



## Pyrolysis as a Tool to Produce Fuels and Chemicals

Guest Editors:

**Prof. Dr. Maria Do Carmo Rangel**

Inorganic Chemistry Department,  
Federal University of Rio Grande  
do Sul, Porto Alegre 90650-001,  
Brazil

**Prof. Dr. Carlos Augusto De Moraes Pires**

Chemical Engineering  
Department, Federal University of  
Bahia, Salvador 40210-630, Brazil

Deadline for manuscript  
submissions:  
**closed (20 October 2023)**

### Message from the Guest Editors

In the current, fast development of technology to generate fuel and chemicals from no fossil sources, biomass emerges as a cheap, universal, and ecological solution to face energy and environmental demands. Among these technologies, the pyrolysis of biomass is expected to fill the requirements of efficient generation of energy and the manufacture of chemicals to replace those from oil and natural gas. The pyrolysis of forestry and agricultural residues, algae, energy crops, municipal wastes, food wastes, animal wastes, and others represents not only a route for producing energy and chemicals but also a solution for waste accumulation in the environment, contributing to the quality of life.

This Special Issue aims to collect the most recent advances both in the processes and in catalyst development for converting biomass to biofuels and chemicals via pyrolysis. Papers concerning the operational issues of pyrolysis, such as equipment, process variables, and catalyst development and bio-oil upgrading are welcome, but other issues of pyrolysis are not excluded.

