

Foreword to the Issue

It is my pleasure to present the first issue of the journal *Advanced Materials & Technologies* in 2017. It has been a year since the launch of the journal in early 2016.

The journal aims to provide an international forum for the presentation of original fundamental research, interpretative reviews and discussion of new developments in the area of innovative materials and technology. The full bibliographic description of all the journal articles is available in the Scientific Electronic Library eLIBRARY.ru aimed at forming Russian Science Citation Index (RSCI). Currently, the journal is indexed in the databases: Ulrich's Periodicals Directory, Google Scholar (USA), Open Academic Journals Index (Russia) and it is expected to be included in the list of peer-reviewed scientific publications of the RF Higher Attestation Commission and the international citation databases: Chemical Abstracts and Scopus.

The founders of the journal – *Tambov State Technical University (TSTU)* and *the Institute of Structural Macrokinetics and Materials Science (ISMAN) (Chernogolovka)* – collaborate with Research & Education Centre (REC) TSTU–ISMAN “Solid State Technology”, “NanoTechCenter” Ltd (Tambov), REC TSTU–JSC “Roskhimzashchita” “New chemical technology” (Tambov), National Research Centre “All-Russian Research Institute of Aviation Materials” (Moscow), National Research Technological University “Moscow Institute of Steels and Alloys” (Moscow), the Institute for Metals Superplasticity Problems, Russian Academy of Sciences (Ufa), etc. and other research and industrial organizations on a variety of projects on designing and manufacturing of composite materials and products as part of the RF National Technology Platform. The journal regularly reports on the studies of physical and chemical bases for creating functional and polymer-based nano- and composite materials, structural macrokinetics, methods of research and control of physical-mechanical properties, new manufacturing technologies of composite materials, mathematical modeling of creating and processing of composite materials.

In 2017, the journal will publish the best papers of the International research conferences *Graphene and related structures: synthesis, manufacture and application* and *Virtual simulation, prototyping and industrial design*. Both conferences are hosted by Tambov State Technical University and attract a large number of Russian and international scientists and experts, chaired by RAS Academicians V.M Bouznic and B.F. Myasoedov, and RAS Corresponding Member M.I. Alymov. The conferences cover a range of topics, including design of a new generation of materials and complex technical systems, simulation of full life cycle of materials (creation – operation – diagnostics, repair, life extension – recycling) and continuity of materials, technology, design and equipment.

I hope that expanding the scope of the journal and including papers, covering the basic research and application of graphene, nanographite, carbon nanotubes and nanofibers, additive and “green” technologies for design of materials and integrated security systems, will extend the journal international reach.



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