

Content

Sustainable Environmental Technologies

A VARIANT OF GREEN CONCRETE WITH INDUSTRIAL AND AGRICULTURAL WASTE	17
Catalina Mihaela Helepciuc (Gradinaru), Marinela Barbuta, Adrian Alexandru Serbanoiu, Andrei Burlacu	
ADSORPTION OF Sr²⁺ IONS FROM AQUEOUS SOLUTIONS ON THE ACTIVATED CARBON CAN-7 UNDER DYNAMIC CONDITIONS	23
Mihai Ciobanu, Tudor Lupascu, Tatiana Mitina, Igor Povar	
ANALYSING WOOD DENSITY AND BIOMASS: A CASE STUDY OF FOREST PLANTATIONS FROM MOLODOVA NOUA WASTE HEAPS, ROMANIA	31
Ilie-Cosmin Cantar, Ion Chisalita, Lucian Dinca	
GROWTH ACTIVATION OF SACCHAROMYCOPSIS (ENDOMYCOPSIS) FIBULIGERA Y-436 STRAIN BY SQUALENE AND ANOLYTE WATER IN LABORATORY EXPERIMENTS	38
Irina Senicovscaia, Tatiana Grozova, Georgiy Poleshchuk	
INQUIRY INTO THE POTENTIAL USE OF IONIC LIQUIDS INSTEAD OF INORGANIC ACIDS IN HYDROTHERMAL HYDROLYSIS OF MACROALGAE	46
Konstantza Tonova, Madlena Lazarova	
KINETIC ANALYSIS OF MANGANESE REMOVAL FROM MINE WATER - CONTINUOUS FLOW REACTION SYSTEM	54
Laurentiu Razvan Dinu, Valeriu Robert Badescu, Viorel Ion Patroescu, Gabriela Geanina Vasile, Voicu Oncu	
NANOSCALE IRON PARTICLES FOR WASTEWATER DECONTAMINATION	61
Eugenia Panturu, Razvan Ioan Panturu, Gheorghita Jinescu, Antoaneta Filcenco-Olteanu, Aura Daniela Radu	
NEW LABORATORY TECHNIQUES ON SOIL DECONTAMINATION	69
Maria Popa, Loredana Irena Negoita	
NUMERICAL MODELING OF FLOW OVER AN OGEE SPILLWAY AND INVESTIGATION OF EFFECT OF DOWNSTREAM INFLUENCES ON DISCHARGE	76
Ali Yıldız, Alpaslan Yarar, Şerife Yurdagül Kumcu	
OXIDATION OF SULPHUR SPECIES ON ACTIVE CARBONS: THE SUGGESTED MECHANISM	84
Raisa Nastas, Vasile Rusu, Tudor Lupascu	
PHOSPHATE REMOVAL FROM WASTEWATER BY USING LOW-COST ADSORBENT MATERIALS	92
Oanamari Daniela Orbulet, Cristina Modrogan, Cristina Orbeci, Dancila Madelene	

PHOTODEGRADATION OF RHODAMINE 6G IN PRESENCE OF Ag/TiO₂ PHOTOCATALYST	99
Maria Harja, Amalia Maria Sescu, Lidia Favier, Doina Lutic, Gabriela Ciobanu	
PHYSICAL MODELING OF FLOW OVER AN OGEE SPILLWAY AND INVESTIGATION OF SCALE EFFECTS BY USING FROUDE SIMILARITY	105
Ali Yıldız, Alpaslan Yazar	
REMOVAL OF HEXAVALENT CHROMIUM IONS FROM THE SIMULATED WASTEWATER USING ELECTROCOAGULATION PROCESS	111
Firas Hashim Kamar, Karim Khalifa Esgair, Baker M. Abod, Aurelia Cristina Nechifor	
REMOVAL OF NITRITE IONS FROM WATER IN DYNAMIC AND OXIC CONDITIONS	119
Tatiana Goreacioc, Raisa Nastas, Maria Sandu, Tudor Lupascu, Anatolie Tarita	
SEEDLINGS PLANTING INNOVATIVE TECHNOLOGY DEDICATED FOR SLOPE DEGRADED TERRAINS AND HARD ENVIRONMENTAL CONDITIONS	127
Constantin Gabriel Bogdanof, Alexandra Liana Visan, Dumitru Milea, Radu Ciuperca, Alexandru-Ionut Petrisor	
SLUDGE DRYING IN TUNNELS USING PHOTOVOLTAIC PANELS	135
Cornel Sava, Marius-Daniel Roman, Elena Maria Pica	
SYNTHESIS OF ZnO/CuO NANOCOMPOSITES WITH CNF AND Ag BY GEL SOL	145
Catalina Nutescu Duduman, María Gómez De Salazar Y Caso De Los Cobos José, Consuelo Gómez De Castro, Marius Niculaua, Gabriela Ciobanu, Maria Harja	
THE INFLUENCE OF TEMPERATURE ON SO₂ RETENTION FROM RESIDUAL GASES BY ABSORPTION INTO DILUTE BASIC SOLUTIONS	153
Annette Madelene Dancila, Cristina Modrogan, Cristian Onose, Oanamari Orbulet, Cristina Orbeci	
THE SOLUTION CHEMISTRY OF THE COPPER (II) - AMMONIA - THIOSULFATE AQUEOUS SYSTEM	162
Igor Povar, Stefano Ubaldini, Tudor Lupascu, Oxana Spinu, Boris Pintilie	
USING THE LECHATE TREATMENT TECHNOLOGIES FOR FERTILIZERS	170
Casen Panaitescu, Cristinel Constandache	

