	Sunday 15 June 2025
15.00-17.00	Registration
17.00-20.30	Welcome party

					Monday 16 June 2025					
08:30-08:45					Welcome ceremony					
08:45-09:45				BL (	I adafumi Adhisciri), Tohoku University, TBA					
09:45-10:45				PL1 (Bria	In A. Korgei), University of Texas at Austin, T	ВА				
10.45-11.00	Parallel session									
	Thermodynamic		Separation		Process Intensification		Polymer		Natural Products	
11:00-11:30	INL1 (Chieh-Ming Hsieh), National Central University, Prediction of Drug Solubility in Supercritical Carbon Dioxide by Machine Learning Methods	11.00-11.30	KN1(Jerry W. King), Critical Fluid Symposia, Converging Pressurized Carbon Dioxide and Water into Green Processing Platforms	11.00-11.30	KN3 (Volkmar Steinberg), Uhde High Pressure Technolgies GmbH, Scale-up of SCF High-Pressure Processes	11.00-11.30	KN8 (Erdogan Kiran), Virginia Tech, Foaming of Polymers with Physical Blowing Agents: Industry and University Perspectives	11.00-11.30	KN12 (Owen Catchpole), Chief Engineer at Callaghan Innovation, Gas-Expanded Liquid Extraction of Marine Biomass	
11:30-11:50	ORL1 (Attila), Budapest University of Technology and Economics, <i>The</i> <i>structure and origin of Widom-</i> <i>anomalies</i>	11:30-12:00	KN2 (Youn-Woo Lee), Seoul National University, <i>TBA</i>	11:30-12:00	KN4 (Shogo Suzuki), ALBION Co., Ltd., Commercialization of Natural Plant Oil as a Cosmetic Ingredient using Liquefied Dimethyl Ether Extraction	11:30-12:00	KN9 (Steven Howdle), University of Nottingham, TBA	11:30-12:00	KN13 (Marleny Saldana), University of Alberta, <i>TBA</i>	
11:50-12:10	ORL2 (Cara E.Schwarz), Stellenbosch University, Separation of Alkanes and Alcohols with Supercritical CO2: From Complex Phase Behavior to Pilot Plant Investigations	12:00-12:10		10 min early break						
12:10-13:10					Lunch					
13:10-13:40	INL2 (Ardila Hayu Tiwi), National Taipei University of Technology, A novel deep eutectic solvent for lithium extraction from spent lithium ion batteries (LIBs) with or without supercritical carbon dioxide	13:10-13:40	INL3 (Hongshik Lee), Korea Institute of Industrial Technology, Process Integration of Supercritical Fluid Extraction for Valorization of Waste Materials	13:10-13:40	KN5 (Stéphane Sarrade), Director of the Energy Programs Division, <i>TBA</i>	13:10-13:40	KN10 (Ling Zhao), East China University of Science and Technology, Efficient Preparation of High-Performance Microcellular Polymer materials by Supercritical Fluid Foaming	13:10-13:40	KN14 (Sara Spilimbergo), University of Padova, Supercritical CO2: A Non-Thermal Solution for Food Preservation, Medical Sterilization, and High-Quality Drying	
13:40-14:00	ORL3 (Hiroyuki Matsuda), Nihon University, Vapor-liquid equilibria and excess molar enthalpies of the binary system carbon dioxide + ethyl lactate	13:40-14:00	ORL10 (José Manuel del Valle), Pontificia Universidad Católica de Chile, Supercritical extraction of suspensions: Application to plant flavonoids using aqueous-ethanol-modified CO2	13:40-14:10	KN6 (Bao Xiaqing), R&D Manager at JOPE Technology Co., LTD, <i>TBA</i>	13:40-14:10	KN11 (Irina Smirnova), Hamburg University of Technology, <i>Batch- to</i> <i>continuous process transition in</i> <i>aerogel production using</i>	13:40-14:10	INL4 (Ozan N. Cifci), University of Nebraska, <i>TBA</i>	
14:00-14:20	ORL4 (Marton Korosi), BME, Determination of melting point – depression: a comparison of two different measurement methods	14:00-14:20	ORL11 (Kiran Khurshid), University of Alberta, Hydrolysis of Waste Cardboard Using Pressurized Fluid Technology				supercritical fluids			
14:20-14:40	ORL5 (Guo-Xiang Wang),University of North Texas, Ultra-enhanced Pipeline Transport at Supercritical Conditions	14:20-14:40	ORL12 (Sabrinna), Sungkyunkwan University, Removal of volatile organic compounds (VOCs) from automotive waste by using supercritical carbon dioxide (scCO2)	14:10-14:40	KN7 (James Tunstall), CORE separation, TBA	14:10-14:30	ORL21 (Xuelin Zhang), East China University of Science and Technology, <i>Curing and foaming</i> behavior of polyvinyl chloride/epoxy resin blends in supercritical carbon dioxide	14:10-14:40	INL5 (Artiwan Shoptiruk), Chulalongkorn University, <i>TBA</i>	
14:40-15:00	ORL6 (Nathalie Piche), Ruhr University Bochum, <i>Liquid or</i> supercritical CO2 as coolant in drilling applications	14:40-15:00	ORL13 (Shuhao Zhang), China University of Petroleum, Synergistic Effects of Foam-Assisted Mobility Control in Enhancing Miscibility Reduction during Supercritical CO <sub>2</sub> Flooding	14:40-15:00	ORL17 (Stefano Barbini), NATEX Prozesstechnologie GesmbH, Stretching the limits of industrial CO2 extraction processes	14:30-14:50	ORL22 (Raquel Viveiros), NOVA School of Science & Technology, Green design of antimicrobial cellulose for wound healing			

15:00-16:20	J0-16:20 Coffee break and Poster session								
16:20-16:40	ORL7 (Laura M. Almara), University of North Texas, <i>Anomalous Behavior</i> from Subcritical to Supercritical States	16:20-16:40	ORL14 (Stefan Pollak), Ruhr University Bochum, <i>High-pressure technology in</i> <i>geology</i>	16:20-16:40	ORL18 (Ji Feng), University Of Washington, Supercritical CO2 Continuous Flow Synthesis of Metal-Organic Frameworks	16:20-16:40	ORL23 (Dongdong Hu), East China University of Science and Technology, Green preparation of biodegradable poly(butylene succinate-co-butylene adipate) based foams using supercritical fluid foaming	16:20-16:40	ORL26 (José Manuel del Valle), Pontificia Universidad Católica de Chile, 1978's Essen symposium jump started our research field on supercritical fluid applications
