

Curriculum Vitae

Mr. Denis Petrukhin

Research and Educational Center
“Smart Materials and Biomedical Applications”
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Smart Materials &
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About me

Date of Birth: 24/03/2000
Place of Birth: Petropavlovsk-Kamchatsky, Russia
ORCID: 0009-0004-3585-1005
Web of Science
Researcher ID: JFS-3627-2023

Education

2018–2022
Bachelor Student
Kaliningrad State Technical University (KSTU), direction 19.03.01
«Biotechnology»
Supervisor: PhD in Engineering, Associate Professor of the Department of
Biotechnology Natalia Klyuchko

2022 –2024
Master Student
IKBFU, Institute of High Technologies; direction 04.03.02 «Physics»,
master program «Functional nanomaterials and advanced technologies».
Title of Master Thesis «Nanostructured and composite materials based
on bismuth ferrite: synthesis, structural and magnetic properties».
Supervisor: PhD in physics A. Omelyanchik

Employment

17.10.2022 – 15.11.2022 Laboratory researcher
IKBFU, Laboratory of Composite Materials REC Smart Materials and
Biomedical applications.

01.08.2023 – 22.12.2023 Laboratory researcher
IKBFU, Laboratory of Composite Materials REC Smart Materials and
Biomedical applications.

Grants

17.10.2022 – 15.11.2022 Laboratory researcher
RSF 22-72-10137 «New composite multiferroic materials based on
magnetically active elastomers and piezoelectric components».

01.08.2023 – 22.12.2023 Laboratory researcher
RSF 21-72-30032 «Development and research of multimaterials with
magnetic nanocomponents for additive 3d-5d technologies».

Internships

- 17.10.2022-30.10.2022 Magnetism Department of M.V. Lomonosov Moscow State University (Moscow, Russia) under the supervision of Prof. N. Perov (performing a laboratory workshop);
- 05.09.2023-20.12.2023 Magnetism Department of M.V. Lomonosov Moscow State University (Moscow, Russia) under the supervision of Prof. N. Perov (internship with the possibility of listening to special courses);
- 12.09.2023-05.10.2023 Magnetism Department of M.V. Lomonosov Moscow State University (Moscow, Russia) under the supervision of Prof. N. Perov; NUST MISIS laboratory of biomedical applications (Moscow, Russia) under the supervision of engineer A. Nikitin (functionalization and modification of BiFeO₃ and CoFe₂O₄ nanoparticles);

Conferences

- 14.08.2022-20.08.2022 SCIS 2022 (Smart Composites International School), as participant.
- 11.05.2023-11.05.2023 ScienceMic 2023 (scientific and practical conference of schoolchildren), as organizer.
- 28.05.2023-31.05.2023 II Scientific seminar «Mathematical and computer modeling of the properties of soft magnetic materials: from theory to experiments and applications», as participant-listener.
- 03.07.2023-07.07.2023 ASAM-8 (Asian Symposium on Advanced Materials), as participant; flesh-presentation: «Effect of bismuth ferrite concentration on structural properties of PVDF-based composites».
- 13.08.2023-19.08.2023 SCIS 2023 (Smart Composites International School) as participant; poster «Effect of bismuth ferrite nanoparticle concentration on the magnetic and structural properties of PVDF-based composites».
Prize: **best poster presentation**.
- 20.08.2023-24.08.2023 IBCM (V International Baltic Conference on Magnetism), as participant; poster: «Effect of bismuth ferrite nanoparticle concentration on the magnetic and structural properties of PVDF-based composites».

Research interests

Polymer composites, inorganic and organic chemistry; functionalization, and modification of nanoparticles.