



7th
International
Conference

join us at

WASTES

SOLUTIONS
TREATMENTS
OPPORTUNITIES

FUNCHAL, MADEIRA – VIDAMAR HOTEL
3 – 5 SEPTEMBER 2025

DAY 1-3 SEPTEMBER

8h30	REGISTRATION		
9h30	Opening Ceremony Manuel Ara de Oliveira – Regional Director for Environment and the Sea Sílvio Moreira Fernandes – Rector of the University of Madeira Amílcar Gonçalves – President of the Madeira Water and Waste Company (ARM) Rui Caldeira – President of the Regional Agency for the Development of Research, Technology and Innovation Cândida Vilarinho – Chair of the Organizing Committee of Wastes 2025 <u>Room: Auditorium</u>		
10h00	<u>Plenary Session I</u> <i>From Data to Action: Leveraging the EU4S Madeira Super-Site for Wastewater-Based Health and Environmental Intelligence</i> Ricardo Jardim-Goncalves, Madeira Super-Site coordinator (IDEA Institute) Faculty of Sciences and Technology, NOVA University of Lisbon/UNINOVA <i>Leading with Sustainable Oxygen: SESARAM's Environmental Commitment</i> Martinha Garcia, Farmácia do Hospital Dr. Nélito Mendonça, Madeira <i>Hospital of the Future: At the forefront of the Green Transition in Public Health</i> Pedro Ramos, Coordinator of the Mission Structure for Health Units, Regional Government of Madeira <u>Room: Auditorium - Chair: Cândida Vilarinho</u>		
10h45	Coffee break		
	Room Auditorium - Chair: Joel Oliveira	Room Lagoon I and II - Chair: Ana Júlia Cavaleiro	Room Lagoon III - Chair: Catarina Nobre
	Session A1: Recycling of wastes and resources recovery	Session B1: Waste-to-Energy Technologies	Session C1: Sustainable Waste Valorization Techniques
11h15	Maia, J. (75) Integrated characterization of a high-performance concrete with glass powder incorporation	Quina, M. (181) Anaerobic co-digestion for managing multiple industrial agro-residues while generating energy	Batista, C. (265) Enhancing sustainability in additive manufacturing: feedstock from metal chips
11h30	Paiva, H. (1) Synthesis and characterization of silico-aluminophosphate geopolymers produced from copper mine tailings	Maria, C. (174) Biogas power generation from municipal solid waste - challenges and perspectives in Angola	Luciano, A. (164) A sustainable management of volcanic ash: a focus on etna volcano
11h45	Tochetto, G. (111) Incorporation of glass frit on geopolymer fabricated using additive manufacturing for coal-mining water remediation	Costa, L. (93) Micro-Aeration to improve anaerobic digestion of cattle slurry	Kirkelund, G (4) Detoxification of Ferrochrome Slag by Removing Cr with an Electrolytic Method
12h00	Maia J. (74) Incorporation of glass frit on geopolymer fabricated using additive manufacturing for coal-mining water remediation	Bolaños, D. (49) Hydrothermal carbonization of pineapple stubble waste: effect of initial biomass properties on the heating value and energy yield of the resulting hydrochar	Bejda, T. (27) Use of ferruginous sludge from water treatment processes for adsorption of aqueous and gaseous pollutants
