

Valeriia BONDAR



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Personal Information

In 2001, she graduated with honours from the Faculty of Agrochemistry and Soil Science at the National Agrarian University, specialising in Ecology and Environmental Protection. In 2006, she defended her Candidate of Agricultural Sciences dissertation entitled “Ecotoxicological Assessment of Mineral Fertilizers Based on Arsenic Behaviour in Agroecosystems” at the Institute of Agroecology and Biotechnology of the National Academy of Agrarian Sciences of Ukraine. Since 14 March 2011, she has been employed as an Associate Professor at the National University of Life and Environmental Sciences of Ukraine (NUBiP of Ukraine).

Higher Education and Academic Qualifications

- Agricultural Ecologist, specialising in Ecology and Environmental Protection (2001).
- Candidate of Agricultural Sciences, speciality 03.00.16 – Ecology (2006).

Research and publication record: 76 publications, including 35 articles in specialised scientific journals and 15 scientific and methodological recommendations. Publications in Scientific Journals Indexed in International Databases, Including Scopus and Web of Science Core Collection, and in Ukrainian Professional.

Scientific Journals (Last Five Years)

1. Bondar, V., Petrenko, V., Topalov, A., Khudolii, L., & Honcharuk, Yu. (2023). Profiling and geographical distribution of seed oil content of sunflower in Ukraine. *Oil Crop Science*. Q4. <https://doi.org/10.1016/j.ocsci.2023.05.002>
2. Kosovska, N., Makarenko, N., Bondar, V., Matviikiv, A., & Symochko, L. (2022). Soil microbiome under the influence of nano and biopreparations. *International Journal of Ecosystems and Ecology Science (IJEES)*, 12(3), 1–8. Web of Science, Q4. <https://doi.org/10.31407/ijeess12.3>
3. Makarenko, N., Bondar, V., Makarenko, V., & Symochko, L. (2021). Zinc deficiency in soils of Ukraine: Possible causes and regulatory mechanisms. *International Journal of Ecosystems and Ecology Science (IJEES)*, 11(4), 857–866. Web of Science, Q4. <https://doi.org/10.31407/ijeess11.4>
4. Makarenko, N., Bondar, V., Makarenko, V., & Symochko, L. (2020). Nanoagrochemicals: Ecotoxicological risk assessment. *International Journal of Ecosystems and Ecology Science (IJEES)*, 10(1), 87–98. Web of Science, Q4. <https://doi.org/10.31407/ijeess10.1>
5. Makarenko, N., & Bondar, V. (2020). Winter wheat growing in Ukraine: Ecological assessment of technologies by their influence on soil fertility. *Acta Agriculturae Slovenica*, 115(1), 67–78. Scopus, Q3. <https://doi.org/10.14720/aas.2020.115.1.7>
6. Makarenko, N., Bondar, V., Makarenko, V., & Symochko, L. (2020). Factors affecting mobility of zinc in soils of Ukraine. *International Journal of Ecosystems and Ecology Science (IJEES)*, 10(4), 587–594. Web of Science, Q4. <https://doi.org/10.31407/ijeess10.402>
7. Bondar, V., Makarenko, N., & Symochko, L. (2019). Lead mobility in the soil of different agroecosystems. *International Journal of Ecosystems and Ecology Science (IJEES)*, 9(4), 709–716. Web of Science, Q4. <https://doi.org/10.31407/ijeess94>