Pollution Assessment & Management Systems

APPROACHES TO PREDICT THE IMPACT OF AIR ATMOSPHERIC COMPONENT IN ENVIRONMENTAL IMPACT ASSESSMENT REPORTS IN ASSESSING EXTENSIONS TO ACTIVE INDUSTRIAL OBJECTS	177
Antoaneta Stefanova, Margarita Filipova	

ASSESSMENT TERMS FOR LOCAL SUSTAINABILITY MANAGEMENT	186
Ildiko Tulbure	
CHARACTERIZATION OF MINERAL SPRINGS FROM THE BUILA-VANTURARITA NATURAL PARK AREA	195
Ovidiu Teodor Matica, Luisa Roxana Popescu	
END OF WASTE CRITERIA FOR OIL WASTES	206
Georgeta Madalina Arama, Lidia Kim, Adriana Cuciureanu, Agnes Serbanescu, Ileana Nicolescu, Mona Barbu, Bogdan Stanescu, Gina Traistaru	
ENVIRONMENTAL ISSUES RESULTING FROM THE EXCAVATION OF ALLUVIAL SOIL IN PROTECTED AREAS, CASE STUDY IN ROSCI 0103 LUNCA BUZAUULI	215
Giuliano Tevi, Alexandra Stoica	
EXPLORING THE POSSIBILITIES OF AIR PURIFICATION IN URBAN ENVIRONMENTS USING GREEN ROOFING	223
Irina Tsvetanova, Ivanka Zhelev	
IDENTIFYING AND DESCRIBING THE MAIN CLIMATIC AND STRESS FACTORS THAT ARE AFFECTING FOREST AND VITICULTURAL ECOSYSTEMS	232
Diana Elena Vizitiu, Lucian Dinca, Viorica Enache, Alina Donici, Lucretia Popa, Danut Cociorva, Gabriel Murariu	
LOW HEATING VALUE PREDICTION FROM PROXIMATE ANALYSIS FOR SEWAGE SLUDGE SAMPLES	242
Agnes Serbanescu, Mona Barbu, Ileana Nicolescu, Georgeta Madalina Arama	
NEW APPROCHES REGARDING BAT CONCLUSION IMPLEMENTATION	250
Valeriu Danculescu, Andreea Cozea, Mihaela Petrescu, Raluca Diodiu, Gheorghita Tanase, Andrei Vasile	
NEW ECOLOGICAL SOLUTION TO COMBAT THE VEGETATION IN EXCESS IN NATURAL AND HYDROPOWER LAKES	258
Victorita Radulescu	
OPTIMAL POLICY OF IRRIGATION AND DRAINAGE WELLS SYSTEMS IN AFFECTED AGRICULTURAL LANDS	267
Victorita Radulescu	
PROTECTING SURFACE WATER RESOURCES THROUGH SILVICULTURAL METHODS	276
Cristinel Constandache, Lucian Dinca, Nicu Constantin Tudose, Casen Panaitescu	
THE BEST PRACTICES FOR THE ASSESSMENT OF THE RAINWATER DRAINED BY THE URBAN SEWERAGE SYSTEMS	285
Daniel Scradeanu, Giuliano Tevi, Alexandru Balint	
THE INDEXES IN ESTIMATING RAINFALL EROSIVITY – CASE STUDY BUCHAREST	294
Marin Rusanescu, Ion Durbaca, Elena Valentina Stoian	
TRANSITION OF INCD ECOIND SIMCM TO THE REQUIREMENTS OF THE NEW STANDARDS ISO 9001: 20015 AND ISO 14001: 2015	304
Virgil Criste	

USE OF REMOTE SENSING DATA IN INVESTIGATIONS OF ECOLOGICAL STATE OF WATER BODIES IN URBAN AREA OF KYIV CITY	311
Viktor Vyshnevskiy, Sergiy Shevchuk	
WATER QUALITY ASSESSMENT USING PHYSICAL-CHEMICAL PARAMETERS OF THE DANUBE RIVER (DELTAIC AREA) INCLUDING RAZIM AND GOLOVITA LAKES, ROMANIA	318
Irina Catianis, Gabriel Iordache, Dumitru Grosu, Marian Malageanu, Iulian Pojar, Ana Bianca Pavel	