12h15	Lopes, M. (80) Inclined plane shear behaviour of aggregate-geotextile interfaces: incinerator bottom ash vs. natural aggregate	Santos, A. (22) Boosting sustainable biogas production from sauce industry	Dosta, J. (89) Acidogenic fermentation of biowaste coupled with a gas permeable membrane to produce a VFA-rich liquid with high C/N ratio for polyhydroxyalkanoates production
12h30	Mancini, G. (160) Maximizing material and energy recovery processes through Industrial symbiosis within the waste-wastewater-energy nexus		Costa, M. (73) Sustainable removal of boron from aqueous media using carob kibble waste modified by calcium chloride
12h45	Lunch		
14h15	<u>Plenary Session II</u> <i>CIRCULAR BIOECONOMY: A KEY OPTION?</i> João Nunes – BLC3 Association - Technology and Innovation Campus (Portugal) <u>Room: Auditorium - Chair: Margarida Gonçalves</u>		
	Room Auditorium - Chair: Fernando Castro	Room Lagoon I and II - Chair: Luciana Pereira	Room Lagoon III - Chair: José Góis
	Session D1: Wastes as Critical Raw Materials Resource	Session E1: Food waste management and bioeconomy	Session F1: Environmental, economic and social aspects in waste management
15h00	Schaeffer, N. (53) Selective Precipitation of Gold	Fonseca, F. (17) From waste to value: Valorization of purple onion peel as a textile bio-dye	Góis, J. (88) Packaging, and explosives and pyrotechnics waste - balancing safety and waste policies
15h15	Braga, F. (19) Valorization of waste tantalum capacitors through the recovery of critical and valuable metals	Ribeiro, L. (67) Sustainable ethylene glycol production from cellulose over fruit peel waste-derived carbon supported Ni-W catalysts	Silva, A. (249) A hybrid approach for waste collection: Integrating heuristic and metaheuristic algorithms from or-tools
15h30	Passos, H. (122) New hydrometallurgical processes for the recovery of valuable and critical metals from e-waste	Tudella, J. (171) Valorization of agro-industrial wine residues through extraction with green solvents	Ana, J. (144) Mapping Biowaste Generation: A Spatial Decision-making Framework for Implementation of EU Directive 2018/851
15h45	Paiva, A. (66) Palladium recycling from spent catalysts by solvent extraction	Scarpioni, P. (103) Secondary high value product synthesis by <i>Chlorella</i> sp. using watermelon waste	Ribeiro, A. (225) Techno-economic analysis (TEA) of pig meat processing wastes valorisation
16h00	Ntuli, F. (71) Electrodialytic treatment of incinerated sewage sludge ash (ISSA) for heavy metal recovery: a sustainable approach to resource recovery	Vilarinho, I. (114) Rice husk ash valorization in one-part alkali-activated materials	Fältström, E. (138) Creating incentives to reduce plastic in industrial waste bound for incineration using the measurement system fossilyle
