Prosciba 2026 + EIFS 2026 PROGRAM

VII Iberoamerican Conference on Supercritical Fluids (PROSCIBA 2026) + 4th Iberian Meeting on Supercritical Fluids (EIFS 2026)

Welcome Reception - October 25th, 2026, Hotel Meliá Ria, Aveiro

Conference - October 26th-28th, 2026, Centro de Congressos de Aveiro, Aveiro

Training School - October 29th-30th, 2026, Chemistry Dept., Universidade de Aveiro, Aveiro

Program

	Sunday October 25th	Monday October 26th	Tuesday October 27th	Wednesday October 28th	Thursday October 29th	Friday October 30th
8h00-8h30		Registration				
8h30-9h00					**Training School**	**Training Course**
9h00-9h30		Opening Session	**Plenary P2** **CA García-González**	**Plenary P3** **S Ferreira**	TS01 - Fundamentals of phase equilibria modelling **Francisco A Sánchez**	TS04 - Fundamentals of materials preparation with scCO2... **Albertina Cabañas**
9h30-10h00		**Plenary P1** **MJ Cocero**				
10h00-10h30			**Keynote K3 N Gañan**	**Keynote K5 J Martinez**		
10h30-11h00		Coffee Break	Coffee Break	Coffee Break	Coffee Break	Coffee Break
11h00-11h30		OS1 Reactions&Biorefinery SCFS	OS4 Food/Pharma/Biomed Apps Particles&Materials	OS6 SF Extraction/Fractionation	TS02 - Overview of the industrial development of extraction... **Julian Mártinez**	TS05 - Estimates and economic viability of processes based... **Ignacio Gracia**
11h30-12h00						
12h00-12h30						
12h30-13h00		Lunch	Lunch	Lunch	Lunch	
13h00-13h30						
13h30-14h00						
14h00-14h30		**Keynote K1 V Marulanda**	**Keynote K4 C Aymonier**	**Round Table** **Coordination J King**		
14h30-15h00		**Keynote K2 C Silva**	OS5 Particles&Materials & AI		TS03 - Fundamentals of aerogels processing with scCO2 **Carlos García-González**	
15h00-15h30		OS2 Reactions&Biorefinery/HP&Scale-up		**Keynote K6 P Jaeger**		
15h30-16h00				OS7 Comb Technol/Alt Solv		
16h00-16h30		Coffee Break	Coffee Break	Coffee Break		
16h30-17h00		**Poster Session P1**	**Poster Session P2**	**Poster Session P3**		
17h00-17h30	Registration (**Hotel Meliá Ria**, Aveiro)	OS3 Phase Equilibria & Properties	Prosciba Meeting	Award/Closing Session		
17h30-18h00			Cultural Visit (Bus transportation) (**Vista Alegre Museum**, Ílhavo)			
18h00-18h30	Welcome Reception (**Hotel Meliá Ria**, Aveiro)			Flucomp Meeting		
18h30-19h00		Prosciba/EIFS Junior				
19h00-19h30						
19h30-20h00						
20h00-20h30						
20h30-21h00			Conference Dinner (**Hotel Montebelo Vista Alegre**, Ílhavo)			
21h00-21h30						
21h30-22h00						
22h30-22h00						
22h30-23h00						

