

22-7376

г. 1

НА ДОМ НЕ ВЫДАЕТСЯ

GREEN-2021

GRADUATE RESEARCH IN ECOLOGY, ENGINEERING AND NATURE

Proceedings
of the International Youth Scientific
and Academic Conference

Moscow, November 29, 2021

PART 1

GREEN-2021

СТУДЕНЧЕСКИЕ ИССЛЕДОВАНИЯ В ОБЛАСТИ ЭКОЛОГИИ, ИНЖЕНЕРИИ И ПРИРОДЫ

Сборник научных трудов
межвузовской студенческой
научно-практической конференции
с международным участием

Москва, 29 ноября 2021 г.

В двух частях

ЧАСТЬ 1

Москва
Российский университет дружбы народов
2021

22-04376

GREEN-2021

**СТУДЕНЧЕСКИЕ
ИССЛЕДОВАНИЯ В ОБЛАСТИ
ЭКОЛОГИИ, ИНЖЕНЕРИИ
И ПРИРОДЫ**

**Сборник научных трудов
межвузовской студенческой
научно-практической конференции
с международным участием**

Москва, 29 ноября 2021 г.

В двух частях

ЧАСТЬ 1

Москва
Российский университет дружбы народов
2021

УДК 502/504:62(063)

ББК 20.1+3

G78

Утверждено
РИС Ученого совета
Российского университета
дружбы народов

РЕДАКЦИОННАЯ КОЛЛЕГИЯ

Ответственные редакторы:

доктор экономических наук, профессор *Е.В. Савенкова*;
кандидат педагогических наук, профессор *Н.Г. Валеева*

Члены редколлегии:

кандидат филологических наук, доцент *А.В. Гусякова*;
кандидат филологических наук, доцент *Ю.Л. Закирова*;
кандидат филологических наук, доцент *М.А. Руднева*;
кандидат филологических наук, доцент *К.Л. Уланова*

G78 **GREEN-2021. Студенческие исследования в области экологии, инженерии и природы = GREEN-2021. Graduate Research in Ecology, Engineering and Nature** : сборник научных трудов межвузовской студенческой научно-практической конференции с международным участием. Москва, 29 ноября 2021 г. : в 2 частях. – Москва : РУДН, 2021.

ISBN 978-5-209-10978-5

Часть 1. – 345 с. : ил.

ISBN 978-5-209-10979-2

Сборник содержит материалы научных трудов межвузовской студенческой научно-практической конференции с международным участием «GREEN-2021 Graduate Research in Ecology, Engineering and Nature» (Москва, 29 ноября 2021). В работе конференции принимали участие ученые, докторанты, аспиранты, магистранты и студенты российских и зарубежных вузов, сотрудники научно-исследовательских учреждений и производственных предприятий.

ISBN 978-5-209-10979-2 (ч. 1)

ISBN 978-5-209-10978-5

© Оформление. Российский университет
дружбы народов, 2021

CONTENTS

HUMAN ECOLOGY

Krivosheeva E.A.

INTEREST AND SATISFACTION RATING OF RUDN
UNIVERSITY STUDENTS WITH INTERFACULTY CROSS-
COUNTRY SKIING COMPETITIONS AND
ITS ORGANISATION 3

Kurteeva Yu.A.

THE STUDY OF FORMALDEHYDE EFFECTS IN BUILDING
MATERIALS ON HUMANS 7

Nasonova A.V.

THE IMPACT OF THE METROPOLITAN ON THE MENTAL
AND PHYSICAL STATE OF HUMAN BEING 10

Sazonov Alexander

ANALYSIS OF THE SPREAD OF ECOLOGICAL
DOOMERISM THROUGHOUT THE POPULATION 13

Shanina A.N.

DETERMINATION OF ANTIOXIDANT ACTIVITY 19

ECOLOGY AND BIOSYSTEMS

Kamzabek Y.D.

SPECIALLY PROTECTED NATURAL AREAS 24

Kim-Kashmenskaya M.N.

POPULATIONS OF EARTHWORMS (LUMBRICIDAE,
CLITELLATA) IN THE CENTRAL AND SOUTHERN PARTS
OF THE BARABA STEPPE 27

Levin S.A., Levin A.A.

ESTIMATION OF BIOGAS EMISSION FROM THE SOLID
MUNICIPAL WASTE LANDFILL, POSSOKHOVA VILLAGE,
TYUMENSKY DISTRICT 32

Mehrad A.T

THE ROLE OF URBAN ECOLOGY IN URBAN PLANNING
WITH FOCUS ON PRESERVATION OF BIODIVERSITY AND
URBAN ECOSYSTEMS 38

Prokoshin A.A., Glebova I.A.