16:40-17:00	ORL8 (Laura Gohlich), Ruhr University Bochum, Behavior of liquid carbon dioxide in a non-equilibrium state below its triple point pressure	16:40-17:00	ORL15 (Hanin Samara), Clausthal University of Technology, The influence of exposure to supercritical CO2 on the storage capacity and integrity of caprocks	16:40-17:00	ORL19 (Wahyudiono), Institut Teknologi Sepuluh Nopember, Alkaline subcritical water for microcrystalline cellulose generation from wood waste sawdust	16:40-17:00	ORL24 (Xingyu. Jia), East China University of Science and Technology, Density Gradient Structure Foams Prepared by Novel Two-step Foaming Strategy: Performance, Simulation and Optimization	16:40-17:00	ORL27 (Ana N. Nunes), iBET, Process intensification for phycoerythrin extraction from Phorphyridium cruentum using pressurized water: preliminary studies and process optimization
17:00-17:20	ORL9 (Pietro Andrigo), Università degli Studi di Padova, Designing Predictive Models for SC-CO <sub>2</sub> Solubility in Non-Thermal Food Processing	17:00-17:20	ORL16 (Lukas Ehrlich), Ruhr University Bochum, Improving the performance of geothermal systems through the development of filter technologies for the separation of heavy metals from geothermal water	17:00-17:20	ORL20 (Dennis arigbe), Hamburg University of Technology, AeroKinetics: modeling and optimization of a fixed bed aerogel supercritical drying process	17:00-17:20	ORL25 (Luqman Umdagas), University of Bimringham, <i>Towards</i> Sustainable PET Recycling: Insights into Neutral Hydrolysis and Process Optimisation	17:00-17:20	ORL28 (Adane Tilahun G.), Technical University of Denmark, <i>Bioactive hydrolysate from</i> <i>supercritical</i> CO2 defatted starfish: A comparatives study of <i>subcritical water and enzymes</i> <i>hydrolysis</i>

00.45.00.45		Tuesday 17 June 2025							
08:45-09:45			DI 3 (Edward Laster) Linius	PL2 (Bu)	king Han), Chinese Academy of Sciences, TE	3A (drothermal/a)	lyothermal reactions		
10:45-10.45			FL3 (Edward Lester), Onive		coffee break	urouriermai/sc	ovolnermai reactions		
10.40 11.00					Parallel session				
	Hydrothermal & Solvothermal		Pharmaceutical		Novel Materials		Reaction in Critical Fluids		Green Chemistry and Eng
11:00-11:30	KN15 (Masahiro yoshimura), National Cheng Kung University, <i>Merits and</i> <i>Demerits of General</i> <i>Hydrothermal/Solvothermal</i> <i>Processing Using Autoclaves for</i> <i>Materials Production</i>	11:00-11:30	KN 19 (Elizabeth Badens), Aix Marseille University, <i>TBA</i>	11:00-11:30	KN21 (Shouhua Feng), Jilin University, Hydrothermal disproportionation synthesis of atomic-scale p-n junctions with triple valence states	11:00-11:30	KN25 (Zeljko Knez), University of Maribor, Hydrothermal Processes for Recycling of Polymers	11:00-11:30	KN28 (Richard Tilley), University of New South Wales, <i>TBA</i>
11:30-12:00	KN16 (Richard I. Walton), University of Warwick, In Situ Neutron Diffraction of Hydrothermal Crystallisation for Understanding Synthesis of Precious- Metal Oxides for Electrocatalysis Applications	11:30-11:50	ORL37 (Yusuke Shimoyama), Institute of Science Tokyo, Supercritical CO2- mixed phase system for pharmaceutical cocrystal formation	11:30-12:00	KN22 (Shu Yin), University of Tohoku, Hydrothermal Synthesis of Vanadium Oxyphosphate Plate-like Pigment Particles with Excellent Pearlescent Effort	11:30-12:00	KN26 (Bushra Al-Duri), The University of Birmingham, Supercritical Water Hydrocracking of LD-polyethylene, Polypropylene and their Mixtures	11:30-11:50	ORL58 (Peter W. Dunne), Trinity College Dublin, <i>DESIGN: Deep Eutectic Solvents for Inorganic</i> Green Nanomaterials
11:50-12:10	10 min early break	11:50-12:10	ORL38 (Carlos A García-González), University of Santiago de Compostela, Sterilization of Biomaterials: A Vital Need in Biomedicine Solved with scCO2	12:00-12:10	10 min early break	12:00-12:10	10 min early break	11:50-12:10	ORL59 (Hannah S. Mehringer), University of Konstanz, Developing an Automated Platform for Optimizing Organic Reactions in Flow Based on Green Metrics
12:10-13:10					Lunch				
13:10-13:40	KN17 (Lan Xiang), Tsinghua University, Controllable synthesis of TiO2 from impurity-bearing TiOSO4 solution via hydrothermal hydrolysis- calcination route	13:10-13:40	KN20 (Vivek Trivedi), University of Kent, <i>TBA</i>	13:10-13:40	KN23 (Yaping Zhao), Shanghai Jiao Tong University, Supercritical CO2-Coupled Mechanochemistry: A Green and Scalable Strategy for Advanced Nanomaterial Synthesis	13:10-13:40	KN27 (Mitsuru Sasaki), Kumamoto University, Development of Horizontal Recycling Technology for Cotton/Polyester Blended Fabric Using Subcritical Water	13:10-13:40	KN29 (Byoung-In Sang), <i>TBA</i>
13:40-14:10	ORL29 (Ji-Guang Li), National Institute for Materials Science, Systematic hydrothermal synthesis of RE2(OH)4SO4·nH2O layered hydroxides for green preparation of RE2O2S (RE: rare-earth)	13:40-14:10	ORL39 (Paolo Trucillo), University of Naples Federico II, Drug Release in Curcumin-Loaded Polymeric Foams: A Modeling Approach	13:40-14:10	KN24 (Shunsuke Asahina), JEOL Ltd, Dynamic Observation of Redox Reactions Using an In Situ Scanning Electron Microscope	13:40-14:10	ORL50 (V.D.B. Bonifacio), Instituto Superior Técnico, <i>Polyurea</i> Dendrimers: Harnessing ScCO2 for Sustainable Nanotherapeutics	13:40-14:10	INL8 (Taesung Kim), Sungkyunkwan University, Evaluation of Particle Removal Efficiency Using Supercritical CO2 Integrating Physical and Chemical Cleaning with
