

Curriculum vitae

PERSONAL INFORMATION Oleksandr Honcharov



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Date of birth 22 Jul 1961

WORK EXPERIENCE

- 2014–Present Professor of the Department of Applied Mathematics and Complex Systems Modeling
Sumy State University, Sumy (Ukraine)
- 1999–2014 Assistant Professor of the Department of Applied Mathematics
Donbass State Engineering Academy, Kramatorsk (Ukraine)

EDUCATION AND TRAINING

- 2004–2007 D.Sc. in Physics of Solids State
Donetsk National University, Donetsk (Ukraine)
- 1993–1994 Senior Researcher, Department of Physics of Magnetic Phenomena and High-Temperature Superconductivity
Donetsk National University, Donetsk (Ukraine)
- 1989–1993 Ph.D. in Solid State Physics
Donetsk National University, Donetsk (Ukraine)
- 1984–1989 M.Sc. in Solid State Physics
Donetsk National University, Donetsk (Ukraine)
- Mar 2017–Mar 2017 Internship
University of Technology, department of Electrical Apparatus and Highvoltages
Technology, Lublin (Poland)

PERSONAL SKILLS

Mother tongues – Ukrainian, Russian.

Organisational / managerial skills I have been a member of the Organizing Committee of International conference IEEE International Conference on Nanomaterials: Application & Properties (NAP-2015 – Lviv (Ukraine).

Job-related skills

- Coating Deposition Using PVD techniques (vacuum-arc evaporation, magnetron sputtering);
- Design, development, and study of nanostructured multicomponent coatings with high hardness and thermal stability.
- Study of the formation mechanisms of film coatings of refractory compounds (nitrides and borides of transition metals).
- Modeling the Formation of the Structural State of Film Coatings with Specified Mechanical Characteristic.
- Modeling of thermal and deformation processes in nanocomposite systems.

Physica Polonica A. – 2017. – Vol. 132, №2. – P. 270-273.

10. V. Buranich, A. Pogrebnjak, P. Budzynski, I. Shelest, A. Prószyński, D. Chocyk, A. Goncharov, A. Yunda, Mechanical and tribological characterization of nanostructured HfB₂ films deposited from compound target // SN Applied Sciences. – 2020. - № 2. – Art. 563.

Projects

2023-2025 “Funded by the EU NextGenerationEU through the Recovery and Resilience Plan for Slovakia under the project No. 09I03-03-V01-00066”.

2022-2023 «Mechanisms of molding and modeling of the structural mill of refractory slabs with predicted mechanical characteristics (applied research)» National Government Project of Ministry of Education and Science of Ukraine № 0122U000776.

2020-2021 “Implantation of low and high energy ions in multicomponent and multilayer coatings: microstructure and properties”, National Government Project of Ministry of Education and Science of Ukraine №0119U100787.

2017-2019 “Technological bases of the synthesis of nanostructured nanocomposite and multilayer coatings of refractory compounds for use in mechanical engineering”, National Government Project of Ministry of Education and Science of Ukraine № 0117U002247.

2016-2017 “Physical basis of formation of composition and properties of nanostructured boride, nitride and boridonitride films of transition metals for use in mechanical engineering”, National Government Project of Ministry of Education and Science of Ukraine № 0117U002247

2010-2014 "Regularities of formation and thermal stability of film nanostructures of refractory compounds" National Government Project of Ministry of Education and Science of Ukraine № 0212U007702.

2007-2009 "Investigation of the phase composition, structure and properties of films of tantalum and hafnium diborides", grant State Foundation of Fundamental Research of Ukraine No. 26-08.

2006-2008 "Synthesis and study of physical and mechanical properties of nanostructured boridonitride films of transition metals" National Government Project of Ministry of Education and Science of Ukraine № 0106U001623.

2003-2005 "Investigation of growth kinetics and properties of nanostructured films of borides of refractory metals" National Government Project of Ministry of Education and Science of Ukraine № 0103U003509.

2000-2002 "Obtaining and studying the physical and mechanical properties of borides of refractory metals for use in mechanical engineering", National Government Project of Ministry of Education and Science of Ukraine № 0100U001544.

