

## Special Issue

# Recent Advances in Bioreactor System: Design, Operation and Application

### Message from the Guest Editor

Bioreactors are a vital tool in bioprocessing, providing a controlled environment for the growth of living cells of microorganisms, plants and fungi, thus enabling efficient and precise bioprocessing. The utilization of bioreactors leads to the establishment of effective control parameters for cell growth and valuable secondary metabolite biosynthesis. Utilizing culture in a bioreactor may also be a crucial step in the production of biomass and valuable natural compounds, from a laboratory to a semi-industrial and even industrial-scale process. Therefore, this Special Issue aims to present new data and experimental results both in the field of new bioreactor systems/prototypes, as well as known constructions used for novel, scientifically unexplored species of microorganisms, fungi and plants; this is particularly with regard to the production of high-efficiency biomass and the biosynthesis of valuable natural compounds. This Special Issue will publish high-quality, original scientific papers that provide new data on bioreactor cultures with a focus on novel, more efficient scalable bioprocessing systems.

### Guest Editor

Prof. Dr. Łukasz Kuźma

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### Deadline for manuscript submissions

closed (20 July 2024)



## Applied Sciences

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### Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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### Editor-in-Chief

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