

Special Issue

Microbial-Driven Materials and Environmental Processes: Mechanisms, Properties and Regulation

Message from the Guest Editors

Microorganisms are considered as the most abundant and widespread living creatures and play a fundamental role in the biogeochemical cycles of various ecosystems. Although numerous studies have already been conducted on microorganisms, these microscopic organisms are still overlooked or underestimated, making them a rich niche for discovery. This Special Issue aims not only to discover new applications for microorganisms in various environmental fields but to also explore different metabolic pathways, properties and microbial regulations to ensure a secure shift towards the sustainable materials. Therefore, we are pleased to invite you to publish original scientific articles and reviews regarding, among others:

- Microbial-driven mechanisms in environmental processes;
- Role of microorganisms in different biodegradation pathways;
- Microbial process development, research, regulation and optimization of degradation process;
- Microbial-based biopolymers production;
- Sustainability, the assessment of the environmental impact of microbial-based biopolymers.

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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.

Editor-in-Chief

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