

The general editorship:

Doctor of Sciences in Physics and Mathematics,
Professor Sergei Maskevich
Candidate of Technical Sciences, Associate professor
Maria Germenchuk

Reviewers:

Anatoly Batyan, Sergei Golovatiy, Victoria Luchina

The conference proceedings include the theses submitted at the XIth International scientific conference of young scientists, PhD students, Master`s degree students, and students «Actual environmental problems» in English, which was held in December 2–3, 2021 at the International Sakharov Environmental Institute of Belarusian State University.

The proceedings are referred to a wide range of expert, lecturers of higher and secondary educational establishments, PhD students, Master`s degree students and students.

The conference proceedings are published with the financial and information support
of the Ministry of Education of the Republic of Belarus
and with the financial support of the UNESCO National Project
«School-laboratory for pupils is the instrument for implementing the agenda 2030 in the Republic of Belarus»

THE PROSPECT OF GARBAGE RECYCLING IN NANTONG, JIANGSU PROVINCE, CHINA

Li Xiaolong, V. Lemiasheuski

Belarusian State University, ISEI BSU

Minsk, Republic of Belarus

lem@iseu.by

The composition and harm of rubbish from Nantong, Jiangsu Province, China, summarized the nantong traditional processing method of garbage and industrial power generation method and its related technology, combined with actual examples in nantong implements classified collection, garbage disposal and recycling, so as to realize the reduction and recycling of waste treatment.

Keywords: Nantong municipal garbage, recycling, utilization, resources, pollution.

The purpose of the research. Nantong's garbage is of great value and provides many jobs. Due to the lack of industrial policies for garbage recycling in Nantong city, garbage disposal has not formed an industrial scale. Therefore, according to the economic strength of Nantong city, it is necessary to carry out classified collection, harmless treatment and recycling of garbage, turn waste into treasure, and realize the reduction and recycling of garbage treatment. From the original mechanism and management system to seek a breakthrough, let the garbage treatment into the market operation mode. Attract and support private enterprises and capital to participate in urban waste treatment from the perspective of industrial policy, taxation and finance.

Field investigation was used research results: according to the field investigation in nantong, waste composition and harm of mainly includes the following 3 kinds:

1.1 the living garbage, including waste paper, plastic, glass, metal and organic waste, including packaging and occupied the main part of food waste in the kitchen.

1.2 construction waste and clean up garbage, including soil, stones and concrete blocks, the blocks, waste wood, waste such as pipelines, sweepings public bins in the waste, public places and pavement damage after waste, etc.

1.3 electronic waste and medical waste, including waste electrical appliances, electrical waste, batteries, fluorescent tubes, such as thermometer, hospital contain viruses, bacteria or chemicals of medical waste, inflammable and explosive items and special industry waste containing radioactive substances. This kind of garbage generally cannot be mixed with ordinary garbage.

The garbage investigated above mainly refers to the solid wastes generated by urban residents, excluding the solid wastes generated in industrial and agricultural production activities.

In fact, people are throwing away a lot of recyclables every day. According to the statistics of Nantong Environmental Protection Foundation, there are 362,000 tons of waste plastic in nantong city's annual garbage, and 1 ton of waste plastic can produce 0.37 to 0.73 tons of oil, and every 1 ton of plastic recycled beverage bottles can gain 8 000 yuan of profit. There are 388,000 tons of waste paper, every 1 ton of waste paper can be recycled, 0.85 tons of good paper, save 3 m³ of wood, It can save 300 kg of alkali and reduce 74 % of pollution compared with the production of good paper. There are 150 thousand tons of waste glass. It can save 10–30 % of energy by reproducing glass from broken glass, reduce 20 % of air pollution and 80 % of abandoned slag from mining.

There are 237 million waste batteries, using waste batteries can recover cadmium, nickel, manganese, zinc and other precious heavy metals, while reducing the pollution of heavy metals to the environment and harm to human health. There are 35 thousand tons of scrap metal. For every 1 ton of scrap steel recovered, 0.9 tons of steel can be refined, which can reduce 75 % air pollution, 9.7 % water pollution and solid waste, and save 47% smelting cost compared with making steel with ore. There are 1.23 million tons of waste food and vegetation. Every 1 ton of waste can produce 0.6 tons of organic fertilizer and waste fuel for power generation and heating.

The traditional garbage treatment methods in Nantong city mainly include landfill, composting and incineration. The three methods are relatively simple in technology, low resource recovery rate and secondary contamination:

At present, there are three main industrial methods of garbage recycling, namely landfill composition! Biogas field electricity, waste incineration recycling heat power generation and through biological engineering technology.

Biogas field power generation, is the current technology mature, less investment, low cost, easy to use and management, favored by developed countries a way of urban waste treatment. By the end of the 20th century, there were more than 140 around the world! The waste gas field power station is in operation. The UK has a capacity to generate 18 MW of electricity from waste biogas fields. The landfill biogas plant in Illinois, USA, covers 61 hm², fills 1.8 million tons of waste, and has a generating capacity of 1 600 kW, equivalent to using 28 thousand barrels of oil per year.

The establishment of waste incineration plant, in the incineration process to recover its heat energy, and used for power generation, can realize waste incineration energy. Germany and the United States were the first countries to generate electricity by recycling heat from burning waste. In the 1960s, incinerators were established in the former West Germany, benefiting 2.45 million people. By the 1980s, electricity had been provided to 21.2 million people, accounting for 34.4% of the total beneficiaries. The United States had invested in incineration plants since the 1980s, with an annual capacity of 30 million tons of waste. In the 1990s incineration accounted for 18% of America's total waste disposal. The city of Detroit in the United States has the world's largest garbage processing power plant of 4 000 tons per day. Japan's largest waste thermal power plant has a maximum capacity of 22 MW.

To sum up, the landfill and incineration compost treatment of nantong municipal solid waste have their own advantages, but also have unavoidable disadvantages. The solution is to use mineral processing technology and equipment to recycle most of the useful substances (50–80 %) after the household waste is classified and collected, and then send the remaining parts that cannot be recycled (50–20 %) to landfill, incineration or composting. In this way, the municipal solid waste can be harmless, reduced and re – resource, and save a lot of money.

