

Vitaliy Romanenko

CONTACT INFORMATION

Adresas Akademijos Str. 2, Vilnius LT-08412, Lithuania
Tel. Nr.: +370 52104703
El. paštas: vitaliy.romanenko@gamtc.lt
<https://orcid.org/0000-0002-5679-0705>

EDUCATION AND ACADEMIC DEGREE

2019 – 2023 PhD in Natural Sciences, Physics (N002). Vilnius University.
Defended thesis: "“The study of anthropogenic radionuclide transport in the system Neman River – Baltic Sea”".

2013 – 2015 Master ‘s graduate in Physical Sciences. Shakarim State University of Semey, Kazakhstan, faculty of Engineering and Technology. Technical physics.

2004 – 2008 Bachelor graduate in Physical Sciences. Shakarim State University of Semey, Kazakhstan, faculty of Engineering and Technology. Technical physics.

PROFESSIONAL EXPREIENCE

2023 – until now **Junior researcher**
Laboratory of Nuclear Geophysics and Radioecology, Nature Research Centre.

2019 – 2023 PHD student at Center for Physical Sciences and Technology.

2010 – 2019 **Team leader**
Institute of Radiation Safety and Ecology of National Nuclear Center, Kurchatov, Kazakhstan.

2008 – 2010 **Engineer**
Institute of Atomic Energy of National Nuclear Center, Kurchatov, Kazakhstan.

RESEARCH INTERESTS

The analysis of the distribution and transport of radionuclides in terrestrial and aquatic ecosystems using experimental nuclear and radiochemical methods to assess exposure risks to both humans and ecosystems.

PUBLICATIONS

1. Short review of plutonium applications for the sediment transport studies. Journal of Environmental Radioactivity. <https://doi.org/10.1016/j.jenvrad.2022.107066>.
2. Distribution of ²⁴¹Am and Pu isotopes in the Curonian Lagoon and the south-eastern Baltic Sea seawater, suspended particles, sediments and biota. Journal of Environmental Radioactivity. <https://doi.org/10.1016/j.jenvrad.2022.106892>.

3. Assessment of the input of particulate $^{239,240}\text{Pu}$ and ^{137}Cs from the Neman River into the Curonian Lagoon. Lithuanian Journal of Physics. Lithuanian Journal of Physics, 64(2). <https://doi.org/10.3952/physics.2023.63.2.6>.
4. Development of measures for limiting negative impacts of the «Atomic» lake on population and environment. Journal of Environmental Radioactivity 223-224 (2020) 106389. <https://doi.org/10.1016/j.jenvrad.2020.106389>.
5. Radiation survey findings of Kalachi village in Akmolinsk region. NNC RK Bulletin, Issue 4.2017.
6. Present thermal regime of lake Atomic (Semipalatinsk test site) - Russian Geology and Geophysics 58 (2017) 864–867. <https://doi.org/10.1016/j.rgg.2017.06.009>.
7. Possibility assessment of determination of the place of the underground nuclear tests by means of artificial radionuclides presence in groundwater within STS. CTBT: Science and Technology 2017 //Vienna, Austria, 26-30 June 2017.

PARTICIPATION IN INTERNATIONAL AND NATIONAL SCIENTIFIC PROGRAMMES AND PROJECTS

2018 – 2019 ISTS project – #K2160. Assessment of ecological risk of excavation nuclear tests: “Chagan” underground nuclear test at Semipalatinsk Test Site, the Republic of Kazakhstan, Analysis of the problem. Position: main assistant of project manager.

INTERNSHIP AND TRAINING

- 2017 “Basic theoretical GC and GC-MC training and laboratory practical training for Tridion-T-9 instrument and Chromion software”. Abacus Analytical Systems GmbH (representor for the GC-MC Torion – Perkin Elmer) Russia, Moscow, April 10-13, 2017.
- 2016 IAEA courses: “Regional training course on occupational radiation protection programs and safety culture”. Lithuania, Vilnius, May 30 - June 3, 2016.
- 2015 IAEA courses: “Regional training course on technology 2: remediation design and long-term performance assessment”. Austria, Vienna, April 13-17, 2015.
- 2013 Actions in emergencies: “Preparedness for radiological accidents”. As part of the agreement "Training in the field of peaceful uses of atomic energy" between the Kazakh National University. Al-Farabi, the National Nuclear Center and the Japanese Atomic Energy Agency. Kazakhstan, Kurchatov, September 9-13, 2013.

PARTICIPATION IN SCIENTIFIC CONFERENCES

Vitaliy Romanenko, Galina Lujanienė, $^{239,240}\text{Pu}$ balance in the Curonian Lagoon, 44th National Lithuanian physics conference (LNFK), 6-8th of October, 2021, Vilnius, Lithuania, poster presentation.

Vitaliy Romanenko, Galina Lujanienė, Sergej Šemčuk, Raman Novikau, Jonas Mažeika, Olga Jefanova, The study of radionuclides levels in the suspended particulate matter of the Neris River, 64th International Conference for Students of Physics and Natural Sciences „Open Readings 2021“, 16-19th of March, 2021, Vilnius, Lithuania, poster presentation.

Vitaliy Romanenko, Galina Lujanienė, Sergej Šemčuk, Jonas Mažeika, Olga Jefanova, The estimation of anthropogenic radionuclides levels in the Curonian Lagoon due to the increasing environmental risk, Conference of Doctoral Students and Young Researchers FizTech (FizTech2021), 20 – 21th October 2021, Vilnius, Lithuania, oral presentation.

Vitaliy Romanenko, Galina Lujanienė, Sergej Šemčuk, Raman Novikau, Jonas Mažeika, Olga Jefanova, Assessment of radionuclide input into the Curonian Lagoon by suspended matter, international conference on radiation in various fields of research (RAD2020), 25-29th July, 2022, Herceg Novi, Montenegro. Poster.

Vitaliy Romanenko, Galina Lujanienė, Sergej Šemčuk, Jonas Mažeika, Olga Jefanova, Investigation of the transport of $^{239,240}\text{Pu}$ and ^{137}Cs in the water system Curonian Lagoon – Neman River, Conference of Doctoral Students and Young Researchers FizTech (FizTech2022), 19-20th October 2022, Vilnius, Lithuania, oral presentation.