Viktoriia Chubur

Researcher & BRT Laboratory Manager

CONTACT ME

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+420-722-336-368
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HIGHLIGHTS

- Extended knowledge of environmental science
- Specialized in anaerobic digestion and biogas production
- Practical laboratory skills in chemical analysis and anaerobic batch test monitoring
- Experienced analyzing and interpreting experimental data
- Experience in consulting research work of MSc and BSc students

OTHER SKILLS AND EXPERIENCES

- Experienced in creating scientific graphics.
- Experienced in video recording and editing.

WORK EXPERIENCE

Researcher

BioResources & Technology Division at FTZ/CZU
Nov. 2023 - Ongoing
CZU Prague, Czech Republic
Laboratory Manager
Conducting anaerobic digestion research
Adviser for student laboratory practice
Guest lecturer

Laboratory assistant of chemical analysis

Limited liability company «KUSUM PHARM»
Oct. 2019 - July 2020
Sumy, Ukraine
Laboratory water quality analyses
Monitoring equipment functionality

RESEARCH EXPERIENCE

2022-2025
Expert member in progect *Phosphogypsum Processing to Critical Raw Materials (PG2CRM)*

2022-2025
Expert member in progect SCORE: Structural Capacities for Tackling Wicked Problems Programme: Erasmus+

2023-2025
Expert member in progect BIOINWASTE: Bioenergy innovations in waste management: European experience in implementing a circular economy

2023-2027
Expert member in progect *UNICOM: Capacity building in the field of higher education*

2024-2025
Expert member in progect H2SCALE: Paving the way for setting up scalable, green hydrogen-based economic models for local communities in the Danube Region

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EDUCATION HISTORY

Ph.D. in Environmental Protection Technologies

SUMY STATE UNIVERSITY, Sumy, Ukraine
Oct. 2019 - May 2023
Dissertation research on "*Environmentally safe utilisation of waste for energy purposes in environmental protection technologies*"
Head of the TeSET Faculty Scientific Association NTSA

Master's Degree in Ecology and Environmental protection

SUMY STATE UNIVERSITY, Sumy, Ukraine
Sept. 2018 - Dec. 2019
Thesis research on "*Development of a biochemical method for remediation of soils contaminated with heavy metals*"
Best Student of Sumy State University in 2018
Scholarship from the Institute of Eastern European Studies for academic success and active research

Bachelor's Degree in Ecology and Environmental protection

SUMY STATE UNIVERSITY, Sumy, Ukraine
Sept. 2014 - May 2018.
Thesis research on "Environmental aspects of the processes of phosphogypsum genesis and utilisation"

RESEARCH STAYS

10/2022 - 12/2022
University of Natural Resources and Life Sciences, Vienna, Austria

04/2022 - 07/2022
Czech University of Life Sciences, Prague, Czech Republic

09/2021 - 10/2021
Technische Universität Bergakademie Freiberg, Freiberg, Germany

