



ZAKHARCHENKO ELINA

15.09.1974

Citizenship: Ukraine

Contact information *

Business address - Sumy National Agrarian University, 160, H. Kondratieva Str., Sumy, Sumy district (Ukraine), 40021

E-mail – elionapolis@gmail.com

https://agro.snau.edu.ua/kafedri/kafedra-agrotehnologii_ta_gruntoznavstva/sklad-kafedri/14955-2/

Personal profiles in scientometric databases*

ID Scopus -
<https://www.scopus.com/authid/detail.uri?authorId=57220962159>

ID Web of Science - V-4595-2018

Publons - ABD-7322-2020

Mendeley - <https://www.mendeley.com/profiles/olha-bakumenko/>

ORCID – <https://orcid.org/0000-0003-1625-7401>

Scholar google -
https://scholar.google.com.ua/citations?view_op=list_works&hl=ru&user=I7pkfqgAAAAJ

Education *

1. Kharkiv National Agrarian University, Kharkiv (Ukraine), 28.12.1995, Specialist degree, speciality 'Agronomy', qualification – Agrochemistry and Soil Science, Diploma КД 901208

2. Kharkiv National Agrarian University, Kharkiv (Ukraine), 04.1998 – finishing of PhD education program, speciality "Agrochemistry".





	<p>3. Ivano-Frankivsk National Technical University of Oil and Gas, 31.05.2024, Master's degree, speciality "Geodesy and Land Management", diploma M24 068464, Educational Program "Geoinformation Systems and Technologies"</p> <p>4. Bogdan Khmelnytsky Melitopol state pedagogical university, 30.06.2025, specialty "Philology", specialization "Germanic languages and literatures (including translation), primary English", diploma B25 033684.</p>
Academic degree *	<p>Candidate (Doctor of Philosophy) of Agricultural Sciences from 11.04.01, Institute of Soil Science and Agrochemistry named by Sokolovskiy O.N, Kharkiv, 06.01.04 - Agrochemistry, DK № 010271</p>
Academic title *	<p>Associate Professor of the Department of Agrotechnologies and Soil Science, Sumy National Agrarian University</p>
Professional work experience *	<p>24.04.2001-09.02.2002, Chief Agronomist of the Group of Seed Growers, Department of Agriculture and Food Production of the Kharkov Regional State Administration</p> <p>18.03.2002-16.08.2002, Senior Researcher, Laboratory of Agriculture, Sumy Institute of Agricultural Production, 1 Zelena str., village Sad, Sumy region, Ukraine, 42343</p> <p>17.08.2002-31.12.2002 Head of Agricultural Chemistry Department, Sumy Institute of Agricultural Production, 1 Zelena str., village Sad, Sumy region, Ukraine, 42343</p> <p>01.01.2003-03.09.2004 Scientific Secretary, Sumy Institute of Agricultural Production, 1 Zelena str., village Sad, Sumy region, Ukraine, 42343</p> <p>04.09.2004 till now Ass. Prof. of the Agrotechnologies and Soil Science Department, Faculty of Agrotechnologies and Natural Resource Management, Sumy National Agrarian University, 160, G. Kondratieva Str., 40021, Sumy (Ukraine)</p> <p>Teaching courses for students on specialities "Agronomy", "Forestry", "Ecology" – "Soil Science with Fundamentals of Geology" for BSc; "Managing Global Soils in a Changing Climate" for MSc, double diploma with the Royal Agricultural University; "Agrochemistry" for PhD students.</p>
Main research activities	
Participation in collective research projects	<p>Monitoring of land affected by hostilities for agricultural production, State Registration, No 0125U002368, 2025-2026 (member of the team).</p> <p>War-Polluted Soil: Recovery and Remediation. 2025-2026, Sumy National Agrarian University (UA), Royal Agricultural University, DEFRA (UK), member of the team</p> <p>https://snau.edu.ua/science/ndch/tematichni-naukovi-</p>





