
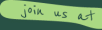



<div> <div>  <div>7th International Conference</div> </div> <div>  <div>WASTES</div> </div> <div> <div>SOLUTIONS TREATMENTS OPPORTUNITIES</div> </div> </div> <div> <div>FUNCHAL, MADEIRA – VIDAMAR HOTEL</div> <div>3 – 5 SEPTEMBER 2025</div> </div> <div>  </div> <div>  </div>			
DAY 2 - 4 SEPTEMBER			
9h15	Plenary Session III CAN WE CONTINUE GROWING WITHIN LIMITS? WHEN CHANGE IS MORE IMPORTANT THAN IMPROVEMENT Pablo Kroff - Senior Consultant (Chile) Room: Auditorium - Chair: Fernando Castro		
	Room Auditorium - Chair: João Monteiro Session A2: Marine Pollution and Bioinvasions	Room Lagoon I and II - Chair: Raúl Figueiro Session B2: Sustainable waste valorisation technologies	Room Lagoon III - Chair: Conceição Paiva Session C2: Plastic waste impacts, management strategies and solutions
10h00	Narayan, A. (125) Water quality monitoring program: insights from coastal, beaches, marina, and freshwater-seawater interactions on Madeira Island, Portugal	Cumbane, B. (194) Assessment of waste derived amendments for the in situ stabilization of acid soils from a pyrite mine	Heleno, L. (82) Separation of plastic waste by dissolution/precipitation process with green solvents
10h15	Keshmirshakan, A. (140) Valorization of wastes from the codfish-processing industry: collagen type I recovery using eutectic solvents	Assis, A.C. (153) Study of Phenol adsorption on to adsorbents from thermochemical processes	Muchangos, L. (95) Waste trade and Circular Economy - examining the plastic waste trade in Africa
10h30	Ribeiro, A. (227) Identification of companies and characterization of marine plastics recycling technologies	Fernandes, A. (13) Multifunctional textiles developed by agroindustrial wastes valorization	Roman, F. (119) Sustainable carbon nanotubes derived from plastic solid waste
10h45	Valério, N. (218) Ecotoxicological study of canned tuna organic waste	Silva, A. (232) Fully Bio-based Textile Printing Pastes: Waste into Resources	Alves, A. (187) Assessing the current situation to design a sustainable management model for agricultural plastic waste
11h00	Coffee Break		
11h30	Room Auditorium - Chair: Carlos Nogueira Session D2: Management of waste streams	Room Lagoon I and II - Chair: André Ribeiro Session E2: Life cycle assessment and carbon footprint	Room Lagoon III - Chair: Maria de Lurdes Lopes Session F2: Sustainable waste valorisation technologies
	Genduso, M. (136) Metal recovery from e-waste by clays and activated carbon	Mata, T.(6) Life cycle assessment of white agglomerated cork panels: environmental impacts and waste reduction opportunities	Aguilar, I. (242) Valorization of paraffin wax waste in cement mortars: physical and mechanical behavior
11h45	Silva, A.R. (252) Exploring anaerobic digestion for textile residues treatment and valorization	Lapa, N. (35) Life cycle assessment and energy balance of bioH2 and biogas produced from food wastes in a two-stage bioreactor	Castro, F. (246) Cement and concrete artifacts as a way to promote sustainable waste management
12h00	Fernandes, A. (60) Bio-based textile coatings developed by valorization of textile waste and incorporation of bacterial cellulose	Borsoi G., (84) LCA and LCC of tetrahedrite-based thermoelectric devices developed within the start project	Lodeiro, I. (32) Fabrication of more sustainable hybrid alkaline cements using biomass ashes
12h15	Sydow, M. (237) CREOSOLVE project – Disposal of used wooden railway sleepers and other creosote oil treated components using various biological methods	Anwar, T. (139) Life cycle assessment and techno-economic analysis of waste stream reincorporation in industrial scale tomato-based sauce production	Capela, M.N. (117) Impact of blowing agent and alkaline activator content on the properties of porous waste-based one-part alkali-activated materials
12h30	Ntuli, F. (72) Electrodialytic treatment of incinerated municipality solid waste (IMSW) for resource recovery	Soares, A.C. (37) Development of sustainable rice husk biocomposites: a life cycle assessment approach.	Fernandez, L. (272) Low-carbon mortars: the potential of textile waste as a co-product
12h45	Lunch		
14h.15	Plenary Session IV ADVANCING METHODS AND TOOLS TO STUDY, SURVEY AND MONITOR MARINE LITTER POLLUTION João Monteiro - University of Madeira (Portugal) Room: Auditorium - Chair: Caroline Ferreira		
	Room Auditorium - Chair: Cândida Vilarinho Session G2: Circular economy and industrial symbioses	Room Lagoon I and II - Chair: Nuno Lapa Session H2: Waste-to-energy technologies	Room Lagoon III - Chair: Jorge Araújo Session I2: Sustainable waste valorisation technologies
15h00	Jorio M. (236) Decision-support frameworks for industrial symbiosis practices in photovoltaic waste management	Rodrigues, P.(116) Biogas production from winery by-products: An evaluation of biochemical methane potential and kinetics	Barros, A. (201) Enzymatic Treatment of apple pomace: Enhancing bioactive properties for food and nutraceutical applications
15h15	Oliveira, J. (96) Advancing circular economy in pavement engineering: a study of 50% recycled asphalt mixtures for full-scale applications	Brito, P. (152) BioLP6 production and market dynamics	Sans, C. (207) Optimized vineyard waste biochar for continuous fixed-bed adsorption of micropollutants in wastewater
