



Surface Science in Catalysis

Guest Editor:

Dr. Dimitrios Vlachos

Department of Physics, University
of Ioannina, Ioannina, Greece

Deadline for manuscript
submissions:

closed (30 November 2020)

Message from the Guest Editor

Materials' surfaces are ideal places for catalytic reactions due to their different physicochemical properties with respect to the bulk ones. Surface Science has enormously contributed in the field of the heterogeneous catalysis by providing the means and the methods for the morphological, compositional, structural, and electronic characterization of surfaces and interfaces in nanoscale. The research has shown that the atomic structure of the surface, its oxidation states, and several types of strongly adsorbed overlayers are important features for the development of active catalysts on surfaces. The effort has been extended in physical and artificial surface systems.

The purpose of this Special Issue is to provide information on the recent progress of Surface Science in the field of catalysis in terms of newly developed model catalysts. The authors are encouraged to submit their work relative to the catalytic activity of surfaces and interfaces in the fields of heterogeneous catalysis, electrocatalysis, and photocatalysis. Nanostructured adsorbates on surfaces could be at the center of the research interest in this Special Issue.

