



*Special Issue Reprint*

## **Municipal Wastewater Treatment**

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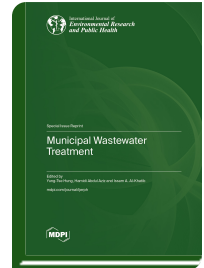
Yung-Tse Hung

Hamidi Abdul Aziz

Issam A. Al-Khatib

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Water has become a scarce resource globally. The main objective of municipal wastewater treatment is to remove pollutants before effluent is discharged back to the environment. Treated effluent can be utilized for various types of water reuse and resource recovery. This reprint, including 21 papers, addresses diverse aspects of wastewater treatment, covering municipal and industrial wastewater. One study explores submerged fibers in an attached growth sequential batch reactor designed for poultry slaughterhouse wastewater treatment. Another focuses on the performance and microbial community analysis of pilot-scale hydrolysis–aerobic treatment for municipal wastewater. A separate study develops a multi-objective decision model to select appropriate municipal sewage treatment technologies under uncertainty. Another study investigates phosphorus removal mechanisms using recycled crushed concrete. Further studies examine the impact of C/N ratio and potassium chlorate on nitrogen removal in two-stage-constructed rapid infiltration systems. Additionally, one particular study focuses on removing nutrients from anaerobically digested swine wastewater using a multi-soil layering treatment bioreactor. There is also a full-scale experimental study on groundwater softening using a circulating pellet fluidized reactor. Another analysis focuses on bioaugmentation effects on biogas yields and kinetics in the anaerobic digestion of sewage sludge. These studies collectively highlight innovative methods for improving the efficiency of municipal wastewater treatment and reducing water pollution.



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