[doslidzhennja/naukovi-doslidzhennja-i-rozrobki-za-mizhnarodnimi-dogovorami/ocinka-shkodi-silskogospodarskim-ugiddjam-ta-ekosistemi-pivnichno-shidnoi-ukraini-vid-rosijskogo-vtorgnennja/](#)

Co-executor of the project "Syngenta Customer Sampling" for the development of remediation methods. 01.06.2024-31.10.2024 (look for our last publication 2025

<https://library.syngenta.in.ua/books/uzfs/#p=1>

Assessment of Damage to Agricultural Lands and Ecosystems of Northeastern Ukraine Resulting from the Russian Invasion (Sumy National Agrarian University with Royal Agricultural University Project), 2023-2024

Training of experts to assess soils damaged due to hostilities 13.11 – 13.12.2023. <https://soil-expert.snau.edu.ua/en/>

From the Theoretical-Practical training in Agrarian Studies / TOPAS project» Erasmus+ 585603-EPP-1-2017-1-DE-EPPKA2-CBHE-JP, 2018-2019

**Individual research projects
(which have received funding
on a competitive basis from a
third party)**

**(no more than 5 positions in
the last 10 years)**

Effectiveness of cover crops in organic Ginkgo biloba plantations, 29.09.2022-27.11.2022, 33500 kr, Czech Republic
<https://agro.snau.edu.ua/naukovci-otrimali-minigrant/>

Impact of organic fertilizers from biogas plants on microbiological, physical and chemical properties of soil and crop growth, 1.12.2021-1.10.2022, Czech Republic. <https://agrisci-ua.com/impact-of-organic-fertilizers-from-biogas-plants-on-microbiological-physical-and-chemical-properties-of-soil-and-crop-growth/>

Main scientific achievements

Published scientific papers*

Zhang X., Zakharchenko E., Tang J., Tan N.P., Yaroshchuk R., Kravchenko N., Mozharivska I.(2025). Effects of biogas slurry on the nutrient content and soil enzyme activity of lime concretion black soil. *Advances in Biology and Earth Sciences*. Vol.10, No.3, 362-380.
<https://doi.org/10.62476/abes.103362> Scopus Q1

Datsko O., Melnyk O., Kovalenko I., Butenko A., Zakharchenko E., Ilchenko V., Onychko V., Solokha, M. (2025). Estimation of the content of trace metals in Ukrainian military-affected soils. *Notulae Botanicae Horti Agrobotanici Cluj-Napoca*, 53(1), 14328.
<https://doi.org/10.15835/nbha53114328> Scopus Q2

Zakharchenko E., Klymenko O., Trotsenko V., Kravchenko N., Kliuchevych M., Mozharivska I., Kyrlychuk K., Datsko O., Toryanik V., Hnitetskyi M.,





Stavytskyi A., Kotiuk R. Monitoring and restoration of soils (agrocenoses) in the border regions of the North-Eastern Forest-Steppe of Ukraine: challenges and prospects. *Modern Phytomorphology*, 19, 310-315. DOI: 10.5281/zenodo.17349579 WoS Q4

Datsko O., Zakharchenko E., Butenko Y., Melnyk O., Kovalenko I., Onychko V., Ilchenko V., Solokha M. (2024). Ecological Assessment of Heavy Metal Content in Ukrainian Soils. *Journal of Ecological Engineering*, 25(11), 100-108. <https://doi.org/10.12911/22998993/192669> Scopus Q2

Zakharchenko E., Datsko O., Butenko S., Mishchenko Y., Bakumenko O., Prasol V., Dudka A., Tymchuk N., Leshchenko D., Novikova A. (2024). The Influence of Organic Growing of Maize Hybrids on the Formation of Leaf Surface Area and Chlorophyll Concentration. *Journal of Ecological Engineering*, 25(5), 156-164. <https://doi.org/10.12911/22998993/186162> Scopus Q2

