Special Issue

Fuel Combustion and Pyrolysis Process Simulation

Message from the Guest Editors

Fuel combustion is one of the cornerstones of modern civilization. Pyrolysis is an alternative to producing high-quality solid, liquid, or gaseous fuel from organic material, which is available from various renewable sources. The development in process simulation has provided valuable tools for describing and predicting fuel combustion and pyrolysis processes. Modern combustion and pyrolysis process simulation tools include software packages like ANSYS Fluent, Aspen HYSYS®, AVL FIRE™ M, CHEMKIN, Cantera, and MATLAB.

This Special Issue on “Fuel Combustion and Pyrolysis Process Simulation” seeks high-quality works focusing on the latest novel advances regarding the modeling, simulation, optimization, control, and application of all kinds of combustion and pyrolysis processes. The topics within the scope of the Special Issue mainly include, but are not limited to, the following: Modeling of combustion processes in furnaces, boilers, and engines; Design and optimization of combustion processes; Advanced combustion technologies; Modeling and simulation of pyrolysis processes; Pyrolysis process optimization; Advanced technologies for pyrolysis.

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Editor-in-Chief

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