

INTRODUCTION

From 24 to 28 September, 2012 a symposium on “Modern problems of nanocatalysis” with international participation was held in Uzhhorod (Ukraine). The organizers of the symposium were the L. V. Pisarzhevskii Institute of Physical Chemistry, National Academy of Sciences of Ukraine and Uzhhorod National University.

In accordance with the symposium program the results from investigations in the region of size effects in catalysis, design, and production of nanophase materials for catalysis, nanophase materials in heterogeneous catalytic processes, nanocatalysis in solutions, and nanocatalysis in industry were discussed at the symposium.

More than 100 scientists participated in the work of the symposium and 91 papers representing scientific investigations that are being conducted at the leading scientific centers of Ukraine, Russia, Kazakhstan, Azerbaijan, Uzbekistan, France, Hungary, and other countries on the development and improvement of contemporary ideas about the catalytic characteristics of nanomaterials, the mechanism and elementary events in the chemical transformations that occur with their participation, and the creation of novel catalytic techniques based on them were presented. The participants of the symposium included three academicians, five corresponding members, and more than 30 doctors of sciences from 29 scientific-research institutes, universities, and scientific-production establishments, and 25 oral reports and posters were presented by young scientists.

Articles based on a series of the reports presented at the symposium and selected by the Vice Chairman of the organizing committee Prof. P. E. Strizhak are published in this issue of “Theoretical and Experimental Chemistry.”

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