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Valorization of Biogenic and Not Biogenic Residuals/Byproducts from Thermochemical Processes: Diagnostic, Product Characterization, and Emissions Control

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Message from the Guest Editors

Energy Transition and decarbonization toward a cleaner energy require the utilization of new technologies and energy sources. Key issues are diversifying fuels, combining renewable with fossil sources, abatement and/or recovery and valorization of pollutant by-products.

Thermochemical processes are well assessed approaches for biomass, waste and byproducts valorization, even if formation mechanisms of pollutants in combustion, gasification, and pyrolysis are still open concerns.

Contributions regarding diagnostics for the study of pollutants formation in thermochemical processes of residuals/byproducts valorization, characterization of process products, strategies for emissions reduction as well as integrations of multiple processes or the enhancement of coprocesses are issues closely linked to the focus of this special issue. The congress ECM 2021, organized by the Italian Section of Combustion Meeting, will provide the opportunity for academic and industrial experts to meet and discuss on all these topics. Therefore, contributions from ECM congress are welcome in this Special Issue.