## **CONTENTS**

GENERAL ENVIRONMENTAL SAFETY ISSUES.	7
Bondar O., Gandziura V., Matviienko M. Environment-security component of National Resilience system	7
Zhuk A., Myshiliuk I. Features of the roadside protective ecotones network in Chernivtsi region.	12
Patseva I., Alpatova O., Demchuk L., Kireitseva H., Levytskyi V. The current state of the natural environment under the influence of war	19
Pylypchuk O., Vysotska T., Pichkur N., Salnikova A., Savchuk M., Soloviova L, Sorochynska O. Protection of atmosperic air from pollution by Railwai transport	23
BIOLOGICAL SAFETY.	27
Kurbatova I., Zakharenko M., Chepil L., Tupytska O. Peculiarities of metabolic processes in fish under the action of xenobiotics	27
ENVIRONMENTAL MONITORING.	32
Boychun S. Melnichenko D., Taranov V. Monitoring of the relative content of nitrates in waters	32
<b>Bondar O., Finin G., Shevchenko R.</b> Environmental challenges of wartime: environmental impact assessment by Space Remote Sensing Systems and GPS-navigation.	40
Kurhanevych L., Andreychuk Y., Bonishko O. Water quality monitoring of decentralized water supply sources of Poromiv village in Volyn region.	50
ECOLOGY OF WATER RESOURCES	58
Zalenska Ye., Voitenko L. Water quality indices: adaptation and application for Ukraine.	58
Sukhodolska I., Basaraba I. Main sources of the Nitrogen compounds restocking to water ecosystems	
<b>Sheliuk Yu.</b> Assessment of the complexity of the phytoplankton structure of different types of aquatic ecosystems of the Ukrainian forest.	
ECOLOGY AND PRODUCTION.	74
<b>Bosiuk A., Shestopalov O.</b> Analysis of modern technologies and methods of purification of galvanic waste in machine-building industry	74
<b>Zubov A., Zubov O.</b> Typology, morphometry and quantity of waste heaps of coal mines in Ukraine	79
<b>Krasova O., Pavlenko A.</b> Transformation of technotopes and territorial distribution of ecotopic structures on iron ore dumps of Kryvyi Rih Area	88
Romanyuk O., Boretska I., Shevchyk-Kostiuk L., Oshchapovskyy I. The development of phytoremediation compositions for cleaning of soils, polluted by oil and oil derivatives.	94
Sibilyeva O. Quality of automobile gasoline and diesel fuel on the Ukrainian market.	100
ECOLOGY AND ECONOMICS OF NATURAL RESOURCE USE	107
<b>Dzendzel A., Pyda S.</b> Influence of Trevitan <sup>TM</sup> composite recultivator on productivity and qualitative composition of edible tomato fruits (Lycopersicon esculentum Mill).	
Marenkov O., Yesipova N., Shmagailo M. Scientific justification of fisheries in the Zaporizhian (Dnipro) reservoir.	113
Pytuliak M., Pytuliak M., Zhulkanych B., Bartko S. Natural and ecological features and the current state of land use in Khmelnytskyi region.	
Sukhov V.V. Hydrogeological conditions of karst development in carbonate rocks within the Sviatohirsk brahianticlinal.	127
PRESERVATION OF BIOLOGICAL AND LANDSCAPE DIVERSITY	131
Kavchuk I., Riznychuk N. Green plantations of Ivano-Frankivsk's park ecosystems.	131

<b>Krasovsky V., Fedko R., Chernyak T., Hryhorenko A.</b> Possibilities of introducing <i>Feijoa sellowiana</i> O. Berg in the Forest-Steppe of Ukraine: scientific and practical approaches	135
<b>Krupiei K., Sklyarenko A.</b> Analysis of types of damage to leaf blades of woody plants by pests in industrial zones of Zaporizhzhia.	140
Mudrak O., Demianiuk O., Mahdiichuk A. Mining and industrial landscapes of the right-bank forest-steppe as potential structural elements of the regional eco-network	149
Pavlyshak Y., Dankiv V. Analysis of the adventitious flora fraction of Drohobych district.	154
<b>Suslova O.</b> Dynamic pattern of photosynthetic pigment content of the assimilation apparatus in <i>Juniperus media</i> Melle 'Mint Julep' found in city green spaces of the Ukrainian steppe	158
CLIMATE CHANGE	163
<b>Tesolkina T., Lukashov D.</b> The influence of climatic conditions on the rate of mineralization of cellulose in the forest litter of the Golosiiv forest of the «Goliivskyi» national park.	163
EDUCATION FOR SUSTAINABLE DEVELOPMENT.	168
Herasymchuk L., Valerko R., Yaroshenko B., Chlek O. Environmental threats from the consequences of military actions through the eyes of children.	168
WASTE MANAGEMENT.	174
Zlobenko B., Fedorenko Yu., Rozko A., Olkhovyk Yu. Alternative binders for immobilization of liquid organic radioactive waste.	174
Patseva I., Herasymchuk O., Kahukina A. Systematic approach to waste management of united territorial communities.	181
Stalinska I. Reducing the environmental risk of solid waste landfills.	185
Ushcats S.Yu., Mihelev I.L., Zholobenko N.Yu., Markina L.M. Determination of morphological composition of municipal solid waste for Mykolayiv city (Ukraine) and forecasting	100
of their accumulation in the future.	190
DEVELOPMENT OF THE NATURE RESERVE FUND.	197
Lysenko H., Shulga O. Sanitary selective cuttings in the system of ecological management (on the example of Ichnya National Natural Park).	197
<b>Chipiliak T.</b> Development of the generative sphere of cultivars of <i>nemerocallis</i> 1. Selections of the Kryvyi Rih Botanical garden of the NAS of Ukraine of under action of climatic changes.	202
THEORETICAL ECOLOGY	208
Horyn O., Khatib Ikhab, Kovalska H., Poznanskyi D., Chernik I., Bodnar O. Effect of environmentally relevant and subtoxic concentrations of malathion on non-target organisms (on the <i>Danio rerio</i> example)	208
Polishchuk L. Prevalence of chitinase genes in streptomycetes genomes.	214
Yurchenko T., Demydov O., Pykalo S., Bulavka N., Pirych A., Hudzenko V. Modification of the method for determining the photoperiodic sensitivity of bread winter wheat varieties under the conditions of the Central Forest-Steppe of Ukraine.	210
of the Conduit 1 of est-Steppe of Oktaine.	219
AUTHORS' CREDENTIALS	224