Prosciba 2026 + EIFS 2026 PROGRAM

Sunday, October 25th		
17h00-18h00		**Registration (Hotel Meliá Ria, Aveiro)**
18h00-20h00		**Welcome Reception (Hotel Meliá Ria, Aveiro)**
Monday, October 26th (Centro de Congressos de Aveiro)		
9h00-9h30		**Opening Session**
9h30-10h30	**Plenary Session 1**	**María J. Cocero** (U. Valladolid, Spain) - Towards a Biobased Polyester Platform for Innovative Biorefineries: Ester Bond Cleavage in Supercritical Water *Chair: Sagrario Beltrán (U. Burgos, Spain)*
10h30-11h00	**Coffee Break**	
11h00-12h30	**Oral Session 1**	**Reactions and biorefinery processes in supercritical media** *Chair: Fiorella Cárdenas-Toro (PUC, Perú)*
11h00-11h20	**OS1.1**	**Gustavo Bolaños** (U. del Valle, Colombia) - One-Step Chitosan Production from Black Soldier Fly (*Hermetia illucens*) Exuviae Using Subcritical Water
11h20-11h40	**OS1.2**	**Leonardo Castro de Melo** (U. Federal Bahia, Brazil) - Industrial Biomass Residues for Hydrogen Production: Effect of Reaction Medium and Catalytic Performance
11h40-12h00	**OS1.3**	**Lígia Passos Maia-Obi** (U. Federal ABC, Brazil) - Lignin valorization for CO2 fixation: Sub and supercritical use and recovery of lignin-based catalyst
12h00-12h20	**OS1.4**	**Adrià López-Pontanilla** (ICMAB, Spain) - ZIF-8 supported copper catalysts for thermocatalytic CO_2 hydrogenation to methanol: role of metal–support interactions and Cu^0/Cu^+ active sites
12h30-14h00	**Lunch break**	
14h00-14h30	**Keynote 1**	**Victor Marulanda-Cardona** (U. del Valle, Colombia) - Biorefinery based on subcritical water-ethanol hydrolysis and delignification: insights on process model and life cycle considerations for scaling-up purposes *Chair: Sílvio V. de Melo (U. Federal da Bahia, Brazil)*
14h30-15h00	**Keynote 2**	**Carlos M. Silva** (U. Coimbra, Portugal) - From Molecular Transport to Process Performance: Bridging Thermophysical Properties and Accurate Modeling *Chair: Sílvio V. de Melo (U. Federal da Bahia, Brazil)*
15h00-16h00	**Oral Session 2**	**Reactions and biorefinery processes in supercritical media** *Chair: Juan R. Portela (U. Cádiz, Spain)*
15h00-15h20	**OS2.1**	**Cátia S. do Carmo** (iBET, Portugal) - Subcritical water hydrolysis for recovery of bioactive peptides from olive pomace
15h20-15h40	**OS2.2**	**Eduardo Pérez** (U. Complutense Madrid, Spain) - Chemical Recycling of PET-Based wastes by Solvolysis Assisted by Compressed Gases
15h40-16h00	**OS2.3**	**Francisco González** (U. Castilla-La Mancha, Spain) - Supercritical CO2 to Functionalizable Soybean Oil Monomers for Radiopaque NIPUs
16h00-17h00	**Coffee Break + Poster Session 1**	
17h00-18h30	**Oral Session 3**	**High-pressure process engineering and scale-up & Phase equilibria and thermophysical/transport properties** *Chair: Pablo Hegel (U. del Sur, Argentina)*
17h00-17h20	**OS3.1**	**Pedro Barea-Gómez** (U. Burgos, Spain) - Sustainable valorization of oat okara via semi-continuous subcritical water hydrolysis: techno-economical assessment and industrial scale-up
17h20-17h40	**OS3.2**	**Francisco A. Sánchez** (PLAPIQUI, UNS/CONICET, Argentina) - Modeling homologous organic families for robust prediction of high-pressure phase equilibria in biomass-derived systems
17h40-18h00	**OS3.3**	**Sabrina Belén Rodriguez** (U. Rovira Virgili, Spain) - Evaluating CO2 Capture from Natural Gas at High Pressure Reservoir Conditions Using Protic Ionic Liquids
18h00-18h20	**OS3.4**	**Isabel Mejía** (U. del Valle, Colombia) - Solubility Enhancement of Calcium Phosphate and Calcium Gluconate in Water Using Compressed CO2: Toward Calcium Fortification of Beverages and Food Products
18h30-20h00	**Prosciba/EIFS Junior**	
Tuesday, October 27th (Centro de Congressos de Aveiro)		
9h00-10h00	**Plenary Session 2**	**Carlos A. García-González** (U. Santiago de Compostela, Spain) – Always look on the light side of life: Engineering of aerogels for biomedical applications *Chair: Ignacio Gracia (U. Castilla-La-Mancha, Spain)*
10h00-10h30	**Keynote 3**	**Nicolás Gañán** (U. Nacional Córdoba, Argentina) - Active aerogels by combined supercritical CO2-assisted drying and impregnation/deposition for medical and pharmaceutical applications: Advances and challenges *Chair: Ana Iglesias-Mejuto (U. Santiago de Compostela, Spain)*
10h30-11h00	**Coffee Break**	
11h00-12h30	**Oral Session 4**	**Food, nutraceutical, pharmaceutical, and biomedical applications & Particle formation and materials processing** *Chair: Ana Leite Oliveira (U. Católica Portuguesa, Portugal)*
11h00-11h20	**OS4.1**	**Susana Gomes** (U. Santiago de Compostela, Spain) - Tailoring aerogels dimensions by integrating 3D printing and supercritical drying technologies with artificial intelligence tools

11h20-11h40	**OS4.2**	**Simone Costa Sá** (U. Católica Portuguesa, Portugal) - A single workflow for the decellularization and sterilization of pancreatic tissue through supercritical CO2 technology
11h40-12h00	**OS4.3**	**Rama Hafian** (U. Complutense Madrid, Spain) - Eradication of Clinically Relevant Biofilms on Prosthesis
12h00-12h20	**OS4.4**	**Noelia Machado** (U. Cadiz, Spain) - Supercritical fluid impregnation of PLA/PBAT/TPS films with olive leaf extract: Process scale-up and application in minced meat packaging
12h30-14h00	**Lunch break**	
14h00-14h30	**Keynote 4**	**Cyril Aymonier** (ICMB-CNRS, France) - Artificial Intelligence in Supercritical and High-Pressure Research: From Thermophysical Data Prediction to Autonomous Materials Synthesis *Chair: Albertina Cabañas (U. Complutense de Madrid, Spain)*
14h30-16h00	**Oral Session 5**	**Particle formation and materials processing & Artificial Intelligence in supercritical and high-pressure research** *Chair: Marcelo Lanza (U. Federal Santa Catarina, Brazil)*
14h30-14h50	**OS5.1**	**Ana Aguiar-Ricardo** (U. Nova Lisboa, Portugal) - Supercritical CO_2-Assisted Spray Drying of Liposomal Systems: A Versatile Platform for Inhalable Delivery of Hydrophobic Compounds and Enzymes
14h50-15h10	**OS5.2**	**David Piña-Muñoz** (ICMAB, Spain) - Engineering highly porous amorphous solid dispersions of ibrutinib via compressed antisolvent precipitation
15h10-15h30	**OS5.3**	**Carlos Illanes-Bordomás** (U. Santiago de Compostela, Spain) - Use of AI tools for the development of drug delivery formulations based on aerogels
15h30-15h50	**OS5.4**	**José R. Botelho** (U. Coimbra, Portugal) - Bayesian Digital Twin for Pressurized Fluid Extraction of Uncaria tomentosa: A Physics-Informed Neural Network Approach
16h00-17h00	**Coffee Break + Poster Session 2**	
17h00-17h30	**Prosciba Meeting**	
17h30-20h30	**Cultural Visit - Vista Alegre Museum, Ílhavo (bus transport)**	
20h30-23h00	**Conference Dinner – Montebelo Vista Alegre Ílhavo, Ílhavo (bus transport)**	