THE VALUE OF ZOOS AND NURSERIES IN MAINTAINING
BIODIVERSITY 47

<i>Sheremeta A. V., Vasil'ev V. G., Ivlev V. A., Kalabin G. A.</i> RAPID SCREENING OF TAXIFOLIN CONTENT IN LARIX SIBIRICA BY NUCLEAR MAGNETIC RESONANCE SPECTROSCOPY (NMR)	52
<i>Zhebratkina V.V., Glebova I.A.</i> THE CONCEPT OF MONITORING BIOLOGICAL DIVERSITY	57
<i>Roldugina A.V.</i> GLOBAL WARMING	62

ESSENTIAL ENVIRONMENTAL PROBLEMS IN THE REGIONS OF RUSSIA AND IN THE WORLD

<i>Adamovich M., Kharlamova M., Zubac I.</i> ILLEGAL DUMPSITES IN BELGRADE: REASONS & CONSEQUENCES	67
<i>Alaverdyan N.A., Berezkin V.Yu., Romanov S.L.</i> IODINE CONTENT IN SOILS AND GRAZING PLANT IN BORDER AREAS OF BRYANSK AND GOMEL REGIONS	71
<i>Dokuchaeva V.K., Suchkova I.A.</i> THE CATASTROPHE IN THE ARCTIC CIRCLE: NDVI ANALYSIS	75
<i>Egorova E.S.</i> ESSENTIAL ENVIRONMENTAL PROBLEMS OF THE KALUGA REGION	80
<i>Kuznetsova V.A.</i> CHARACTERISTICS OF THE CURRENT STATE OF NATURAL AND MAN-MADE GEOSYSTEMS IN TVER OBLAST	85
<i>Rybina M.A., Kvyatkovskaya T.V.</i> ABOUT THE POSSIBILITIES OF USING STATE INFORMATIONAL SYSTEMS IN PROFESSIONAL ENVIRONMENTAL EDUCATION	89
<i>Savchenko E.A.</i> ASSESSMENT OF CHANGES IN LAND MANAGEMENT ON THE TERRITORY OF NOVAYA MOSKVA BY VISUAL DECODING	92
<i>Seromlyanova K.A.</i> THE ECOLOGICAL SITUATION IN THE CRIMEA UNDER THE INFLUENCE OF ANTHROPOGENIC, INDUSTRIAL INFLUENCES	96

<i>Shekhovtsova A.S.</i>	
ENVIRONMENTAL AND GEOGRAPHICAL ANALYSIS OF NATURAL AND NATURAL-ANTHROPOGENIC SYSTEMS: CASE STUDY OF KOSTROMA OBLAST	99
<i>Ryazanova N.E., Kievtsev N.A.</i>	
SUSTAINABLE ENVIRONMENTAL MANAGEMENT AND CONSERVATION TRENDS IN RUSSIAN ARCTIC REGIONS	104
<i>Vizir A.D.</i>	
ACTUAL ENVIRONMENTAL PROBLEMS IN THE VORONEZH REGION	109
<i>Bagrov A.A, Bereznev.Y.A., Yarkhamov A.A.</i>	
RECYCLING OF DISPOSABLE ELECTRONIC CIGARETTES	112
<i>Guermazi E., Wali A., Ksibi M.</i>	
THE EFFECTS OF IRRIGATION ON OLIVE OIL QUALITY AND FRUIT GROWTH IN SEMI ARID AREA	117
<i>Kantor A.K., Kapralova D.O.</i>	
THE IMPACT OF FLOODINGS ON THE LOCATION OF CITIES IN THE FAR EAST	121
<i>Brekhova A.A.</i>	
COMPARATIVE ANALYSIS OF VALUES OF SOME HYDROCHEMICAL INDICATORS OF WATERS OF VOLGOGRAD RESERVOIR NEAR THE CITY OF SARATOV	125
<i>Sapozhnikova O.A., Ryazanova N.E.</i>	
PROSPECTS FOR COOPERATION BETWEEN THE ARCTIC COUNCIL WORKING GROUPS AND THE RUSSIAN ARCTIC REGIONS	134
<i>Isaenkov.K.A.</i>	
RESERVE PROJECT. MULTIFACTOR ANALYSIS OF THE CHOICE OF A MSW LANDFILL LOCATION	139
<i>Mintseva P.A., Mintseva A.A.</i>	
ASSESSMENT OF THE DYNAMICS OF TROPOSPHERIC OZONE CONCENTRATIONS IN MOSCOW BASED ON CONTINUOUS MONITORING DATA	145
<i>Terentyeva Y.R.</i>	
ANALYSIS OF THE DYNAMICS OF WATER RESOURCES IN THE CRIMEAN MOUNTAINS OVER THE PAST 16 YEARS	151

WATER RESOURCES AND ECOLOGY: MONITORING, POLLUTION AND RESTORATION

Baturina N.S., Darin F.A.

