

## INTRODUCTION

The Second Symposium on Current Problems in Nanocatalysis was held September 24-28, 2017 in Kyiv, Ukraine. This symposium was organized by the Chemistry Division of the National Academy of Sciences of Ukraine, the L. V. Pysarzhevsky Institute of Physical Chemistry of the National Academy of Sciences of Ukraine, and the Nanochemistry Scientific Council of the National Academy of Sciences of Ukraine.

Studies carried out at leading scientific centers in Ukraine, Azerbaijan, Armenia, Belarus, Hungary, Germany, Kazakhstan, Poland, Russia, Finland, France, and the Czech Republic were presented. Discussions were held on the results of studies on dimensional effects in catalysis, the design and preparation of nanophase materials for catalysis, and the industrial use of nanocatalysts. Studies were presented concerning the development of modern concepts about the catalytic properties of nanomaterials, the mechanism and kinetics of chemical reactions involving nanosystems as well as the development of new catalytic technologies.

Articles covering reports presented at the symposium and selected by the vice-chairman of the symposium organizing committee, Prof. P. E. Strizhak, are given in this issue of *Teoreticheskaya i Éksperimental'naya Khimiya* (Theoretical and Experimental Chemistry).

Editor-in-Chief of the Journal  
Prof. V. D. Pokhodenko