

International Competition of Student Scientific Works “Black Sea Science 2025”

1st stage results for the field of “Ecology and Environmental Protection”

Country	Institution	Work Title	Author(s)	Supervisor(s)	Score
Poland	Lublin University of Technology.	Study of woody biomass heterogeneity used for energy purposes	Vladyslava Vambol	Gabriel Borowski	99
Ukraine Georgia	Lviv Polytechnic National University Odesa National Technological University Akaki Tsereteli State University.	Mesophilic anaerobic fermentation and aquaculture biotechnology using inoculum	Maksymiuk Anastasiia, Beradze Nika, Voinytska Iryna	Myroslav Malovanyy, Turkadze Tsitsino	98
Ukraine Poland	Lviv Polytechnic National University Jan Dlugosz University in Czestochowa.	Hydroecological condition of the territory of the Yavoriv National Nature Park	Sereda Anastasiya, Maria Mudryk	Sabadash Vira	96
Ukraine	Kharkiv National Automobile and Highway University	Improving the system for monitoring the state of atmospheric air in urban areas	Karyna Akinshyna, Anhelina Prykhodko	Nataliia Prokopenko	94
Ukraine Poland	Lviv Polytechnic National University Rzeszow University of Technology	Use of alternative energy sources on the example of solar power plants in Lviv region	Melnyk Serhii, Patriyca Kubcica	Popovych Olena	93
Ukraine Poland	National Technical University Kharkiv Polytechnic Institute Department of Plant Production and Food Safety. State University of Applied Sciences in Krosno	Food waste accumulation risks in open areas. a bibliometric analysis	Daniel Wojenski, Pustovit Diana	Barbara Krochmal-Marczak, Sakun Antonina	91
Ukraine Czech Republic	Mykolaiv National Agrarian University University of Pardubice	Reproduction of signs of fertility and ecological functions of the soil by selection of effective soil cultivation in the post-war period	Koval Ruslan, Bitun Vsevolod, Kurishko Andrij	Gamajunova Valentyna, Manushkina Tetiana	89
Ukraine	Sumy State University	Monitoring of air pollution by CO ₂ NO ₂ and NO compounds in Sumy city	Vinichenko Anastasiia	Ponomarova Liudmyla	87
Ukraine	Lutsk National Technical University	Organic production - a perspective for youth	Anna-Maria Tymkevych	Oksana Rechun	85

Ukraine	Oles Hochar Dnipro National University Ukraine	Recycling of waste from municipal wastewater treatment plants and thermoplastic	Sikorsky Artem, Pasenko Snezhana	Levytska Olena	83
Ukraine	Lviv State University of Life Safety	Underlying surface as a factor of influence on strengthening the heat island effect of the urban environment	Solomiia Verkhola. Bogdan Ianyshyn	Nataliya Hotsii	82
Ukraine Austria	Cherkassy State Technological University Institute of Chemistry, Austria	Analysis of the impact of the energy sector on the environment in Cherkasy region	Sheludko Yulia, Golik Daria	Khomenko Olena, Loboda Oleksandr	81
Ukraine	Zhytomyr Polytechnic State University.	Methodology of humanitarian demining	Horshkalova Vira, Blyshchuk Anna, Serhiichuk Anastasiia	Herasymchuk Liudmyla, Patseva Iryna	80
Ukraine	The National University of Water and Environmental Engineering.	Influence of biogenic substances on the ecological state of lake Bile	Rudkovska Oleksandra	Biedunkova Olha	79
Ukraine	National University Yuri Kondratyuk Poltava Polytechnic	Groundwater of Kolomatsk territorial community as a source of drinking water supply	Burda Anna	Bunyakina Natalia, Natalia Smolar	77
Ukraine	Kharkiv National Automobile and Highway University	Biological methods of forming a dust protection system along carriageways	Anastasiia Onishchenko, Yelyzaveta Lub	Nataliia Vnukova	76,5
Ukraine	National Technical University Kharkiv Polytechnic Institute	Features of implementing technological innovations using the example of manufacturing carbon capture units	Prykhodko Alevtyna, Ovsiannikov Oleh	Veriutina Viktoria	75
Ukraine Algeria	Odesa National Technological University University Bejaia.	Research of the process of membrane treatment of car wash wastewater	Voinytska Iryna	Bondar Serhii, Ladjel Mahmud	73
Ukraine	Kharkiv National Automobile and Highway University	Preventing the negative impacts of oil pollution on small rivers	Daria Orlova, Valeriia Musiiachenko	Halyna Valter	71
Ukraine	Mykolaiv National Agrarian University	Ecological plasticity of the Roman snail Helix pomatia L. 1758	Honchar Anna	Kramarenko Serhii	70
Ukraine	Danube Institute of National University Odessa Maritime Academy Ukraine	Integrated approaches to the important issues of improving efficiency, safety and	Nikula Alina	Tiron-Vorobiova Nataliia, Kolmykova Olena	69,5