ASSESSMENT OF METAL CONTAMINATION IN BENTHIC
ASSEMBLAGES FROM SMALL RIVERS: MICRO-XRF
ANALYSIS APPLYING 156

Gubanova Y.K., Karl L.E., Kaygorodov E.I.

ANALYSIS OF GROUNDWATER QUALITY
OF THE MOSCOW REGION USED FOR DRINKING WATER
SUPPLY 159

Kudriashov M.A.

ANALYSIS OF DRIVERS AND CONSTRAINTS
OF THE DIRECTION "CLEAN WATER"
IN THE CONTEXT OF THE IMPLEMENTATION
OF THE RUSSIAN NATIONAL PROJECT "ECOLOGY" 164

Salazar Flores C. A.

EVALUACIÓN MICROBIOLÓGICA DE LOS AFLUENTES DE
DOS PLANTAS DE TRATAMIENTO DE AGUA POTABLE EN
ECUADOR 167

*Zolotarev K.V., Mikhailov A.N., Nakhod V.I., Mikhailova M.V.,
Zhdanov D.D.*

EXPRESSION OF GENE OF A CALCIUM TRANSPORTATION
CHANNEL SUBUNIT IN TISSUES OF COMMON CARP
(*CYPRINUS CARPIO*) EXPOSED TO CADMIUM 174

Kotenkova D.R.

GEOINFORMATION SYSTEMS FOR THE STUDY OF THE
ECOLOGICAL STATE OF WATER BODIES OF THE
REPUBLIC OF TATARSTAN 179

SOIL CONTAMINATION AND LANDSCAPE RESEARCH

Popkova A.K., Potapova A.V., Pinsky V.N.

ECOLOGICAL ASSESSMENT OF WINTER PASTURES SOILS
IN THE FOOTHILLS OF THE EASTERN CAUCASUS 184

Reva E.A.

THE ROLE OF COVER GLACIATIONS IN THE FORMATION
OF LANDSCAPES IN SIBERIAN REGION OF RUSSIA 189

Solovyeva D.A.

ASSESSMENT OF THE CONTENT OF ¹³⁷CS IN THE SOIL
COVER IN THE AREA OF NON-ACCIDENTAL PEACEFUL
NUCLEAR EXPLOSIONS 193

<i>Fedorova K.M.</i> DISTRIBUTION OF PETROLEUM PRODUCTS IN MOSCOW SOILS	197
 PRIORITY AREAS OF SUSTAINABLE FOREST MANAGEMENT	
<i>Makhinya K.I., Demina S.A.</i> TREES' HEALTH IN URBAN PARK	203
 ENERGY-SAVING, ENVIRONMENTALLY FRIENDLY CHEMICAL AND TECHNOLOGICAL PROCESSES	
<i>Kropacheva A.S.</i> AN ALTERNATIVE METHOD OF OBTAINING HYDROGEN FROM WASTE FOR THE PRODUCTION OF HYDROGEN FUEL	206
<i>Barannikova S.I.</i> POSSIBILITY OF USING THE GAINS MODEL IN RUSSIA	209
Bostan M.N. SOLAR ENERGY IN KAZAKHSTAN: CURRENT STATE AND DEVELOPMENT PROSPECTS	212
<i>Demina S. M.</i> FEATURES ANALYSIS OF OIL SLUDGE PROCESSING TECHNOLOGIES	216
<i>Fedosova E.S.</i> ENERGY- AND RESOURCE-SAVING POTENTIAL OF ELECTROCHEMICAL ACTIVATION IN THE PROCESS OF WATER PURIFICATION	220
<i>Kurkina E.V., Kameristaya M.A.</i> THE MAIN DIRECTIONS OF MODERN RESOURCE AND ENERGY SAVING IN CONSTRUCTION	224
<i>Levin A.A., Levin S.A.</i> PRODUCTION OF METHANE GAS HYDRATE AND CARBON DIOXIDE FROM THE BIOGAS OF MSW LANDFILLS FOR USE IN THE CHEMICAL INDUSTRY	229
<i>Vershinina D.E.</i> BARRIERS TO THE DEVELOPMENT OF BIOGAS ENERGY IN RUSSIA	235
<i>Zakharov M.A.</i> UTILIZATION OF THE ORGANIC FRACTION OF MSW	239

