Special Issue

Microwave-Assisted Catalysis

Message from the Guest Editors

The use of microwaves applied to catalysis has received considerable attention in the last years as an alternative to conventional heating. The benefits of microwave heating for catalysis mainly lie in the fact that it accelerates the reaction rates, can be used at milder reaction conditions than conventional heating (lower temperature and time) with subsequent energy saving, and can lead to higher chemical yields. Additionally, considering that molecules or solid surfaces have a different ability to transform electromagnetic energy into heat, a different reaction selectivity could be obtained by controlling the catalyst properties. This Special Issue collects original research papers and short reviews focused on the recent research on this topic. Studies of the application of microwaves for acid-base, (de)-hydrogenation, oxidation reactions or in non-polar reaction media, as well as the improvements achieved in the design of microwave ovens and reactors employed for catalysis or the scale-up of microwave-assisted reactions, are welcome.

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