

Special Issue

Epoxidation Catalysis

Message from the Guest Editors

The epoxidation reaction of the C=C double bond is one of the most powerful and versatile tools in synthetic chemistry, from the laboratory level up to the industrial scale. It is used to produce bulk chemicals (i.e., ethylene oxide, propylene oxide), functionalized chemical auxiliaries (i.e., epoxidized vegetable oils), as well as high added-value fine chemicals (i.e., epoxidized terpenes). Several oxidants can be used for epoxidation (air, O₂, hydrogen peroxide, organic hydroperoxides, peroxyacids) and the choice is linked to the substrate type, the features of the used catalyst, safety, economy, and sustainability of the overall process. The aim of this Special Issue on epoxidation reactions is to provide the reader with trans-disciplinary up-to-date information on different epoxidation systems, paying particular attention to the catalytic aspects of this transformation.

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