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Selectivity in Complex Reactions

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

In order to maximize efficiency, minimize waste and increase profitability, the close early-design-state combination of green chemistry and green engineering, selective transformations are becoming increasingly important. High selectivity is obviously associated with diminished separation costs and thus higher overall process efficiency.

Investigations of multi route chemical reactions comprising several steps and, sometimes, different types of catalysts (homogeneous, heterogeneous and enzymatic) is far from being straightforward. For example, how to elucidate activity when different types of active sites are working in concert, what are the ways of tuning selectivity (chemo, regio-, stereo-, or enantio-), how the kinetic and reactor aspects should be properly elucidated, etc.? [...]

The aim of this Special Issue is to cover promising, recent research, and novel trends in exploring the fascinating issue of selectivity in complex chemical reactions with an eventual goal of reaching 100% selectivity.