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## Process Design and Modeling of Low-Carbon Energy Systems

Guest Editors:

**Dr. Chenyu Wu**

School of Electrical Engineering,  
Southeast University, Nanjing  
210096, China

**Dr. Zhongkai Yi**

School of Electrical Engineering,  
Harbin Institute of Technology,  
Harbin 150001, China

**Dr. Chenhui Lin**

Department of Electrical  
Engineering, Tsinghua University,  
Beijing 100084, China

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### Message from the Guest Editors

Dear Colleagues,

With the rapid promotion of renewable energy technologies and the trend to a low-carbon society, the positive impacts of a low-carbon energy system that realizes various forms of energy-utilizing improvement and carbon reduction have fully emerged. The technologies involved vary widely, such as synthetic and alternative fuels such as alcohols and ethers, nuclear energy, fuel cells, renewables such as wind and solar, and energy storage technologies of wide varieties. The carbon market is also one of the most cost-effective ways of incentivizing CO<sub>2</sub> reductions which put a price on carbon and can be accomplished through either a carbon tax or a cap-and-trade program. All of these are essential components of the future of energy systems.

This Special Issue on “Process Design and Modeling of Low-Carbon Energy Systems” will curate novel advances in research which use modeling, planning, and optimization as essential tools to design energy systems or construct effective electricity markets and carbon markets for pricing carbon dioxide.



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# Special Issue



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### **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

*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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Processes Editorial Office  
MDPI, St. Alban-Anlage 66  
4052 Basel, Switzerland

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