



Sustainable Treatment of Organic Pollutants and Microbial Degradation for Environmental Sustainability

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Message from the Guest Editors

Dear Colleagues,

With rapid industrialization and urbanization, organic pollutants continue to accumulate, leading to increasingly prominent environmental issues. Microbial degradation technology is receiving increasing attention due to its efficiency and environmental friendliness. Therefore, research on sustainable treatment methods for organic pollutants and the role of microorganisms in this process is crucial for achieving environmental sustainability. Possible topics include, but are not limited to, the following:

- Pollution characteristics and evolution trends of organic pollutants in typical environments;
- Environmental behaviors and toxic effects of organic pollutants in different environmental media;
- Efficient degradation bacteria screening from various habitat sources of pollutants;
- Mechanisms of microbial degradation of organic pollutants;
- Techniques to enhance microbial degradation capabilities;
- Construction and application of composite degradation bacterial communities;
- Microbial degradation technologies in wastewater treatment;
- Application of biofilm technology in organic pollutant treatment.





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