14:10-14:20		10 min break	(			14:10-14:20	10 min break		Surfactants
14:20-14:40	ORL30 (Shinji Iwamoto), Gunma University, Formation mechanism of spherical mesoporous ZrO2 via thermal treatment of zirconium alkoxide in 1,4-butanedio1	14:20-14:40	ORL40 (David Piña), Institut de Ciència de Materials de Barcelona (ICMAB- CSIC), Highly homogeneous nanovesicles produced by DELOS- SUSP, a compressed fluid methodology. Application in pH- sensitive nanovesicles for DNA delivery.	14:20-14:40	ORL43 (Ali Ubeyitogullari), University of Arkansas, Upcycling rice processing byproducts into high-value nanoporous aerogels using supercritical carbon dioxide drying	14:20-14:40	ORL51 (Makoto Akizuki), The University of Tokyo, <i>Two-stage flow</i> <i>reaction of α-pinene to p-cymene in</i> <i>sub- and supercritical water</i>	14:20-14:40	ORL60 (Mihael Irgolič), University of Maribor, Green method for waste compact discs (CDs) recycling
14:40-15:00	ORL31 (Kazuyuki Iwase), Tohoku University, Supercritical hydrothermal synthesis of high entropy spinel oxide nanoparticles as electrocatalysts for oxygen evolution reactions	14:40-15:00	ORL41 (Mohamad Baassiri), University of Limerick, Supercritical-CO2 assisted methanol atomization for pharmaceutical spray drying applications: CFD modelling and real time characterization	14:40-15:00	ORL44 (Petru Niga), RISE Research Institute of Sweden, <i>Surface passivation,</i> <i>loading, and coating of fine porous</i> <i>particles</i>	14:40-15:00	ORL52 (Armando T. Quitain), Kurnamoto University, CO2- Mediated Hydrothermal Liquefaction of Microalgae	14:40-15:00	ORL61 (Alexandre CARELLA), CEA - ISEC, Delamination process using supercritical CO2 for recycling end-of-life photovoltaic panels
15:00-15:20	ORL32 (Tso-Fu Mark Chang), Institute of Science Tokyo, Hydrothermal Synthesis of Multiferroic Ferrites Toward Photodegradation of Organic Dyes	15:00-15:20	ORL42 (Ying-Chih Lu), National Taiwan University of Technology, Preparation of pharmaceutical cocrystal using supercritical solvent cocrystallization process: case studies of pirfenidone- fumaric acid and p- toluenesulfonamide-sulfathiazole	15:00-15:20	ORL45 (Deirdre A. McAdams), Trinity College Dublin, Seaweed-Derived Carbon Dots for Green Energy Applications	15:00-15:20	ORL53 (Chao Yu), China University of Petroleum, A noval strategy for improving scCO2 drive recovery by using surfactant compound system	15:00-15:20	ORL62 (Christelle CRAMPON), Aix-Marseille University, Pretreatment of oils by supercritical CO2 fractionation for biofuel production

15:20-16:20	Coffee break and Poster session								
16:20-16:50	KN18 (Masaru Watanabe), Tohoku University, TBA	16:20-16:50		16:20-16:50	INL6 (Ken Yoshida), Tokushima University, Molecular Assembly Pathways of Corrosion-Protective Aliphatic Amine Films on Copper: From Individual Molecules to Surface Aggregates	16:20-16:50	INL7 (Taejoon Yoon), Seoul National University, <i>TBA</i>	16:20-16:50	INL9 (Siti Machmudah), Institut Teknologi Sepuluh Nopember, Liposomal delivery systems: preparation and encapsulation of phytochemical compounds under pressurized carbon dioxide - ultrasonic environments
16:50-17:10	ORL33 (D. Alonso Cerron-Infantes), University of Konstanz, <i>Hydrothermal</i> <i>depolymerization of commercial</i> <i>standard polyesters</i>	16:50-17:10		16:50-17:10	ORL46 (Anith Dzhanxinah), Sungkyunkwan University, <i>Bi-Sn-Sb anodes with ultrahigh</i> volumetric capacity for advanced lithium storage	16:50-17:10	ORL54 (Ritesh Ghorpade), University of Central Florida, Micro- PIV analysis of CO2 at near-critical and supercritical thermodynamic conditions	16:50-17:10	ORL63 (Neha Karanwal), Sungkyunkwan University, Electro-reductive Lignin Degradation: Optimizing Mild Cleavage Methods for Sustainable Depolymerization
17:10-17:30	ORL34 (Florian D. Vollstaedt), University of Konstanz, Synthesis of PI@MnO2 inorganic-organic hybrid materials via hydro- and solvothermal synthesis	17:10-17:30		17:10-17:30	ORL47 (Eleanor Cripwell), Trinity College Dublin, Synthesis and Characterisation of Solution Processable Surface Modified Antinomy Doped Tin Oxide Nanocrystals via Solvothermal Methods	17:10-17:30	ORL55 (Ahmed Fathallah), National Taipei University of Technology, Supercritical Fluids: a promising green delignification rice husks of using deep eutectic solvents	17:10-17:30	ORL64 (Yasora Liyanage), Sungkyunkwan University, Two- Step Process for High Yield of Phenolic Monomers from Lignocellulosic Biomass in Water Methanol Mixture
17:30-17:50	ORL35 (Frank Sailer), University of Konstanz, Hydrothermally synthesized layered organic-inorganic hybrid vanadium oxides for electrochemical storage devices	17:30-17:50	ISASF commitee meeting (17:10-18:10)	17:30-17:50	ORL48 (Celine Kuchler), University of Konstanz, <i>Controlled Crystallization of All-</i> <i>Organic Salt Particles</i>	17:30-17:50	ORL56 (Jongho Choi), Sungkyunkwan University, Producing biofuels from soybean oil and waste oils with homogeneous catalysts	17:30-17:50	ORL65 (Sun Chi rong), Sungkyunkwan University, Pressure-driven electrochemical conversion of CO2 to CO via nickel-encapsulated nitrogen Carbon nanotubes