CONTENT

SECTION 1

SOCIO-ECOLOGICAL, ETHICAL AND PEDAGOGICAL PROBLEMS OF OUR TIME

THE IMPACT OF PSYCHOLOGY AND BIOLOGY ON THE IDENTITY CRISIS OF ADOLESCENCE.....3	
<i>E. Akshevskaya, A. Kozorez, I. Olevsknaya</i>	
POSTHUMANISM: ALTERNATIVE REALITIES AND ARTIFICIAL INTELLIGENCE IN GREG EGAN'S SCIENCE FICTION.....4	
<i>I. Boyarkina</i>	
SCHOOL ENVIRONMENTAL EDUCATION IS THA BASIS OF ENVIRONMENTAL EDUCATION5	
<i>G. Bunel, O. Davydova-Loiko</i>	
PROBLEMS OF INTRODUCTION OF CIRCULAR ECONOMY IN BELARUS6	
<i>L. Chayka, L. Kuzina</i>	
THE IMPACT OF FOOD WASTE ON THE ENVIRONMENT7	
<i>D. Chkurakova, L. Kuzina</i>	
IFFERENCES IN THE VERBAL DEFINITION OF THE CHARACTERISTICS OF THE ECOLOGICAL QUALITY OF PRODUCTS IN SOME LANGUAGES AS A BASIS FOR THE UNIFICATION OF THEIR ENVIRONMENTAL LABELING.....8	
<i>V. Gudovich, A. Fralou</i>	
ROLE OF AN ACTIVE LIFESTYLE ON HUMAN PHYSICAL HEALTH9	
<i>O. Hadasevic</i>	
INFLUENCE OF STRESS ON MENTAL AND PHYSICAL HEALTH OF THE HUMAN.....10	
<i>I. Olevskaya, R. Kazakov</i>	
TECHNOLOGY OF MANUFACTURING ORGANIC CARDS IN SECONDARY EDUCATIONAL INSTITUTION11	
<i>N. Kirchuk</i>	
ESG PRINCIPLES AS THE MAIN COMPONENT OF THE STRATEGY OF A MODERN COMPANY.....12	
<i>M. Kirikovich, O. Moyseenok</i>	
ENVIRONMENTAL IDEAS OF THE PHILOSOPHY OF TAOISM13	
<i>D. Kolesnikovich, N. Lepskaya</i>	
CONSUMING SOCIETY13	
<i>A. Korotkevich, A. Budko</i>	
THE PROBLEM OF EXPIRED DRUGS14	
<i>Y. Kuratnik, L. Kuzina</i>	
BRAIN CAPACITY OF YOUNG BASKETBALL PLAYERS IN TRAINING AND COMPETITIVE ACTIVITIES15	
<i>M. O. Lashchevskaya, N. A. Buzlyakov, I. Z. Olevskaya</i>	
PSYCHOPHYSIOLOGICAL STATE OF HEALTH OF THE RESIDENTS OF MODERN MEGAPOLISES IN THE CONDITIONS OF URBANIZATION.....16	
<i>V. Luchina, V. Sivukha</i>	
THE MAIN PROBLEMS OF INVASIVE ANIMAL SPECIES IN BELARUS17	
<i>E. Makarevich, I. Khandohiy</i>	
FACTORS OF TOURISM DEVELOPMENT – DIVERSITY AND CLASSIFICATION18	
<i>A. Makavitski</i>	
DEVIANT BEHAVIOR IN ADOLESCENTS19	
<i>A. Melnichonok, S. Pekarskaya, I. Olevskaya</i>	
THE PSYCHOLOGY OF STRESS20	
<i>D. Mozheiko, D. Zhukouskaya, I. Olevskaya</i>	
ECONOMIC ASPECTS OF THE IMPLEMENTATION OF ORGANIC AGRICULTURE IN THE REPUBLIC OF BELARUS.....21	
<i>A. Nazarovich</i>	

INSTRUCTIONAL DESIGN: THE ESSENCE OF THE ISSUE.....	22
<i>A. Osinovskaya</i>	
DEVELOPMENT OF A BICYCLE ROUTE PROJECT IN BARANOVICH DISTRICT AS A WAY TO IMPROVE TOURISTIC AND RECREATION POTENTIAL.....	23
<i>A. E. Rasskazova</i>	
INFLUENCE OF HYPOTHYROIDISM ON HUMAN MENTAL HEALTH.....	24
<i>D. Sikita, A. Derachits, I. Olevskaya</i>	
PSYCHOLOGICAL FEATURES OF PANIC DISORDER.....	25
<i>L. A. Sultanova , I. Z. Olevskaya</i>	
THE PROBLEM OF INFLATED EXPECTATIONS.....	26
<i>V. Timchenko, M. Yakauleva</i>	
PROBLEMS OF ECOLOGICAL CONSCIOUSNESS AND BEHAVIOR OF STUDENTS.....	27
<i>A. Vabishchevich, T. Kapustina</i>	
ENVIRONMENTAL EDUCATION OF SCHOOLCHILDREN WITHIN THE FRAMEWORK OF THE ACADEMIC SUBJECT "MAN AND THE WORLD"	28
<i>S. Vergeichik, E. Zhuk</i>	
EXPERIENCE IN ORGANIZING DISTANCE LEARNING STUDENTS	29
<i>A. Yatskovskaya, D. Churakova, T. Kapustina E. Zhuk</i>	
"GREEN ECONOMY" IN THE CONTEXT OF SUSTAINABLE DEVELOPMENT	29
<i>A. Yatskovskaya, L. Kuzina</i>	

SECTION 2 MEDICAL ECOLOGY

THE EFFECT OF SOME MONOSACCHARIDES ON INSULIN FIBRILLATION	31
<i>V. Abakumets, R. Baranovskiy, N. Bogdanova, K. Bulanova</i>	
THE RARE MUTANTS OF BARLEY PRODUCED IN CONDITIONS OF MOUNTAINS.....	32
<i>I. Abdulov, I. Amanturtiev</i>	
THE EFFECT OF ANTIMICROBIAL THERAPY OF ORAL MUCOSA IN NORMAL AND PATHOLOGICAL CONDITION.....	32
<i>Abdulrazzak Mohammad Sabah Abdulrazzak, N. Ikonnikova</i>	
THE ANALYSIS OF THE POSSIBILITIES OF ACCUMULATION OF ALUMINUM IONS BY ERYTHROCYTES AND LYMPHOCYTES OF HUMAN PERIPHERAL BLOOD	33
<i>P. Adashova, A. Skorobohatova, E. Slobozhanina, E. Smirnova</i>	
EFFECT OF HELMAR 1 POLYPHENOL EXTRACT ON GLUTATHIONE PEROXIDASE ENZYME ACTIVITY IN RAT LIVER MITOCHONDRIA IN TOXIC HEPATITIS	34
<i>S. Ahmedova, M. Asrarov, S. Mirzakulov, M. Pozilov</i>	
IMPORTANCE OF MEDICAL ECOLOGY IN THE RECOVERY PERIOD FROM COVID-19.....	35
<i>G. Akhmedova, B. Zaripov, B. Kakhorov</i>	
INTERACTION BETWEEN NANOTUBE (8,10) AND RESVERATROL.....	37
<i>A. Augustinovich</i>	
DETERMINATION OF THE CONTENT OF ZINC IONS IN THE BLOOD IN PREECLAMPSIA.....	38
<i>R. Baranovsky, A. Zhiv, K. Bulanova</i>	
ANALYSIS OF LONG-TERM DYNAMICS OF CAUSES OF MORTALITY OF THE POPULATION OF THE REPUBLIC OF BELARUS.....	39
<i>A. Bobrova, N. Porada</i>	
INFLUENCE OF BONE MARROW – DERIVED MULTIPOTENT MESENCHYMAL STROMAL CELLS ON THE PROLIFERATIVE POTENTIAL OF LEUKEMIA K562 CELL LINE	40
<i>V. Bondarenko, M. Yurkevich</i>	
RETROSPECTIVE ANALYSIS OF THE INCIDENCE OF CIRCULATORY SYSTEM DISEASES OF ADULT POPULATION OF CHASHNIKI REGION IN 2015–2019.....	41
<i>E. Bulyno, A. Sysa</i>	
ASSESSMENT OF THE EFFECT OF CO ₂ ON THE LEVEL OF SORPTION OF FURANOCOUMARINS.....	42
<i>V. Cheplya, S. Shahab</i>	

