



New Frontiers in Metal Nanoparticles for Heterogeneous Catalysis

Guest Editor:

Dr. Patricia Concepción

Instituto de Tecnología Química,
CSIC-UPV, Universidad
Politécnica de Valencia, Av de los
Naranjos s/n, 46022 Valencia,
Spain

Deadline for manuscript
submissions:

closed (30 November 2021)

Message from the Guest Editor

Dear Colleagues,

Metal nanoparticles have attracted great interest in the field of heterogeneous catalysis due to their size and shape-dependent chemical and physical properties that strongly influence their catalytic activity. The main challenges in the field of nano-catalysis are the control of their synthesis, comprehensive knowledge of active sites enabling a rational design of efficient catalysts, and their characterization under reaction conditions. Despite the tremendous progress in the field, several tasks concerning the dynamic behaviour of metal nanoparticles under reaction conditions, the in situ formation of active sites, and their link with its chemical reactivity remain unresolved, limiting our capability to achieve the rational design of efficient catalysts. Therefore, new strategies aimed at the identification of active sites, reaction mechanisms, and the controlled synthesis of disruptive novel catalysts are strongly required...

For further reading, please follow the link to the Special Issue website at:

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Dr. Patricia Concepción

Guest Editor





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Editor-in-Chief

Prof. Dr. Shirley Chiang

Department of Physics, University
of California Davis, One Shields
Avenue, Davis, CA 95616-5270,
USA

Message from the Editor-in-Chief

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MDPI, St. Alban-Anlage 66
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