Special Issue

Microorganisms in Biomass Conversion and Biofuel Production

Message from the Guest Editors

Biomass conversion and biofuel production could provide feedstock and viable renewable energy resources, particularly in the context of deteriorating supplies of fossil fuels, accelerated global warming attributed to anthropogenic emissions, and unstable geopolitical situations. Biomass conversion and bioenergy production have a broad scope that covers a wide spectrum of topics ranging from the conversion of biomass to ethanol via fermentation to biogas production via anaerobic digestion. These technologies are deemed sustainable and cost-effective. Microorganisms, individually or synergistically, have played an essential and pivotal role, in that numerous intermediates and end products are produced through processes at cellular or enzymatic levels. This Special Issue aims to provide a platform for scientists working in the field of biomass conversion and biofuel production to exchange their recent research, with a focus on the production of fuels and chemicals including but not limited to biogas (biomethane), hydrogen, ethanol, butanol, acetone, and a wide range of organic acids through microbial processes. All work related to this topic is welcomed.

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Deadline for manuscript submissions

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About the Journal

Message from the Editor-in-Chief

"Microorganism" merges the idea of the very small with the idea of the evolving reproducing organism is a unifying principle for the discipline of microbiology. Our journal recognizes the broadly diverse yet connected nature of microorganisms and provides an advanced publishing forum for original articles from scientists involved in high-quality basic and applied research on any prokaryotic or eukaryotic microorganism, and for research on the ecology, genomics and evolution of microbial communities as well as that exploring cultured microorganisms in the laboratory.

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