

# CONTENTS

- 1 Tri Nguyen-Quang, Kien-Chinh Lieou, Kateryna Hushchyna, Tri-Dung Nguyen, Negar Sharifi Mood, Muhammad Nadeem, Kayla McLellan, Kalaivani Murdymootoo, Emily Merks, Rachel Hirtle,**  
The first step to sketch the spatio-temporal evolution of biochemical and physical parameters involving in the Harmful Algal Blooms (HAB) in Mattatall Lake (Nova Scotia, Canada)
- 19 Nagurskyy Oleg, Malovanyy Myroslav, Synelnikov Sergij, Vahchuk Viktorija**  
Prospects of using PET waste for environmentally friendly mineral fertilizers
- 23 Kotovenko Olena, Miroshnychenko Olena, Marchenko Iryna**  
Tritium and its place in the overall radiation Ukraine technogenesis
- 27 Ishchenko Vitalii, Petruk Roman, Kozak Yana**  
Hazardous household waste management in Vinnytsia region
- 31 Gumnytskiy Jaroslav, Lyuta Oksana**  
Pollution of soil environment with mineral fertilizers and ways of their migration deep into the soil
- 35 Bondarchuk Olga, Petruk Vasyl**  
Ecological safety of visual environment and videoecological perception (VEP) of Vinnitsia
- 39 Petruk Roman, Petruk Vasyl, Ishchenko Vitalii, Kvaterniuk Sergey**  
The concept of environmental safety of Vinnytsia region in the waste management sphere
- 45 Petrushka Ihor, Moroz Olexandr**  
Decontamination of radioactive liquid systems by modified clay minerals
- 51 Kryvomaz Tetiana**  
Adaptation of IUCN classification schemes for environmental safety passports of species
- 57 Kravchenko Maryna**  
Preparation of quality drinking water as a basis of the environmental safety and human health
- 61 Malovanyy Myroslav, Nykyforov Volodymyr, Kharlamova Olena, Synelnikov Alexander, Dereyko Khrystyna**  
Reduction of the environmental threat from uncontrolled development of cyanobacteria in the waters of the Dnieper reservoirs
- 65 Vronska Nataliya, Malovanyy Myroslav, Koval Iryna, Starchevskyy Volodymyr**  
Integrated adsorption and ultrasonic technology for water treatment processes
- 69 Glyva Valentyn, Panova Olena, Voloshkina Olena**  
Methodological principles of electromagnetic screens application for public protection from electromagnetic fields and radiation
- 73 Berlinskyi Nikolai, Safranov Tamerlan**  
Spatial and temporal variability of pollutants in the bottom sediments in the northwest part of the Black sea
- 77 Mandryk Oleh, Mykhailiuk Yuliya**  
Development of mathematic model of gas-turbine unit combustion chamber functioning
- 83 Pohrebennyk Volodymyr**  
Influence of Dobrotvir thermal power plant on environmental specifications
- 91 Nykyforov Volodymyr, Sakun Oksana**  
Mutation of the *Drosophila melanogaster* L. under the influence of the electromagnetic radiation
- 95 4th International Congress**  
"Environment protection. Energy saving. Sustainable environmental management"