
NEW MEMBERS OF THE EDITORIAL BOARD



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Dr Nadežda M. Talijan is a Scientific advisor at Institute of Chemistry, Technology and Metallurgy (IHTM) – born on October 23, 1945 in Belgrade, Serbia.

Education:

In 1976 graduated from Pedagogical School in Belgrade, group for Physics and Chemistry. Graduated with honors from Faculty of Technology and Metallurgy (TMF), University of Belgrade in 1982; MSc degree, 1986; in 1995 received PhD degree.

Scientific and Academic Positions:

From the 1966, employee of the IHTM in Belgrade, where received all professional titles up to leading researcher as well as scientific titles: research assistant in 1987, research fellow in 1996, senior scientist in 1998 and scientific advisor in 2000.

Since 1991, Head of the Department of Materials and Metallurgy - IHTM.

Lecturer in the postgraduate course: “Modern metallic materials”, at the Department of Metallurgical Engineering, Technical Faculty Bor, University of Belgrade since 2008.

Research interests:

Powder metallurgy and sintered materials: metallic, metal-ceramic and composite sintered materials with metallic matrix, sintered frictional materials based on copper and iron for the braking and torque transfer systems.

Electrical contact materials based on silver produced by sintering or by inner oxidation technique as well as by combined methods of classical and powder metallurgy.

Temperature sensors based on multi-component alloys with precisely defined melting points at normal and high pressure environment for the wide temperature interval.

Thermal and microstructural analysis and electrical properties characterization of binary and

ternary metal alloys for application as lead-free solder materials.

Research and development of high energy permanent magnetic materials based on rare earth - transition metal compounds.

Development, design and characterization of modern micro- and nanocrystalline permanent magnets based on SmCo_5 , Nd-Fe-B alloys, soft and hard ferrites and composite materials with magnetic functional component.

Publications:

Author and co-author of over 60 published papers in refereed international scientific journals, 12 in national journals, and more than 170 presentations on international and national scientific meetings.

Projects:

Leader of 12 scientific research projects funded by the Ministry of Science and Technological Development of the Republic of Serbia and participated in realization of larger number of R&D projects, actively contributing to the development of the powder metallurgy and sintering technology in Serbia and their implementation in industry.

International cooperation:

Realized significant international bilateral scientific cooperation, with several scientific research institutions, such as: Institute of Physics of Materials of the Czech Academy of Sciences (IPM, Brno, Czech Republic), Moscow Institute of Steel and Alloys (MISIS, Moscow, Russia), Institute of Microelectronics Technology and High Purity Materials (IMT RAS, Chernogolovka, Russia), National Centre for Electron Microscopy, Lawrence Berkeley National Laboratory (NCEM LBNL, Berkeley, USA), Royal Institute of Technology (KTH, Stockholm, Sweden), etc.

Participant in the COST ACTION MP0602 “Advanced Solder Materials for High Temperature Application (HISOLD).

Membership in scientific societies:

Corresponding member of the Academy of the Engineering Sciences of Serbia, since 2008. (2005-2010) Vice president of the Association of the Metallurgical Engineers of Serbia - AMES. Member of the Serbian Chemical Society.

Since 2007 member and from 2010, vice president of the Materials Science and Chemical Technology Board of the Ministry of Education and Science of the Republic of Serbia

Awards:

The Special Certificate and the Medal “Nikola Tesla” of the Association of Inventors and Belgrade Technical Advancements Authors for the exceptional accomplishments in the development of products produced by powder metallurgy in 1993. Awarded the Charter and the Medal “Nikola Tesla” for the contribution to development of scientific research work by the IHTM in 1996. In recognition of professional achievements was awarded the Charter of the Distinguished Member of the Association of Metallurgical Engineers of Serbia in 2004.

Other scientific activities:

Mentor of several PhD and MSc thesis realized within the projects that she was coordinating. Organizer, president and a member of the Scientific Committees of a number of national and international scientific events.

Editor of two Proceedings of international scientific conferences (II ISLM&CM 2004, III ISLM&CM 2008).

Member of the Editorial Board of the national scientific journals “Metalurgija” and “Bakar”.