

## PREFACE



It is my great honor and pleasure to present to your consideration the first issue of the online & print journal *New Materials, Compounds and Applications*. This new journal is planning to be published quarterly. I want specially emphasize that the first issue of this journal is dedicated to the *100<sup>th</sup> anniversary of Baku State University*. We hope that the Journal will be an attractive and objective platform for the scholars from all over the world in a broad range of material and compound sciences and applications, publishing their high quality peer reviewed papers, surveys, comments and correspondences.

The properties of solid compounds arouse the interest of many researchers from various fields of natural sciences. However, important classes of these solids are the new materials and nanomaterials, which have special emphasis on their applications in the industry. Understanding the principles of their synthesis and structure today is of scientific interest because their use in high technology equipment, catalysis and construction industry is growing day by day. The experimental investigation of these compounds is accomplished in several ways. On the other hand, there was the development of Ab Initio methods and the emergence of new computer technologies, which is increasingly sophisticated, and the study of ground state properties of new materials and nanomaterials, which is advancing rapidly, promotes saving resources and greener methods, as it allows the obtaining of the compounds with predicted properties. At the present time, the comprehension of the physical properties of new materials goes through the theoretical understanding of their physical and chemical properties. As a result, it is possible to obtain new matching of materials with desired physical, chemical and mechanical properties.

Considering this, we invite investigators to contribute their original research articles and reviews that may stimulate the continuing efforts to understand the properties of new materials, compounds and nanomaterials in theoretical works of electronics structure calculation and simulation. I believe that the Journal will be a right place for many original experimental and theoretical studies. With great pleasure I would like to invite researchers to contribute and share with their novel valuable results.

I would like to thank everybody - editors, editorial board members, reviewers, who did all their bests for establishment of the journal and congratulate them with these first bold steps.

I also congratulate the potential readers and authors for getting this platform for sharing their new ideas and results.

**Prof. Abel MAHARRAMOV**  
**Editor in-Chief**