Wednesday, October 28th (Centro de Congressos de Aveiro)

9h00-10h00	**Plenary 3**	**Sandra R.S. Ferreira** (U. Federal Santa Catarina, Brazil) - Sustainable strategies for extraction and fractionation of bioactive and functional ingredients: Biorefinery of natural products and co-products *Chair: Hermínio C. de Sousa (U. Coimbra, Portugal)*
10h00-10h30	**Keynote 5**	**Julian Martínez** (UNICAMP, Brazil) - Valorization of the guarana processing chain – extraction and impregnation with pressurized fluids *Chair: Lourdes Calvo (U. Complutense de Madrid, Spain*
10h30-11h00	**Coffee Break**	
11h00-12h30	**Oral Session 6**	**Supercritical fluid extraction/fractionation** *Chair: Gustavo Bolaños (U. del Valle, Colombia)*
11h00-11h20	**OS6.1**	**Jerry King** (Critical Fluid Symposia/U. Arkansas, USA) - Sub- and Super-critical Fluid Processing of Cannabis/Hemp- Optimization and Use of Post Extraction Technologies to Enrich Cannabinoid Extract Content
11h20-11h40	**OS6.2**	**João Baixinho** (iBET, Portugal) - Valorization of winery waste streams: towards a bio-based novel fungicide
11h40-12h00	**OS6.3**	**Luis Olivera-Montenegro** (U. San Ignacio de Loyola, Perú) - Sustainable Valorization of Quinoa through Supercritical CO_2 Defatting and Green Industrial Production of Functional Protein Hydrolysate
12h00-12h20	**OS6.4**	**Rafael Almeida** (UNICAMP, Brazil) - Residual Oil Recovery Method Shapes Composition, Functionality, and Antioxidant Properties of Brazil Nut Cake Protein Concentrates
12h30-14h00	**Lunch break**	
14h00-15h00	**Round Table**	Coordination: ***Jerry King*** *(Critical Fluid Symposia/U. Arkansas, USA)* - Sub- and Super-critical Fluids in the Cannabis/Hemp Technology Platform Participants: **Lourdes Calvo** (U. Complutense Madrid, Spain); **Rui Soares** (Paralab, Portugal); **Ana Matias** (Canna.Biz, Portugal); **Marcelo Melo** (CannPrisma, Portugal); **João Bernardo** (PortoCanna, Portugal)
15h00-15h30	**Keynote 6**	**Philip Jaeger** (T.U. Clausthal, Germany) - Near and supercritical CO2 in sustainable energy generation *Chair: Carlos M. Silva (U. Coimbra, Portugal)*
15h30-16h10	**Oral Session 7**	**Combined sustainable technologies and alternative solvents** *Chair: Julian Martínez (UNICAMP, Brazil)*
15h30-15h50	**OS7.1**	**Ana N. Nunes** (iBET, Portugal) - Process Intensification of B-Phycoerythrin Recovery Using Pressurized Water Extraction from the Red Microalgae Porphyridium cruentum
15h50-16h10	**OS7.2**	**Minxing Zhang** (CSIC - U. Autonoma Madrid) - Process intensification in green extraction: compressed fluids and subcritical water applied to Ilex guayusa
16h15-17h00	**Coffee Break + Poster Session 3**	
17h00-18h00	**Award/Closing Session**	
18h00-18h30	**Flucomp Meeting**	