Hryhoriv Y., Butenko A., Solovei H., Filon V., Skydan M., Kravchenko N., Masyk I., Zakharchenko E., Tykhonova O., Polyvanyi A. Study of the impact of changes in the acid-base buffering capacity of surface sod-podzolic soils. 2024. *Journal of Ecol. Eng.*, 25(6). P. 73-79. <https://doi.org/10.12911/22998993/186928> Scopus Q2

Mishchenko, Y., Kovalenko, I., Butenko, A., Danko, Y., Trotsenko, V., Masyk, I. Zakharchenko E., Hotvianska A., Kyrsanova G., Datsko, O. (2022). Post-Harvest Siderates and Soil Hardness. *Ecological Engineering & Environmental Technology*, 23(3), 54-63. Scopus Q3 <https://doi.org/10.12912/27197050/147148>

Dindaroglu T., Tunguz V., Babur E., Alkharabsheh H. M., Seleiman M.F., Roy R., Zakharchenko E. (2022). The use of remote sensing to characterise geomorphometry and soil properties at watershed scale. *Int. J. Global Warming*, Vol. 27, No. 4, 2022. 402-421. Scopus Q4, WoS – SCIE

Zanella, A.; Ponge, J.-F.; Jabiol, B.; Van Delft, B.; De Waal, R.; Katzensteiner, K.; Kolb, E.; Bernier, N.; Mei, G.; Blouin, M.; Juilleret, J.; Pousse, N.; Stanchi, S.; Cesario, F.; Le Bayon, R.-C.; Tatti, D.; Chersich, S.; Carollo, L.; Englisch, M.; Schrötter, A.; Schaufler, J.; Bonifacio, E.; Fritz, I.; Sofu, A.; Bazot, S.; Lata, J.-C.; Iffly, J.-F.; Wetzler, C.E.; Hissler, C.; Fabiani, G.; Aubert, M.; Vacca, A.; Serra, G.; Menta, C.; Visentin, F.; Cools, N.; Bolzonella, C.; Frizzera, L.; Zampedri, R.; Tomasi, M.; Galvan, P.; Charzynski, P.; Zakharchenko, E.; Waez-Mousavi, S.M.; Brun, J.-J.; Menardi, R.; Fontanella, F.; Zaminato, N.; Carollo, S.; Brandolese, A.; Bertelle, M.; Zanella, G.; Bronner, T.; Graefe, U.; Hager, H. A (2022). Standardized Morpho-Functional Classification of the Planet's Humipedons. *Soil Syst.*, 6, 59. Scopus Q1, WoS-ESCI <https://doi.org/10.3390/soilsystems6030059>

Lopushniak, V., Hrytsuliak, H., Gamayunova, V., Kozan, N., Zakharchenko, E., Voloshin, Lopushniak H., Polutrenko M.,





Kotsyubynska, Y. (2022). A Dynamics of Macro Elements Content in Eutric Podzoluvisols for Separation of Wastewater under Jerusalem Artichokes. *Journal of Ecological Engineering*, 23(4), 33-42. Scopus Q3, WoS-ESCI <https://doi.org/10.12911/22998993/146268>

Kharchenko O., Zakharchenko E., Kovalenko I., Prasol V., Pshychenko O., Mishchenko Y. On problem of establishing the intensity level of crop variety and its yield value subject to the environmental conditions and constraints. *AgroLife Scientific Journal Volume 8, University of Agronomic Sciences and Veterinary Medicine of Bucharest. No. 1, 2019. P. 113-120. WoS 4*

And others

Presentation of scientific results

Reports at scientific conferences* (seminars, symposia, etc.)

