

Table of contents

Tuesday 16 September 2025	1
---------------------------------	---

GRICU 2025 Congress & GRICU/NEST Doctoral School + CAPE Forum 2025

Tuesday 16 September 2025

POSTER SESSION II & COFFEE BREAK - Park Hall (10:00-11:00)

[id] title	presenter	board
[223] ID257 - Integrated Bioprocesses for a Circular Carbon Economy	BRAVI, Marco	37
[275] ID173 - Improving LCA Data Accuracy through Digital Twin-Based Soft Sensors: A Comparative Application in Polymer Extrusion	PIRON, Marco	10
[274] ID027 - Advantages of AI-based regressions for the kinetic modelling of industrial catalysts	PÉTREMAND, Hugo	24
[273] ID234 - Restyling CPCLAB: How to enhance our Chemical Process Control Laboratory	BACCI DI CAPACI, Riccardo	34
[272] ID190 - Analysis of past security incidents using Bayesian Network analysis	IAIANI, Matteo	33
[264] ID029 - Electroconductive hydrogels for spinal cord regeneration	GIORGI, Zoe	25
[271] ID191 - Exploiting limited sets of experimental measurements to calibrate models for batch cooling crystallization	DAVANZO, Mauro	32
[270] ID042 - Improving Energy Efficiency in Ethanol Distillation: Simulation and Economic Assessment of Heat Pump Integration	CECCHINI, Federico	31
[269] ID121 - Possible countermeasures for protection against industrial incidents caused by cyber-attacks in the process industry	BALDISSONE, Gabriele	30
[268] ID262 - Development of an innovative decontamination method tailored for the Biomedical and Food industry based on the utilization of supercritical carbon dioxide (scCO ₂)	FABRIZI, Filippo	29
[267] ID060 - Next-Generation Active Packaging: zein-based biocomposites functionalized with antioxidants from agrifood wastes	BUFALINI, Chiara	28
[266] ID246 - Design and Evaluation of a Solar-Powered Absorption Chiller for Off-Grid Refrigeration in Rural Tanzania	DI PAOLA, Luisa	27
[265] ID097 - Innovative, sustainable, fast one-step synthesis to produce iron oxide nanoparticles for the biomedical field	TURILLI, Laura	26
[263] ID256 - An Antibacterial, Antioxidant Bioactive Composite Sponge Based on Biomimetic Gelatin and Alginate Dialdehyde for Hemostasis and Wound Healing	FERRARI, Pier Francesco	35
[262] ID009 - Experimental Investigation of Plastic Waste Catalytic Steam Gasification	VITALE, Armando	23
[261] ID241 - Bio-hydrogen from dark fermentation: a sustainable path for energy transition	SICILIANO, Sarah	22
[260] ID023 - Fluid Dynamic Optimization of Electrodes Design for CO ₂ Electroreduction to Formate	SETTE, Riccardo	21
[259] ID168 - Measurements of Carbon Dioxide Solubility in Cyrene and Simulation of the Absorption Process	SCHIATTARELLA, Valentina	20

[258] ID224 - Design and feasibility study of marine SCR units for methanol dual-fuel engines	RICCHIARI, Domenico	19
[257] ID228 - Electrochemical remediation of contaminated real marine sediments under very low electric fields	PROIETTO, Federica	18
[256] ID182 - Towards Closed-Loop Water Management: Process Analysis of AOP-Membrane Systems in Municipal and Industrial WWTPs	PRISCIANDARO, Marina	17
[255] ID159 - Risk assessment of Integrated Fuel Cell Systems for Rail Transport	PORTARAPILLO, Maria	16
[254] ID158 - Low-temperature air pollutant abatement with AuNPs on manganese oxides: effect of crystalline structures and nanoparticle size	PIUMETTI, Marco	15
[253] ID015 - Performance of a Novel Steam Reforming Catalyst under Real Gasification Conditions for H₂-Rich Syngas Production	PAPA, Alessandro Antonio	14
[252] ID231 - Lead removal from contaminated water: comparative study of Sargassum spp. biomass and synthetic Geopolymer adsorbents	PALETTA, Rosy	13
[251] ID012 - When Small-Scale Meets High Risk: Quantitative Risk Assessment of a Fischer-Tropsch Academic Experimental Setup	MOCELLIN, Paolo	12
[250] ID167 - Membrane-less Electrolysis for Simultaneous Organic Load Removal and Hydrogen Production from Olive Mill Wastewater	MAIS, Laura	11
[249] ID189 - Scale-Up of Volatile Fatty Acids Recovery via Stripping	INNOCENZI, Valentina	36
[248] ID099 - Development of a Pilot Plant for CH₄ and CO₂ Capture from Cat	GRAMEGNA, Alice	9
[247] ID114 - Characterization of high-performance polymers for gas barrier applications	GAVAGNI, Perla	8
[246] ID135 - Integration of an EGCS on methanol-fueled HT-PEM fuel cells for sustainable maritime shipping	FLAGIELLO, Domenico	7
[245] ID133 - Exhaust gas cleaning systems for marine engines fuelled with hydrogen, ammonia and methanol	FLAGIELLO, Domenico	6
[244] ID154 - Multivariate analysis of Thermal Runaway Behaviour in Aged Lithium-ion Batteries	SHI, Huxiao	5
[243] ID164 - CO₂ electrochemical reduction on Sn cathode: effect of the nature and concentration of the supporting electrolyte	DI FRANCO, Andrea	4
[242] ID122 - Advancements in Resilience Modelling for Industrial Infrastructures: A Multi-Hazard Comprehensive Approach	CASTRO RODRIGUEZ, David J.	3
[241] ID156 - Modeling Spontaneous Ignition in High-Pressure Hydrogen Jets via Computational Fluid Dynamics and Detailed Reaction Kinetics	CAPASSO, Elena	2
[240] ID165 - Development of Eco-Friendly Insulating Refractories for Coke Oven Applications	CLERICUZIO, Maia	1