



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

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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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## Message from the Editor-in-Chief

*Processes* (ISSN 2227-9717) provides an advanced forum for process/system-related research in chemistry, biology, material, energy, environment, food, pharmaceutical, manufacturing and allied engineering fields. The journal publishes regular research papers, communications, letters, short notes and reviews. Our aim is to encourage researchers to publish their experimental, theoretical and computational results in as much detail as necessary. There is no restriction on paper length or number of figures and tables.

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