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Editorials for Visual Special Issue on Pyrolysis for Green Energy and Sustainable Products

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Editorials for Visual Special Issue on Pyrolysis for Green Energy and Sustainable Products

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Pyrolysis refers to the thermochemical conversion process in which materials are treated with heat in the absence of oxygen. Pyrolysis could convert various fossil, biomass, and wastes into energy source products and feedstock for chemical industry. Compared with the other chemical processes, pyrolysis provides many advantages, i.e. feedstock flexibility, effective energy utilization, product-orientation, environmental sustainability, etc. These advantages make pyrolysis a major player in the next industrial revolution of Green Energy and Products Engineering.

Recent emphasis on pyrolysis has highlighted the need for green energy, products and process technologies: from products, to catalysts, to processes, to simulation. For providing a platform and collections for the related work, visual special issue (VSI) of "Pyrolysis for Green Energy and Sustainable Products" was proposed. During the submission and peer reviewing stages, 30 papers including 2 review papers were accepted. The topics covers pyrolysis and catalytic pyrolysis for green energy and products from traditional and non-traditional fossil stocks (such as coal[1-3], petroleum[4], shale[5], and oil sands), and sustainable chemicals and products from the pyrolysis using various waste solids/polymer[6-13], biomass[10,14-22] or others[23-26], as well as topics related to pyrolysis process[27] and simulation[18,24] and the other thermal process, such as carbonization[7], hydrolysis[28], solvent liquefaction[11,29], etc. With this special issue, we sincerely hope it is of importance for expertise from various aspects of Pyrolysis for Energy and Products to share their knowledge and perspective.

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Guest Editors

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