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Biomass Transformation and Sustainability

Guest Editors:

Prof. Dr. Michela Signoretto

Department of Molecular Sciences and Nano Systems, Università Ca' Foscari Venezia, and INSTM Consortium, Via Torino 155, 30172 Mestre Venezia, Italy

Dr. Somayeh Taghavi

1. Applied Chemistry, Faculty of Chemistry, University of Mazandaran, 47416-95447 Babolsar, Iran 2. Department of Molecular Sciences and Nano Systems, Ca' Foscari University of Venice, Via Torino 155, 30172 Mestre Venezia,

Deadline for manuscript submissions:

31 December 2024

Italy

Message from the Guest Editors

The global energy and chemical vectors are undergoing rapid alteration to meet the incremental competition, social challenges, and the growing efforts for a safe, green, and sustainable future. The transition to new technologies, based on sustainable and renewable energy and chemical resources, represents a viable backbone of the future economic cycle. Compared to fossil-based resources, biomass has been a significant resource of energy, fuel and chemicals due to possessing a much shorter forming duration and reducing greenhouse gas emissions. Therefore, this Special Issue plans to give an overview of and provide selected contributions on advances in the sustainable approaches for biomass valorization and obtained product applications. Articles should cover, but are not limited to, the following topics related to biomass transformation:

- Biomass pretreatments
- Thermochemical conversion of biomass
- Biochemical conversion of biomass
- Chemical conversion of biomass
- Bio-based model components transformations
- Biochar and hydrochar modifications and applications
- Biomass derived carbon dots









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Editor-in-Chief

Prof. Dr. Marc A. Rosen

Faculty of Engineering and Applied Science, University of Ontario Institute of Technology, Oshawa, ON L1G 0C5, Canada

Message from the Editor-in-Chief

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