16h15	Carvalho, R. (135) Recovery of platinum group metals from aqueous solutions using membrane filtration	Ferreira, D. (166) Sustainable valorization of wheat by-products through a green bioprocessing	Kouvo, P. (163) Effect of household source separation regulations to packaging waste and biowaste content of the mixed waste
16h30-17h30	Poster Session (All posters must remain displayed until the end of the conference.)		
18h30-20h00	Sunset Cocktail – Nini Design Centre (1,7km from Vidamar Hotel : 20 min walk)		



THEME	TITLE	AUTHOR	Nº
CIRCULAR ECONOMY 1	RECYCLED FIBERS IN 3DPC-A PATH TO CIRCULAR ECONOMY	Varghese, R.; Maia, L.	1.1
	CATALYTIC CONVERSION OF LOPE POWER INTO SUSTAINABLE AVIATION FUEL: A PATHWAY TO CIRCULAR ECONOMY	Costa, M.; Ferreira, K.; Ribeiro, L.; Orfão, J.; Pereira, M. F.	1.2
	CIRCULAR ECONOMY SYNERGIES: LEVERAGING AGRI-FOOD WASTE FOR SUSTAINABLE SHOE MATERIALS	Silva, S.; Ribeiro, T.; Silva, I.; Marçal, S.; Pinto, M.	1.3
	TANGO-CIRCULAR PROJECT: AN OVERVIEW OF THE TRAINING ACTIVITIES IN CIRCULAR ECONOMY IN PORTUGAL	Rico, J. C.; Cruz, V.; Coelho, D.; Dias, A.	1.4
	DEVELOPMENT OF A GEODATABASE TO PROMOTE CIRCULARITY IN WATER AND NUTRIENT RECOVERY FROM MICROALGAE-TREATED WASTEWATER	Silva, T.; Eusébio, A.; Patinha, P.; Quintal, L.; Camacho, D.; Alexandre, J.; Rocha, J.; Reis, A.; Moura, P.	1.5
	QUERCUS ROTUNDFOLIA AND QUERCUS ROBUR SHELLS: NUTRITIONAL VALUE AND CIRCULAR ECONOMY POTENTIAL	Maia, M. L.; Rodrigues, C.; Babo, P.; Pinto, M.	1.6
	FROM WASTE TO RESOURCE: AMORPHOUS PRECIPITATED SILICA FROM COAL FLY ASH	Ritter, M.; Vieira, F.; Nagel-Hassemer, M. E.; Lapoll, F.; Lobo-Raello, M. A.	1.7
LIFE CYCLE ASSESSMENT AND CARBON FOOTPRINT 2	MULTISTAGE VALORIZATION OF FISH BY-PRODUCTS IN SUSTAINABLE BIOPROCESSING FRAMEWORKS: ADVANCING TOWARDS A ZERO-WASTE PARADIGM	Carvalho, J.; Soares, M.; Ribeiro, A.; Valério, N.; Vilarinho, C.; Genisheva, Z.	1.8
	LEVERAGING ON-LIFE CYCLE ASSESSMENT TOWARDS SUPPORTING A SUSTAINABLE PORTUGUESE AGRI-FOOD SYSTEM	Pinto, S.; Fraaga, C.; Gonçalves, R.; Lourenço, E.	2.1
	EVALUATION OF THE ENVIRONMENTAL IMPACTS OF DAIRY MANURE MANAGEMENT THROUGH LIFE CYCLE ASSESSMENT	Santos, L.; Ferreira, M.; Domingos, I.; Oliveira, V.; Rodrigues, C.; Ferreira, A.; Ferreira, J.	2.2
	TRANSFORMING INDUSTRIAL WASTE INTO SUSTAINABLE BUILDING SOLUTIONS: A COMPARATIVE LIFE CYCLE ASSESSMENT	Salas, I.; Clifton, E.; Muñoz-Rúa, V.; Pérez-Gandarias, I.; Andrés, A.	2.3
	CARBON FOOTPRINT IN URBAN SOLID WASTE COLLECTION: A COMPARISON BETWEEN DIESEL AND ELECTRIC TRUCKS	Soares, E.; Rodrigues, P.; David, F.	2.4
	SCREENING LIFE CYCLE ASSESSMENT APPLIED TO END-OF-LIFE COMPUTERS	Ferreira, M.; Domingos, I.; Santos, L.; Ferreira, J.	2.5
