# **CONTENTS**

1 Ihor Mysak, Volodymyr Zhuk, Kateryna Petrushka Comparison of the methods of surface runoff modelling from the urbanized subcatchments for estimation of peak loads on the environment

#### 7 Dariusz Kowalski

The life path and scientific activity of professor Beata Kowalska

#### 14 Vasyl Dyachok, Solomiia Mandryk, Serhiy Huhlych

The impact of microwave radiation in the processes of carbon dioxide absorption by chlorophyll-producing microalgae

19 Myroslav Malovanyy, Oksana Ilyash, Oleksiy Povzun, Oleg Stepanets, Tatiana Serga, Oksana Gubar, Volodymyr Serdyuk

Environmental and resource evaluation of smelter slag

#### 30 Roman Petruk, Ihor Petrushka, Volodymyr Pohrebennyk

Environmental safety management of used packaging of pesticides and other dangerous substances

### 35 Oleh Nahurskyy, Myroslav Malovanyy, Serhiy Synelnikov, Ivan Tymchuk, Galyna Krylova Study of the properties of anp fertilizer encapsulated with the use of modified waste of pet

#### 39 Oleksandr Moroz, Zoryana Tartachynska, Tetiana Korliatovych, Ivan Pokotylo

Research of interrelations between meteofactors and water level fluctuation in lake Svitiaz

#### 44 Angelina Chugai

Assessment of the quality and the level of the technogenic load on the surface waters of the Kherson region

#### 50 Olena Popovych, Nataliya Vronska, Yuriy Yatchyshyn, Yaroslava Zaharko

Handling the pharmaceutical industry waste in Ukraine and the UA

## 58 Roman Ponomarenko, Leonid Plyatsuk, Oleg Tretyakov, Irina Ablieieva

Modeling of operational control of the oxygen regime of the aquatic ecosystem in the conditions of the Dnieper basin