Publications in Ukrainian Professional Scientific Journals

1. Bogoliubov, V. M., Klepko, A. V., Bondar, V. I., & Naumovska, O. I. (2023). A model for the functioning of rural areas based on sustainable rural development. *Environmental Sciences*, No. 3(48). <https://doi.org/10.32846/2306-9716/2023.eco.3-48.2>
2. Bogoliubov, V. M., Klepko, A. V., Bondar, V. I., & Naumovska, O. I. (2023). Assessing the transition of rural communities towards sustainable development. *Acta Carpathica*, No. 1. <https://doi.org/10.32782/2450-8640.2023.1.10>
3. Bogoliubov, V. M., Klepko, A. V., Bondar, V. I., & Naumovska, O. I. (2023). Ensuring access to safe drinking water for rural populations in the context of achieving the Sustainable Development Goals. *Biological Systems: Theory and Innovation*, 14(1–2). <https://doi.org/10.31548/biologiya14>
4. Strokal, V., Berezhniak, Y., Vahaliuk, L., Bondar, V., Naumovska, O., Ladyka, M., Pavliuk, S., Palamarchuk, S., & Serbeniuk, H. (2023). Natural resources of Ukraine: Consequences and risks of Russian aggression, challenges for assessment. *Biological Systems: Theory and Innovation*, 14(3–4).
5. Makarenko, N., Strokal, V., Berezhniak, Y., Bondar, V., Pavliuk, S., Vahaliuk, L., Naumovska, O., Ladyka, M., & Kovpak, A. (2022). The impact of Russian military aggression on Ukraine's natural resources: Situation analysis and assessment methodology. *Scientific Reports of NULES of Ukraine*, No. 4(98). <https://doi.org/10.31548/dopovidi2022.04.003>
6. Bondar, V., & Makarenko, N. (2019). The influence of winter wheat cultivation technologies on lead accumulation and translocation processes. *Bioresources and Nature Management*, 11(1–2). <https://doi.org/10.31548/bio2019.01.005>
7. Bondar, V., & Makarenko, N. (2018). A method for assessing winter wheat cultivation technologies in terms of their impact on soil fertility. *Bioresources and Nature Management*, No. 5–6. <https://doi.org/10.31548/bio2018.05.016>

Textbooks, Study Guides and Monographs

1. Rakoid, O. O., Bogoliubov, V. M., Klepko, A. V., & Bondar, V. I. (2023). *Environmental Monitoring. Textbook*. Kyiv: NULES of Ukraine, 332 pp. (English-language edition).
2. Rakoid, O. O., Klepko, A. V., & Bondar, V. I. (2023). *Social Ecology. Textbook for Bachelor's Degree students specialising in Ecology (101)*. Kyiv: NULES of Ukraine, 209 pp. (English-language edition).
3. Piskunova, L. E., Bondar, V. I., & Zubok, T. O. (2022). *Occupational Safety and Life Safety. Study guide, second revised and expanded edition*. Kyiv: Komprint Publishing

Centre, 386 pp.

https://nubip.edu.ua/sites/default/files/u243/piskunova_l.e_bondar_v.i._zubok_t.o._posibnik_2022.pdf

4. Piskunova, L., & Bondar, V. (2020). Labor Safety and Life Protection. Study guide. Kyiv: Publishing and Editorial Department of NULES of Ukraine, 306 pp.

https://nubip.edu.ua/sites/default/files/u243/piskunova_l._bondar_v.pidruchnik_2020.pdf

5. Makarenko, N. A., Bondar, V. I., & Rudnytska, L. V. (2020). Nanotechnologies in Crop Production. Collective monograph, chapter: “Ecotoxicological Aspects of the Application of Nanotechnologies in Crop Production.” Kyiv: Agrarian Science.

Teaching and Methodological Publications

1. Rakoid, O. O., Klepko, A. V., & Bondar, V. I. (2023). General Ecology. Teaching and methodological guide for Bachelor’s Degree students in Geodesy and Land Management (193). Kyiv: Publishing Centre of NULES of Ukraine, 116 pp. 2. Piskunova, L., & Bondar, V. (2019). Workbook for the Course “Labor Safety and Vital Activity” for Students of English-Language Groups. Kyiv: Komprint Publishing Centre, 202 pp.

3. Piskunova, L., & Bondar, V. (2018). Occupational Safety and Health for Students of English-Language Groups. Kyiv: Komprint Publishing Centre, 102 pp.

Research Project Leadership and Participation

1. **Research Project Contributor:** Research project under Contract No. 221/0188, “Scientific Substantiation for the Return of Radioactively Contaminated Lands in Zone 2 of the Chernobyl Nuclear Power Plant Exclusion Zone, Withdrawn from Economic Use, to Enhance Ukraine’s Food Production Capacity” (State Registration No. 0123U105253), 2023–2024. Funding: National Research Foundation of Ukraine grant.

