Special Issue

Recent Advances in Cascade Reactions and Related One-Pot Processes

Message from the Guest Editor

The interest of the chemical community in “one-pot” reactions has increased considerably over the past two decades. These processes, which include cascade, tandem, and domino reactions, are characterized by a high level of atom and step economy. Even though some mechanistic distinctions have been proposed in the pioneering works reported by Tietze, Enders, Fogg, and dos Santos, as of more recently, these three terms have been used interchangeably and generally refer to a process involving two or more consecutive reactions in which subsequent reactions result as a consequence of the functionality formed in the previous step, without the isolation of the intermediates.

Applications of asymmetric catalysis in one-pot methodologies for the total synthesis of bioactive compounds are subjects of high interest for this Special Issue. We encourage the focus on mechanistic investigations aimed toward the comprehension of all the aspects of these complex reactions and to predict new transformations, as well as on the development of effective synthetic strategies of the starting materials. Within the scope of this Special Issue, reviews and original research papers are welcome.

Guest Editor

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Message from the Editor-in-Chief

As the premier open access journal dedicated to experimental organic chemistry, and now in its 25th year of publication, the papers published in *Molecules* span from classical synthetic methodology to natural product isolation and characterization, as well as physicochemical studies and the applications of these molecules as pharmaceuticals, catalysts and novel materials. Pushing the boundaries of the discipline, we invite papers on multidisciplinary topics bridging biochemistry, biophysics and materials science, as well as timely reviews and topical issues on cutting edge fields in all these areas.

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