

## Special Issue

# Pre-treatment of Wastewater with Carbon Materials to Achieve Efficient Treatment of Full-Strength Wastewater by Microalgae

### Message from the Guest Editors

With growing economic development and the increase in population, the pollution and shortage of water resources has become a global problem. The annual production of wastewater from the municipal, agricultural, and industrial fields is huge, containing excessive nutrients, and improper treatment may lead to environmental problems such as the eutrophication of water bodies. Microalgae-based wastewater treatment technology can not only purify wastewater and solve environmental pollution problems but also use the nutrient elements in wastewater to produce algal biomass, which has attracted more and more attention. Biochar has been widely studied as an adsorbent for the removal of contaminants from wastewater due to its unique characteristics, such as having a large surface area, well-distributed pores and high abundance of surface functional groups. This Special Issue of *Sustainability* aims to provide a feasible and sustainable approach to remediate wastewater, produce value-added microalgal biomass, and recycle used carbon materials, further promoting the industrialization of algae-based wastewater remediation.

### Guest Editors

Dr. Qi Zhang

Prof. Dr. Yunpu Wang

Dr. Xian Cui

### Deadline for manuscript submissions

closed (31 May 2023)



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### Editor-in-Chief

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