Special Issue

New Insights in Diversity Oriented Synthesis

Message from the Guest Editor

Diversity oriented synthesis (DOS) is a well established and powerful strategy for the synthesis of highly diversified collections of compounds. DOS requires the availability of efficient synthetic pathways, which should be environmentally benign, short, selective, and atom economical. Stereocontrol can in some instances be an important challenge too. This Special Issue is focussed on two main topics: a) the valorization of the starting materials, which should be easily accessible possibly from "bio-based" renewable materials, with the aim to replace in the next future the oil-based chemistry; b) the efficiency of the synthetic methodologies planned to transform the starting materials into the new molecules. In particular catalytic methodologies, including biocatalysis, organocatalysis, photocatalysis, transition metal-based domino or one-pot reactions, can offer an excellent contribute to this goal. Moreover, Multicomponent reactions and green synthetic pathways can support as well the sustainability of the synthtic metodologies, allowing at the same time a diversity oriented approach.

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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