17:50-18:10	ORL36 (Lena Schittenhelm), University of Konstanz, Development of One-Pot Multi-Step Hydrothermal Syntheses	17:50-18:10		17:50-18:10	ORL49(Jiayang Sun), East China University of Science and Technology, Long-chain Branched TLCP/SiO2 Foam with Ultra Low Dielectric, High Dimensional Stability, and High-temperature Infrared Stealth Properties	17:50-18:10	ORL57 (Guangshe Li), Jilin University, Synthetic Chemistry of Unconventional Oxides for Sustainable Development	17:50-18:10	ORL66 (Nur Zulaikha), MISS, Influence of Cooling Crystallization with Anti-Solvent on Succinic Acid Crystal Recovery from Biomass Fermentation Model Solution

		Wednesday 18 June 2025							
08:45-09:45			PL4 (Cyri	l Aymonier), li	nstitut de Chimie de la Matière Condensée de	e Bordeaux, 1	ВА		
09:45-10:45		PL5 (Ming-Tsai Liang), Jope Technology, TBA							
10:45-11:00	cottee break								
		1			Parallel session	1	Not well Developed		Discussion
	Hydrothermal & Solvothermal		Sustainable Feedstock		Novel Materials		Natural Products		Pharmaceutical
11:00-11:30	KN30 (Seichi Takami), Nagoya University, <i>TBA</i>	11:00-11:30	KN34 (Edit Szekely), Budapest University of Technology and Economics, <i>Controlled hydrothermal</i> <i>decomposition of polymers in a</i> <i>semicontinuous setup</i>	11:00-11:30	KN38 (Dan Wang), <i>TBA</i>	11:00-11:30	KN40 (Feral Temelli), University of Alberta, TBA	11:00-11:30	KN41 (Nora Ventosa), Institute of Materials Science of Barcelona (ICMAB-CSIC), The key role of compressed CO2 based technologies in the production of metal-free nanoparticles for biomedical applications
11:30-12:00	KN31 (Juan Carlos), CINVESTAV, 3D hierarchical self-assembly of inorganic silicate materials under hydrothermal conditions: reaction pathways	11:30-12:00	KN35 (Manfred Renner), <i>TBA</i>	11:30-12:00	KN39 (Takeshi Momose), <i>TBA</i>	11:30-11:50	ORL78 (Isaline Lhoste), Innovation Fluides Supercritiques (IFS), Recovery of food by-products for cosmetic and nutraceutical applications via natural deep eutectic solvents coupled with supercritical CO2	11:30-12:00	ORL85 (Zully Matamoros-Veloza), Instituto Tecnlógico de Saltillo, Synthesis of SiHAp under hydrothermal and supercritical conditions
12:00-12:10	10 min early break	12:00-12:10	10 min early break	12:00-12:10	10 min early break	11:50-12:10	ORL79 (Ana M. Ferreira), University of Aveiro, Portugal, Optimization of Artemisinin Extraction from Artemisia annua L. Using Bio-Based Solvents and Accelerated Solvent Extraction	11:50-12:10	ORL86 (Yasuhiko Orita), Institute of Science Tokyo, Supercritical synthesis of CO2-loaded liposome for temperature/acoustic-responsive drug release
12:10-13:10					Lunch				
13:10-13:40	KN32 (Mitsumasa Osada), Shinshu University, Development of plastics on the premise of chemical recycling & Prediction of organic reaction in high- temperature water using natural language processing	13:10-13:40	KN36 (Danilo Cantero), <i>TBA</i>	13:10-13:40	INL10 (Sungsu Park), Sungkyunkwan University (SKKU), Plasma Porous Lithography Enabling Precise Three- dimensional Patterning in Porous Membrane for Liquid Separation and Biosensing	13:10-13:40	INL12 (Aye-aye Myint), Sungkyunkwan University, Harnessing dimethyl ether for direct recovery of valuable bioactive compounds from wet tangerine pomace	13:10-13:40	KN42 (Hsien-Tsung Wu), Ming Chi University of Technology, Monodisperse nanoparticles of inhaled COVID-19 drug composites produced using supercritical assisted atomization
13:40-14:10	KN33 (Akira Yoko), Tohoku University, Continuous flow hydrothermal synthesis of ultrafine metal oxide nanoparticles	13:40-14:10	KN37 (Takaaki Tomai), Tohoku University, <i>Hydrothermal</i> Electrochemical System for Energy- Efficient CO2 Reduction	13:40-14:10	INL11 (Zoran Novak), University of Maribor, Faculty of Chemistry and Chemical Engineering, SLOVENIA, <i>Hybrid</i> <i>Silica Aerogels: Hierarchically Porous,</i> <i>Lightweight, and Thermally Insulating</i> <i>Materials with Tunable Properties</i>	13:40-14:00	ORL80 (Takafumi Sato), Utsunomiya University, Hydrothermal decomposition of strawberry leaves for solid weight reduction and recovery of variable components	13:40-14:00	ORL87 (Yasmine Masmoudi), Aix Marseille University, Innovative supercritical CO2-based preparation methods of polymer samples for dynamic nuclear polarization solid-state nuclear magnetic resonance
						14:00-14:10	то тіп ргеак	14:00-14:10	IU MIN Dreak
14:10-14:30	ORL67 (Giulia Ischia), Max Planck Institute of Colloids and Interfaces, Hydrothermal humification: convert biomass in artificial humic matter for soil carbon sequestration	14:10-14:30	ORL71 (Deepak Verma), Sungkyunkwan University, Tuning Ru Surface Active Sites to Produce Sustainable Aviation Fuel and Commodity Chemicals from Lignin	14:10-14:30	ORL74 (Ardiansyah Taufik), Advanced Institute for Materials Research (AIMR), Tohoku University, Japan, Visible light active photocatalyst 2 nm TiO2 nanoparticles prepared by continuous flow-hydrothermal synthesis	14:10-14:30	ORL81 (Sreenivasa Reddy P.), Singapore Institute of Food and Biotechnology Innovation (SIFBI), A*STAR, Sequential drying, extraction of high value compounds from high moisture diverse food side streams: A new route to waste valorization	14:10-14:30	ORL88 (Guillem Vargas-Nadal), Centro de Investigación Biomédica en Red (CIBER-BBN), Nanoscopic characterization of ultrabright FRET-nanovesicles as bioimaging probes