	EVALUATION OF THE ENVIRONMENTAL IMPACTS OF DAIRY MANURE MANAGEMENT THROUGH LIFE CYCLE ASSESSMENT	Santos, L.; Ferreira, M.; Domingos, I.; Oliveira, V.; Rodrigues, C.; Ferreira, A.; Ferreira, J.	2.6
SUSTAINABLE WASTE VALORISATION TECHNOLOGIES 3	SCREENING LIFE CYCLE ASSESSMENT APPLIED TO END-OF-LIFE OF COMPUTERS	Ferreira, M.; Domingos, I.; Ferreira, J.	2.7
	SUSTAINABLE EXTRACTION OF BIOACTIVE PEPTIDES FROM BREWERY SPENT GRAIN	Benati, G.; Ferri, M.; Tassoni, A.	3.1
	EXPLORING SUSTAINABLE CEMENT ALTERNATIVES IN 3D CONCRETE PRINTING THROUGH THE INTEGRATION OF BY-PRODUCTS OR WASTE-DERIVED POWDERS	Telheira, J.; Jesus, M.; Maia, L.; Rangel, B.; Alves, J. L.	3.2
	PREPARATION AND CHARACTERIZATION OF CHITOSAN/MAGNETITE ADSORBENT BEADS AND THEIR EVALUATION OF CAFFEIN REMOVAL FROM AQUEOUS SOLUTION	Salazar, G.; Durán, J.	3.3
	SLATE WASTE INCORPORATION IN PASTE FORMULATIONS FOR 3D PRINTING BY EXTRUSION	Gomes, V.; Rangel, B.; Lino, J.; Telheira, J.	3.4
	LEACHING BEHAVIOR AND CHEMICAL COMPATIBILITY OF INDUSTRIAL BY-PRODUCTS: SUSTAINABLE LINERS FOR WASTE CONTAINMENT SYSTEMS	Marchiori, L.; Morais, M. V.; Albuquerque, A.; Pais, L.; Cavaleiro, V.	3.5
	AGRICULTURAL WASTE APPLIED TO MORTAR AND ITS POTENTIAL FOR 3D CONCRETE PRINTING	Ribeiro, C.; Rangel, B.; Tavares, V.	3.6
	MADEIRA WINE COMPANY'S PATH TO CARBON MITIGATION: STRATEGIES AND PROGRESS IN GHG EMISSION REDUCTIONS	Pereira, V.; Fernandes, C. F.; Albuquerque, F.	3.7
	INNOVATIVE COVER CROP TECHNIQUES: EXPLOITING WINERY WASTE FOR SUSTAINABLE VITICULTURE IN MADEIRA - THE VITACOB PROJECT	Soares, A.; Pereira, V.; Lima, P.; Albuquerque, F.; Dias, T.	3.8
	SUSTAINABLE AMORPHOUS POROUS CARBON FOR EFFICIENT ENVIRONMENTAL CONTAMINANT REMOVAL	Domingos, D.; Dalar, B.; Nagel-Hassemer, M.E.	3.9
	SUSTAINABLE SOLUTION FOR SOFT SOIL STABILIZATION	Martins, L. A.; Correia, A.; Oliveira, P.; Lemos, L.	3.10
	INCORPORATION OF INDUSTRIAL SECONDARY RAW MATERIALS IN PORCELAIN STONEWARE PRODUCTION: PRELIMINARY TESTING AND EVALUATION	Capela, M.; Vilarinho, I.; Moriz, C.; Silva, J.; Batista, S.; Seabra, H. P.; Labrincha, J.; Araújo, C.	3.11
	WASTE-BASED SOLAR PHOTO-FENTON PROCESS FOR PERSISTENT MICROCONTAMINANT REMOVAL AT PILOT SCALE	Clemente, E.; Ruiz-Delegado, A.; Martins, R.; Malato, S.; Oller, I.	3.12
	EFFECT OF THE CRYSTALLINE OR AMORPHOUS NATURE OF Si-RICH WASTES ON THE SUSTAINABLE PRODUCTION OF ZEOLITES	Ritter, M. T.; Carriçoza, R.; Padilla, I.; Romero, M.; Lobo-Raello, M.A.; López-Delegado, A.	3.13
	ENHANCING SUSTAINABILITY IN AGRICULTURE AND FORESTRY THROUGH THE PYRAGRAF PROJECT: A HOLISTIC APPROACH	Longo, A.; Nobre, C.; Brito, P.	3.14
	THERMALLY PROCESSED EGGSHELLS AS A RENEWABLE SOURCE OF CALCIUM CARBONATE FOR INDUSTRIAL USE	Silva, S.; Marçal, S.; Silva, I.; Ribeiro, T.; Pinto, M.	3.15