CREATION OF A GENETIC CONSTRUCT CARRYING THE DNA POLYMERASE GENE OF THE BACTERIOPHAGE <i>PHI29</i>	43
<i>V. Chichina, A. Bulatovsky</i>	
MODERNIZATION OF THE EQUIPMENT OF THE RADIOLOGICAL DEPARTMENT OF THE STATE INSTITUTION «N. N. ALEXANDROV NATIONAL CANCER CENTRE OF BELARUS»	44
<i>I. Chirkova, T. Chikova</i>	
MODERN HIGH-TECH EQUIPMENT OF THE RADIOLOGY DEPARTMENT OF THE STATE INSTITUTION «N. N. ALEXANDROV NATIONAL CANCER CENTRE OF BELARUS».....	45
<i>I. Chirkova, T. Chikova</i>	
CHANGES IN THE CONTENT OF LPO PRODUCTS IN A RAT LIVER MITOCHONDRIA OF THE "RAPID AGING" MODEL AND THE EFFECT OF SUPROMOLECULAR COMPOUNDS ON THEM	46
<i>S. Dalimova, Sh. Kuziev, G. Umarova, G. Mukhammadjanova, M. Yunusova, N. Khamdamova, S. Khamroev, M. Mustafakulov, D. Azimova</i>	
STUDY OF CARDIOPROTECTIVE PROPERTIES SUPRAMOLECULAR COMPOUNDS WITH GLYCIRRIZIC ACID	46
<i>S. Dalimova, M. Yunusova, G. Umarova, Sh. Kuziyev, G. Mukhamadjanova, N. Khamdamova, S. Khamroyev, M. Mukhamedova, M. Dadakhonova</i>	
SYNTHESIS OF TRIOL N-METHYLMORPHOLINO INOSINE.....	47
<i>E. Deusova, M. Khanchevskiy, V. Pashkovich, E. Kvasyuk</i>	
EPIDEMIOLOGICAL ANALYSIS OF THE INCIDENCE OF THE POPULATION OF THE KRUPSKY DISTRICT WITH RESPIRATORY DISEASES FOR 2014–2019	48
<i>K. Dragun, A. Sysa</i>	
GENES OF SEROTONINEGIC SYSTEM AND ITS INFLUENCE ON HUMAN PSYCHOEMOTIONAL STATE.....	49
<i>I. Drozdov, I. Mosse</i>	
EXPLORING THE POSSIBILITIES OF CREATING A GENETIC CONSTRUCT FOR A DNA VACCINE AGAINST SARS-COV-2.....	50
<i>A. Dubinskaya, I. Kazlovsky, J. Venskaya</i>	
FUNCTIONAL ACTIVITY OF NEUTROPHILS IN FUNGAL DISEASES OF NAILS, SKINHAND MUSCOUS MEMBRANES	51
<i>N. V. Emelianenko, T. R. Romanovskaya</i>	
ANTITUMOR ACTIVITY OF ZOLEDRONIC ACID	52
<i>V. Gamenyuk, M. Khancheuski, M. Labai</i>	
ANALYSIS OF INCIDENCE AND TERRITORIAL DISTRIBUTION OF INFECTIOUS MONONUCLEOSIS IN BELARUS	53
<i>V. Garonina, Yu. Lyakh</i>	
THE IMMUNE SYSTEM DURING PHYSICAL ACTIVITY	54
<i>B. Kakhorov, M. Khojamkulova</i>	
PHYSICAL SORPTION OF 6-THIO-2-DESOXYGUANOSINE AND 6-METHYL-2-ETHYL-PYRIDIN-3-OL WITH NANOTUBE CNT (10,10-8)	55
<i>R. Kazakov, M. Khancheuski, S. Shahab, L. Filippovich</i>	
PREVALENCE OF CONGENITAL DEFECTS IN THE DEVELOPMENT OF THE MAXILLOFACIAL REGION	56
<i>V. Kazyuchits, N. Kokorina, A. Ershova-Pavlova</i>	
PHYSIOLOGICAL ALTERATIONS OF MITOCHONDRIA UNDER DIABETES CONDITION AND ITS CORRECTION BY POLYPHENOL GOSSITAN	57
<i>Sh. Khalilov, M. Pozilov, U. Gayibov, X. Ruziboyev, M. Asrarov, N. Abdulladjanova</i>	
ENZYMATIC SYNTHESIS OF 6-THIOGUANOSINE	58
<i>M. Khancheuski, L. Birichevskaya, A. Bulatovski, A. Trifonova, A. Zinchenko</i>	
ELISA DIAGNOSTICS OF CORONAVIRUS INFECTION.....	59
<i>P. S. Khariton, E. E. Tarasova, N. S. Khariton</i>	
EFFECT OF INORGANIC POLYPHOSPHATES AND ADP ON THE ACTIVITY OF ENDOPLASMATIC RETICULUM CALCIUM ATPASE.....	60
<i>F. Khasanov, A. Baev, S. Dalimova</i>	

COMPARATIVE ANALYSIS OF THE ANOMALIES OF THE STRUCTURE OF THE ANNUAL SCOTS PINE LAYERS IN DIFFERENT FOREST TYPES	61
<i>A. Khokh</i>	
VARIABILITY OF LATE AND EARLY WOOD CONTENT IN THE ANNUAL SCOTS PINE LAYER UNDER ANTHROPOGENIC LOAD	62
<i>A. Khokh</i>	
STUDY OF THE INFLUENCE OF POLYCATION POLYELECTROLYTES ON THE STATE OF IMMUNOGLOBULIN IMMOBILIZED ON NANOSTRUCTURED SILVER FILMS	63
<i>I. Koktysh, Ya. Melnikova, T. Pitsko (Kaluhina), O. Matusevich, S. Maskevich</i>	
ASSESSMENT OF BIOLOGICAL PROPERTIES OF SPECIES <i>Achillea L.</i> PERSPECTIVE FOR THE PRODUCTION OF DERMATOLOGICAL AND COSMETOLOGICAL PREPARATIONS	64
<i>A. Kolos</i>	
NEUROPROTECTIVE EFFECTS OF METABOLIC ACTIVATED MITOPHAGY FOR THE PATIENT'S WITH HEREDITARY FORMS OF PARKINSON'S DISEASE.....	65
<i>Nafisa R. Komilova¹, Zuhra Ya. Kuchkarova², Ulugbek Z. Mirkhodjaev</i>	
RELATION OF THE ACTIVITY OF THE COMPLEMENT SYSTEM AND THE LEVEL OF ANTICLEBSIELOUS ANTIBODIES IN ADULTS	66
<i>A. Kostyuk, T. Romanovskaya</i>	
ANTIBIOTIC RESISTANCE IN LACTOBACILLUS, BIFIDOBACTERIUM AND BACILLUS.....	67
<i>K. Kot</i>	
ANALYSIS OF THE INCIDENCE OF ALCOHOLISM AND ALCOHOLIC PSYCHOSES IN THE REPUBLIC OF BELARUS.....	67
<i>E. Kozlova, N. Gerasimovich</i>	
THE EFFECT OF VITAMIN D ON THE DEVELOPMENT OF TYPE 2 DIABETES MELLITUS	68
<i>D. Kozlovich, N. Bogdanova</i>	
ECOLOGICAL AND SOCIAL FACTORS AS A CAUSE OF MULTIPLE SCLEROSIS DEVELOPMENT	69
<i>A. Kozorez, E. Akshevskaya</i>	
PROGNOSTIC SIGNIFICANCE OF INTEGRAL INDICATORS OF CELLULAR REACTIVITY OF HOMEOSTASIS IN CORONAVIRUS INFECTION COVID-19.....	70
<i>E. Kozyreva, R. Smolyakova, N. Khokhlova, I. Antashkevich, E. Shpadaruk</i>	
ANTIOXIDANT PROPERTIES OF NATIVE, DEFATTED, FERMENTED AND HYDROLYZED BOVINE COLOSTRUM.....	72
<i>P. Krasovskaya, E. Tarun, E. Staselovich, T. Halavach, R. Romanovich</i>	
ANALYSIS OF THE CELLULAR COMPOSITION OF PERIPHERAL BLOOD OF PATIENTS WITH STROKE	73
<i>A. Krishtopenko, E. Shpadaruk, R. Smolyakova</i>	
ANALYSIS OF THE MORBIDITY OF THE POPULATION OF THE REPUBLIC OF BELARUS WITH SOCIALLY SIGNIFICANT INFECTIONS (2005–2019)	74
<i>L. Kurilova, N. Porada</i>	
INTRAVENOUS LASER BLOOD IRRADIATION OF DIABETES MELLITUS PATIENTS	75
<i>Y. Li, V. Lemiasheuski, K. Ostrenko, A. Ovcharova</i>	
FEATURES OF THROMBIN-INDUCED PLATELET AGGREGATION IN ARTERIAL HYPERTENSION	76
<i>V. Linnik, A. Bakunovich</i>	
STUDY OF WATER AND ALCOHOL EXTRACTS OF PLANTS BY THIN-LAYER CHROMATOGRAPHY	77
<i>Yu. Lozyuk, E. Tarasova</i>	
QUANTUM-CHEMICAL MODELING AND PHYSICO-CHEMICAL PROPERTIES OF CYCLOPYROX	78
<i>M. Lubchenko, A. Yurlevich, D. Novik, S. Shahab</i>	
THE ROLE OF MICROBIOTA IN THE DEVELOPMENT OF METABOLIC DISEASES.....	79
<i>A. Lukyanova, M. Statsi, M. Lobai</i>	
AGE AND GENDER STRUCTURE OF PATIENTSWHO COMPLETED RADICAL RADIOTHERAPY COURSE FOR HEAD AND NECK CANCER AT THE BREST REGIONAL ONCOLOGICAL DISPENSARY FOR THE PERIOD 2016–2018	80
<i>R. Lukyanovsky, P. Demeshko, A. Batyan, E. Hancharova</i>	