TRAINING SCHOOL

Thursday, October 29th (Chemistry Dept., University of Aveiro)		
9h00-10h30	**TS01**	**Francisco A. Sánchez** (PLAPIQUI, UNS/CONICET, Argentina) - Fundamentals of phase equilibria modelling
10h30-11h00	**Coffee Break**	
11h00-12h30	**TS02**	**Julian Martínez** (UNICAMP, Brazil) - Overview of the industrial development of extraction processes based on CO_2 and pressurized water (Biorefinery)
12h30-14h30	**Lunch break**	
14h30-16h00	**TS03**	**Carlos A. García-González** (U. Santiago Compostela, Spain) - Fundamentals of aerogels processing with $scCO_2$
Friday, October 30th (Chemistry Dept., University of Aveiro)		
9h00-10h30	**TS04**	**Albertina Cabañas** (U. Complutense Madrid, Spain) - Fundamentals of materials preparation with $scCO_2$-based techniques
10h30-11h00	**Coffee Break**	
11h00-12h30	**TS05**	**Ignacio Gracia** (U. Castilla-La Mancha, Spain) - Estimates and economic viability of processes based on supercritical fluids

POSTER SESSIONS

Poster Session 1 (P1) - Monday, October 26th (16h00-17h00) **Reactions and biorefinery processes in supercritical media; Phase equilibria and thermophysical/transport properties; High-pressure process engineering and scale-up**	
P1.01	B. Díaz et al. CO_2-Assisted Ethanol Liquefaction and CO_2-Based Fractionation of Bio-Oils from Eragrostis curvula.
P1.02	Camilo Pardo-Castaño et al. Integrated pressurized-fluid biorefinery for sequential valorization of grape pomace using supercritical CO_2 extraction, pressurized liquid extraction, and subcritical water hydrolysis.
P1.03	M.M. Marcelino et al. Supercritical water gasification of unbleached screen rejects from pulp and paper industry: A comparison of two batch process parameters
P1.04	Eulália da Silva Barros et al. Bio-Based Sugar Esters Produced under High Pressure: Application as Emulsifiers in Food Systems
P1.05	Eulália da Silva Barros et al. COSMO-RS-Guided Screening of Green Cosolvents for the Enzymatic Synthesis of Food-Grade Sugar Esters under Pressurized CO_2
P1.06	Heredia Ángel N et al. Radical polymerization of acrylamide in supercritical CO_2: experimental study and thermodynamic-kinetic modeling
P1.07	Ramses S. Meleán Brito et al. Synthesis of Hydrophobically Modified Polyacrylamides in Pressurized Carbon Dioxide and Ethyl Acetate
P1.08	Valeria Yepes-Diaz et al. Biorefinery for cellulose pulp, lignin and reducing sugars production by subcritical water-ethanol treatment: process model and life cycle assessment (LCA)
P1.09	M.V.O. Moreira et al. Supercritical water gasification of unbleached screen rejects for hydrogen-rich syngas production: a response surface methodology-based experimental study
P1.10	B.R. Cardoso et al. Effect of operational parameters on hydrogen production via supercritical water gasification of marine Sargassum sp.
P1.11	Jeieli Gaspar Lima et al. Application of supercritical CO_2 to the hydrolysis of açaí seed fibers: a study for lignin and cellulose recovery.
P1.12	M.V.O. Moreira et al. Supercritical water gasification of pulp and paper industry residues for hydrogen production: insights from process simulation
P1.13	Danielle Paixão et al. Gasification in Supercritical Water for Hydrogen Syngas Production: Estimability-Guided Kinetic Modeling
P1.14	R.J Olmos-Greco et al. Kinetic Investigation of PET Methanolysis Assisted by CO2 Using BHET as Model Compound
P1.15	Agostina Córdoba et al. Carbonatation of epoxidized soybean oil via supercritical CO_2 fixation catalyzed by deep eutectic solvents
P1.16	H. Candela et al. Selective Removal of Levulinic Acid from Lactic Acid-Rich Streams by Activated Carbon Adsorption

