



Energy-Efficient Chemistry

Collection Editors:

Dr. Gabriella Fiorentino

Prof. Dr. Maria Laura Parisi

Prof. Dr. Riccardo Basosi

Prof. Dr. Sergio Ulgiati

Message from the Collection Editors

Dear Colleagues,

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 energy analysis, carbon footprint, social LCA and life cycle costing among others, and their integration/application to bio-based production systems;
- Energy and environmental implications of bio-based production chains at global scale;
- Relation of bio-based economy, cumulative energy demand and environmental integrity.





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Editor-in-Chief

Prof. Dr. Enrico Sciubba

Department of Mechanical and
Aerospace Engineering,
University of Roma Sapienza, Via
Eudossiana 18, 00184 Roma, Italy

Message from the Editor-in-Chief

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Energies Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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