

Special Issue

Catalytic Sustainable Processes Using Carbonaceous Materials

Message from the Guest Editors

Progress in catalytic development is focused on the search for more sustainable processes, replacing fossil resources by the use of renewable raw materials, elimination of waste, and avoiding the use of toxic and/or hazardous substances. The development of new efficient catalysts is also important and urgent, especially in catalytic biomass upgrading, water splitting, and CO₂ valorization processes. The use of sustainable carbonaceous materials as supports or intrinsic catalysts has become an alternative to precious metals in electrocatalysis as well as in the promising transformation of sustainable biomass resources into biofuels, chemicals, and bio-based materials. This Special Issue on “Catalytic Sustainable Processes Using Carbonaceous Materials” will focus on original research papers and short reviews on the development of new carbonaceous materials for catalytic biomass upgrading, water splitting, and (electro)chemical CO₂ conversion and valorization.

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