P1.17	Lígia Passos Maia-Obi et al. Investigation of the process parameters of the supercritical CO2 assisted in-situ polymerization of 4-vinylpyridine for the modification of EPDM
P1.18	María Gracia Archilla et al. Esterification of octanoic acid with isoamyl alcohol under subcritical conditions
P1.19	P. Cruza Rodelgo et al. Green Route to Isocyanate-Free Polyurethanes: Valorizing Limonene and via Supercritical Fluids
P1.20	José Vinicius Mattos et al. Phase Behavior of Propane + Insect Oil Systems for Sustainable Lipid Extraction
P1.21	José Vinicius Mattos et al. Barocaloric Effects and Thermodynamic Characterization of Black Soldier Fly and Tenebrio molitor Oils for Sustainable Phase Change Material Applications
P1.22	B. Díaz et al. Volumetric and Phase Behavior of Ethyl Levulinate + CO2 + Ethanol Mixtures under Supercritical Conditions
P1.23	F.P. Nascimento et al. Experimental study and modeling of phase envelopes for a Brazilian pre-salt recombined oil containing dense carbon dioxide using the PRSV EOS and different mixing rules
P1.24	F.E. Benelli et al. Supercritical CO2 subsea separation: A comparative study between quadratic and advanced mixing rules in cubic equations of state to describe the phase behavior of CO2-Alkanes series
P1.25	Natalia S. Cotabarren et al. Thermodynamic Modeling and Process Analysis of the High-Temperature Catalyst-Free Synthesis of 2-Ethylhexyl Laurate Biolubricant
P1.26	Juan José Mora Fajardo et al. Solid Solubility Prediction in Supercritical Carbon Dioxide Using Ensemble Learning with descriptors generated from COSMO Theory
P1.27	Benjamín Díaz et al. Thermodynamic Modeling of Ethanolysis Bio-Oils Fractionation using CO_2
P1.28	João Roberto F. S et al. Phase Equilibria and Dissolution Kinetics of the CO_2-H_2O System for Carbon Mineralization Applications
P1.29	Felipe Gois Mota et al. High-Pressure Phase Equilibrium and Thermodynamic Modeling of the CO_2 + Eucalyptol + L-Menthol Ternary System
P1.30	Jeieli Gaspar Lima et al. Solubility of Brazil nut oil in supercritical CO2
P1.31	Fernando Maués de Azevedo et al. Evaluation of the solubility of jambu (Acmella oleracea) extract in supercritical CO2 using an equilibrium cell
P1.32	Fernando Maués de Azevedo et al. Measurement of the solubility of açaí oil in supercritical CO_2 in a thermophysical equilibrium cell
P1.33	Albertina Cabañas et al. Water/CO_2 Partition Coefficients for the Supercritical Extraction of Aromatic Monomers from Lignin Depolymerization Mixtures
P1.34	Gerardo O. Pisoni et al. Variability of fluid-state ternary systems quadruple points in relation to high-pressure phase diagrams at fixed bulk composition
P1.35	Martina J. Quinzio et al. Prediction of Wax Appearance Temperature (WAT) curves and Liquid-Vapor Equilibrium in asymmetric synthetic mixtures using the RKPR Equation of State and Different Solid-Phase Approaches
P1.36	Aldana Pizzano et al. CO_2-Based Fractionation and Purification of Biolubricants: Experimental Analysis and RK-PR Modelling
P1.37	Maša Knez Marevci et al. Phase Equilibria of Poly(ethylene glycol)–Carbon Dioxide Systems at Elevated and Ultra-High Pressures
P1.38	Gabriel Morales-Gutiérrez et al. Process model and comparative life cycle assessment (LCA) of a biorefinery concept based on fractionated subcritical water hydrolysis for sugar cane trash valorization
P1.39	Kelly Pinheiro Pantoja et al. Preliminary Stepwise Scale-Up Study of Supercritical CO_2 Extraction of Oil from Brazilian 'Margarida' Avocado
P1.40	Gustavo Gonzalez-Muñoz et al. Economic Evaluation of Gas-Expanded Liquid Extraction (GXLE) of Baccharis dracunculifolia: Effects of Temperature and Ethanol Percentage on Manufacturing Cost and Productivity
P1.41	Lizeth Gómez-Ochoa et al. Technical, Economic, and Life Cycle Assessment of the Bioactive Oil Extraction Process from Cacay (Caryodendron orinocense) Press Cake Using Supercritical CO_2
P1.42	Gabriel Emiliano Motta et al. Green Biorefinery Design for Banana Inflorescence Bracts: Integrating High-Pressure Extraction, Sustainability Metrics, and Economic Assessment
P1.43	H. Candela et al. Techno-Economic Analysis of Second-Generation Lactic Acid Production via Thermocatalytic Processes

