

## Special Issue

# Biomass Conversion and Processing Technologies of Carbon-Based Materials for Environmental and Energy Application Development

### Message from the Guest Editors

In recent years, the conversion of renewable lignocellulosic biomass fibres and natural biopolymers into chemicals, liquid fuels and feed supplements has gained considerable attention. This is mainly due to the volatility in petroleum prices and the high energy intensity in the production of chemicals, synthetic polymers, fibres, and textiles. Their use in novel materials and various applications favours the future use of lignocellulosic biomass components with substantial environmental and economic benefits.

In addition, biomass-carbon-based materials are considered to be green and viable alternative photocatalysts due to their environmentally friendly and naturally abundant nature. Biomass-derived carbons have potential use in photocatalytic materials for environmental remediation, activated carbon, fuel cells, electrocatalytic water-splitting devices, supercapacitors, lithium-ion batteries, etc. for energy-storage devices.

This Special Issue focuses on biomass conversion, especially into carbon-based materials for environmental and energy applications, and the associated challenges and opportunities.

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### Guest Editors

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### Deadline for manuscript submissions

closed (19 April 2023)



## Biomass

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## About the Journal

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