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Energy-Efficient Chemistry

Collection Editors:

Message from the Collection Editors

Dr. Gabriella Fiorentino

Dear Colleagues,

Prof. Dr. Maria Laura Parisi

Prof. Dr. Riccardo Basosi
Prof. Dr. Sergio Ulgiati

This Special Issue will stress the current knowledge regarding the most recent innovations, emerging technologies, and strategies to be employed for energy-efficient chemical production.

 Technical improvements and innovations within the green chemistry framework, to achieve further energy savings and decreased impacts;

- Innovations and novel procedures to manufacture chemicals from renewable feedstocks as well as by means of renewable energy;
- "Green" extraction of bioactive compounds and/or platform chemicals from agro-industrial residues and the organic fraction of urban waste;
- Production pathways based on the biorefinery concept, with a special focus on material and energy diversity and efficiency;
- Environmental and sustainability assessment methodologies, including life cycle assessment, energy, exergy and emergy analysis, carbon footprint, social LCA and life cycle costing among others, and their integration/application to biobased production systems;
- Energy and environmental implications of biobased production chains at global scale;
- Relation of bio-based economy, cumulative energy demand and environmental integrity.











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Editor-in-Chief

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Message from the Editor-in-Chief

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