Special Issue

Catalytic Transformation of Glycerol

Message from the Guest Editors

Since 2004, when the first systematic analysis of the most promising biomass-derived compounds was carried out by the US Department of Energy, glycerol has been recognized as one of the best platform chemicals of renewable origin. This preeminent role has been consolidated over the years as witnessed by hundreds of literatures in which procedures for the conversion of glycerol into value-added derivatives are described. This Special Issue aims to collect original research papers, reviews and commentaries reflecting the state-of-the-art in this field with a focus on innovative catalysts and conditions for the upgrading of glycerol. Submissions are welcome on, but not limited to: Catalytic oxidation and hydrogenolysis of glycerol
Catalytic transesterification and transcarbonation of glycerol
Catalytic synthesis of glycerol-derived acetals and ethers
Glycerol reforming for H2 production
Innovative approaches to the catalytic conversion of raw glycerol
Economic and life cycle assessment of the upgrading of glycerol
Innovative batch/continuous-flow reactors for the conversion of glycerol

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