MATHEMATICAL MODELING OF THE DISTRIBUTION OF VIRAL INFECTIONS IN URBOECOSYSTEMS	81
<i>M. Madani, O. Garkovich, M. Turetsky</i>	
THE ROLE OF HYDROGELS IN THE ECOLOGICALLY CLEAN CROP OF <i>CICER ARETINUM L.</i> IN ARID REGIONS OF UZBEKISTAN	82
<i>S. Makhmadiyev, Sh. Abdullaev</i>	
EFFECT OF GUANOSINE AND GUANOSINE TRIPHOSPHATE ON THE PROCESS OF FIBRIL FORMATION OF INSULIN MOLECULES	83
<i>A. Makhnach, N. Bogdanova, J. Venskaya, V. Sagan, O. Sokolovich</i>	
EFFECT OF LOW-INTENSITY LASER RADIATION EXPOSURE TIME ON MICROORGANISMS	84
<i>A. Mandrik, E. Tarasova</i>	
THE PROBLEM OF "SMALL DOSES" IN RADIOBIOLOGY	85
<i>U. Martynenko, N. Gerasimovich</i>	
INFLUENCE OF γ -RADIATION ON DESTRUCTION AND CRYSTALLINE STARCH	86
<i>E. Maslyukov, A. Bulavko, V. Litvyak, V. Kravchenko, A. Batyan, M. Atroshko</i>	
MEDICINAL PROPERTIES OF <i>SALVIA OFFICINALIS L.</i>	87
<i>A. Matkarimova, G. Ergasheva</i>	
ESTIMATION OF THE DYNAMICS OF THE LEVEL OF ENDOGENIC INTOXICATION IN PATIENTS WITH TUBERCULOSIS DURING COMBINED THERAPY	87
<i>A. Mazurova, K. Shpadaruk, R. Smolyakova</i>	
EFFECT OF POLY-L-LYSINE ON THE FLUORESCENCE INTENSITY OF IgG-FITC CONJUGATES IMMOBILIZED ON THE SURFACE OF SILVER NANOFILMS	88
<i>Ya. Melnikova, I. Koktysh, T. Pitsko (Kaluhina), O. Matusевич, S. Maskevich</i>	
ESTABLISHING THE RELATIONSHIP BETWEEN THE CONCENTRATION OF SOLID PARTICLES IN THE ATMOSPHERIC AIR AND THE INCIDENCE OF ONCOLOGICAL DISEASES IN THE POPULATION OF THE REPUBLIC OF BELARUS	90
<i>M. Mikulich, I. Pukhteva</i>	
COMPARATIVE ANALYSIS OF ECOLOGICAL EDUCATION IN THE REPUBLIC OF BELARUS AND THE REPUBLIC OF POLAND	91
<i>E. Misuno, E. Smirnova</i>	
BEHAVIORAL ACTIVITY AND BIOCHEMICAL PARAMETERS OF THE CENTRAL NERVOUS SYSTEM TISSUE ON THE MODEL OF THE NEURODEGENERATIVE STATE OF PARKINSON'S DISEASE	92
<i>M. Mustafakulov, T. Ishankhodzhaev, B. Zainutdinov, T. Saatov, Sh. Kuziev, S. Hamroyev</i>	
IMMUNOCHEMICAL CHARACTERIZATION OF FRAGMENTS OF ANTIBODIES TO FERRITIN	92
<i>B. Muzychenko, Y. Melnikova</i>	
BIOLOGICAL CHARACTERISTICS OF ADENOSINE MONOPHOSPHATE	93
<i>D. Novik, A. Yurlevich, M. Lubchenko, S. Shahab</i>	
DETERMINATION OF ERCC1 EXPRESSION LEVEL IN PATIENTS WITH COLORECTAL CANCER	94
<i>M. Oev, E. Shpadaruk, R. Smolyakova</i>	
SYNTHESIS OF 8-AZIDOFLUDARABINE	95
<i>E. Osipova, E. Deusova, M. Khancheuski, E. Kvasyuk</i>	
RETROSPECTIVE ANALYSIS OF MORBIDITY ADULT POPULATION OF THE CITY OF BYKHOV (2007–2018)	96
<i>V. Papruga, M. Dubina</i>	
INFLUENCE OF SOPHOROFLAVONOSIDE ON THE ACTIVITY OF THE CYTOCHROS-C-OXIDASE ENZYME IN RAT LIVER MITOCHONDRIA UNDER INTOXICATION WITH HALOXIFOP-R-METHYL PESTICIDE	97
<i>M. Parpieva, H. Ruziboev, M. Pozilov, S. Nishanbaev</i>	
ION-EXCHANGE RESIN AS A REAGENT IN THE SYNTHESIS OF SECO-8-BROMOXANTHOSINE	98
<i>V. Pashkovich, M. Khancheuski, Y. Gretskaia, V. Yaroshevich</i>	
COMBINED ANTIHYPERTENSIVE THERAPY	99
<i>T. Piliushyna, A. Bakunovich</i>	