14:30-14:50	ORL68 (Oumayma Bezza), CEA, LITEN, DTCH, LRP, 38000 Grenoble, Chemical kinetics of the hydrothermal conversion	14:30-14:50	ORL72 (Sofia Messias), i3N/CENIMAT, High-Pressure (Photo)Electrochemical conversion of CO2 to sustainable fuels	14:30-14:50	ORL75 (Milica Pantic), University of Maribor, Faculty of Chemistry and Chemical Engineering, <i>Designing PCL-</i> <i>pectin gels: tuning between aerogels and</i> <i>foams</i>	14:30-14:50	ORL82 (Fabio Santi), Università degli Studi di Padova, Application of supercritical carbon dioxide pasteurization coupled with natural antimicrobial substance on chicken breast meat	14:30-14:50	ORL89 (Costa Clarinda), University of Limrick, Integrated continuous manufacturing of celecoxib-loaded HPMCAS-LF nanoparticles onto microparticles for enhanced oral bioavailability
14:50-15:10	ORL69 (Panpan wu), Tohoku University, Corrosion Behavior of Citric Acid on Various Steel Materials During the Hydrothermal Leaching of Lithium-ion Battery Cathode materials	14:50-15:10	ORL73 (Taishi Dowaki), The University of Tokyo, Lignin conversion into aromatic monomers through transfer hydrogenolysis: comparative study of model compounds and wood-derived organosolv lignin	14:50-15:10	ORL76 (A. B. Paninho), i3N/CENIMAT, Department of Materials Science, NOVA School of Science and Technology and CEMOP/UNINOV, Solar-Powered CO2-to- Fuel Conversion using Nanostructured Aerogels	14:50-15:10	ORL83 (Renna Yulia V.), Institut Teknologi Sepuluh Nopember, Optimization of S-allyl-L-cystein extraction from black solo garlic (Allium sativum L.) by Hidrothermal Treatment	14:50-15:10	ORL90 (María Carracedo-Pérez), University of Santiago de Compostela, Scaling Up a scCO2 Sterilization Protocol for Safe and Sustainable Reuse of Medical Devices
15:10-15:30	ORL70 (Jakaria Rambli), Department of Materials Science and Applied Chemistry, Kumamoto University, Microwave hydrochar from Sago (Metroxylon Spp) as a catalyst for solvothermal conversion of glycerol to fuel additives	15:10-15:30	-	15:10-15:30	ORL77 (Hyeon Seo Park), Sungkyunkwan university, Micro-sized different SnBi alloy composites for high performance lithium- ion battery anode	15:10-15:30	ORL84 (Ruqian Cao), Sungkyunkwan University, High- yield recovery of crude lipids from wet Schizochytrium for biodiesel production using liquified dimethyl ether without cell disruption	15:10-15:30	ORL91 (Qi-Jun qiu), National Taipei University of Technology, Designing amorphous solid dispersion and inclusion complex formulation of niclosamide using the supercritical antisolvent process
15:30-16:30			1		Coffee break and Poster session		1		
16:30-17:00		Move to Gala Dinner							
17:00~21:00					Gala Dinner				

	Thursday 19 June 2025								
	Polymer		Sustainable feedstock		Hydrothermal & Solvothermal		Novel Materials		Commitee meeting
08:40-09:00	ORL92 (Yichong Chen), East China University of Science and Technology, A novel semi-continuous preparation mode of ultra-low density thermoplastic polyurethane foam	08:40-09:00	ORL99 (Cataldo De Blasio), Åbo Akademi University, An integrated process development approach for hydrothermal valorization of side- streams and synfuels production	08:40-09:10	INL13 (Gimyeong Seong), The University of Suwon, Chemical Looping Steam Methane Reforming using CeO2 Nanomaterials: Insight into Reactivity and Stability	08:40-09:10	INL15 (David Jui-Yang Feng), National University of Kaohsiung, A Novel Procedure of Fabricating MXenes-Ti3C2 Nanostructure via directly using Hydrofluoric Etchant in Supercritical CO2		
09:00-09:20	ORL93 (Yu-Cheng Tong), National Taipei University of Technology, Particle design of energetic material ammonium perchlorate using batch and continuous supercritical antisolvent processes	09:00-09:20	ORL100 (Sheraz Ahmed), Sungkyunkwan University, Selective production of CO/formates over Sn- based catalysts by electrocatalytic reduction of CO2 at higher pressure	09:10-09:40 INL14 (Agung Nugroho), <i>TBA</i> 09:		00 40 00 40			
09:20-09:40	ORL94 (R.F. Hipolito), NOVA University of Lisbon, Computational design & Supercritical CO <sub>2</sub> —assisted development of tyrosol– molecularly imprinted polymers for their selective recovery from olive extracts	09:20-09:40	ORL101 (Junjung Rohmat Sugiarto), Sungkyunkwan University, Lignin Dimers Model Compound Depolymerization over various size of Pd and Ni: A Density Functional Theory Study		09:10-09:40				
09:40-10:00	ORL95 (Yao Peng), East China University of Science and Technology, Regulation of adhesive behavior and foaming behavior of thermoplastic polyurethane in supercritical carbon dioxide atmosphere	09:40-10:00	ORL102 (Muhammad Shakir Hussain), Sungkyunkwan University, Boosting Electrochemical reduction of CO2 to CO in a zero gap electrolyzer	09:40-10:00	ORL106 (Tobias M. Klenk), University of Konstanz, Hydrothermal Synthesis of a Platinum-Based Molecular Square	09:40-10:00	ORL109 (Huan Doan), Australian National University, Using supercritical CO2 in preparation of metal-organic frameworks: a promising way to achieve additional porosity?		