	TRANSFORMING VINEYARD WASTE INTO HIGH-PERFORMANCE BIOCHAR FOR WASTEWATER MICROPOLLUTANT REMOVAL	Ligart, P.; Aubé, E.; Bayart, B.; Nieto-Sandoval, J.; Marcos, P.; Sans, C.	3.16
	GREEN CHITIN: SUSTAINABILITY AND GREEN METRICS IN CHITIN RECOVERY FROM VARIOUS WASTE SOURCES WITH A FOCUS ON INSECTS	Herrmann, L.; Souza, V.; Fernandes, A. L.	3.17
	PRODUCTION OF SUGAR MONOMERS VIA THE DECOMPOSITION OF LIGNOCELLULOSIC BIOMASS DERIVED FROM CASSAVA UTILIZING ALKALINE HYDROGEN PEROXIDE PRETREATMENT	Hendes, H.; Kalbert, M.; Langbehn, R.; Zanella, E.; Stambuk, B.; Michels, C.; Hassemer, M.	3.18
	BLACK SOLDIER FLY EXUVIAE: EXPLORING THIS RESOURCE FOR CHITIN PRODUCTION	Silva, C.; Bernecourt, A.; Ribeiro, I.; Fernando, A.L.	3.19
WASTES AS CRITICAL RAW MATERIALS RESOURCES 4	BIOREFINERIES SCHEMES BASED ON SEQUENTIAL STAGES OF HYDROTHERMAL TREATMENT AND DELIGNIFICATION WITH DEEP EUTECTIC SOLVENTS	Romani, A.; Rubira, A.; Martins, C.; Celorrios F.; del Río, P.	3.20
	HEPATOPROTECTIVE ANTIOXIDANT EFFECTS OF BIOACTIVE COMPOUNDS FROM VINE PRUNING BY-PRODUCT EXTRACTED VIA STEAM EXPLOSION	Alvarado-López-Viracino, A.; Sidokil, S.; del Río, P.; Rodríguez-Yoldi, H.; Ferreira-Santos, P.	3.21
	SUSTAINABLE VALORIZATION OF RED GRAPE POMACE THROUGH DEEP EUTECTIC SOLVENTS FOR BIOACTIVE COMPOUND EXTRACTION	Gullón, B.; Pérez-Pérez, A.; Ferreira-Santos, P.; Alvarado-López-Viracino, A.; Rodríguez-Martínez, R.; Rodríguez-Rebore, F.; Lobato-Rodríguez, A.; Alola, R.; del Río, P.	3.22
	CYNARA CARDUNCULUS L. BY-PRODUCTS AS A SUSTAINABLE SOURCE OF BIOACTIVE COMPOUNDS FOR INDUSTRIAL APPLICATIONS	Barbosa, C.; Mariana, A.; Duarte, M.; Mateus, A.; Vilarinho, F.; Fernando, A. L.; Silva, A.	3.23
	PRE-TREATMENT OF WINERY WASTEWATER FOR MICROALGAE CULTIVATION: A SUSTAINABLE APPROACH USING ALKALINE RESIDUES	Petry, B.; Reis, A.; Gonçalves, M.	3.24
	ANALYSIS OF THE MECHANICAL PROPERTIES OF HDPE COMPOSITES WITH CHARCOAL PARTICLE LOADS OF DIFFERENT GRAIN SIZES	Dias, J.; Conceição, A.; Siqueira, R.; Coelho, B.	3.25
	EXTRACTION OF HAAS FROM MARINE ALGAE RESIDUES USING BIOSOLVENTS	Conde, A.; Fonseca, D.; Mendes, G.; Vaz, B.; Sousa-F.; Pinto, D.; Sencadas, V.; Ventura, S.	3.26
FOOD WASTES MANAGEMENT AND BIOECONOMY 5	ENHANCING ASPHALT PERFORMANCE: VALORISING POLYURETHANE WASTE AS A BITUMEN MODIFIER	Nascimento, L.; Costa, A. R.; Silva, H.; Oliveira, J.; Soares, M.; Carvalho, J.	3.27
	KERATIN-BASED ADSORBENT FOR SUSTAINABLE RECOVERY OF PLATINUM GROUP METALS	Nobiser, A.; Braga, F.; Passos, M.; Sosa, F.; Schaeffer, M.; Coutinho, J.	4.1
	RECOVERY AND SEPARATION OF VALUABLE METALS OF SPENT LITHIUM-ION BATTERIES	Vaz, I.C.H.; Bengui, B.; Nogueira, A.; Schaeffer, M.; Coutinho, J.	4.2
	OPTIMIZATION OF THE COBALT EXTRACTION PROCESS FROM USED LITHIUM-ION BATTERIES	Bengui, B.; Vaz, I.C.M.; Schaeffer, M.; Nogueira, A.; Coutinho, J.	4.3