Poster Session 2 (P2) - Tuesday, October 27th (16h00-17h00) **Food, nutraceutical, pharmaceutical, and biomedical applications; Particle formation and materials processing; Artificial Intelligence in supercritical and high-pressure research; Supercritical fluid extraction/fractionation**	
P2.01	M. Carracedo-Pérez et al. Sterilization of Aerogels: A challenge solved with scCO2
P2.02	María Blanco-Vales et al. Supercritical CO2 in Circular Economy: Emerging Strategies for Sustainable Material Production and Management
P2.03	Chou I Ho et al. Engineering Mechanically Tunable Hydrogels from Supercritical CO2-Processed Decellularized Meniscus Extracellular Matrix
P2.04	Carlos Pazmino Guevara et al. Biomimetic Pancreatic Hydrogels via Supercritical CO_2 Decellularization: A Platform for Regenerative Diabetes Therapy
P2.05	Vito Calisi et al. Supercritical CO_2 Sterilization of GelMA and Poly(ether urethane): Protocol Optimization and Safety Assessment
P2.06	Marta M. Duarte et al. Supercritical CO_2-Assisted Decellularization of Porcine Trabecular Bone for the Development of Bioactive Bone ECM-Based Gels
P2.07	M. I. Rial-Hermida et al. Pectin aerogels for sustainable food packaging
P2.08	S. Fernández-Franco et al. Optimization of alginate aerogel production through partial pre-drying of gels
P2.09	Ana Iglesias-Mejuto et al. 3D-printed and polyurea-crosslinked cellulose-in-cellulose aerogels for tissue repair
P2.10	Rita Lucas et al. Supercritical CO_2-Engineered Affinity Devices for Curcumin Delivery and Therapeutic Applications
P2.11	Francisco Vicente et al. Green development of antimicrobial materials for biomedical applications
P2.12	C.A. García-González et al. Advanced and sustainable aerogel dressings for chronic wounds (AEROCARE)
P2.13	Felipe Silvestre Botter et al. Green Supercritical CO2 Technology Improves Bioactivity and Techno-Functional Performance of Brazil Nut Protein Concentrates
P2.14	J. Breit et al. Development of scCO2-Processed Functional Porous Polymer–Zeolite Composites
P2.15	Lucía del Moral et al. Supercritical CO_2-Assisted Antimicrobial Functionalization of Personalized 3D-Printed Medical Devices Based on PEEK and Biocompatible Resin
P2.16	Cristiana S. A. Bento et al. From Hydrogel to Sterile Aerogel: A Continuous Supercritical CO_2 Approach for Advanced Biomaterial Manufacturing
P2.17	Ramón Terroba et al. Hydrothermal treatment of polymers for biomedical applications
P2.18	Morgan Reynolds-Green et al. Application of Supercritical Carbon Dioxide to Plastic Recycling
P2.19	Ignacio Garcia-Casas et al. Supercritical CO_2 Processing of ZnO Nanoparticles Functionalized with Olive Pruning Extract and Their Incorporation into PLGA Porous Scaffolds
P2.20	Rita Lucas et al. Supercritical CO2–enabled design of Molecularly Imprinted Polymers for affinity–driven phosphate capture
P2.21	Antonio Montes et al. Development of Gelatin-Functionalized Silica/Polymer Hybrid Scaffolds by Supercritical CO_2 Foaming for Biomedical Applications
P2.22	Abdelaziz Hamed et al. Tuning the Properties of g-C3N4/TiO2 -Silica Composite Aerogels for Photocatalytic Applications: in-situ and ex-situ synthesis
P2.23	Nicolás A. Gañán et al. Incorporation of quinizarin in cellulose aerogels by combined scCO2-assisted impregnation and drying
P2.24	Nicolás A. Gañán et al. Supercritical impregnation of poly-(L-lactic acid) films with R-carvone: Influence of fluid phase concentration in carvone loading and mechanical properties
P2.25	Felipe Zaniol et al. Synthesis, Characterization and Dissolution of Naringenin:Betaine Cocrystals Produced by Supercritical CO2 Gas Antisolvent Process
P2.26	Juliana Demetrio Flores et al. Processing of Pterostilbene Using Gas Antisolvent Technology for Pharmaceutical Applications
P2.27	Cláudio M. R. Almeida et al. Upcycling rPET bottles into an aerogel-like material for thermoacoustic applications
P2.28	Marcelo Lanza et al. Cocrystallization of quercetin/L-proline with additives produced through GAS: effects on the amount of polymer added

P2.29	Jônatas Lopes Dias et al. Investigation of quercetin/isonicotinamide cocrystal production via GAS antisolvent
P2.30	Erick Jarles de Araujo et al. Modeling the mechanisms of Supercritical Fluid Impregnation of passion fruit bagasse phenolic extract into corn starch aerogels
P2.31	L.M.S. Carvalho et al. High-pressure technologies for the recovery of Tucumã-do-Amazonas (Astrocaryum aculeatum) peels
P2.32	María Elena Tito Silva et al. Evaluation of Color Strength (K/S) in Alpaca Fiber Dyed with Turmeric (Curcuma longa) using scCO2
P2.33	Darija Cör Andrejč et al. Supercritical CO_2 for Extraction and Impregnation of Bioactive Compounds from Red Currant
P2.34	Daniel Prado-Ramos et al. Supercritical CO2 technologies for advanced biomedical and food materials: Sustainable processing, functional design and AI-assisted strategies
P2.35	Izabella Mendes Lima et al. Atherogenic and thrombogenic indices of Tenebrio molitor oil obtained by supercritical extraction with CO2
P2.36	Paulina Sepúlveda Sánchez et al. Supercritical carbon dioxide extraction of pelletized brewer's spent grain
P2.37	Jorge Cassal-Valencia et al. Characterization of lanolin from Pelifolk sheep's wool using FTIR spectroscopy and gas chromatography
P2.38	Abigail Ramírez-Morales et al. Study on the application of supercritical extraction to Pelifolk sheep's wool to produce lanolin
P2.39	Diana das Graças O. Henriques et al. Supercritical CO_2 Extraction of Mucuna pruriens and Evaluation of Its Neuroprotective Effects in an In Vitro Ischemia Model
P2.40	Noelia D. Machado et al. Cascade fractionation of olive leaf extract using supercritical fluids to minimize pigments co-extraction
P2.41	José A.P. Coelho et al. Exploring the Bioactive Potential of Croton lechleri Twigs through Sustainable Extraction Approaches
P2.42	Juliana do Prado et al. Polymeric ropes recycling using supercritical fluid technology
P2.43	E. Cassel et al. Cultivar-Dependent Behavior in Supercritical CO_2 Decaffeination of Yerba Mate under Standardized Conditions
P2.44	Diogo Genaro Trevisan et al. Evaluation of the Potential for Plant Protein Production from Passion Fruit Seed Pericarp
P2.45	Lorena I. Jaramillo et al. Supercritical CO_2 Extraction and Characterization of Volatile Oils from Minthostachys mollis (Muña) Using Ethanol as Co-solvent
P2.46	Luis Morán-Alarcón et al. Selective recovery of triterpenic acids from complex olive tree pruning biomass: a comparative analysis using supercritical fluids and phenomenological modeling
P2.47	Ricardo Donizete Teixeira et al. Extraction of Oil From Avocado (Persea americana Mill. cv. Hass) Press Cake Using Supercritical CO_2: Effect of temperature and pressure on yield.
P2.48	Clóvis Antônio Balbinot Filho et al. Supercritical CO2 treatment as an innovative tool to mitigate off-flavor and modulate technological properties of cowpea protein concentrates
P2.49	Sheyma Inoubli et al. Supercritical CO_2 Extraction of Camellia japonica Leaves: extraction Yields, Fatty acid Composition, and phenolic content Compared with Conventional Methods
P2.50	Sheyma Inoubli et al. Valorization of Camellia Seed Cake via Supercritical CO_2 Co-Extraction with Spirulina: Recovery of Lipids, Pigments, and Antioxidants
P2.51	Pablo Leal Rodrigues et al. Integration of Supercritical Fluid Extraction and FTIR spectroscopy for quality control and chemical traceability of açaí oil

