

Special Issue

Catalytic Processes of Bimetallic Nanoparticles

Message from the Guest Editors

Most recently, gold bimetallic nanocatalysts have attracted much interest, with the aim of improving activity, selectivity, and durability. In fact, nanoparticles composed of two different metal elements show novel electronic, optical, catalytic, or photocatalytic properties compared to monometallic ones, showing not only the combination of the properties in relation to the presence of two individual metals but also new properties due to a synergy between two metals.

This Special Issue is dedicated to the synergistic effect in gold bimetallic NPs, for both catalytic and photocatalytic processes. It focuses on the potential of Au bimetallic systems and their applications for different aims, with particular attention to green and sustainable processes, environmental chemistry, and energy production. Reviews and original research papers are invited from fundamental to industrial applications on Au bimetallic structures where the synergistic effect plays a crucial role in enhancing the overall process.

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