



The Process Modeling, Optimization, and Control of Chemical Reaction Engineering

Guest Editors:

Prof. Dr. Fabricio Napoles-Rivera

Faculty of Chemical Engineering,
Universidad Michoacana de San
Nicolás de Hidalgo, Calle de
Santiago Tapia 403, Centro,
Morelia 58000, Michoacán,
Mexico

Dr. Luis Fernando Lira-Barragán

Faculty of Chemical Engineering,
Universidad Michoacana de San
Nicolás de Hidalgo, Calle de
Santiago Tapia 403, Centro,
Morelia 58000, Michoacán,
Mexico

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Message from the Guest Editors

One of the greatest problems in today's society is energy production; a greater number of people creates a greater energy demand. Energy production must be accompanied by appropriate modeling in order to avoid both energy and economic losses. By implementing optimal process control, the maximum yield of the reaction can be obtained with the minimum investment of resources. Within engineering, modeling, control, and process optimization provide key opportunities to develop the process phase known as "continuous improvement". I am pleased to invite you to contribute to this Special Issue. Topics include, but are not limited to:

- Energy production in power plants;
- Chemical looping combustion and their derivations (CLC, CLR, CLG, etc.);
- Renewable energy systems;
- Accoupled systems to reduce energy losses to the atmosphere;
- Evaluations of several scenarios of global warming caused by the use of fossil fuels;
- Modelling and optimization of energy efficiency in residential and industrial applications;
- Implementing control of chemical processes;
- Modelling of resource distribution in the population.





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Editor-in-Chief

Prof. Dr. Giancarlo Cravotto

Department of Drug Science and
Technology, University of Turin,
Via P. Giuria 9, 10125 Turin, Italy

Message from the Editor-in-Chief

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Processes Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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