10:00-10:20	ORL96 (Xuwei Li), East China University of Science and Technology, Preparation of thermoplastic elastomer microcellular foams by supercritical fluid foaming and their wear resistance	10:00-10:20	ORL103 (Syeda Sidra Sibi), Sungkyunkwan University, Transforming CO2 to hydrocarbons: The impact of the ZrOx promoter in Cobalt catalyst	10:00-10:20	ORL107 (Eri Kumai), Tsinghua University, Synthesis of CGS@Li2TīO3 core-shell particles from TBFS and CGS	10:00-10:20	ORL110 (Yuta Nakayasu), Tohoku University, Structural Analysis of Quinone-Impregnated Porous Carbons via Supercritical CO2 for Dual-Quinone Organic Batteries		
10:20-10:40	ORL97 (Xiulu Gao), East China University of Science and Technology, Thermoplastic polyurethane foam with low density and superior mechanical properties by molecular structure modulation and supercritical fluid foaming	10:20-10:40	ORL104 (Jiyeon Lee), Sungkyunkwan University, Thermocatalytic CO2 conversion into carboxylic acid under high pressure conditions	10:20-10:40	ORL108 (Qingxin Zheng), Tohoku University, Hydrothermal Recycling of Polycarbonate Waste: From Batch-type Reactor to Continuous Flow System	10:20-10:40	ORL111 (Chunli Han), Tohoku University, Low-temperature CH4 Reforming and Water Splitting with Activated NiO/CeO2 as Oxygen Carrier		ISHA commiteee meeting (10:00-11:00)
10:50-11:10	ORL98 (Lingying Wu), East China University of Science and Technology, Study on Thermal Insulation Properties of Microcellular Polyamide Composites via foaming molding integration	10:50-11:10	ORL105 (Darsha Prabhaharan), Hanyang University, Microbial Strategies for Enhanced Biogas Production: A Genome-Resolved Study in Anaerobic Digesters Across South Korea	10:50-11:10		10:50-11:10	ORL112 (A.I. Furtado), FSE Maastricht University, ScCO2 modeling for design and green synthesis of metal-based MIP biosensors		

11:10-11:20	10 min early break	11:10-11:20	10 min early break	11:10-11:20	11:10-11:2	ORL113 (manthila Perera), School of Chemical Engineering, Aalto University, Espoo, 02150, Finland, Stepwise Extraction of Waxes from Lingonberry Pressed Cake Residues Using Supercritical CO <sub>2</sub>		
11:20-12:00	20-12:00 Closing Ceremony							
12:00-13:00					Lunch			
13:00-20:00					Field trip I			
	Friday 20 June 2025							
09:00-18:00					Field trip II			

		G	reen Chemistry and Engineering						
No.	Name	Attiliation	Inte						
P-101 P-102	Na0 Lakata Taevoon Kim	Kumamoto University	microwave-sorvouriermal symmests of GTBE with Carbon-based catalysis						
P-102 D 102	YunHoi Choi	Hanyang University	Electrochemical Regeneration of TEMPO for Sustainable Certeivide Oxidation						
P-103	Funnoi Choi	Hanyang University	Metabolic minuence ol Amino Acios on Medium-Chain Carboxylic Acios Biosynthesis in Megasphaera nexanioca						
P-104	Hyebin Xu	Hanyang University	Development of blodgraduate Flastics with Controlled Degraduation Osing Encapsulated Spore-Forming Batteria						
P-106	Chanwoo Kim	Hanyang University	Kolbe Flectolvis for Bio-Based Alkane Production: Covards Sustainable Alternatives in the Cosmetic Industry						
	onamoonam	rialiyang onivolog							
	Hydrothermal or Solvothermal Synthesis								
No.	Name	Affiliation							
P-107	Chunli Han	Tohoku University	Dynamic Mn Doping in CeO2 Nanoparticles and Superior Oxygen Storage Capacity of Mn-CeO2 Nanoparticles in a Non-equilibrium State						
P 100	Debui Kwee	VITECH	Contraction of solution into bolices via sub-subjectification which reaction without use of catalysis and hydrogen						
P-109	Shinii Iwamoto	Gunma University	Communicuus myurouremain reaction nor biologie production and une effect or basic catalysis						
D.111	Beining Zheng	liin Liniversity	Hydrothermal discontentional solutions of Huges 202 million of ordered behavior of Alekerton configurations						
P-112	Wenshu Shi	Jilin University	Anion modulation of Mn–Q bond length and magnetic properties in manganese-based percoskites						
		Natura	I Products and Food-related Materials						
No.	Name	Affiliation	Title						
P-113	Umair Zahid	University of Alberta	Valorization of shrimp shell using supercritical CO2, ultrasound, and enzymatic treatement: astaxanthin, hydrolysate, and protein rich residue						
P-114	Ana N. Nunes	IBET - Instituto de Biologia Experimental e Tecnológica	Downstream fractionation process using compressed fluids for the isolation of bluish pigments						
P-115	Priscilla Carvalno Veggi	Federal University of Sao Paulo	Green Extraction of Nectandra barbellata Bloactives Using SuperCritical CO <sub>2</sub>						
D 117	Bonno Vulio Voroondo	natitut Tekneleri Senuluh Nenember	Subditional week Extraction of bioactive Composition form blown Seawerd Species						
P-118	Alvin Candra Eebriansvah	Institut Teknologi Sepuluh Nopember	Optimization of S-allyti-cystem extraction notack solo ganic (Allium Sativum L.) up indicutemiai realment						
P-119	Ji Sun Lim	KITECH	Characterization of Porous Materials from Supercritical Eluid Extraction Residues Liner Hydrothermal Carbonization						