Main meetings:

Panel Discussion – Regenerative Agriculture: Soil, Moisture, and the Economics of Transition, Conference “Profitable Field”, February 19, 2026, Kyiv, Ukraine <https://www.conference.agrilab.ua/>

Panel discussion «Landmines and Ecosystem restoration 30.10.2025 online <https://boku.ac.at/en/event/details/87468>

Oral presentation - Meeting with Business on the Topic “Environmental Consequences of War: Soil Degradation and Contamination” (Luhansk Regional Military Administration), October 30, 2025 <https://agro.snau.edu.ua/prijnyato-uchast-v-onlajn-zustrichi-z-biznesom-na-temu-ekologichni-naslidki-vijni-degradaciya-ta-zabrudnennya-gruntiv/>

NSC ISSAR Conference “Soil Health as a Component of the Strategy of a Unified Health of Society”, panel oral presentation 3 December 2025, Kharkiv

Scientific Seminar “Assessment of Soil Damage and Contamination in Ukraine Resulting from Military Activities”, SNAU <https://agro.snau.edu.ua/naukovi-chitannya-na-kafedri-agrotekhnologij-ta-%d2%91runtoznaustva/2025>

4th International multidisciplinary conference for young researchers (MCYR); Energy, Sustainability; Society; 5.-6. October 2023; Prague, Czech Republic (2 oral presentations)

Oral presentation «20 farms with different level of damages and contamination», Workshop BFH HAFL 23 May, 2023, Revitalising Ukraine's North-Eastern Farmland and Ecosystems: An Assessment of War-Induced Damage and Strategies for Soil Decontamination, Cirencester, UK

Oral presentation «Ukraine -> This Is How We Face Climate Change», Webinar "HUMUSICA 2022 - Soil, Society and Climate Warming"





	<p>https://agro.snau.edu.ua/uchast-u-mizhnarodnomu-seminari-humusica-2022/ https://www.iufro.org/fileadmin/material/science/divisions/div8/80203/webinar-humusica22-programme.pdf</p> <p><i>International conference "Eastern European Chernozems - 140 Years after V. Dokuchaev" 2-3.10.2019, Moldova, Chisinau, oral presentation</i></p> <p><i>International conference "Space Solutions for Sustainable Agriculture and Precision Farming" conference, 7-8.05.2019, Cluj Napoca, Romania</i></p> <p><i>International Conference "Soil Classification and Education", Toruń, Poland, 19.05.2018, oral presentation</i></p> <p><i>International conference 10-13.09.2017. "Degradation and revitalization of soil and landscape", Palacky University in Olomouc, Czech Republic, oral presentation</i></p> <p><i>And others</i></p>
<p>MAIN RESEARCH ACHIEVEMENTS (patents, copyright certificates, internships, etc.)</p>	<p><i>Method of selecting and preparing soil samples for determining the concentrations of chemical elements 161259, u202501928</i> https://sis.nipo.gov.ua/en/search/detail/1886298/</p> <p><i>Patent of Ukraine for invention 128378 "Method Of Pre-Sowing Seed Inoculation" dated 06/27/2024</i> https://sis.nipo.gov.ua/uk/search/detail/1806462/128378,a202200083</p>
Scientific and organisational activities	
<p>Scientific editing (compilation) of scientific publications (no more than 5 positions for the last 10 years)</p>	<p><i>Member of the editorial board of the journal "Bulletin of Sumy National Agrarian University. Agronomy and Biology Series" since 2008, category B, Ukraine</i></p> <p><i>Member of the editorial board of the "Scientific and Technical Bulletin of the Institute of Oilseed Crops NAAS" 2026, category B, Ukraine</i></p> <p>https://bulletin.imk.zp.ua/index.php?menu=32&lang=ua</p>
Teaching activity	
<p>Main author's training courses in higher education institutions (developed on the basis of own research)</p>	<p><i>Agroecological fundamentals of fertilization, Msc degree, SNAU, 120 hours., 2019-2022</i></p>





