# **Special Issue**

# Electronic and Steric Effects in Polymerization Mechanisms

# Message from the Guest Editors

Improving the performance of catalysts via structural and electronic modifications is common in catalysis. Steric and electronic factors play a key role in controlling the stability and activity of catalysts and in determining the molecular weight and structure of polymers. Detailed knowledge about the reaction mechanism appropriately guides the structural modifications of the catalyst to obtain new polymeric materials with a tailored composition and structure. To this end, the synergy between theoretical and experimental modeling is fundamental. This Special Issue collects papers on polymeric materials obtained using various reaction mechanisms, starting with classic olefins as well as polar monomers, monomers from renewable sources. for which, the rationalization of catalytic behavior and/or the catalyst design is pivotal.

## **Guest Editors**

Dr. Lucia Caporaso

Dr. Fabia Grisi

Dr. Ida Ritacco

# Deadline for manuscript submissions

closed (20 June 2025)



# International Journal of Molecular Sciences

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# Message from the Editor-in-Chief

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### **Editor-in-Chief**

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