Poster Session 3 (P3) - Wednesday, October 28th (16h15-17h00)

Supercritical fluid extraction/fractionation; Combined sustainable technologies and alternative solvents

P3.01	Leonardo Gomes de Melo et al. Towards the integral valorization of Amazon inajá (Attalea maripa [Aubl.] Mart.): supercritical CO_2 extraction and characterization of bioactive oils from pulp, peel, and almond
P3.02	Gabriela Izane Almeida Campos et al. Characterization and functional evaluation of Amazon oils obtained by supercritical CO2 extraction
P3.03	Dérébé C. Kutolbena et al. Supercritical Fluid Extraction of Dried and Milled Avocado Fruit Components

P3.04	Monaliza Venâncio de Carvalho et al. Supercritical Fluid Extraction (SFE) of Seed Oils from Brazilian Biodiversity: Fatty Acid Profile and Nutritional Evaluation
P3.05	Viviane V. Garcia et al. Supercritical extraction of piquiá peel (Caryocar villosum (Aubl.) Pers.) using CO_2 with ethanol as co-solvent: yield and spectroscopic profile of extracts from an Amazonian fruit processing by-produc
P3.06	Viviane V. Garcia et al. Biological potential of supercritical extract from bacuri (Platonia Insignis Mart.) and piquiá (Caryocar Villosum (Aubl.) Pers.) peels: Bioprospecting of biomass from Amazonian sepecies
P3.07	Graziela de Almeida Campos et al. Extraction of Butter from Bacuri Seed (Platonia insignis) by Supercritical CO_2: Evaluation of Process Parameters and Cosmetic Application Potential
P3.08	Anthoniel Hendel Silva de Souza et al. Supercritical extraction of Trema micrantha L. stem: physicochemical characterization and antioxidant potential
P3.09	Lis da Silva Menezes et al. In vitro toxicological profile of Calycolpus goetheanus extract obtained by supercritical CO_2 extraction
P3.10	Nadjet Djihad et al. Green recovery of nonpolar compounds from the Invasive seaweed Rugulopteryx okamurae by supercritical CO_2 extraction
P3.11	Nadjet Djihad et al. Supercritical Fluid Extraction of Bioactive Compounds from the Invasive Seaweed Rugulopteryx okamurae within a Cascade Biorefinery Approach
P3.12	Joana M. Lopes et al. Supercritical CO_2 extraction of oils from insect flour
P3.13	Maria Eduarda de Carvalho et al. Physicochemical characterization, antioxidant potential and biological activity of a supercritical extract of Carapa guianensis (Andiroba) seeds with potential cosmetic and healing applications.
P3.14	Anthoniel Silva de Souza et al. Vitamin E Identification in Açaí, Inajá, and Buriti Plant Extracts Using UPC² Convergence Chromatography
P3.15	Jennifer Meza-Coaquira et al. Optimization of Supercritical CO2 Extraction of Black Quinoa Oil: Global Yield and Bioactive Characterization
P3.16	Olívia J. S. Gomes et al. Sequential Supercritical CO2-Based Biorefinery of Moringa oleifera Leaf for the Recovery of Lipophilic and Hydrophilic Food-Relevant Fractions
P3.17	Jennifer Meza-Coaquira et al. Development of an Integrated Process for INIA 420 Negra Collana Quinoa Combining Mechanical Scarification, Ultrasound-Assisted Saponin Recovery and Supercritical CO2 Oil Extraction
P3.18	Adiela Cuarán et al. Supercritical Fluid Extraction of Coffee Pulp: An opportunity for the valorization of an Abundant Byproduct
P3.19	Joselin Paucarchuco Soto et al. Supercritical CO2 extraction of bioactive compounds from oat bran (Avena sativa L.): effect of process conditions on extraction yield and tocols content
P3.20	Ricardo Hipólito et al. Supercritical CO_2 sequential desorption from polymeric adsorbent for the fractionation of hydroxytyrosol-rich concentrate derived from olive pomace
P3.21	Juan Pablo Inostroza Saldías et al. Compound-Specific Response Patterns Reveal Selective Supercritical CO_2 Extraction of Lignans from Pinus radiata Forestry Residues
P3.22	Ângela Alexandre et al. Selective extraction of cannabinoids from THC-Dominant cannabis inflorescences using supercritical CO_2: influence of pressure and temperature
P3.23	Tiago Figueira et al. From Laboratory to Industrial Scale: Supercritical CO_2 Extraction of THC-Dominant Cannabis and Techno-Economic Optimisation
P3.24	Cristiano José de Andrade et al. Chlorella vulgaris-based bioactive compounds: Enhanced microwave and pressurized liquid extractions using surfactants as modifiers
P3.25	Mário Vale et al. Enhancing Cellulose Recovery from Agro-Industrial By-Products via Subcritical Water Processing
P3.26	L. Granja et al. Sequential Supercritical CO_2 and Pressurized Water Extraction of Arthrospira platensis
P3.27	Gabriela Polmann et al. Pressurized deep eutectic solvent solution for the recovery of anthocyanins from juçara bagasse
P3.28	Lucca de Oliveira Cunha et al. Emerging extraction techniques applied to alecrim-do-campo: Comparison between methods with pressurized fluids
P3.29	Lucas Cardoso do Amaral et al. Analysis of the addition of water to DES for the removal of coumarins from Pterocaulon species in southern Brazil: quantification and mathematical modeling
P3.30	Juan David Marmolejo Tascón et al. Fractionation of bioactive compounds from ucuúba press cake
P3.31	Laura Santamaría et al. Cascade valorization of olive leaves and twigs from olive mill by subcritical water treatment
P3.32	Ernesto Quagliata et al. Optimization of Pressurized Liquid Extraction Conditions for the Recovery of Bioactive Compounds from Coffee Silverskin Using Hydroethanolic Solvents
P3.33	Ana Carolina de Aguiar et al. Recovery of antioxidant bioactive compounds from purslane (Portulaca oleracea) using pressurized liquid extraction