<i>Kartvelishvili I.R., Lysenko M.M.</i>	
ELECTRIC VEHICLES AS ONE OF THE WAYS TO GREEN URBAN LIFE OF MOSCOW: TWO SIDES OF THE SAME COIN	242
<i>Ponomareva A.</i>	
APPLICATION OF THE PRINCIPLES OF ZERO-WASTE PRODUCTION ORGANIZATION IN THE POULTRY PROCESSING INDUSTRY	248
<i>Belov P.V.</i>	
EXPERIMENTAL STUDY OF THERMAL DECOMPOSITION OF GASEOUS HYDROCARBONS FOR THE IMPLEMENTATION OF CARBON-NEUTRAL ENERGY TECHNOLOGICAL CYCLES	253
GREEN BUILDING	
<i>Erokhina E.S.</i>	
GREEN BUILDING AS A NEW TREND IN URBAN DEVELOPMENT	258
<i>Gruzdova M.A., Sidochenko N. D.</i>	
DEMAND FOR TEXTILE COLLECTION POINTS IN YARD TERRITORIES FOR RECYCLING IN THE CITY OF MOSCOW	260
<i>Polukhina A.Y., Kovaleva A.G.</i>	
APPLICATION OF STANDARDS AND TECHNOLOGIES OF «GREEN» CONSTRUCTION AND PROSPECTS OF ITS DEVELOPMENT IN RUSSIA AND EUROPEAN COUNTRIES	264
<i>Glotova E.P.</i>	
GREEN MORTGAGE AS A WAY OF REDUCING THE CARBON FOOTPRINT OF THE REAL ESTATE SECTOR	270
<i>Filatova P.A., Glebova I.A.</i>	
THE FOUNDATION OF THE TULA CENTRAL PARK OF CULTURE AND RECREATION NAMED AFTER P.P. BELOUSOV AND ITS FLORAL DIVERSITY	273
LEGAL AND ECONOMIC FRAMEWORK FOR ENVIRONMENTAL MANAGEMENT	
<i>Milutka A.S., Adarchenko I.A.</i>	
ANALYTICAL OVERVIEW OF THE SLOVAK REPUBLIC LEGISLATION IN THE FIELD OF ENVIRONMENTAL PROTECTION	279

<i>Pokrovskaya D.I.</i> LEGAL BASIS FOR ACCOUNTING FOR GREENHOUSE GAS EMISSIONS IN THE RUSSIAN FEDERATION	285
<i>Sheyko E.N., Mamedov A.N.</i> STRATEGIC APPROACH TO LEGAL TRANSLATION	289
<i>Zakirova Yu.L., Kaderova R.G.</i> ZU DEN KATEGORIEN BESONDERS GESCHÜTZTEN NATURGEBIETEN UND BESONDERS WERTVOLLEN KULTURERBE	293

ECOLOGY, POLITICS AND SOCIETY

<i>Beketova A.I.</i> CLIMATE JUSTICE ISSUES IN THE CONTEXT OF GLOBAL CLIMATE CHANGE	298
<i>Kuznetsova L.M.</i> THE INTERNATIONAL THREAT OF PLASTIC POLLUTION ON THE UN AGENDA	304
<i>Volkova P. G.</i> CARBON REPORTING OF RUSSIAN COMPANIES	308
<i>Bobkova E.A., Klein A.K., Koroleva A.A.</i> FEATURES OF THE FUNCTIONING OF THE LANGUAGE OF TOLERANCE OF GENDER EQUALITY	314
<i>Zakirova Yu.L.</i> ON CARBON TESTING GROUNDS IN RUSSIA	318

ACTUAL PROBLEMS OF THE HUMANITIES AND SOCIAL SCIENCES

<i>Talalova L.N., Nyamadi E.K.</i> GHANA'S TOURISM INDUSTRY STRATEGIES	321
<i>Vidruk D.A., Bashkirova Yu.V.</i> LOW DEGREE OF STRESS TOLERANCE OF THE STUDENT AS A CONSEQUENCE OF IMPROPER DISTRIBUTION OF WORK AND REST	325

**WATER RESOURCES AND ECOLOGY: MONITORING,
POLLUTION AND RESTORATION**

Othmani B., Gamelas J.A., Rasteiro M.G., Khadhraoui M.

**ECO-FRIENDLY COLORED WASTEWATERS
REMEDICATION USING GREEN FLOCCULANTS**

330