

Special Issue

Environmental Friendly Catalysts for Energy and Pollution Control Applications

Message from the Guest Editors

A great variety of catalytic materials which include single metals as well as mixed metals (and their oxides) are currently being used either supported over alumina, silica, titania, ceria, zirconia, activated carbons, and zeolites, or directly attached to the reactor itself, allowing their continuous use and avoiding waste emissions. Similar cases are being found in Fenton catalysis, converted into EFCs, through heterogeneous Fenton-like variants. Moreover, the combined use of catalysts with UV/solar irradiation or in combination with O₃ and H₂O₂ will always be preferable to that of other oxidant agents (persulfates). In the case of metal-organic framework (MOFs) type catalysts, research is being redirected towards designs that allow their recycling. In new nanostructured functional catalysts with varied applications, a marked tendency is being observed to develop materials, which allow multiple reuse in different operating cycles with high efficiency and selectivity. This Special Issue addresses the aforementioned topics.

Guest Editors

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