Pollution Control and Monitoring

A BASELINE ASSESSMENT OF WATER QUALITY FROM PRIVATE WELLS LOCATED IN CONSTANTA COUNTY AND RISK IMPLICATIONS FOR COMMUNITY HEALTH	333
Gina Vasile Scaeteanu, Roxana Maria Madjar	
ASSESSMENT OF DRINKING WATER QUALITY FROM TREATMENT PLANTS AND CONSUMERS	341
Mariana Popescu, Diana Puiu, Madalina Mihalache, Vasile Ion Iancu, Marius Simion, Marcela Antoaneta Niculescu, Daniel Manolache, Liliana Cruceru	
COMPARATIVE STUDY REGARDING THE ANALYSIS OF THE METALS CONTENTS FROM BIOMASS WASTES THROUGH DIFFERENT METHODS OF DIGESTION	347
Gina Alina Traistaru (Catrina), Agnes Serbanescu, Mona Barbu, Ileana Nicolescu, Nicolae Ionut Cristea, Bogdan Stanescu, Ileana Cristina Covaliu	
CONSIDERATIONS REGARDING THE CONTROL OF BIOCHEMICAL OXYGEN DEMAND AND CHEMICAL OXYGEN DEMAND FROM DEJ WASTEWATER TREATMENT PLANT	354
Marius-Daniel Roman, Roxana Mare, Adriana Hadarean	
DESTRUCTION CAVITATION ACTION ON THE MICROBIAL CELLS SIZES	362
Iryna Z. Koval	
DETERMINATION OF RHODIUM FROM WASTEWATER SAMPLES USING ICP-EOS TECHNIQUE	366
Anda Tenea, Cristina Dinu, Eleonora-Mihaela Ungureanu, Gabriela-Geanina Vasile, Marius Simion	
DETERMINATION OF SULFUR COMPOUNDS WITH A STRONG OLFACTORY IMPACT ON THE POPULATION	373
Raluca Diodiu, Toma Galaon, Vasile Iancu, Mihaela Petrescu, Mihai Bratu, Valeriu Danculescu, Andreea Cozea	
HEAVY METALS EMISSIONS TO AIR FROM INDUSTRIAL PLANTS: CRITICALITIES AND SOLUTIONS	378
Elena Cristina Rada	
INTERDISCIPLINARY STUDY REGARDING THE COLOIDAL SILVER SOLUTIONS EFFECT ON <i>MOMORDICA CHARANTIA L.</i> DEVELOPMENT	384
Adriana Bira, Zoltán Marosy, Cristian Ion	

MEMBRANE FILTRATION EFFICIENCY ON TRIAZINE HERBICIDES IN ORGANIC AND AQUEOUS SOLUTIONS	392
Roxana-Elena Scutariu, Vasile Ion Iancu, Gheorghe Nechifor, Gabriel-Lucian Radu, Marius Simion, Marcela Niculescu	
MICROSTRUCTURAL AND CHEMICAL CHARACTERIZATION OF SOME WASTES FOR PHONOABSORBANT MATERIALS OBTAINING	400
Mihai Bratu, Luoana Florentina Pascu, Cristea Nicolae Ionut, Nicolescu Ileana	
ORGANIZATION OF HYDROGEOLOGICAL MONITORING WITHIN THE UKRAINIAN PART OF THE TISZA RIVER BASIN	409
Lidiia Davybidia	
PHYSICO-CHEMICAL CHARACTERISTICS AND WASTE WATER QUALITY INDEX FOR EVALUATING THE EFFICIENCY OF TREATMENT PROCESS EFFLUENT	417
Florinela Pirvu, Jana Petre, Liliana Cruceru, Iuliana Paun, Marcela Niculescu, Luoana Florentina Pascu, Nicoleta Vasilache, Florentina Laura Chiriac	
QUANTIFICATION OF ANIONIC AND NONIONIC SURFACTANTS IN DOMESTIC WASTEWATER SAMPLES COLLECTED FROM ROMANIA	426
Daniel Mitru, Catalina Stoica, Mihai Nita-Lazar	
THE REMOVAL OF NITRATE FROM DRINKING WATER, NATURAL WATER BY ION EXCHANGE USING ION EXCHANGE RESIN, PUROLITE A520E AND A500	432
Nicoleta Vasilache, Liliana Cruceru, Jana Petre, Laura Florentina Chiriac, Iuliana Claudia Păun, Marcela Niculescu, Florinela Pirvu, Giovanina Lupu	
THE USE OF CORTICOLOUS LICHEN SPECIES TO ASSESS THE LEVEL OF AIR POLLUTION WITH HEAVY METALS	443
Dorian-Gabriel Neidoni, Ladislau Andres, Valeria Nicorescu, Carol Blaziu Lehr, Elena Bucur, Adrian Sinitean	
VERIFYING THE HEIGHT OF THE DISCHARGE CHIMNEY FOR EMISSIONS RESULTING FROM HAZARDOUS WASTE INCINERATION INSTALLATIONS	451
Loredana Irena Negoita, Maria Popa	

SUSTAINABLE ENVIRONMENTAL TECHNOLOGIES

