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# Advanced Effluents Bioprocessing for Nutrients and Energy Recovery

Guest Editors:

## Prof. Dr. Petros Samaras

Laboratory of Technologies of Environmental Protection and Utilization of Food By-Products, Department of Food Science and Technology, International Hellenic University, Thessaloniki, Greece

#### Dr. Dimitra Banti

Laboratory of Technologies of Environmental Protection and Utilization of Food By-Products, Department of Food Science and Technology, International Hellenic University, GR-57400 Thessaloniki, Greece

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#### **Message from the Guest Editors**

Dear Colleagues,

This Special Issue aims to gather cutting-edge research on innovative technologies, strategies, and approaches for wastewater management, going beyond efficient resource recovery.

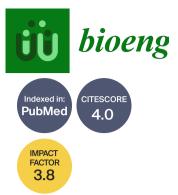
The topics of interest include, but are not limited to:

- 1. Advanced biochemical processes for nutrient removal and recovery from effluents;
- 2. Biotechnological approaches for energy recovery from wastewater or treatment products such as waste sludge;
- 3. Resource-oriented sanitation systems and circular economy concepts;
- 4. The utilization of by-products and residuals from effluent treatment for energy or nutrient recovery;
- Modeling, metabolic pathways, optimization, and control strategies for efficient and sustainable effluent management;
- 6. Innovative approaches to minimize and manage effluent generation;
- Integrated bioprocess and biosystems for the simultaneous treatment of water, energy, and nutrients;
- 8. Life cycle assessment and environmental impact evaluation of effluent management approaches;
- 9. Case studies and success stories on the implementation of advanced effluent bioprocessing

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practices.

Guest Editors



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#### Prof. Dr. Anthony Guiseppi-Elie

Department of Biomedical Engineering, Texas A&M University, College Station, TX 77843, USA

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*Bioengineering* Editorial Office MDPI, Grosspeteranlage 5 4052 Basel, Switzerland Tel: +41 61 683 77 34 www.mdpi.com mdpi.com/journal/bioengineering bioengineering@mdpi.com X@Bioeng\_MDPI