

Special Issue on
**Green and Sustainable Methods, Catalysis, and Materials
for Polymer Processing, Synthesis, and Production**

CALL FOR PAPERS

Developing a polymer process, synthesis, or production that is green, sustainable, more energy-efficient, and using renewable resources and materials is an important subject in the modern industrial world. Nowadays, research in the field of green and sustainable polymer is growing in academia and industry. It deals with all aspects of polymers and polymerization, from raw materials, synthetic pathways, reaction media and process to the final polymer as linked to its natural nontoxicity or degradability. Reducing dependence on nonrenewable petroleum-based materials, using and designing processes and materials that are more energy-efficient with lower environmental impact, establishing effective recycling of wastes, reducing greenhouse gas emissions, and optimizing manufacturing processes are significant motivating forces from sustainability and economic standpoints. There are also considerable opportunities to develop innovative polymeric materials by using renewable and natural sources. This special issue focuses on the recent research and developments in new materials, polymerization and catalytic methods, and technologies that concentrate on green and sustainable activities in polymer science and technology. We invite distinguished researchers from academia, industry, and government to contribute their original research articles as well as review articles that will stimulate the continuing effort to give us a green environment.

Potential topics include but are not limited to the following:

- ▶ Green resources, catalysis, and materials
- ▶ Recycling of polymer products and catalysts
- ▶ Improved syntheses or production of polymer
- ▶ Polymer production using renewable resources and renewable energy
- ▶ Kinetics and mechanism of polymerization
- ▶ Characterization of polymer
- ▶ Modeling, simulation, and control
- ▶ Polymer-based sensors

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Ahmad Shamiri, UCSI University, Kuala Lumpur, Malaysia
shamiri@ucsiuniversity.edu.my

Guest Editors

Akshat Tanksale, Monash University, Clayton, Australia
akshat.tanksale@monash.edu

Mohammad Saleh Shafeeyan, University of Malaya, Kuala Lumpur, Malaysia
ms.shafeeyan@gmail.com

Shaojun Li, Trent University, Peterborough, Canada
shaojunli@trentu.ca

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