Special Issue

Catalytic Approaches for Amide Synthesis

Message from the Guest Editors

Amides are essential structural motifs in peptides, pharmaceuticals, and natural/synthetic polymers. Therefore, the amide bond formation is one of the most performed reaction in both academic and industrial fields.

To enable amide bond formation under milder/greener conditions, catalysis in its broader sense offers alternative strategies allowing direct amidation between carboxylic acid and amines, but also expands the scope of coupling partners to amine and carboxylic acids surrogates. This Special Issue welcomes both review and original research articles on all aspects of heterogeneous and homogeneous catalysis. Topics include, but are not limited to, the following: Direct amidation; Organocatalyzed amidation; C-H bond amidation; TM catalyzed amidation; Transamidation; Photoredox Reductive amidation; Carbonylative amidation; Decarbonylative amidation; Amidation via rearrangements; Hydration strategies; 'Carboxylic acid surrogates' amidation; 'Amine surrogates' amidation

Guest Editors

Dr. Marcia De Figueiredo

Institut Charles Gerhardt – UMR 5253 CNRS, Ecole Nationale Supérieur de Chimie de Montpellier, Montpellier cedex 5, France

Dr. Jean-Marc Campagne

Institut Charles Gerhardt – UMR 5253 CNRS, Ecole Nationale Supérieur de Chimie de Montpellier, CEDEX 5, Montpellier, France

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Catalysts
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
catalysts@mdpi.com

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Prof. Dr. Keith Hohn
Carl R. Ice College of Engineering, Kansas State University, Manhattan, KS, USA

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