catalysts

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Advanced Catalysts for Polyolefin Production

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Deadline for manuscript submissions:
closed (31 March 2023)

Message from the Guest Editors

Polyolefins are undoubtedly related to modern lifestyles and the impact of any technological improvement in this area will affect people's daily routines. Although polyolefin development has been steady, with high user satisfaction, nowadays, new drives are working on the requirements of environmentally friendly products in terms of water and energy demands, gas emissions, and after-use disposal. For polyolefins produced by coordination catalysis, the catalyst plays an important role in controlling the polymer microstructure and therefore the end-user properties and applications. In this sense, innovations in polyolefin catalysis are preponderant to address the current environmental demands of society.

We look forward to accepting manuscripts dealing with:

- The development of new supports and immobilization strategies;
- Catalyst design is driven by process performance and polymer property requirements;
- Alternative methods for reaction kinetic studies and modeling;
- Methods for catalyst performance evaluation in the laboratory;
- Methods for catalyst characterization;
- Environmentally friendly catalyst synthesis.