	ECONOMIC ANALYSIS OF PEACH AND NECTARINES PROCESSING WASTES VALORISATION IN CIRCULAR ECONOMY APPROACH	Ribeiro, A.; Soares, M.; Vilarinho, C.; Fernandes, A.L.; Lameo, M.; Lamoricosas, A.; Carvalho, J.	4.4
	MAPPING THE LANDSCAPE OF AGRICULTURAL WASTE IN THE EU	Soares, M.; Genisheva, Z.; Ribeiro, A.; Miranda, T.; Pereira, C.; Vilarinho, C.; Carvalho, J.	4.5
	ALKALINE EXTRACTION OF FERRIC ACID FROM WHEAT BRAN - PROCESS OPTIMIZATION AND GENERAL YIELD CONSIDERATIONS	Ferri, M.; Tassoni, A.	5.1
	RECOVERY OF FATTY ACIDS, PHENOLIC COMPOUNDS AND PROTEIN FROM BREWERY SPENT GRAIN BY CONVENTIONAL OR SUSTAINABLE PROCEDURES USING GREEN SOLVENTS	Dominguez, J.; Costa-Trigo, I.; Morán-Aguilar, G.	5.2
	A SUSTAINABLE PROCESS FOR BREWERY SPENT GRAIN BIOREFINERY BY ACID-BASED DEEP EUTECTIC SOLVENT RECYCLING	Dominguez, J.; Costa-Trigo, I.; Morán-Aguilar, G.	5.3
	ALMOND AND WALNUT SHELLS AS SUSTAINABLE SOIL AMENDMENTS: PHYSICAL INSIGHTS FOR GEOTECHNICAL APPLICATIONS	Noulous, T.; Marchiori, L.; Silva, F.; Albuquerque, A.; Cavaleiro, V.	5.4
	FROM WASTE TO WELLNESS: SARDINE BY-PRODUCTS AS RICH SOURCES OF BIOACTIVE INGREDIENTS	Machado, M.; Costa, E.; Augusto, M.; Capão, A.; Pinto, M.	5.5
	VALORIZING SARDINE BY-PRODUCTS: SUSTAINABLE FUNCTIONAL CANNED TUNA THROUGH PROTEIN HYDROLYSATES	Machado, M.; Cunha, S.; Capão, A.; Augusto, M.; Pinto, M.	5.6
	KOHBUCHA-LIKE BEVERAGE PRODUCTION FROM BEER BAGASSE: EVALUATION OF FERMENTATION AND ANTIOXIDANT PROPERTIES	Gouveia, S.; Paz, A.; Ochogavía, A.; Cid-Fernández, M.; Dominguez, J.; Camasella, C.	5.7
RECYCLING OF WASTES AND RESOURCES RECOVERY 6	ENHANCED STABILIZATION OF PHENOLIC COMPOUNDS FROM RED GRAPE POMACE VIA ELECTROHYDRODYNAMIC PROCESSING WITH HYDROXYPROPYL METHYLCELLULOSE	Pérez-Pérez, A.; Silva, P.; Martins, A.; Oliveira, H.; Cerqueira, M.; Gullón, B.; Pastrana, L.; Ferreira-Santos, P.	5.8
	WASTEWATER TREATMENT: A DIGITAL BRIDGE BETWEEN AGRI-FOOD WASTE AND SUSTAINABLE CONSTRUCTION	Soares, M.; Genisheva, Z.; Ribeiro, A.; Miranda, T.; Pereira, C.; Vilarinho, C.; Carvalho, J.	5.9
	SUSTAINABLE PRODUCTION OF CELLULOSE ACETATE USING COCOA HUSK WASTE BIOMASS	Carvalho, D.; Neves, L.; Gonçalves, M.; Francavilla, P.	5.10
	TURNING WASTE INTO PERFORMANCE: THE TRIBOLOGICAL POTENTIAL OF FRUIT PITS-REINFORCED POLYAMIDE COMPOSITES	Sydek, Z.; Bala, K.; Wojciechowski, L.; Brąjek, P.	5.11
	DESIGN OF A BALL VALVES TEST BENCH FOR FOOD INDUSTRY	Costa, R.; Seabra, E.	5.12
	FROM WASTE TO WORTH: HOW WATER MODIFIED THE COMPOSITION OF UNDERVALUED COFFEE SILVER SKIN	Abreu, D.; Genisheva, Z.; Mendes, R.; Duarte, W.	5.13
	CANNED TUNA WASTEFLOW: ANALYTICAL DATA AND CHEMICAL CHARACTERIZATION	Valério, N.; Vilarinho, C.; Correia, M. M.; Carvalho, J.	5.14
BIOLOGICAL TREATMENT TECHNIQUES 7	OPTIMIZATION OF MULTIENZYME PRODUCTION BY SCOPULARIOPSIS ALBOFLAVESCENS USING COFFEE SILVER SKIN IN SOLID-STATE FERMENTATION	Abreu, D.; Castro, C.; Medici, A.; Oliveira, A.; Lourenço, M.; Mori, F.; Genisheva, Z.; Duarte, W.	5.15
