



Bohdan Sarzhanov

Date of birth: 26/02/1993 | **Nationality:** Ukrainian | **Gender:** Male | **Phone:** (+380) 660327900 (Mobile) | **Email address:** arhimag0@gmail.com | **Address:** Ukraine (Home)

● EDUCATION & TRAINING

01/09/2010 - 28/06/2014 - SUMY, UKRAINE

BACHELOR'S DEGREE IN PROCESSES, MACHINES AND EQUIPMENT OF AGRO-INDUSTRIAL PRODUCTION- SUMY NATIONAL AGRARIUM UNIVERSITY

Level in EQF: 6

01/09/2014 - 13/02/2016 - SUMY, UKRAINE

MASTERS'S DEGREE IN MECHANIZATION IN AGRICULTURE- SUMY NATIONAL AGRARIUM UNIVERSITY

Level in EQF: 7

01/10/2016 - 01/11/2021 - SUMY, UKRAINE

DOCTOR OF PHILOSOPHY (PHD) IN INDUSTRIAL MACHINERY ENGINEERING- SUMY NATIONAL AGRARIUM UNIVERSITY

Level in EQF: 8

● WORK EXPERIENCE

01/09/2020 - 31/08/2022 - SUMY, UKRAINE

ASSISTANT LECTURER SUMY NATIONAL AGRARIAN UNIVERSITY

01/09/2023 - 31/08/2024 - SUMY, UKRAINE

SENIOR LECTURER, DEPARTMENT OF AGROENGINEERING SUMY NATIONAL AGRARIAN UNIVERSITY

01/09/2024 - 31/08/2026 - SUMY, UKRAINE

ASSOCIATE PROFESSOR, DEPARTMENT OF AGROENGINEERING SUMY NATIONAL AGRARIAN UNIVERSITY

01/09/2026 - CURRENT - SUMY, UKRAINE

SENIOR LECTURER, DEPARTMENT OF AGROENGINEERING SUMY NATIONAL AGRARIAN UNIVERSITY

Teaching undergraduate and graduate courses in agroengineering and precision agriculture; development of educational and methodological materials; supervision of Bachelor's and Master's theses; research in precision agriculture, agricultural machinery and digital technologies in agriculture; participation in curriculum development and academic activities.

● SKILLS

Agricultural Engineering | agricultural equipment | apply precision farming | GPS / GNSS systems architecture / principles | Geographic Information Systems (GIS) | Data Science | Data Collection, Data Processing, Data Analysis, Data Visualisation | Experimental Research | Research methodology | use technical documentation | teach in academic or vocational contexts | use CAD software

● LANGUAGE SKILLS

Mother tongue(s): **UKRAINIAN**

● PUBLICATIONS

Transverse Dynamics of Motion of a Wheel Tractor without Elastic Suspension 2026

Koliesnik I., Shevchenko I., Koliesnik Yu., Blesnyuk O., Shushliapin S., Sarzhanov B. (2026). Transverse Dynamics of Motion of a Wheel Tractor without Elastic Suspension. International Journal of Mechatronics and Applied Mechanics, 2026(24), 388–396.

I. Koliesnik, I. Shevchenko, Yu. Koliesnik, O. Blesnyuk, S. Shushliapin, B. Sarzhanov International Journal of Mechatronics and Applied Mechanics Vol. 2026, Issue 24, pp. 388–396.

Genotype Prediction in Maize (Zea mays L.) Progeny Using Different Predictive Models 2024

Polyvanyi A., Butenko A., Mikulina M., Zubko V., Kharchenko S., Dubovyk V., Dubovyk O., Sarzhanov B. (2024). Genotype Prediction in Maize (Zea mays L.) Progeny Using Different Predictive Models. Agronomy Research, 22(2), 887–897.

A. Polyvanyi, A. Butenko, M. Mikulina, V. Zubko, S. Kharchenko, V. Dubovyk, O. Dubovyk, B. Sarzhanov Estonian University of Life Sciences Agronomy Research Vol. 22, Issue 2, pp. 887–897.

Mass Spectrometric Study of the Chemical Composition of the Gas Environment in the Zone of Electrospark Alloying

Loboda V.B., Zubko V.M., Khursenko S.M., Kravchenko V.O., Chepizhnyi A.V., Sarzhanov B.A. (2023). Mass Spectrometric Study of the Chemical Composition of the Gas Environment in the Zone of Electrospark Alloying. Journal of Nano- and Electronic Physics, 15(2), 02028.

V.B. Loboda, V.M. Zubko, S.M. Khursenko, V.O. Kravchenko, A.V. Chepizhnyi, B.A. Sarzhanov Journal of Nano- and Electronic Physics Vol. 15, Issue 2, 02028-1–02028-4.

Application of Wear-Resistant Nanostructures Formed by Ion Nitridizing & Electrospark Alloying for Protection of Rolling Bearing Seat Surfaces

Tarelnyk V. et al. (2022). Application of Wear-Resistant Nanostructures Formed by Ion Nitridizing & Electrospark Alloying for Protection of Rolling Bearing Seat Surfaces. 2022 IEEE 12th International Conference Nanomaterials: Applications & Properties (NAP), Krakow, Poland, pp. 01–08.

V. Tarelnyk, I. Konoplianchenko, O. Gaponova, O. Radionov, B. Antoszewski, C. Kundera, N. Tarelnyk, T. Voloshko, S. Bondarev, V. Gerasimenko, O. Rysna, B. Sarzhanov, A. Polyvanyi 2022 IEEE 12th International Conference Nanomaterials: Applications & Properties (NAP) pp. 01–08.

Improving Ecological Safety when Forming Wear-Resistant Coatings on the Surfaces of Rotation Body Parts of 12Kh18N10T Steel Using a Combined Technology Based on Electrospark Alloying

Tarelnyk V.B., Gaponova O.P., Loboda V.B., Konoplyanchenko E.V., Martsinkovskii V.S., Semirnenko Yu.I., Tarelnyk N.V., Mikulina M.A., Sarzhanov B.A. (2021). Improving Ecological Safety when Forming Wear-Resistant Coatings on the Surfaces of Rotation Body Parts of 12Kh18N10T Steel Using a Combined Technology Based on Electrospark Alloying. Surface Engineering and Applied Electrochemistry, 57(2), 173–184.

V.B. Tarelnyk, O.P. Gaponova, V.B. Loboda, E.V. Konoplyanchenko, V.S. Martsinkovskii, Yu.I. Semirnenko, N.V. Tarelnyk, M.A. Mikulina, B.A. Sarzhanov Surface Engineering and Applied Electrochemistry Vol. 57, Issue 2, pp. 173–184.