Special Issue

Green Chemistry and Environmental Processes

Message from the Guest Editors

Green chemistry has demonstrated how a set of principles can protect human health and the environment in an economically beneficial manner. Significant progress is being made in several key research areas, such as catalysis, the design of chemical products, and removal of pollutants. Advanced oxidation technologies (AOTs) have been demonstrated to be efficient in the removal of this type of contaminants from water. They are based on the generation of highly oxidizing radicals, which destroy the pollutant molecules. Among them, heterogeneous photocatalysis, Fenton processes, catalytic ozonation, and catalytic wet air oxidation have gained importance in the last few years. Air treatment can be also achieved by different catalytic processes, depending on the contaminant to be removed. For instance, catalytic combustion of volatile organic compounds (VOCs) and particulate materials (soot), catalytic reduction of NOx, SOx, and COx, and dehalogenation, among others, have been used for the treatment of polluted air streams.

Guest Editors

Prof. Dr. Francisco José Maldonado-Hódar

Dr. Sónia Carabineiro

Dr. Sergio Morales-Torres

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Catalysts
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
catalysts@mdpi.com

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Prof. Dr. Keith Hohn
Carl R. Ice College of Engineering, Kansas State University, Manhattan, KS, USA

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