15h30	Gailbor, N. (256) From waste to chitin: valorization of shrimp shell in Ecuador through circular bioeconomy	Pacheco, N. (219) Plasma gasification of sewage sludge - Mass and energy balance	Barros, D.(273) Sustainable packaging materials: reinforcement of recycled HDPE with slate waste for improved mechanical and barrier properties
15h45	Reis, A. (228) Valorizing winery wastewaters and wine fermentation CO2 for sustainable solutions aiming at implementing a new circular economy business model: a mini-review	Fragoso, R. (169) RE-FEED: Renewable energy production at farm level for energy efficiency and defossilization	Oliveira, V.(254) Dual Recovery of Mineral nutrients and organic compounds from swine slurry using electrodialytic
16h00	Genisheva, Z. (220) Ecofishal - Integrated strategy for the valorization of fish by-products towards a zero waste approach	Santos, S. (149) Assessing the influence of refused-derived fuels on the physical and combustion properties of biomass pellets	Ruiz, V. (44) pH dependent leaching characterization of trace elements from 100% waste-based sustainable materials
16h15	Paiva, M. C.(257) Evaluation of the recycling potential of PC/ABS injection molded automotive parts to stimulate circularity practices		Skalny, M. (43) Characterization and valorization opportunities for water decarbonization sludge
16h30	Coffee break		
17h00	Room Auditorium - Chair: Paulo Brito Session J2: Recycling of wastes and resources recovery	Room Lagoon I and II - Chair: Joana Carvalho Session K2: Food waste management and bioeconomy	Room Lagoon III - Chair: Margarida Quina Session L2: Sustainable waste valorisation technologies
	Nogueira, C. (141) Lithium-ion battery recycling by physical processing: Evaluation of recovery and metal content in shredding and sieving operations	Ventura, S. (38) Applying green propolis as a co-product of honey production to develop an aqueous aerosol with antimicrobial activity	Barbosa, S. (251) Optimizing anaerobic treatment of textile wastewater: performance comparison of adapted vs. non-adapted inocula
17h15	Moura, T. (245) Integrating plastic film recycling in product manufacturing: A design study on the reuse of low-density polyethylene	Fonseca F. (79) Valorization of <i>Carapa gualanensis</i> fruit waste as a sustainable source of natural textile dyes	Santos, A. (250) Organic fertilizers based on circular solutions for sustainable agriculture: Nutrients and legal restrictions on manure
17h30	Calado, M.L. (264) Recyclability assessment of PLA-based 3D printing filaments with micronised cellulose and a wax-based additive	Barros, A. (200) Grape stems valorization: Polyphenolic composition and their potential applications in the cosmetic and pharmaceutical industries	Barros, D. (274) Sustainable school furniture: manufacturing new components using PP, wood and slate waste
17h45	Nogueira, A. (24) Machine learning-driven framework for lithium-ion battery recycling	Passos, H. (121) Sustainable processes for chicken feathers valorisation and advanced biomaterials development	Roze, M. (133) The benefits of mechanochemistry for the functionalization of co-products: the example of walnut shell as a clean label emulsifier
18h00		Ventura S. (39) Extraction of betacyanins from food waste using eutectic solvents and pigments stabilization	Dias, C. (181) Turning Lignocellulosic Residues into High-Performance Nanomaterials: Unlocking the Potential of Nanocellulose and Nanolignin
18h15-18h45	Poster Session <i>(All posters must remain displayed until the end of the conference.)</i>		
18h45-23h00	Cabo Girão Visit and Local Cuisine Dinner at the regional restaurant O Lagar <i>(by bus departing and arriving at the Vidamar hotel)</i>		



THEME	TITLE	AUTHOR	Nº
CIRCULAR ECONOMY 1	RECYCLED FIBERS IN 3DPC-A PATH TO CIRCULAR ECONOMY	Varghese, R.; Mala, 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	Mala, 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	Cavvalho, 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.; Andújar, 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.; Mala, 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
WASTES AS CRITICAL RAW MATERIALS RESOURCES 4	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
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	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
FOOD WASTES MANAGEMENT AND BIOECONOMY 5	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.; Auld, 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
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	BLACK SOLDIER FLY EXUVIAE: EXPLORING THIS RESOURCE FOR CHITIN PRODUCTION	Silva, C.; Bernecourt, A.; Ribeiro, I.; Fernando, A.L.	3.19
	BIOREFINERIES SCHEMES BASED ON SEQUENTIAL STAGES OF HYDROTHERMAL TREATMENT AND DELIGNIFICATION WITH DEEP EUTECTIC SOLVENTS	Romani, A.; Rubira, A.; Martins, C.; Celorinos F.; del Río, P.	3.20
RECYCLING OF WASTES AND RESOURCES RECOVERY 6	HEPATOPROTECTIVE ANTIOXIDANT EFFECTS OF BIOACTIVE COMPOUNDS FROM VINE PRUNING BY-PRODUCT EXTRACTED VIA STEAM EXPLOSION	Alvarado-López-Viracino, A.; Sidóski, S.; del Río, P.; Rodríguez-Yoldi, H.; Ferreira-Santos, P.	3.21
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	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
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	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
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	TURNING WASTE INTO PERFORMANCE: THE TRIBOLOGICAL POTENTIAL OF FRUIT PITS-REINFORCED POLYAMIDE COMPOSITES	Sydox, Z.; Buba, K.; Wojciechowski, L.; Brąjek, P.	5.11
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