		environmental friendliness – the future of the marine industry			
Ukraine	National Technical University Kharkiv Polytechnic Institute.	Upcycling entrepreneurship as a comprehensive way to combat the accumulation of textile waste	Kriuchkova Valeriia, Pashchenko Polina, Smyslova Alla	Tykhomyrova Tetyana	67
Ukraine	The State Higher Scientific Institution Uzhhorod National University	Intensive implementation of vertical greening systems as an effective means of prevention environmental problems in the city of Uzhhorod	Rusyn Daria, Rubish Yuliana, Shtaier Yulianna	Kaynts Diana, Mykaylo Oksana	66
Ukraine	Separated Subdivision Boyarka Professional College of the National University of Life and Environmental Sciences of Ukraine .	Technological impact of transport on the air quality on the m 05 Kyiv.Odesa highway	Ivanna Radok, Ivan Hamov, Vladyslav Bramirskyi	Nadiya Manishevskia, Rozalina Khmelkova	62
Ukraine	Volodymyr Vynnychenko Central Ukrainian State University	Innovative technologies in waste management as a path to sustainable development	Vladymyr Lantsov, Anastasia Kryvolap	Iuliia Bondar, Inna Shchoholieva	61
Ukraine	Dnipro University of Technology	Forecasting the environmental component of the development of oil and gas deposits in the Black Sea region.	Tsymbal Stepan, Askerov Islam	Pavlychenko Artem, Ihnatov Andrii	60
Ukraine	National Technical University Kharkiv Polytechnic Institute Kharkiv National Automobile and Highway University	Environmental justification of oxidized waste disposal Kharkiv region	Martynenko Olexii, Hayar Youssef	Mezentseva Iryna, Mishchenko Igor	59
Ukraine	Lviv Polytechnic National University.	Mathematical model of adsorption of high molecular weight compounds in a column-type apparatus	Sydor Sviatoslav	Sabadash Vira	58
Ukraine	Separated Structural Subdivision Odesa Technical Professional College of Odesa National University of Technology.	Ecological orthopedic unloading insoles with natural fillers. an innovative approach to preserving health and the environment	Konstantynova Mariia, Kovaliv Veronika	Kuzina Natalia, Lapchak Svitlana	57
Ukraine	Odesa State Academy of Civil Engineering and Architecture	Green innovations realities and prospects for Ukraine	Romaniuta Yelyzaveta	Tetiana Oliinyk	56,5

Ukraine Bulgaria	National University Lviv Polytechnic Sofia University.	Prospects for the use of biological methods for wastewater and surface water treatment	Malychkovych Khrystyna, Banagiev Peter	Odnorih Zoryana	56
Ukraine	Separated Structural Subdivision Odesa Technical Professional College of Odesa National University of Technology.	Biodegradable textile materials based on fermented tea - the path to sustainable development of the textile industry	Popovych Anastasiia	Kuznetsova Polina	55
Ukraine	National University of Food Technologies.	Development of a new concept for PET bottle shredding to improve the efficiency of plastic waste recycling	Tymchenko Ivan	Yakymchuk Mykola	54
Ukraine	Separated Structural Subdivision Odesa Technical Professional College of Odesa National University of Technology.	Natural dyes for textiles and their impact on the environment and material quality	Rotar Yeva	Kasadzuk Viktoriia	53
Ukraine	Lviv Polytechnic National University.	Remediation of contaminated with heavy metals soils on Ukrainian territories affected by full-scale invasion with biosurfactant as active agents	Kozlovska Alisa, Hronostalska Oksana- Olesia	Kurka Mariia, Buchkevych Iryna	52
Ukraine	Odesa National Technological University	Research of processes of extraction and concentration of pectin from fruit processing waste	Voinytska Iryna, Luferova Olena	Bondar Serhii	50
Ukraine	Odesa National Technological University.	Research into the membrane treatment process of cheese farming waste	Voinytska Iryna, Kotliar Oleksii	Bondar Serhii	51,5
Ukraine	Mykolaiv National Agrarian University	AI in Supply Chain Efficiency Environmental Aspect of Farmgate-to- Fork Traceability	Sheliner Uliana, Anatoliy Sheliner	Nikonchuk Natalia	51
Ukraine	National University of Food Technologies.	Innovative concept of sorting plastic bottles	Yurii Yakymchuk	Mykola Iakymchuk	50
Ukraine	Vinnytsia National Agrarian University.	Bioindication of forest strips	Vitaliy Kryzhanivskiy, Dariia Plakyda	Oleksandr Tkachuk, Olha Mazur	49,5
Ukraine	Oles Honchar Dnipro National University	The assessment of the Oles Honchar Dnipro national university botanical	Tantsurina Yelyzaveta	Kunakh Olga	49,5

