

	<p>SERGIENKO, Olga I. Candidate of Technical Sciences</p>
<p>Research interests</p>	<ul style="list-style-type: none"> ✓ Implementation of the principles of the best available techniques and cleaner production ✓ Life cycle assessment of new materials, products, and services ✓ Environmental, social and economic aspects of the life cycle of alternative energy technologies and environmental protection technique
<p>List of the supervisor's research projects</p>	<ul style="list-style-type: none"> ✓ Life cycle assessment of products at aluminum industry enterprises using calculation models that correspond to the world practice (supervisor) ✓ Crea-RE-RU; joint research on resource efficiency in Sweden and Russia (supervisor) ✓ Erasmus+ program "Development of competencies in the field of sustainable waste management in universities in Russia and Kazakhstan/EduEnvi" project (supervisor) ✓ Resource-saving environmentally friendly biotechnology of functional and specialized products based on advanced processing of food raw materials (participant) ✓ Project preparation: Research on resource efficiency as a tool of a circular economy (LARELICE-P) (supervisor)
<p>List of potential thesis topics</p>	<ul style="list-style-type: none"> ✓ Life cycle assessment of innovative materials, products and services ✓ Social and environmental life cycle assessment of environmental protection technique and energy technologies
<p>Publications in the last five years (Scopus / Web of Science / RSCI)</p>	<p>24</p>
<p>Key publications</p>	<ol style="list-style-type: none"> 1. Sergienko O.I., Rakhmanov Yu.A., Kuznetsova K.G., Kurnikova N.V. New energy and resource-saving processes in the circular economy: scientific and educational publication//ITMO University, St. Petersburg, 2023 .–129 p. (in Russian) 2. Miniakhmetova A.V., Sergienko O.I., Ilina V.S., Lepeshkin A.I., Baranenko D.A. A comparative life cycle assessment of phytosterol and meadowsweet (<i>Filipendula ulmaria</i>) oncoprotective functional food ingredients//Food Bioscience, 2022, Vol. 50, pp. 102076 3. Sergienko O.I., Dmitrieva A.P., Agakhanants P., Tereshchenko O., Yulmetova R., Ulyanov N.B. Environmental innovations in the construction of social infrastructure facilities in agricultural holdings//IOP Conference Series: Earth and Environmental Science, 2021, Vol. 852, No. 1, pp. 012093

	<p>4. Savoskula V.A., Pavlova A.S., Sergienko O.I., Vdovina I.O., Pichugina K.A., Kalashnikova L.I. Environmental assessment of energy efficient and energy saving technologies//IOP Conference Series: Earth and Environmental Science, 2021, Vol. 866, No. 1, pp. 012027</p> <p>5. Rakhmanov Y.A., Sergiyenko O., Dmitrieva A.P. Heat recovery of waste gases in thermal-oxidative waste disposal systems using gas turbine techniques // IOP Conference Series: Earth and Environmental Science - 2020, Vol. 613, No. 1, pp. 012118</p>
Supervisor's specific requirements	<ul style="list-style-type: none"> ✓ Knowledge and experience with life cycle assessment software ✓ Knowledge and experience with environmental protection technology
Code of the subject area of the PhD program	<p>1.5.15 Ecology</p> <p>1.6.21 Geoecology</p>