



## Advances in Photocatalytic Wastewater Purification, 2nd Edition

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### Message from the Guest Editors

This is the second edition of the Special Issue "Advances in Photocatalytic Wastewater Purification". In some countries, unavailable drinking water is a serious problem because traditional drinking water treatment systems cannot remove aquatic pathogens, toxic metal ions, and industrial waste. In addition, the treatment of wastewater containing dye contaminants is a major concern around the world. A new class of treatment processes referred to as advanced oxidation processes has been developed, particularly heterogeneous photocatalysts that utilize photon energy and convert it into chemical energy, which has been recognized as a strong candidate in this research area. The development of photocatalytic materials with high activity is required for advances in photocatalytic wastewater purification. Related topics focus on but is not limited to the following:

- Highly efficient photocatalysts for water/wastewater purification;
- Visible-light-driven photocatalytic process;
- New photocatalytic mechanisms and kinetics;
- Identification of intermediate products for photocatalytic purification process;
- Pilot and full-scale applications.

