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Energy-Efficient Chemistry

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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 emergy 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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Topical Collection



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Message from the Editor-in-Chief

Energies is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

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