RELATIVE DOSIMETRY OF SMALL FIELDS.....	100
<i>V. Piskunou, S. Siamionau, T. Chikova</i>	
ANALYSIS OF THE INCIDENCE OF ARVI IN THE POPULATION OF MOLODECHNO DISTRICT IN 2011–2020	101
<i>V. Radzevich</i>	
ALZHEIMER’S DISEASE: BIOLOGICAL AND ECOLOGICAL PREREQUISITES, PROMISING DIAGNOSIS AND THERAPY METHODS.....	102
<i>A. Rafalskaya, L. Major</i>	
MICROARTHROPODS IN THE SOIL LAYERS OF SOUTH UZBEKISTAN	103
<i>M. Rakhimov, Z. Elmuratova, D. Majidova</i>	
RARE REPTILES OF THE KASHKADARYA REGION	104
<i>M. Rakhimov, E. Yangiboyev</i>	
INFLUENCE OF SOIL SALINATION ON THE EXCHANGE OF PHOSPHOLIPIDS IN PLANTS	105
<i>N. Rakhmonova, M. Abdullaeva</i>	
THYROID DISEASE IN ADOLESCENT GIRLS IN THE REPUBLIC OF BELARUS	106
<i>Y. Reznik, N. Kokorina, A. Avetisova</i>	
THE COMPOSITION OF FRUIT BODIES OF MUSHROOMS WITH MEDICINAL SIGNIFICANCE	106
<i>A. Rodzkin, N. Ikonnikova, M. Labai, E. Ateba</i>	
INDICATORS OF THE INFLAMMATORY SYNDROME IN ARVI AND INFLUENZA.....	107
<i>E. Romantsevich, T. Romanovskaya</i>	
EPIDEMIOLOGICAL ANALYSIS OF THE MORBIDITY OF THE ADULT POPULATION OF THE MINSK REGION WITH DISEASES OF THE ENDOCRINE SYSTEM FOR 2015–2019	109
<i>D. Rotova, V. Stelmakh</i>	
THE EFFECT OF ZINC IONS ON THE INSULIN MOLECULE	110
<i>V. Sagan, N. Bogdanova, A. Makhnach, O. Sokolovich</i>	
QUANTITATIVE ASSESSMENT OF THE HEALTH STATUS OF THE POPULATION OF DYATLOVO, GRODNO REGION IN 2014–2020	111
<i>J. Salash, N. Porada</i>	
FEATURES OF ADP- AND COLLAGEN-INDUCED PLATELET AGGREGATION IN ARTERIAL HYPERTENSION	112
<i>A. Saley, A. Bakunovich</i>	
SYNTHESIS OF 8-METOXYADENOSINE-DIALDEHYDE	113
<i>N. Serdjukova, M. Khancheuski, A. Trifonova, E. Kvasyuk</i>	
ANALYSIS OF THE PREVALENCE OF PANCREATIC CANCER MORPHOTYPES AND CLINICAL CHARACTERISTICS OF PATIENTS	114
<i>E. Serenkova, E. Shpadaruk, R. Smolyakova</i>	
EPIDEMIOLOGICAL ASPECTS OF THE INCIDENCE OF COLORECTAL CANCER OF THE POPULATION OF THE REPUBLIC OF BELARUS	115
<i>V. Sergeenko, A. Sysa</i>	
STUDY OF THE EFFECT OF MODIFICATIONS OF PYRIMIDINE NUCLEOTIDE ON THE ABILITY TO BIND TO HUMAN SERUM ALBUMIN BY FLUORESCENCE ANALYSIS	116
<i>M. Serpitovskaya, T. Zhukovets</i>	
ANALYSIS OF ANTIBACTERIAL ACTIVITY OF CYTIDINE 3',5'-CYCLIC MONOPHOSPHATE IN <i>PROTEUS MIRABILIS</i>	117
<i>A. Shihad, A. Sysa, E. Gritskevitch</i>	
<i>IN VITRO</i> ANTIBACTERIAL ACTIVITY OF NELARABINE PHOSPHATE AGAINST <i>SARCINA LUTEA</i> STRAIN.....	118
<i>A. Shihad, A. Sysa, E. Gritskevitch</i>	
CHANGES IN BLOOD BIOCHEMICAL INDICATORS IN PATIENTS WITH PREVIOUS CORONAVIRUS INFECTION	119
<i>O. Shinkevich, E. Tarasova</i>	
PHOTON AND ELECTRON OUTPUT CONSTANCY.....	120
<i>A. Shish, T. Chikova</i>	

RADIOCHROMIC FILM DOSIMETRY	121
<i>A. Shish, T. Chikova</i>	
PHOTODYNAMIC THERAPY DOSIMETRY	122
<i>A. Shish, T. Chikova</i>	
CONCEPT DEVELOPMENT OF A QUALITY GUARANTEE PROGRAM OF EXAMINATION IN THE DEPARTMENT OF RADIOISOTOPE DIAGNOSTICS OF MINSK CITY CLINICAL ONCOLOGY CENTER.....	123
<i>D. Shpak, T. Chikova</i>	
STAGES OF IMPLEMENTATION OF THE QUALITY ASSURANCE PROGRAM OF EXAMINATION IN MINSK CITY CLINICAL ONCOLOGY CENTER.....	124
<i>D. Shpak, T. Chikova</i>	
BIOLOGICAL ACTIVITY OF LOPINAVIR, RITONAVIR AND NELFINAVIR AS POTENTIAL INHIBITORS OF SARS-COV-2 MAIN PROTEASE M ^{PRO}	125
<i>A. Sidorova, A. Bakunovich</i>	
INFLUENCE OF NUCLEOSIDES ON FIBRILL FORMATION OF INSULIN	126
<i>O. Sokolovich, N. Bogdanova, V. Sagan, A. Mahnach</i>	
PHILLOSOPHERE PATHOLOGIES OF DOMINANT PLANT SPECIES OF SMALL RECREATION ZONES IN MINSK ON THE EXAMPLE OF MIKHAILOVSKY SQUARE	127
<i>Y. Sorgovitskaya, A. Chernetskaya</i>	
SOME REGIONAL FEATURES OF MODERN THYROID PATHOLOGIES OF THE URBAN POPULATION OF THE REPUBLIC OF BELARUS	128
<i>A. Soropyatova</i>	
ANTIOXIDANT ACTIVITY OF WHEY AND COLOSTRUM HYDROLYZATES COMPLEXES WITH CYCLODEXTRIN	129
<i>E. Staselovich, E. Tarun, P. Krasovskaya, T. Halavach, R. Romanovich</i>	
MODELING OF THE BIOLOGICAL ACTIVITY OF THE ESSENTIAL OILS COMPONENTS	130
<i>A. Stasevich, A. Hryhoryeu, A. Bakunovich</i>	
FEATURES OF THE DIAGNOSIS OF FELINE VIRAL IMMUNODEFICIENCY AND FELINE VIRAL LEUKEMIA.....	131
<i>M. Statsi, Y. Melnikova</i>	
ANALYSIS OF THE DYNAMICS OF RESPIRATORY DISEASES OF THE POPULATION OF LARGE CITIES OF THE MINSK REGION	132
<i>O. Susha</i>	
COMPARATIVE ANALYSIS OF THE DYNAMICS OF THE INCIDENCE OF RESPIRATORY DISEASES OF THE POPULATION SERVED IN THE UZ "28TH CITY POLYCLINIC" OF PERVOMAIISKY AND UZ "17TH CITY POLYCLINIC" OF THE ZAVODSKY DISTRICT OF MINSK...133	
<i>O. Susha</i>	
A RETROSPECTIVE ANALYSIS MORBIDITY OF THE POPULATION MIORY DISTRICT VARICELLA.133	
<i>K. Sushko, M. Dubina</i>	
THE PRODUCTION OF SUPEROXIDE DISMUTASE 3 AND VASCULAR ENDOTHELIAL GROWTH FACTOR RECEPTOR BY MULTIPOTENT MESENCHYMAL STROMAL CELLS UNDER HYPOXIA CONDITION	134
<i>A. Svirskaya, M. Yakauleva, A. Dubko, D. Nizheharodava</i>	
MOLECULAR DOCKING OF 5-(2-HYDROXYBENZYLIDENE)PYRIMIDINE-2,4,6(1H,3H,5H)-TRIONE WITH A CRYSTAL STRUCTURE OF THE PROTEIN COMPLEX 7D2S	136
<i>I. Syrytskii, S. Shahab, V. Linnik, A. Pyrko, L. Filippovich</i>	
ANTIOXIDANT ACTIVITIES OF THE 5-(2-HYDROXYBENZYLIDENE)PYRIMIDINE-2,4,6(1H,3H,5H)- TRIONE.....	137
<i>I. Syrytskii, S. Shahab, A. Pyrko, L. Filippovich</i>	
ANTIOXIDANT ACTIVITY (Z)-4-(2-HYDROXYBENZILIDENE)-3-METHYLISOXAZOL-5 (4H)-ONE.....	138
<i>I. Syrytskii, S. Shahab, A. Pyrko L. Filippovich</i>	
SYNTHESIS OF 8-BROMOISOGUANINE	139
<i>A. Trifonova, M. Khanchevsky, E. Kvasyuk</i>	

