights into the different degradation mechanisms of polymers. Both original research papers and review articles are welcome.

Dr. Dan Rosu
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Collection Editors

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Topical Collection

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Message from the Editor-in-Chief

Since its foundation in 2009, *Polymers* has developed into an internationally renowned, extremely successful open access journal. The editorial team and the editorial board dedicatedly combine open-access publishing and high-quality rigorous peer reviewing. The performance of the journal has proven this strategy to be well-suited and highly successful. This is reflected in the increasing impact factor of *Polymers*, the most recent one being 5.0.

I would like to invite you to contribute to the success of the journal by sending us your high quality research papers. We would be pleased to welcome you as one of our authors.

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