		garden reconstruction impact on lumbricofauna			
Ukraine	Taras Shevchenko National University of Kyiv Ukraine	Green horizons assessing urban landscapes for recreation and public spaces	Ulyana Shynkarenko	Sergey Uliganets	48
Ukraine	National Academy of the National Guard of Ukraine.	Chemical pollution of atmospheric air due to the use of TNT ammunition	Lozovyi Ihor	Danchenko Yuliya	48
Ukraine	Vinnitsia National Technical University	Environmental impact analysis of waste lithium-ion battery cathode recycling	Volodymyr Faichuk, Sun Xiaodong	Vitalii Ishchenko	47,5
Ukraine	Odesa National Technological University.	Research into the extraction potential of wood processing wastes	Voinytska Iryna, Iskandarova Liliia	Bondar Serhii	47
Ukraine Sweden	Sumy National Agrarian University Ukraine Lund University Sweden	Prospects for using sunflower to remediate contaminated soils	Ivan Berdin, Valeriia Yefimenko	Viktoriia Skliar	45
Ukraine	Sumy State Pedagogical University named after A. S. Makarenko	Assessment of mycological diversity of the Botanical Garden of Sumy State Pedagogical University as an essential component of its ecosystems	Stepanets Iryna	Lytvynenko Yulia	44
Ukraine	Lviv State University of Life Safety.	Assessment of radiation background in ecosystems of municipal waste landfills of the western forest-steppe	Skyba Tetiana	Popovych Vasyl	43,5
Ukraine	Lviv Polytechnic National University.	Dynamics of carbon dioxide adsorption by carbon nanotubes	Popov Vladyslav	Sabadash Vira	42
Ukraine	Kharkov National Automobile and Highway University	Overcoming the environmental challenges of military operations: environmental safety in the context of mine action	Elvira Nemchenko	Kaliuzhna Yuliia	41
Ukraine	Lviv Polytechnic National University	Modelling the kinetics of ion exchange interactions in wastewaters treatment	Zavytiy Stanislav	Sabadash Vira	40
Ukraine	National Technical University Kharkiv Polytechnic Institute	Assessment of the impact of oil products on the growth and development of agricultural plants	Yelizarov Andrii, Chen Bin	Bosiuk Alona	39

Ukraine	Lutsk National Technical University	The concept of anti-consumption of clothing as a way of environmentally sustainable consumption	Kutsai Viktoria, Klymovets Anna	Pakholiuk Olena, Peredriy Oksana	35
Ukraine	National Technical University Dnipro Polytechnic Ukraine	Theoretical and economic substantiation of drilling waste processing in the conditions of the Karaykozivske gas condensate field	Borysenko Kateryna, Strokan Volodymyr	Khomenko Volodymyr	34
Ukraine Bulgaria	National University Lviv Polytechnic Sofia University.	The open biological conveyor method is a prospect for the treatment of wastewater and landfill leachate	Yusiv Anastasiia, Nikol Gabriela	Venger Lyubov	32
Ukraine	Lviv Polytechnic National University.	The Environmental Impact Analysis of the Brewery Carlsberg Ukraine	Mykutyn Diana	Myroslav Malovanyy	30
Ukraine Poland	Lviv Polytechnic National University Rzeszow University of Technology.	Biodiversity conservation is one of the most important issues of environmental security	Reftso Mykhailo, Alina Kuwatka	Tymchuk Ivan	29
Ukraine	Lviv Polytechnic National University.	Technologies for utilization and composting of food waste	Yanchuk Vladyslav	Wenger Lyubov	28