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Sustainable Biofuel and Biochemical Production from Lignocellulosic Biomass

Guest Editors:

Dr. Nenad Marđetko

Faculty of Food Technology and Biotechnology, University of Zagreb, Zagreb, Croatia

Dr. Antonija Trontel

Faculty of Food Technology and Biotechnology, University of Zagreb, Zagreb, Croatia

Dr. Mario Novak

Faculty of Food Technology and Biotechnology, University of Zagreb, Zagreb, Croatia

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Message from the Guest Editors

terms lignocellulosic materials and lignocellulosic biomass refer to plant biomass that can originate from various sources. Lignocellulose makes up about 60% of the biomass produced by plants on Earth, and there are numerous possibilities for its biotechnological Lignocellulose consists applications. of cellulose. hemicellulose, and lignin, which can be broken down into simpler components through different pretreatment methods. This conversion turns the biomass into a valuable feedstock for various biotechnological processes. The resulting biofuels (e.g., bioethanol) and biochemicals offer a more sustainable and environmentally friendly option, reducing greenhouse gas emissions dependence on non-renewable resources. It is essential to develop new efficient processes in which these materials can be used as renewable raw materials while simultaneously creating opportunities for the production of high-value products. Thus, lignocellulose can become the foundation of production processes that are justified from both ecological and economic standpoints.











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Editor-in-Chief

Prof. Dr. Patricia Luis AlconeroMaterials & Process Engineering, UCLouvain, Place Sainte Barbe 2,

1348 Louvain-la-Neuve, Belgium

Message from the Editor-in-Chief

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