ANALYSIS OF DISABILITY AND MORTALITY OF THE POPULATION OF THE REPUBLIC OF BELARUS DUE TO DIABETES MELLITUS FOR 2015–2019	140
<i>V. Trosko, Yu. Lyakh</i>	
THE PHENOTYPE OF $\gamma\delta$ T-LYMPHOCYTES IN PATIENTS WITH INFLAMMATORY BOWEL DISEASES	141
<i>D. Tsekanovich, A. Starastin, A. Dybau, D. Nizheharodava</i>	
EPIDEMIOLOGICAL ANALYSIS OF MORBIDITY OF MENTAL AND BEHAVIORAL DISORDERS IN 2010–2019	142
<i>E. Tserlyukevich, N. Porada</i>	
MEDICAL REHABILITATION AFTER POSTED CORONAVIRAL COVID-19 INFECTION	143
<i>A. Tsvetkova</i>	
ANALYSIS OF ANTIOXIDANT ACTIVITY OF GROOVE MUSHROOMS COLLECTED IN RUSSIA, BELARUS AND CHINA	144
<i>A. Tuboleva, Y. Pavlovskaya, E. Tarun</i>	
PHYSICAL SORPTION BETWEEN NANOTUBE (8,10) AND RESVERATROL	145
<i>A. Tushinskaya</i>	
ANTIOXIDANT ACTIVITY OF PYRIMIDINE DYES	146
<i>A. Tushinskaya, A. Augustinovich, A. Hryhoryeu, D. Ustymchuk</i>	
FORMATION OF A COMPLEX IN A SYSTEM: NANOTUBE (8,10) AND RESVERATROL	147
<i>D. Ustymchuk</i>	
LABORATORY DIAGNOSTICS OF CORONAVIRUS INFECTION SARS-COV-2	148
<i>J. Venskaya, A. Makhnach, A. Dubinskaya</i>	
THE DIAGNOSTIC VALUE OF DETERMINING THE TITERS OF ANTIBODIES TO HEPATITIS B AND C IN SERUM SAMPLES	149
<i>A. Voroshnina, E. Tarasova</i>	
DESIGN AND SYNTHESIS OF A BIOLUMINESCENT PROBE PRECURSOR (AMPPD)	150
<i>Wanghui, S. Shahab</i>	
EFFECT OF MESENCHYMAL STROMAL CELLS ON IL-18 PRODUCTION IN CROHN'S DISEASE	151
<i>M. Yakauleva, M. Zafranskaya, V. Timchenko</i>	
«ANALYSIS OF INCIDENCE WITH PRIMARY LOSS OF EMPLOYMENT DUE TO INJURY AT JSC «SKBZ «AIBERTIN» (2016–2020)	152
<i>S. Yakovchik, V. Stelmakh</i>	
STUDY OF THE GENE EXPRESSION OF GHRELIN AND NESFATIN-1 GENES IN RAT ORGANS	153
<i>I. Yakubov, A. Kuliboev</i>	
EFFECTS OF ANTHROPOGENIC FACTORS ON THE GEOLOGICAL ENVIRONMENT OF SHANDONG PROVINCE	154
<i>Xu. Yanhui, V. Lemiasheuski</i>	
SYNTHESIS OF DISODIUM SALT OF DI-BISULFITADENOSINE	155
<i>V. Yaroshevich, J. Gretzkaya, M. Khancheuski, E. Kvasyuk</i>	
SYNTHESIS OF SECO DERIVATIVES OF ADENOSINE AND URIDINE	156
<i>V. Yaroshevich, J. Gretskaya, V. Pashkovich</i>	
THE INFLUENCE OF THE URBAN ENVIRONMENT ON THE DIAGNOSIS ON THE OF MALE AND FEMALE INFERTILITY IN THE POPULATION OF THE REPUBLIC OF BELARUS	157
<i>M. Yaskovich, P. Kirvel</i>	
STATISTICAL ANALYSIS OF THE DATA OF REGISTRATION OF CONGENITAL DEVELOPMENTAL FAULTS	158
<i>A. Yatskov, A. Ershova-Pavlova, N. Kokorina</i>	
DETERMINATION OF THE MOLECULAR BIOLOGICAL PROFILE AMONG PATIENTS WITH ESTABLISHED BREAST CANCER CARCINOMA AND HORMONE EXCRETION IMBALANCE	159
<i>K. Yurchenkova, A. Prokopuk, E. Shpadaruk, R. Smolyakova</i>	
BIOLOGICAL CHARACTERISTICS OF FLUDARABINE	161
<i>A. Yurlevich, D. Novik, M. Lubchenko, S. Shahab</i>	

FREQUENCY OF OCCURRENCE OF THE OPEN DUCTUS ARTERIOSUS IN NEWBORNS OF THE CITY OF MINSK	162
<i>E. Zheleznaya, N. Kokorina, A. Ershova-Pavlova</i>	
ANALYSIS OF PANCREAS CANCER INCIDENCE IN MINSK AND THE REPUBLIC OF BELARUS IN THE PERIOD FROM 2000 TO 2018	163
<i>L. Zhuk, Y. Malinovskaya, Y. Zhuk</i>	

SECTION 3

PROBLEMS OF MODERN ENVIRONMENTAL SAFETY (BIOMONITORING, BIOINDICATION, BIOREMEDIATION, RADIOECOLOGY AND RADIATION SAFETY, ENVIRONMENTAL MONITORING, MANAGEMENT AND AUDIT. INFORMATION SYSTEMS AND TECHNOLOGIES IN ECOLOGY)

LAND DEGRADATION IS A SERIOUS ECONOMIC AND ENVIRONMENTAL PROBLEM	165
<i>M. Abdurakhmanova</i>	
EFFECTS OF DRYING PROCESS ON BIOLOGICAL PROPERTIES OF SOILS	166
<i>T. Abdurakhmonov, M. Karimboeva</i>	
ECOLOGICAL, PHARMACOLOGICAL AND BIOCHEMICAL ASSESSMENT OF THE FRUITS OF CLOUDBERRY SQUAT (RUBUS CHAMAEMORUS L.) OF NORTHERN BELARUS	168
<i>E. Akshevskaya, A. Kozorez</i>	
ENVIRONMENTAL DIRECTION OF THE "A1" ENTERPRISE.....	169
<i>M. Artemchuk, V. Krasovsky, P. Krishchanovich</i>	
THE PROBLEMS OF ECOLOGICAL SAFETY IN REPUBLIC OF ARMENIA IN RECENT DISTILLATES AND THEIR IMPACT ON CHILD MORBIDITY	170
<i>T. M. Astabatsyan</i>	
ANALYSIS OF THE HANDLING OF CONTAMINATED TEXTILES IN THE REPUBLIC OF BELARUS....	171
<i>E. Baeva, V. Misiuchenka</i>	
CURRENT TRENDS IN THE GENERATION OF INDUSTRIAL WASTE AND WASTE MANAGEMENT AT THE ENTERPRISE «TREPLAST»	172
<i>K. Baradynich, A. Fralou</i>	
VARIABILITY OF CERTAIN TRAITS UNDER THE INFLUENCE OF ELECTROMAGNETIC IMPULSES TO THE VEGETATIVE ORGAN OF CULTIVARS AND LINE PLANTS DEVELOPED IN CONDITIONS OF WATER SCARCITY	173
<i>A. Bekmukhamedov, A. Khasanova, N. Khusanov</i>	
INHERITANCE OF FIBER OUTPUT IN COTTON HYBRIDS.....	174
<i>S. Boboyev, M. Mirakhmedov, G. Narkizilova, J. Ruziev</i>	
SUMMER POPULATION OF VRANOVY BIRDS IN BORISOV	175
<i>M. Bogachova, A. Khandohiy, Y. Kisialiova</i>	
MODERN PROBLEMS OF MORPHOMETRIC ANALYSIS	176
<i>N. Bushkevich</i>	
LICHENOINDICATION OF AIR POLLUTION OF M. Ya. PAVLOV'S PARK	177
<i>S. Chadovich, I. Lapshevich, A. Titov, A. Lunovich, Y. Zhyltsova</i>	
THE IMPACT OF FOOD WASTE ON THE ENVIRONMENT	178
<i>D. Churakova, L. Kuzina</i>	
ANALYSIS OF THE SPECTRAL REFLECTIVITY OF AGRICULTURAL VEGETATION	179
<i>Y. Davidovich</i>	
ASSESSMENT OF THE ECOLOGICAL STATE OF TREE PLANTS OF PAVLOV PARK	180
<i>U. Dubatoyka, E. Zhuk</i>	
IMPLEMENTATION OF THE STOCKHOLM CONVENTION ON PERSISTENT ORGANIC POLLUTANTS IN THE REPUBLIC OF BELARUS	180
<i>V. Duzinchuk, S. Golovaty</i>	