08/2021 - 09/2021
Czech University of Life Sciences, Prague, Czech Republic

LANGUAGE SKILLS

Ukrainian - native speaker
English - C1 Advanced

LIST OF SCIENTIFIC PUBLICATIONS

- Chernysh, Y., **Chubur, V.**, Roubík, H. (2025). Sustainable biotechnology and environmental protection: A four-pronged strategy (1st ed., Green Energy and Technology). Springer Cham. DOI.
- Roubík, H., **Chubur, V.**, Chernysh, Y., Jelínek, M., Phung, L. D., Van Dung, D., Duong, V. H., & Banout, J. (2025). Digestate from small-scale biogas plants in central Vietnam produced under mesophilic conditions: Friend or foe for local farmers? Biofuels, Bioproducts and Biorefining, 19(4), 864–881. DOI.
- Chernysh, Y., **Chubur, V.**, Roubik, H. (2024). Advancing circular bioeconomy: trends, clusters, and roadmaps in biofuel production and waste valorisation. Agronomy Research 22. DOI.
- **Chubur, V.,** Hasan, G., Kára, J., Hanzlíková, I., Chernysh, Y., Sedláček, J., Wang, J. and Roubík, H. (2024), Utilization of citrus, date, and jujube substrates for anaerobic digestion processes. Biofuels, Bioprod. Bioref. DOI.
- Boyko, O. O., Hapich, H. V., Mylostyvyi, R. V., Izhboldina, O. O., Chernysh, Y., **Chubur, V.**, Roubík, H., Brygadyrenko, V. V. (2024). Recycling and decontamination of organic waste in Ukraine: Current state, technologies and prospects for the biogas industry. Biosystems Diversity, 32(2), 260-269. DOI.
- Boyko, O., Brygadyrenko, V., Chernysh, Y., **Chubur, V.**, Roubík, H. Possibilities of decontaminating organic waste from swine-farming complexes using anaerobic digestion. Biomass Conv. Bioref. (2024). DOI.
- Chernysh, Y., **Chubur, V.,** Roubik, H. (2024). Advancing circular bioeconomy: trends, clusters, and roadmaps in biofuel production and waste valorisation. Agronomy Research 22. DOI.
- Chernysh, Y., **Chubur, V.**, Ablieieva, I., Skvortsova, P., Yakhnenko, O., Skydanenko, M., Plyatsuk, L., Roubík, H. (2024). Soil Contamination by Heavy Metals and Radionuclides and Related Bioremediation Techniques: A Review. Soil Systems, 8(2), 36. DOI.
- Chernysh, Y., **Chubur, V.,** & Roubík, H. (2023). Environmental Aspects of Biogas Production. Biogas Plants: Waste Management, Energy Production and Carbon Footprint Reduction, 155–177. DOI
- Alekseevsky, D., Chernysh, Y., Shtepa, V., **Chubur, V.,** Stejskalová, L., Balintova, M., Fukui, M., & Roubík, H. (2023). Enhancing Ecological Efficiency in Biological Wastewater Treatment: A Case Study on Quality Control Information System. Water, 15(21), 3744. DOI.
- Chernysh, Y., Roy, I., **Chubur, V.**, Shulipa, Y., & Roubík, H. (2023). Co-digestion of poultry litter with cellulose-containing substrates collected in the urban ecosystem. Biomass Conversion and Biorefinery, 13(6), 4803–4815. DOI.
- **Chubur, V.**, Danylov, D., Chernysh, Y., Plyatsuk, L., Shtepa, V., Haneklaus, N., & Roubik, H. (2022). Methods for Intensifying Biogas Production from Waste: A Scientometric Review of Cavitation and Electrolysis Treatments. Fermentation, 8(10). DOI.
- Chernysh, Y., Ablieieva, I., **Chubur, V.**, Skvortsova, P., & Roubik, H. (2022). Biopotential of agricultural waste: production of biofertilizers and biofuels. International Multidisciplinary Scientific GeoConference Surveying Geology and Mining Ecology Management, SGEM, 22(4.2), 39–47. DOI.
- Chernysh, Y., Balintova, M., Shtepa, **V., Chubur,** V., Junakova, N. (2022). Effect of Electrolysis on Activated Sludge during the Hydrolysis and Acidogenesis Stages in the Anaerobic Digestion of Poultry Manure. Sustainability, 14(11), 6826. DOI.
- **Chubur, V.**, Chernysh, Y., Ferchau, E., Zaffar N. (2022). Effect of phosphogypsum addition on methane yield in biogas and digestate properties during anaerobic digestion. Journal of Engineering Sciences, Vol. 9(1), pp. H11-H18, DOI.
- Haneklaus, N., Barbossa, S., Basallote, M. D., Bertau, M., Bilal, E., Chajduk, E., Chernysh, Y., **Chubur, V.,** Cruz, J., Dziarczykowski, K., Fröhlich, P., Grosseau, P., Mazouz, H., Kiegiel, K., Nieto, J. M., Pavón, S., Pessanha, S., Pryzowicz, A., Roubík, H., Zakrzewska-Kołtuniewicz, G. (2022). Closing the upcoming EU gypsum gap with phosphogypsum. Resources, Conservation and Recycling, 182, 106328. DOI.
- Chernysh, Y., Shtepa, V., Roy, I., **Chubur, V.**, Skvortsova, P., Ivlieva, A., & Danilov, D. (2021). The potential of organic waste as a substrate for anaerobic digestion in Ukraine: trend definitions. Environmental Problems, 6(3), 135–144. DOI.
- Chernysh, Y., Roy, I., **Chubur, V.**, Shulipa, Y., & Roubík, H. (2021). Co-digestion of poultry litter with cellulose-containing substrates collected in the urban ecosystem. Biomass Conversion and Biorefinery. DOI.
- Chernysh Y., Roy I., **Chubur V.,** Fukui M., Koziy I. (2021) Stimulation of Anaerobic Fermentation of Wastewater and Sewage Sludge. In: Ivanov V., Pavlenko I., Liaposhchenko O., Machado J., Edl M. (eds) Advances in Design, Simulation and Manufacturing IV. DSMIE 2021. Lecture Notes in Mechanical Engineering. Springer, Cham. DOI.
- Chernysh, Y., Yakhnenko, O., **Chubur, V.,** & Roubík, H. (2021). Phosphogypsum Recycling: A Review of Environmental Issues, Current Trends, and Prospects. Applied Sciences, 11(4), 1575. DOI.
- Danylov, D., **Chubur, V.**, Chernysh, Y., & Yakhnenko, O. (2020). Bioenergy Waste Recycling: Modelling of Developmental Trends. *Man and Environment. Issues of Neoecology*, 34. DOI.

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