P-120	Ave Ave Mvint	Sungkyunkwan University	Recovery of intracellular bioactive compounds directly from we have a barrance or using intracellular bioactive compounds directly from we have barrance or using intracellular bioactive compounds directly from we have barrance or using intracellular bioactive compounds directly from we have barrance or using intracellular bioactive compounds directly from we have barrance or using intracellular bioactive compounds directly from we have barrance or using intracellular bioactive compounds directly from we have barrance or using intracellular bioactive compounds directly from we have barrance or using intracellular bioactive compounds directly from we have barrance or using intracellular bioactive compounds directly from we have barrance or using intracellular bioactive compounds directly from we have barrance or using intracellular bioactive compounds directly from we have barrance or using intracellular bioactive compounds directly from we have barrance or using intracellular bioactive compounds directly from we have barrance or using intracellular bioactive compounds directly from we have barrance or using intracellular bioactive compounds directly from we have barrance or using intracellular bioactive compounds directly from we have barrance or using intracellular bioactive compounds directly from we have barrance or using intracellular bioactive compounds directly from we have barrance or using intracellular bioactive compounds directly from we have barrance or using intracellular bioactive compounds directly from we have barrance or using intracellular bioactive compounds directly from we have barrance or using intracellular bioactive compounds directly from we have barrance or using intracellular bioactive compounds directly from we have barrance or using intracellular bioactive compounds directly from we have barrance or using intracellular bioactive compounds directly from we have barrance or using intracellular bioactive compounds directly from we have barrance or using intracellular bioactive compounds						
P-121	Arkaan Helge Fausta	Institut Teknologi Sepuluh Nopember	Effect of Supercritical CO2 Extraction Paramaters on the Extraction Rate and Solubility of Black Solo Garlic (Allium Sativum L.)						
P-122	Sagrario Beltrán	Universidad de Burgos	Study of the recovery of isoflavones from okara by different non-conventional processes, using water as solvent						
P-123	Mitsuru Sasaki	Kumamoto University	Optimizing Subcritical Water Treatment for Reducing Food Waste and Producing Nutrient-Rich Vinegar						
		Noval Materia	a Darticle Formation and Nanotocheology						
No	Name	Affiliation	na, raice i vinacon, alu Nalotechilology						
P-124	Cara E Schwarz	Stellenbosch University	Supercritical CO2 PGSS processing of Fischer-Tropsch waxes						
P-125	Purin Puprompan	Institute of Science Tokyo	Estimation of inorganic nanoparticle size synthesized from supercritical microfluidic process using machine learning						
P-126	Do-Heyoung Kim	Chonnam National University	Hamessing the power of multi-metallic phosphide heterostructures through atomic layer deposition for advanced hybrid supercapacitors						
P-127	Hyeon Seo Park	Sungkyunkwan university	Micro-sized different SnBi alloy composites for high performance lithium-ion battery anode						
P-128	Chi Rong Sun	Sungkyunkwan University	High-Capacity, High-Rate Nanosized Bismuth-Antimony Embedded in N-doped Carbon Matrix via Facile Pyrolysis as Anodes for Advanced Li Storage						
P-129	Anith Dzhanxinah Mohd Sarofil	Sungkyunkwan University	High performance lithium storage with bismuth-zinc oxide heterojunction microspheres						
		Dharn	nacoutical & Biomodical Applications						
No	Name	Affiliation							
P-130	Sabrinna Wulandari	Sungkyunkwan University	Supercritical antisolvent (SAS) process to synthesize astaxanthin/β-cyclodextrin microparticles						
P-131	María Carracedo-Pérez	Universidad de Santiago de Compostela	Combining Supercritical CO2 Technology in Bioaerogel Fabrication for Biomedical Applications						
N.a.	Manua	Polymer							
D-132	Erdogan Kiran	Allillation Virginia Tech	Title A Novel Ecoming Cell with Movable Roundarias for Ecoming of Rohymers with Supercritical Eluids as Physical Blowing Agents						
D.133	Erdogan Kiran	Virginia Tech	A Novel real miles of the third prevention of the second at a second sec						
P-134	Gal Slaček	University of Maribor Eaculty of Chemistry and Chemical Engineering (UM EKKT)	Supercifical extraction of turmeric for obtaining body visconices and the development of polymer based scaffolds for modern applications						
P-135	Yasmine Masmoudi	Aix Marseille University - M2P2	Innovative supercritical CO2-based preparation methods of polymer samples for dynamic nuclear polarization solid-state nuclear magnetic resonance						
P-136	Wenyu Zhong	East China University of Science and Technology	Preparation of Ultra-High Expansion Ratio PMMA/PVDF Foam with Efficient Radiative Cooling Performance by CO2 Foaming						
P-137	jaeryeong jeong	Sungkyunkwan University	Recycling of Polyamide Composites from Automotive Materials via Solvent Extraction Technology						
P-138	Elissandro Jair Klein	Federal University of Technology	Sustainable Aerogel Production from Food Industry Byproducts using Acerola (Malpighia emarginata) Seed as a Cellulose Source						
P-139	Ayça Tüter Semercioğlu	Koç University	A novel preparation method for Cu-BTC and alginate aerogel nanocomposites: MOF triggered gelation of alginate						
			Process Intensification/Scale.11n						
No	Name	Affiliation							
P-140	Ed Lester	University of Nottingham	Life-cycle assessment of the solvothermal/hydrothermal MOF manufacture to evaluate process and reduce environmental impact						
			Reactions in Critical Fluids						
NO.	Name Chatara Cali	Affiliation	I me						
P-141 D-142	Pies Eukuda	I ne University of Tokyo Kumamoto university Japan	Kinetic study of addr-catalytic effect of alcohol dissociation in hot compressed water						
D-1/13	Kota Niehimure	Kumamoto University, Japan	CO2-interising injuritiential conversion of Co sugars using undates now reaction						
P-144	Aoi Muronosono	Institute of Science Tokyo	Kinetic analysis for synthesis of iron oxide nanoarticles using superinting and a medium						
