**Editorial**

The Journal of Flow Chemistry has accompanied the most groundbreaking developments in the field of micro- and mesofluidic continuous processes for over a decade. Flow chemistry has now reached the necessary level of maturity to be incorporated in the general toolbox of chemists both at the R&D and production scales. With more tools for improving existing processes and tackling future challenges, Chemists and Chemical Engineers are ready to face new pressing needs.

The current landscape of the Chemical Industry is still mostly shaped by the extensive use of petrochemicals and fossil resources. Despite the inception of new extraction technologies and the localization of potential new reservoirs, the progressive depletion of these resources has triggered a thrust toward the exploitation of sustainable and renewable resources. Two decades of reflection on the development of Sustainable Process Development and Bioeconomy has led to the emergence of biorefineries for exploiting biomass and for the production of relevant industrial building blocks (a.k.a. bio-based platform molecules). However, the production and upgrading of these bio-based platform molecules remains a great challenge to the Chemistry and Chemical Engineering communities, with specific requirements associated to their high oxygen content. Overcoming this challenge requires the development of innovative catalysts (including enzymes), as well as new process conditions and technologies. Flow chemistry has already a track record of success stories in improving biobased processes, yet there is still plenty of room for improvement.

Welcome to this special issue on biobased chemistry! It features (i) Communications and Full Papers reporting original research, and (ii) review-type articles (Reviews, Minireviews or Perspectives) emphasizing new lines of research at the confluence of flow chemistry and biobased processes.

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