



## Catalytical Processes in Presence of 2D Nanomaterials

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### Message from the Guest Editors

In the past few years, there has been significantly increased interest in the use of two-dimensional (2D) of nanomaterials in chemical technology and biotechnology. Innovative 2D structures of graphene family materials, Xenes, MXenes, mono- and dichalcogenides of transition metals, 2D oxides, and hydroxides, have been extensively studied for several years for application in various catalytical processes. While using various surface modifications, these properties can be extended and tailored for more specific reactions and effective reuse.

Use of innovative 2D structures may well find application in removing contaminants of emerging concern (CECs) from wastewater. The issue is that the impact of material parameters and process conditions on catalyst efficiency and reusing is yet to be revealed. A better understanding of the mechanisms of chemical reactions may help to obtain an answer whether catalytical processes in presence of 2D nanomaterials products will have a negative impact on the natural environment. There are still many important issues to explain so we kindly invite you to publish in Special Issue in the journal.

