Special Issue

Layered Double Hydroxide-Based Catalysts for Advanced Chemical Technologies

Message from the Guest Editors

After the first successful special issue focused on layered double hydroxide-based catalytic materials available here, we propose the second edition titled "Layered Double Hydroxide-Based Catalysts for Advanced Chemical Technologies". Layered double hydroxides (LDH) together with their derived materials, such as hybrids, nanocomposites, mixed metal oxides, and supported metals, were shown to be excellent heterogeneous catalysts for a wide range of chemical, photochemical and electrochemical processes. However, they have not had their last word yet! Indeed, due to their great compositional flexibility and ability to intercalate between their nanosheets both organic and inorganic species, new multifunctional catalytic materials can be obtained with practically unlimited applications in various processes resulting in new chemical technologies or the improvement of the existing ones. Thus, the present Special Issue collects original research papers, reviews, and commentaries focused on new and outstanding catalytic applications of all kinds of LDH-based materials.

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