2. **Scientific Supervisor of an Initiative Research Project:** “Scientific Substantiation of a Methodology for the Environmental Assessment of Crop Production Technologies” (State Registration No. 0116U001885), National University of Life and Environmental Sciences of Ukraine, 2015–2023. Institution- initiated research.

3. **Research Project Contributor:** “Biotechnology for the Identification and Control of Bacterial Pathogens of Solanaceous Crops to Address the Food Crisis in Ukraine.” National University of Life and Environmental Sciences of Ukraine, 2023. Funding: Ministry of Education and Science of Ukraine.

4. **Research Project Contributor:** “Assessment of the Structure and Diversity of the Microbial Metagenome of Typical Chernozem and Investigation of the Ecological and

Biological Mechanisms Underlying the Formation of Its Functional Characteristics” (State Registration No. 0117U002544), National University of Life and Environmental Sciences of Ukraine, 2017–2019. Funding: Ministry of Education and Science of Ukraine.

<https://nrat.ukrintei.ua/searchdoc/0220U100339/>

5. Research Project Contributor: “Cellulose-Decomposing Activity of Soil Microflora in the Ukrainian Polissia under Radioactive Contamination and Its Role in Soil Formation Processes, Including Pyrogenically Transformed Soils” (State Registration No. 0120U104939), 2020–2021. Funding: National Research Foundation of Ukraine grant.

6. Participation in the Certification of Research Personnel Academic Secretary of Specialised Academic Council D 26.004.02 at the National University of Life and Environmental Sciences of Ukraine, authorised to consider and conduct dissertation defences for the degrees of Doctor and Candidate of Agricultural Sciences in the specialities 03.00.20 – Biotechnology, 03.00.16 – Ecology, and 06.01.11 – Phytopathology. Appointment valid until 6 June 2025.

Copyright Certificates and Intellectual Property

1. Scientific work: “A Method for Determining the Suitability of Soils for Organic Production” (Ukraine). Copyright Certificate No. 75975, 2018. Authors: N. A. Makarenko, A. V. Salnikova, and V. I. Bondar. <https://clarityproject.info/person/4dda66b71ebbb5c46369363d7ae7e025>

2. Scientific work: “A Method for Assessing Nanopreparations Based on Their Effects on the Ecosystem” (Ukraine). Copyright Certificate No. 69756, 2017. Authors: N. A. Makarenko, A. V. Salnikova, and V. I. Bondar. <https://clarityproject.info/person/4dda66b71ebbb5c46369363d7ae7e025>

Participation in Student Academic Competitions Member of the jury for the second stage of the All-Ukrainian Student Olympiad in General Ecology, pursuant to Order No. 80 of NULES of Ukraine dated 2 February 2018; participation in 2019. Hosted by the National University of Life and Environmental Sciences of Ukraine, Kyiv.

Professional Development and Training

1. Online Academic and Research Internship: “Writing a Research Project Proposal.” Warsaw University of Life Sciences, Poland, 6 November – 8 December 2023. Certificate awarded.

2. Professional Development in Agroecology and Nature Management for academic and teaching staff of agricultural higher education institutions. Certificate No.

AA13722479/000054-23.

3. Online Training Course: “Academic Writing and Publishing.” Conducted within the framework of Project CPEA-2015/10108, “Joint Ukrainian-Norwegian Educational Programme in Environmental Radioactivity,” 14 February – 4 March 2022. Certificate No. 10-2022-38.

4. “Google Digital Tools for Education” – Basic Level. Academy of Digital Development LLC, 2022. Certificate No. GDTfE-03-B-00003.

5. “Google Digital Tools for Education” – Intermediate Level. Academy of Digital Development LLC, 2022. Certificate No. GDTfE-03-C-00350.

6. “Google Digital Tools for Education” – Advanced Level. Academy of Digital Development LLC, 2022. Certificate No. GDTfE-03-II-00009.

7. International Internship: “Multidisciplinary Approaches in Education and Research.” Latvia University of Life Sciences and Technologies, 26 September – 4 November 2022.

8. “Digital Modernization of Lecturing in Ukrainian Agricultural Universities.” Weihenstephan-Triesdorf University of Applied Sciences, Germany. DAAD Project No. 57514792, 9–13 November 2021.