



Waste Plastics into Fuel, Energy and Chemicals

Guest Editors:

Prof. Luca Rosi

Department of Chemistry “Ugo Schiff” of the University of Florence, Via della Lastruccia 3-13, 50019 Sesto F.no, Florence, Italy

Prof. Dr. David Chiamonti

ReCORD – Renewable Energy Consortium for Research and Demonstration and Department of Industrial Engineering of the University of Florence, Viale Morgagni 40, Florence, Italy

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Message from the Guest Editors

Plastic waste is present in solid urban waste in large quantities, and mechanical separation prior to recycling is necessary to manage these materials. However, the difficulties deriving from organic contamination, inadequate sorting before recycling which involves mixing of different polymers in the collected flows, presence of hazardous materials, presence of plastic composites difficult to recycle and reuse, and the high energy requirements often associated with wasted handling and processing, hamper a complete recycling process for many plastic flows.

Thermochemical conversion generates gaseous, liquid, and solid fractions, and can be driven to maximize some of these streams. Gas that is rich in hydrocarbons, and liquids can be used as fuels as a raw stream or upgraded through catalytic upgrading, or as a source for the production of valuable chemicals. The solid char may be employed as a filler to obtain composites, as an active carbon, or as a solid fuel.

We warmly invite you to submit your latest studies or research works concerning thermal and/or catalytic conversion processes of plastic waste aimed at obtaining fuels, energy, or chemicals of industrial interest.





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Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica,
Politecnico di Milano, Piazza L.
da Vinci 32, 20133 Milano, Italy

Message from the Editor-in-Chief

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