Special Issue

From Waste to Value-Added Products: Environmental Challenges, Potentialities, and Perspectives for a Circular Economy

Message from the Guest Editors

The global commitment is clear if we look at the Sustainable Development Goals (SDG) as part of the UN Resolution “Agenda 2030”, a broad and interdependent set of goals aimed to achieving a more sustainable future. In particular, waste management is the focus of SDG 12, entitled “Responsible consumption and production”. Recovery of added-value products from waste offers a wide range of opportunities. Just to list a few:

- Bioactive molecules from food waste, leading to pharmaceuticals, nutraceuticals and cosmetics.
- Base and precious metals from Waste Electrical and Electronic Equipment (WEEE), for a re-placement on the market.
- Fuel and energy from agro-industrial biomasses.
- Wastewater can be recycled for agricultural, industrial processes and other beneficial purpose reducing demand for potable water.
- Fermentation represents an environmentally clean technology for production and extraction of such bioactive compounds, providing high quality and high activity extracts, which can be incorporated in foods.
- Sustainable solar fuels production by photothermocatalytic CO2

Guest Editors

Dr. Raffaella Micillo
Chemistry Department, Avantech s.r.l., Palermo, Italy

Dr. Maria Laura Alfieri
Department of Chemical Sciences, University of Naples “Federico II”, Via Cintia 4, I-80126 Naples, Italy

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Sustainability
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
sustainability@mdpi.com

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Editor-in-Chief

Prof. Dr. Marc A. Rosen
Faculty of Engineering and Applied Science, University of Ontario Institute of Technology, Oshawa, ON L1G 0C5, Canada

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