Major author's methodological developments (textbooks, manuals, teaching materials, curricula for higher education)	<p><i>Agroecological fundamentals of fertilization: textbook. For English-speaking students of 1 st year of study, master's degree, specialities: 206 "Landscaping» and 201 "Agronomy". Sumy: SNAU, 2022. 80 p.</i></p> <p><i>Захарченко Е.А. Managing Global Soils in a Changing Climate: course of lectures, 201 Agronomy, for Master degree students, specialty "Agronomy" 201 Agronomy, for Master degree students, specialty. Суми: CHAY, 2023. 108 с.</i></p> <p><i>And others</i></p>
Supervision of scientific work (scientific supervision or consulting of dissertation research that has been successfully defended)	<p><i>Datsko O.M. Diploma of Doctor of Philosophy. Diploma number H24001860, issued on 21.02.2024, Sumy National Agrarian University (supervisor)</i></p> <p><i>Zhang Xihuan. PhD. Diploma of Doctor of Philosophy. Diploma number H24 002211, issued on 19.04.2024, Sumy National Agrarian University (supervisor)</i></p>
Expert activity	
Participation in expert councils	<p><i>Collective member of the Technical Committee for Standardization TC 142 "Soil Quality", National Scientific Center "Institute of Soil Science and Agrochemistry named after O.N. Sokolovsky, representative from Sumy National University, Ukraine</i></p> <p><i>Expert of the National Agency for Quality Assurance in Higher Education. National Agency for Quality Assurance in Higher Education (1 Borys Grincheno Str., Kyiv, 01001, Ukraine)</i></p>
Honours and awards	
Awards or distinctions for scientific achievements (from institutions, departments, authorities and local governments, etc.)	<p>Honorary Certificate of the Head of the Sumy Regional State Administration – for a significant personal contribution to the development of national science, outstanding results in research activities, high professionalism, active civic engagement, and on the occasion of Science Day. 2024</p> <p>Letter of Appreciation from the Minor Academy of Sciences of Ukraine (MAS), May 31, 2017 – for high professional excellence and successful preparation of winners of the All-Ukrainian interactive competition "MAS Junior Researcher"</p>
Improving scientific qualifications	
Additional professional training (trainings, summer schools, educational seminars, workshops, courses, etc. to obtain relevant scientific knowledge, skills and abilities)	<p><i>Academic mobility 10.09-10.10.2025 Laboratoire Sols et Environnement, UMR 1120 Université de Lorraine-INRAE, Vandoeuvre-lès-Nancy</i></p> <p><i>180 hours – 6 credits virtual mobility at the Czech University of Life Sciences Prague (Faculty of Tropical AgriSciences). Series of Lectures for Early-career researchers by Experts, Czech University of Life Science, Prague. 24.12.2025 UA2025/152</i></p>





Professional Development Course in "Information Support for Soil Resource Management and Measures for the Restoration of Soil Fertility and Ecological Functions", 9–13 September 2024, NSC Institute for Soil Science and Agrochemistry named after O.N. Sokolovsky, 30 hours

Advanced Training in "Developing Innovative Professional Competencies in Teaching Practice", National University of Life and Environmental Sciences of Ukraine (NUBiP), 31 October – 11 November 2022

Training course "Level up in Erasmus+", 3-10.10.2021, Guymri, Armenia, offline

«From the Theoretical-Practical training in Agrarian Studies / TOPAS project» Erasmus+ 585603-EPP-1-2017-1-DE-EPPKA2-CBHE-JP, Samarkand Agricultural Institute, Uzbekistan 2021

Counternarrativacious! Youth exchange. Marrakesh, Morocco, 28.11.2019-6.12.2019 group leader represented Ukraine

Training Course on entrepreneurship education 10th-18th June 2019 Baku / Azerbaijan "Youth resource centre for employability, entrepreneurship education and community development"

Summer school «Soil and water» Ege University, Izmir, Turkey, 9-20.08.2018

And others <https://bit.ly/3NGGv1q>

Membership in independent scientific organisations (non-institutional professional academic associations, societies, unions, unions of researchers, except for trade unions)

Member of the Public Organization "Ukrainian Society of Soil Scientists and Agrochemists" (PO "USSSA") ·

Knowledge of foreign languages

English – Level B2, Common European Framework of Reference (CEFR), Kyiv, Ukraine

I AM OPEN TO JOINT RESEARCH, SEMINARS, CONFERENCES, FIELD DAYS, SUMMER SCHOOLS, IMPLEMENTATION OF NEW PROJECTS, AND CONSULTING.

