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Docent of department of nuclear physics,
new materials and technologies, the Eurasian
National University L.N.Gumilyov

Contact details:
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Scientific degree, Scientific School:

candidate of physical and mathematical sciences.

Research interests: Radiation physics of solids, particle physics, condensed matter physics, accelerator physics, nanotechnology

Research Grants: Ans. Performer of research projects on the themes:

- 1) The program of targeted financing of the MES RK: "Development of new functional materials based on polyethylene terephthalate and polycarbonate track membranes, conducting basic and experimental research on the use of new types and types of membranes." 2015-2017
- 2) The program of target financing of the MES RK "Creation of radiation-resistant nanostructured materials for modern materials science, alternative energy, nano and microelectronics", 2018-2020.
- 3) Grant MES RK "Development of radiation-resistant nanostructured composite materials based on flexible polymer matrices". 2018-2020
- 4) Grant MES RK «Study of the radiation resistance of ceramics based on beryllium oxide as promising materials for nuclear reactors» 2020-2022

Professional experience:

Since 2011 - L.N. Gumilyov Eurasian National University. - Head of the Engineering Laboratory for the Development of Track Membrane Technologies

01.2006-12.2007 - Institute of Physics and High Technologies at L.N. Gumilyov ENU. - Junior Research

09.2007-04.2009 - Space Monitoring Center of the National Center for Space Research and Technology - leading specialist.

05.2009-12.2009 - DSE "Institute of Nuclear Physics" NNC RK -

Junior Researcher, Laboratory of Solid State Physics.

01.2010-01.2013 - DSE "Institute of Nuclear Physics" NNC RK -

head of the Astana branch.

01.2013-present - RSE "Institute of Nuclear Physics" of the Ministry of Energy of the Republic of Kazakhstan - Director of the Astana branch.

Awards: Laureate of the State Youth Prize "Daryn" of the Government of the Republic of Kazakhstan in the nomination "Science" (2010)

Honored Worker of the Nuclear Industry of the Republic of Kazakhstan, has a badge of the III degree

Prize named after D.A. Kunaev for young scientists for the best work in the field of natural sciences (2016).

Awarded with a badge "For merits in the development of science of the Republic of Kazakhstan" (2017).

Delivered courses:

Certifications:

Diploma of the Minister of the Ministry of Education and Science of the Republic of Kazakhstan for the successes achieved on the path of spiritual development of independent Kazakhstan and a huge contribution to its prosperity (2009)

Awarded by Springer Nature as the most published and cited RK scientist in science and technology.

Recognized as "Scientist of the Year" for a special contribution to science, according to Elsevier 2018.

Publications (selection):

1) Kaniukov E. Y. et al. Structure and magnetic properties of FeCo nanotubes obtained in pores of ion track templates //Nano-Structures & Nano-Objects. – 2021. – T. 26. – C. 100691. Kaniukov E. Y. et al. Structure and magnetic properties of FeCo nanotubes obtained in pores of ion track templates //Nano-Structures & Nano-Objects. – 2021. – T. 26. – C. 100691.

2) Tuleushev A. Z. et al. Assessment of the Irradiation Exposure of PET Film with Swift Heavy Ions Using the Interference-Free Transmission UV-Vis Transmission Spectra //Polymers. – 2021. – T. 13. – №. 3. – C. 358.

3) Vorobjova A. et al. The influence of the synthesis conditions on the magnetic behaviour of the densely packed arrays of Ni nanowires in porous anodic alumina membranes //RSC Advances. – 2021. – T. 11. – №. 7. – C. 3952-3962.

4) Zdorovets M. et al. The effect of doping of TiO₂ thin films with low-energy O²⁺ ions on increasing the efficiency of hydrogen evolution in photocatalytic reactions of water splitting //Journal of Materials Science: Materials in Electronics. – 2020. – T. 31. – №. 23. – C. 21142-21153.

5) Yakimchuk D. V. et al. Morphology and Microstructure Evolution of Gold Nanostructures in the Limited Volume Porous Matrices //Sensors. – 2020. – T. 20. – №. 16. – C. 4397.