	VALORISATION OF MUNICIPAL SOLID WASTE INCINERATION/MSWIFY ASH IN CEMENT	Jimenez, A. H.; García-Cerdas, L.; Loayza, R.; Lavallée, E.; Alonso, M.	6.1
	FROM LANDFILL TO PORCELAIN STONEWARE: A SECOND LIFE FOR CATALYST WASTE	Pérez, M.; Muñoz, R.; Rodríguez, I.; Seligado, A.	6.2
	BIOPOLYMERS RECOVERY FROM RESIDUAL BIOMASS OF WGB REACTORS	Habiboua, E.; Almeida, M. A.; Filho, P.; Costa, R.; Tavares, J.; Libardi, N.	6.3
	IDENTIFICATION AND ASSESSMENT OF THE ECOTOXICOLOGICAL RISK OF MICROPLASTICS ACCUMULATED IN THE BOTTOM SEDIMENTS OF A WATER RESERVOIR	Clelia, H.; Graca-Ramos, R.; Strojny, W.; Onet, A.; Onet, C.; Stănu, N.	7.1
	EXPLORING ANAEROBIC DIGESTION FOR TEXTILE EFFLUENTS TREATMENT AND VALORIZATION	Silva, A.; Barbosa, S.; Correia, S.; Pereira, L.; Pereira, H. A.	7.2
	ENHANCING AEROBIC TREATMENT OF TEXTILE WASTEWATER WITH A CARBON-BASED MATERIAL - COMPARATIVE STUDY WITH TWO INOCULA	Barbosa, S.; Nicolau, A.; Silva, A.; Salvador, A.; Pinheiro, A.; Soares, O.; Pereira, M.; Pereira, H.A.; Pereira, L.	7.3
ENVIRONMENTAL, ECONOMIC AND SOCIAL ASPECTS IN WASTE MANAGEMENT 8	VALORIZATION OF LIVESTOCK EFFLUENTS: INTEGRATION OF ANIMAL AND CROP PRODUCTION SURPLUSES INTO COMPOSTING	Coelho, D.; Cruz, V.; Rico, J.; Dias, A.	7.4
	TRANSFORMING BIOWASTE INTO VALUABLE PRODUCT THROUGH DOMESTIC COMPOSTING	Oliveira, V.; Toledo, G.; Pato, R.; Miguens, M. F.; Bianchi, C.; Santos, D.	7.5
	EVALUATION OF TWO-STAGE INDUSTRIAL-SCALE COMPOSTING OF SEWAGE SLUDGE AND THE QUALITY OF THE FINAL COMPOST	Paredes, C.; Martínez, P.; García-González, A.; Martín-Martínez, A.	7.6
	TRANSFORMING BIOWASTE INTO VALUABLE PRODUCT THROUGH DOMESTIC COMPOSTING	Oliveira, V.; Toledo, G.; Pato, R.; Miguens, F.; Bianchi, C.; Santos, D.	7.7
	STUDY OF IRC EXEMPTION IN THE SCOPE OF WASTE MANAGEMENT IN PORTUGAL	David, F.; Dinis, A.; Saleiro, F.; Rodrigues, P.; Soares, E.	8.1
	FROM WASTE TO INNOVATION: RETHINKING DESIGN PRACTICES IN HIGHER EDUCATION	Barbosa, M.	8.2
	STUDY OF THE RHEOLOGY BEHAVIOR OF SANITARYWARE SLIP WITH WASTEWATER	Vilarinho, I.; Capela, M.; Moriz, C.; Briggs, I.; Romaninho, A.; Almeida, P.; Martins, M.; Ferreira, L.; Labrincha, J.; Guedes, M. D.	8.3
WASTE-TO-ENERGY TECHNOLOGIES 9	INTEGRATING WASTEWATER TREATMENT AND ENERGY RECOVERY: THE POTENTIAL OF HFC FOR MANAGING SAFFRANINE-T CONTAMINATED EFFLUENTS	Ritter, M.T.; Padilla, I.; Nagel-Hassemer, M. E.; Lapoll, F.; Lobo-Raello, M. A.	8.4
	OPPORTUNITIES AND CONSTRAINTS ASSOCIATED WITH THE PRODUCTION OF OIL-SEED CROPS IN MARGINAL SOILS	Abbas, M.; Costa, J.; Fernando, A.L.	8.5
	INTEGRATING SATELLITE OBSERVATIONS AND GROUND-BASED MEASUREMENTS TO ENHANCE ESTIMATION OF FUGITIVE METHANE EMISSIONS FROM LANDFILLS	Karunço, T.; Chamat, J.; Fakra, V.; Siegfried, S.	8.6