ANALYSIS OF THE POSSIBILITIES OF RECYCLING DISUSED FURNITURE IN THE REPUBLIC OF BELARUS	181
<i>P. Dzelianko, V. Misiuchenka</i>	
ANALYSIS OF THE TREATMENT OF CULLET IN THE REPUBLIC OF BELARUS	183
<i>M. Evsievich, V. Misyuchenko</i>	
EFFECT OF BIOSOLVENT DRUGS ON THE WASHING EFFECTIVENESS OF SALTS IN ALLUVIAL SOILS WITH DIFFERENT SALT	184
<i>M. Fakhrutdinova, O. Imomov</i>	
INFLUENCE OF MOLD FUNGI OF THE GENUS <i>ASPERGILLUS</i> ON A NATURAL CELLULOSE POLYMER IN MACROVISUAL OBSERVATION	185
<i>L. Gavriluyk, N. Ikonnikova</i>	
DIFFERENCES IN THE VERBAL DEFINITION OF THE CHARACTERISTICS OF THE ECOLOGICAL QUALITY OF PRODUCTS IN SOME LANGUAGES AS A BASIS FOR THE UNIFICATION OF THEIR ENVIRONMENTAL LABELING	186
<i>V. Gudovich, A. Fralou</i>	
Natural analogues in physics and mechanics	187
<i>D. Ignatovskiy, V. Krasovskiy</i>	
ADVANTAGES OF PHITOREMEDIATION CLEANSING SOILS CONTAMINATED WITH HEAVY METALS	188
<i>Z. Jabbarov, N. Sultonova</i>	
FEATURES OF RADIAL DISTRIBUTION OF NICKEL IN FOREST SOILS IN ZONES OF INFLUENCE OF ELECTRICAL PRODUCTION	189
<i>P. Kachanovich</i>	
AGRICULTURAL CROPS IN THE STRUCTURE OF THE DIET OF RESOURCE ANIMAL SPECIES IN BELARUS	190
<i>A. Kapskaya, Yu. Lyakh, M. Lezhdey</i>	
COMPREHENSIVE EVALUATION AND OPTIMIZATION OF ECOLOGICAL TRANSFORMATION OF COAL MINING SUBSIDENCE LAND – A CASE STUDY OF PAN'AN LAKE URBAN WETLAND PARK IN XUZHOU	191
<i>Ju. Kechun</i>	
COMPARATIVE ANALYSIS OF METHODS FOR CALCULATING STATIONARY RADIATION PROTECTION APPLIED TO PREMISES FOR RADIATION THERAPY	192
<i>E. Kemes, E. Preobrazhenskaya, M. Piatkevich</i>	
STUDY OF THE PROPAGATION OF CILIATE BANANA-EATEN GECKOS IN THE MINSK ZOO	193
<i>N. Kovalchuk, I. Khandohiy</i>	
COMMITMENT TO THE ALARA CONCEPT AT THE BELARUSIAN NUCLEAR POWER PLANT AS ONE OF THE KEY FACTORS IN PROVIDING THE RADIATION SAFETY OF PERSONNEL	194
<i>V. Kutas</i>	
TROPHIC STRUCTURE IN THE HYDROGEN SULFIDE LAKE BARKOVSHCHINA	195
<i>I. Lapuka</i>	
MONITORING OF SARCOCYSTOSIS AMONG HUNTING SPECIES OF WATERING BIRDS OF MINSK REGION	197
<i>S. Latushko, Yu. Lyakh</i>	
ANALYSIS OF THE INITIAL MATERIALS FOR THE "ENVIRONMENTAL PROTECTION" SECTION OF THE FLAX FIBER BLEACHING WORKSHOP RECONSTRUCTION PROJECT	198
<i>V. Lesik, V. Misyuchenko</i>	
ECONOMIC POTENTIAL OF WIND POWER INDUSTRY IN BELARUS	199
<i>L. Lipnitski, M. Treyvas, E. Cherevan</i>	
THE NEED TO DEVELOP MEASURES FOR ENERGY SAVING AND IMPROVING ENERGY EFFICIENCY IN HEALTHCARE INSTITUTIONS	200
<i>L. Lipnitski, A. Kutas, K. Solenok</i>	
URBAN AIR POLLUTION AND ITS COUNTERMEASURES IN HEBEI, CHINA	201
<i>Liu Jiu 'an, V. Lemiasheuski, Mehmet Musa Özcan</i>	