P3.34	Carolina Fernandes et al. Effect of power and solvent on ultrasound-assisted extraction of bioactive compounds from mentrasto (Ageratum Conyzoides)
P3.35	Victor M. Amador-Luna et al. CO2-assisted pressurized NADES extraction of neuroprotective bioactive compounds from orange by-products
P3.36	Jonas da Silva et al. Smart design of NADES for selective phlorotannin recovery from invasive brown algae by PLE
P3.37	Francisco Díaz-Seoane et al. Extraction of Camellia japonica leaves polar and non-polar compounds
P3.38	Teresa Moreno et al. Making the most of horticultural waste: a sustainable approach using subcritical dimethyl ether
P3.39	Sara Pacheco de Oliveira et al. Sequential multi-response optimization of pressurized liquid extraction for recovering antioxidant compounds from umari SFE residue
P3.40	Ainhoa Vicente et al. Valorization of soybean hulls by subcritical water extraction: effect of temperature and sodium bicarbonate on biomass fractionation
P3.41	Daniela Lamas et al. Comparative evaluation of fractionation technologies for soybean hull valorization
P3.42	Antonio Zacarias de Sousa Neto et al. Comparison of Sequential Extraction Strategies for Phenolic Compound Recovery from Momordica charantia Leaves
P3.43	Leonardo Gomes de Melo et al. Sustainable extraction of neuroprotective physalins from Amazon camapu (Physalis angulata L.) using supercritical CO_2 and bio-based co-solvent systems
P3.44	Isabela Ferreira Moreno et al. Pressurized liquid extraction of alkaloids from cocoa pod husk: antioxidant activity and potential for in vitro bioavailability studies
P3.45	H. Candela et al. Multistage extraction using green organic solvents for selective enrichment of lactic acid from subcritical water corn stover hydrolysates
P3.46	A. E. Illera et al. Valorization of olive leaves and twigs through the extraction of bioactive compounds
P3.47	J. Leocádio et al. TEC4GREEN Agenda - Circular Bioeconomy strategies for sustainable agricultural value chains: recovery of bioactive/inactive ingredients from agro-industrial biomass using supercritical CO2 and pressurized fluid technologies
P3.48	R. Chim et al. BI-WELLNESS - Supercritical CO2 extraction of bioactive ingredients from Beira Interior natural resources for sustainable human and animal wellness applications
P3.49	F. Huayta et al. Valorization of cocoa waste (Theobroma cacao L.) by sequential extraction with supercritical CO_2 and pressurized liquids for the recovery of bioactive compounds
P3.50	Patryk Słota et al. Green Pressurized Extraction of Tannins from Grape Pomace for Application in Gelatin-Based Films
P3.51	Laura Enriquez-Jojoa et al. Sequential Supercritical CO_2 and Pressurized Liquid Extraction of Antioxidant Bioactives from Coffee Husk (Coffea arabica var. Cenicafé 1)
P3.52	Rita Silva-Reis et al. Assessing HP-CO2 extraction efficiency: selective isolation of Cannabis sativa phytochemicals and exhaustive residue analysis