P-145	Maria Teresa Sanz	Universidad de Burgos	Study of the production of lactic by valorizing second-generation biomass using water under subcritical conditions and alkaline catalysis						
N.a.	Manua	A 2011-41	Separation Processes						
P-146	Beatriz Gomes Monteiro	NOVA School of Science and Technology	Sustainable Extraction of Oil from Black Soldier Fly Larvae Using Supercritical Carbon Dinxide						
P-147	Nathalie Piche	Ruhr University Bochum	Post-treatment of 3D-printed metal parts with supercritical water						
P-148	Darija Cör Andreič	University of Maribor	Extraction of pumpkin seeds (Cucurbita pepo) oil using supercritical carbon dioxide and compressed propane						
P-149	Masaki Ota	Tohoku University	Development of a stagewise model for fixed-bed supercritical CO2 extraction						
P-150	Ricardo Ferreira Hipólito	NOVA University of Lisbon	Supercritical CO <sub>2</sub> vs. Organic Solvents: A Sustainable Approach for the Recovery of Hydroxytyrosol from Olive Pomace						
P-151	Laura M. Cuellar	Pontificia Universidad Católica de Chile & Tecnológico de Monterrey (México)	Effect of solvent (CO2/ethanol/H2O) on polyphenol extraction from calafate (Berberis microphylla G. Forts) fruit suspensions as substrate						
P-152	Marco Antonio Mamani	Pontificia Universidad Católica de Chile & Tecnológico de Monterrey (México)	Supercritical CO2 extraction of phenolic compounds from red clover (Trifoliumpratense L.) using hydroethanolic mixtures as cosolvent/suspension medium						
P-153	Ruqian Cao	Sungkyunkwan University	High-yield recovery of crude lipids from wet Schizochytrum for biodiesel production using liquified dimethyl ether without cell disruption						
P-154 P-155	Yaoyao Zhu Wonhin Seo	I singnua University Secul National University	Innuence of hydrocyclone barrier structure on separation of low-grade phosphate ores Enhancing Matal Becovery from Spent Lithum Ion Battering Lieng Supercritical Carbon Dioxide with Carbovulic Acide and Glucose						
F-100	Wonbin Seo	Seoul National Oniversity	Emailing Metal Recovery from Speric Librium-for Balteries Using Superclitical Calbort Dioxide with Calboxylic Acids and Stucise						
		Sustainable	Feedstock Utilization and CO2 Conversion						
No.	Name	Affiliation							
P-156	Hanbit Jang	Chonnam National University	Hamessing Metal Oxides for Sustainable CH <sub>3</sub> COOH Production from CO <sub>2</sub> and CH <sub>4</sub>						
P-157	Hyogeun Yang	Chonnam National University	Errect or Activation Sequence in CO2 and CH4 Sequential Reaction for Selective Production of Oxygenated Compounds						
P-158 P-150	Ana Yoshiti Vidria Sahara	Unonnam National UNIVERSITY	CU2-derived Sustainable Gasconne Production through Balanced Interplays on 1 allored PeK/CUAI2C4 Catalyst Barrier projective of cellulose based materiale made of whete tarau using presenting of cellulose. Asset made of whete tarau using presenting of cellulose based and the link interprint ultrace of the cellulose based and the link interprint ultrace of the cellulose based and the link interprint ultrace of the cellulose based and the cellulose based tarautication of the cellulose based and the cellulose based to the cellulose based and the cellulose to the cellulose based and the cellulose based to						
D.160	Rizky Giland Kurniouson	Sundhunhuan University	camer propercise or consider-based materials made or whiles staw using pressure 2014/2014/2014/2014/2014/2014/2014/2014/						
P-161	Sheraz Ahmed	Sundkyunkwan University	Case along on mode and conversion to hexamplification better over onnerating upper service, numic, and numy on advance Calibon Calatyst. Revealing the new role of 770x in Co2 hydrogenation to high-yield C25+ with long-term stability over Fa-based calatylest						
P-162	Neha Karanwal	Sundkvunkwan University	Bhenium-promoter-free ruthenium-zirconia catalyst for high-yield direct conversion of succinic acid to 1 4-butanetici in water						
P-163	Syeda Sidra Bibi	Sungkyunkwan University	Unlocking CO <sub>2</sub> hydrogenation efficiency with alkali-modified Cobalt-Zirconium oxide (Co2rCx) Catalysts						
P-164	Seoyeon Kim	Sungkyunkwan University	Electrocatalytic cleavage of α-O-4, β-O-4 and 4-O-5 linkages using Pd/C catalyst						
		The sure	odynamice and Eluid Dhase Equilibria						
No	Name	Affiliation	our reaction of the second s						
P-165	Jeong-Hoon Sa	Dong-A University	Thermodynamic study of HFC-125 + CO, mixed gas hydrates to develop clean hydrate-based fire extinguishing agent for inaccessible fire						
P-166	Cara E Schwarz	Stellenbosch University	The application of the principle of congruence to mixtures containing CO2 and n-alkanes. 1-alcohols. n-carboxulic acids or methyl esters						
P-167	Juan C. de la Fuente	Universidad Tecnica Federico Santa Maria	Solubility measurement of two new synthesized derivatives of 2,3-dichloronaphthalene-1,4-dione (dichlone) in supercritical carbon dioxide						
P-168	Katsumi Tochigi	Nihon University	Evaluation of dispersion and aggregation for decanoic acid-modified ceria nanoparticle + solvent systems using ASOG group contribution method						
P-169	BoMin Kim	School of Chemical and Biological Engineering, Institute of Chemical Processes, Se	s Isothermal Vapor-Liquid Equilibria(VLE) of Organic Sovlents in Electrolyte - Carbon Dioxide						
P-170	Chieh-Ming Hsieh	National Central University	Prediction of Drug Solubility in Supercritical Carbon Dioxide by Machine Learning Methods						
P-171	Erdogan Kiran	Virginia Tech	Rate of Density Change as a Probe of Phase Separation in Polymer Solutions in Compressed Fluids						