STORMWATER RUNOFF POLLUTION CONTROL – THE COMPREHENSIVE IMPROVEMENT PROJECT OF WATER ENVIRONMENT IN ZHANGJIAKOU CITY, HEBEI PROVINCE.....	202
<i>Liu Zhi gang, V. Lemiasheuski</i>	
PARASITIC NEMATODES LOCALIZED UNDER THE CUTICLE OF THE MUSCULAR STOMACH OF WILD AND DOMESTIC WATER BIRDS AND THEIR DIAGNOSTICS	204
<i>Yu. Lyakh, A. Bormotov</i>	
IXODIC TICKS IN THE RECREATIONAL ZONE OF MINSK AND THE ROLE OF HUMANS IN ENHANCING THEIR NEGATIVE INFLUENCE	205
<i>Yu. Lyakh, L. Isachenko</i>	
NATURAL RECREATIONAL POTENTIAL OF GOMEL REGION OF REPUBLIC OF BELARUS	206
<i>A. Makarenko</i>	
THE IMPACT OF THE THERMAL TREATMENT OF THE SUBSTRATE ON THE BIOLOGICAL EFFICIENCY OF GILLED MUSHROOMS (PLEUROTUS OSTREATUS).....	207
<i>A. Makas, G. Krusir</i>	
ANALYSIS OF BIOCHEMICAL PROPERTIES OF <i>BACILLUS CEREUS</i> PURE CULTURES UNDER PROLONGED EXPOSURE TO IONIZING RADIATION.....	208
<i>S. Maltsava, A. Yakubovich, E. Gritskevitch</i>	
INFLUENCE OF LOW-INTENSITY LASER RADIATION ON THE GROWTH OF PURE <i>BACILLUS SUBTILIS</i> CROPS ISOLATED FROM THE SOILS OF THE POLESYE STATE RADIATION AND ECOLOGICAL RESERVE	209
<i>E. Maslyukov, L. Gavriluyk, E. Gritskevich, A. Vabishschevich</i>	
ON A NATIONAL GLOSSARY OF NUCLEAR AND RADIATION SAFETY AS AN INSTRUMENT OF TERMINOLOGY HARMONIZATION	210
<i>K. Mazanik, T. Artsemyeva, N. Tushin, M. Michalevic</i>	
NANOSCALE PHOTOCATALYSTS BASED ON ZINC OXIDE (ZnO) FOR THE REMOVAL OF PHARMACOLOGICAL WASTE IN AQUEOUS MEDIA UNDER THE INFLUENCE OF ULTRAVIOLET RADIATION	211
<i>A. Miadzvetski, A. Shcherbovich, V. Plakhodzka, N. Savastenko, I. Filatova, V. Lushkevich, S. Maskevich</i>	
EVALUATION OF BY-PRODUCTS THAT CAUSE ENVIRONMENTAL PROBLEMS IN OLIVE OIL PRODUCTION.....	212
<i>Mehmet Musa Özcan, V. Lemiasheuski</i>	
ELECTRIC CARS IN THE CONTEXT OF ENVIRONMENTAL IMPROVEMENT.....	213
<i>V. Pleskanev, E. Yablonsky, D. Mishlakov, P. Shalkevich</i>	
IMPROVEMENT OF TECHNOLOGY OF WASTE PROCESSING OF MILK PROCESSING ENTERPRISES.....	214
<i>V. Prilutskiy, G. Krusir, O. Sagdeeva, I. Kuznetsova</i>	
PASSIVE IMMUNITY DEFENSE SYSTEM OF PLANTS AGAINST PHYTOPATHOGENIC FUNGI.....	215
<i>D. Pristavkina, A. Chernetskaya</i>	
PROBLEMS OF POLLUTION BY SOLID AND HOUSEHOLD WASTE IN THE REPUBLIC OF BELARUS.....	216
<i>I. Reich</i>	
EXPRESS METHODS FOR WATER POLLUTION IDENTIFICATION	217
<i>D. Samokhina, A. Zhukova, U. Kapitsa</i>	
ENVIRONMENTAL CRISIS IN CHINA	218
<i>H. Siqin, O. Nilova</i>	
ATMOSPHERIC AIR POLLUTION AND POSSIBLE EFFECTS FOR HUMAN HEALTH IN THE REPUBLIC OF BELARUS.....	219
<i>V. Sivukha, A. Rodzkin</i>	
ENERGY EFFICIENT TECHNOLOGIES OF PRE-SOWING PREPARATION OF SALAD SEEDS	220
<i>V. Sivukha, V. Pashynski</i>	
INFLUENCE OF HUMIDITY ON THE BIOLOGICAL EFFICIENCY OF RAIN WORM (<i>EISENIA FETIDA</i>) IN THE COMPOSTING OF FOOD WASTE	221
<i>T. Sokolova, G. Krusir, V. Sokolova O. Sagdeeva</i>	

INFOSPHERE AND FUNDAMENTAL VALUES IN THE AGE OF HYBRID WARS.....	222
<i>A. Sokolova, S. Sokolova</i>	
ANALYSIS OF RADIATION EFFECT ON INDIVIDUAL BIOTA COMPONENTS BY THE LEVEL OF CONTAMINATION BY RADIONUCLIDES ⁹⁰ Sr и ¹³⁷ Cs OF LAKES IN THE BELARUSIAN SECTOR OF THE CHERNOBYL EXCLUSION ZONE.....	223
<i>E. Sologub, E. Busko</i>	
BIOINDICATION ASSESSMENT OF SOILS ANTHROPOGENIC LOAD OF THE M. Ya. PAVLOV'S PARK.....	224
<i>A. Strakh, V. Shashkova, A. Tuz, O. Pisarenko, Yu. Zhyltsova</i>	
SEASONAL CHANGES IN THE COMPOSITION OF THE AVIFAUNA OF PARKS IN MINSK	225
<i>E. Svistun, A. Khandohiy, N. Anishchanka</i>	
ANALYSIS OF THE POSSIBILITIES OF PROCESSING OIL SLUDGE IN THE REPUBLIC OF BELARUS.....	226
<i>O. Targovich, V. Misiuchenka</i>	
STREAMING SERVICE AS MUSIC THERAPY	227
<i>A. Tsikhonchyk, U. Ivaniukovich</i>	
USAGE OF MIXED WASTE OIL IN THE MIXTURE WITH ETHANOL FOR MICROBIAL EXOPOLYSACCHARIDE ETHAPOLAN BIOSYNTHESIS	228
<i>A. Voronenko, T. Pirog</i>	
THE PROSPECT OF GARBAGE RECYCLING IN NANTONG, JIANGSU PROVINCE, CHINA	229
<i>Li Xiaolong, V. Lemiasheuski</i>	
HYDROGEN ENERGY.....	230
<i>M. Yakauleva, V. Timchenko</i>	
INVASIVE PROPERTIES OF <i>ROBINIA PSEUDOACACIA</i> IN BELARUSIAN PALESSE.....	231
<i>M. Yakhnovets, E. Yurchenko</i>	
ANALYSIS OF THE PHYSIOLOGICAL AND BIOCHEMICAL PROPERTIES OF SANITARY-INDICATIVE MICROORGANISMS ISOLATED FROM SOILS EXPOSED TO LONG-TERM EXPOSURE TO IONIZING RADIATION.....	232
<i>H. Yakubovich, S. Maltsava, E. Gritskevitch</i>	
SYNTHESIS OF PLANT GROWTH STIMULANTS BY <i>NOCARDIA VACCINII</i> IMV B-7405 STRAIN IN THE PRESENCE OF ERYTHRITOL	233
<i>V. Zhdaniuk, D. Piatetska, T. Pirog</i>	
COMPARATIVE CHARACTERISTICS WATER MONITORING METHODS	234
<i>A. Zhukova, I. Volodko, U. Kapitsa</i>	

Научное издание

АКТУАЛЬНЫЕ ЭКОЛОГИЧЕСКИЕ ПРОБЛЕМЫ

ТЕЗИСЫ XI МЕЖДУНАРОДНОЙ НАУЧНОЙ КОНФЕРЕНЦИИ
МОЛОДЫХ УЧЕНЫХ, АСПИРАНТОВ, МАГИСТРАНТОВ, СТУДЕНТОВ

2–3 декабря 2021 г.

г. Минск, Республика Беларусь

На английском языке

Редакторы *Т. В. Беляева, Ю. И. Буткевич,
Н. А. Грицай, Д. М. Громыко, Т. И. Жегало,
О. А. Климова, Н. М. Левданская, П. С. Литвинчук,
Л. Н. Никитина, Е. И. Суббота, Г. В. Третьяк, А. И. Тюрдеева*
Компьютерная верстка *М. Ю. Мошкова*

Подписано в печать 22.11.2021.

Формат 60×90 1/8.

Бумага офсетная. Печать цифровая.

Усл. печ. л. 31,00. Уч.-изд. л. 25,29.

Тираж 100 экз. Заказ №

Республиканское унитарное предприятие «Информационно-
вычислительный центр Министерства финансов Республики Беларусь».

Свидетельство о государственной регистрации

издателя, изготовителя, распространителя печатных изданий

№ 1/161 от 27.01.2014, № 2/41 от 29.01.2014.

Ул. Кальварийская, 17, 220004, г. Минск.