Special Issue

Role of Advanced Sustainable Wastewater Treatment Technology and Resource Recovery Potential in the Circular Economy

Message from the Guest Editor

The water industry manages a variety of essential and valuable resources, found primarily in wastewater, and offers potential for revenue generation and diversification. Water, energy, biofuels, fertilizers, and biopolymers are just some of the many resources that can be extracted from wastewater, some of which are becoming increasingly scarce due to urbanization and the increase in the world's population. The development of technologies that shift the focus of wastewater treatment plants from pollutant removal to resource recovery plants has received a lot of attention from scientists in recent years due to these benefits. To improve the quality of wastewater and at the same time reduce costs, several environmentally friendly processes for the recovery of valuable substances from the water purification system have proved to be valid. They also serve as a useful tool to support the conversion of wastewater treatment plants into water reclamation plants that maximize the value of products recovered from wastewater. The latest innovations, opportunities, market potentials, and barriers in resource recovery from wastewater treatment plants are critically discussed in this paper.

Guest Editor

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