Special Issue

New Technologies in Water Treatment and Water Reuse

Message from the Guest Editor

Water treatment is becoming of great importance at global scales due to climate-driven and anthropogenic impacts on water resources. As alternatives, water reuses such as treated wastewater, desalination, and rainwater harvesting have been applied for securing water resources. Recent advances of data analysis techniques (e.g., neural networks, machine learning) have enabled us to better understand and predict the efficiencies of treatment processes and to integrate monitoring data with process control and optimization. The aim of this Special Issue is to provide scientific knowledge on treatment techniques, and discoveries and applications of new materials for water treatment and reuse purposes. We welcome both research papers and technical notes, evaluating the treatability of recently developed technologies/processes covering the scope. Studies may emphasize on: (i) state-of-the-art technologies and methodologies for secure water treatment; (ii) advanced materials to tackle the emering pollutants such as antibotics, antibiotic resistance genes, microplastics, etc.; and (iii) modeling approaches or machine learning techniques for prediction and control.

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