	PLASMA GASIFICATION OF SEWAGE SLUDGE - MASS AND ENERGY BALANCE	Pacheco, N.; Gonçalves, M.; Marques, L.; Vilarinho, C.	8.7
	MANAGEMENT OF PERSISTENT ORGANIC POLLUTANTS IN WASTE FROM FUEL STATIONS	Barcellos, A. M.; Palm, N.	8.8
	ENERGY OPTIMIZATION OF ELECTROCHEMICAL TREATMENT OF TEXTILE WASTEWATER	Alfonso, C.; Sousa, C.; Farinon, D.; Espinosa, M.; Fernandes, A.	8.9
	ELECTROGENERATION OF HYPOCHLORITE FROM REVERSE OSMOSIS RETENTATE FOR REUSE AS ANTIFOULING AGENT	Souza, C.; Farinon, D.; Alfonso, C.; Fernandes, A.	8.10
PLASTIC WASTE IMPACTS, MANAGEMENT STRATEGIES AND SOLUTIONS 10	ECOTOXICOLOGICAL ASSESSMENT OF THE POTENTIAL IMPACT ON SOIL POREWATER, SURFACE AND GROUNDWATER OF THE USE OF AGRI-FOOD WASTES AS SOIL CONDITIONERS OR FERTILIZERS	Ruiz, M. J.; Najafi, F.; Alvaranga, P.; Figueiredo, D.	8.11
	ENVIRONMENTAL RISKS OF THE USE OF AGRI-FOOD WASTES AS SOIL AMENDMENTS: AN INTEGRATED CHEMICAL AND ECOTOXICOLOGICAL ASSESSMENT	Najafi, F.; Ruiz, M. J.; Alvaranga, P.; Figueiredo, D.	8.12
	KINETIC ANALYSIS OF THE ANAEROBIC DIGESTION OF HORSE MANURE WITH EFFLUENTS FROM PIG FARMS AND WASTEWATER TREATMENT PLANTS	Rijo, B.; Parizilo, R.; Santos, S. M.; Assis, A. C.; Brito, P.	9.1
	STUDY OF THE EFFECT OF ANAEROBIC DIGESTION ON WASTEWATER TREATMENT PLANT EFFLUENTS	Parizilo, R.; Gomes, T.; Assis, A. C.; Santos, S. M.; Brito, P.	9.2
	A COMPREHENSIVE APPROACH USING SOLAR DRYING AND TORREFACTION OF SPENT COFFEE GROUNDS FOR ENERGY PRODUCTION	Worwak, H.; Jung, R.; Vilmar, E.	9.3
	TECHNO-ECONOMIC ANALYSIS OF BIOGAS-TO-BIOMETHANE AND ELECTRICITY PRODUCTION FROM AGRO-INDUSTRIAL WASTE	Rey, J.; Nobre, C.; Brito, P.	9.4
	HYDROGEN PRODUCTION FROM SUGARCANE VINASSE VIA AQUEOUS-PHASE REACTION	Chaves, S.; Ulate, A.	9.5
PLASTIC WASTE IMPACTS, MANAGEMENT STRATEGIES AND SOLUTIONS 10	SUSTAINABLE VALORIZATION OF VINE PRUNINGS VIA STEAM EXPLOSION FOR BIOFUELS PRODUCTION	Romani, A.; Rubira, A.; Martins, C.; Santos, P.; del Río, P.; Garroni, G.; Gullón, B.	9.6
	BIOCHAR PRODUCED FROM SHEEP WOOL - ENERGY, ADSORPTION AND SOIL AMENDMENT APPLICATIONS	Sánchez, D.; Telheira, J. C.; Ribeiro, R.; Gonçalves, M.	9.7
	TECHNO-ECONOMIC ASSESSMENT OF BIOMASS GASIFICATION AND HYDROGEN PRODUCTION FOR NATURAL GAS SUBSTITUTION IN INDUSTRIAL APPLICATIONS	Nobre, C.; Rey, J.; Brito, P.	9.8
	ADVANCEMENTS AND CHALLENGES IN BIOMASS-TO-LIQUID (BTL) TECHNOLOGIES FOR SUSTAINABLE BIOFUEL PRODUCTION	Mateo-Pedrero, C.; Nobre, C.; Santos, M.; Brito, P.	9.9
	IMPACTS OF AGRICULTURAL PLASTIC WASTE IN PORTUGAL - MICROPLASTICS PRESENCE IN FARMLAND SOIL SAMPLES	Alves, A.; Pequeno, J.; Martins, M.; Martinho, G.	10.1
	OXIDATIVE CARBONIZATION OF REFUSE DERIVED FUEL	Castro, C.; Gonçalves, M.; Pacheco, N.; Telheira, J. C.	10.2
	MIXED POLYMERIC WASTE: CHALLENGES AND VALORIZATION THROUGH PYROLYSIS	Castro, F.; Correia, C.; Benta, C.; Abreu, V.; Telheira, T.; Castro, S.	10.3