



WCCE11 - 11th WORLD CONGRESS OF CHEMICAL ENGINEERING

IACCHE - XXX Inter-American Congress of Chemical Engineering

CAIQ2023 - XI Argentinian Congress of Chemical Engineering

CIBIQ2023 - II Ibero-American Congress of Chemical Engineering

Buenos Aires - Argentina - June 4-8, 2023

"The global chemical engineering working for a better future world"

Venue: UCA PUERTO MADERO: Edificio San José (Av. Alicia M. de Justo 1600)

14:30-18:00 h	Registration
16:00-17:45 h	WCCE 11 Poster Session
17:30-18:45 h	WCCE 11 Welcome Ceremony
18:30-19:30 h	WCCE 11 PLENARY CONFERENCE
19:30-21:30 h	Welcome Cocktail

Venue: UCA PUERTO MADERO: Edificio San José (Av. Alicia M. de Justo 1600)

08:00-18:00 h	Registration			
	Auditorium "Dr. Francisco Valsecchi" (Ground floor)	Auditorium 2 (Ground floor)	Auditorium 3 (Ground floor)	Classroom CIBIQ
	GS09-Session 1. AOPs for disinfection Chairs: Daphne Hermosilla (Spain) Marta Litter (Argentina)	GS08-Session 1. CO ₂ conversion and utilization (I) Chairs: Ricardo Abejon (Chile) Jonathan Albo (Spain)	GS03-Session 1. Deep eutectic solvents Chair: Silvana Mattedi (Brazil)	GS07-Session 1. Circular economy (I) Chairs: Silvina M. Manrique (Argentina) Angeles Blanco (Spain)
9:00-10:30 h	9:00-9:30 h Keynote ID2459 “Development of SODIS technologies for the effective disinfection of drinking water: Microbicidal efficacy, toxicity and long-term use” <u>Pillai, S.C.</u> , ATU Sligo (Ireland)	9:00-9:30 h Keynote ID1826 “Advanced photo(electro)chemical CO ₂ recycling technology–materials process to system design” <u>Pitchaimuthu, S.</u> , Heriot-Watt University (United Kingdom)	9:00-9:30 h Keynote ID2480 “Experiment-Based Process Synthesis for Deep Eutectic Solvent Regeneration” <u>Schuur, B.</u> , University of Twente (The Netherlands)	9:00-9:30 h Keynote ID2322 “RETOPROSOST-2-CM: A Program for sustainable production and industrial symbiosis in the Community of Madrid (Spain)” <u>Blanco, A.</u> , Complutense University of Madrid (Spain)
	9:30-9:45 h ID2683 “Evaluation of indoor disinfection efficiency by photocatalysis and photolysis on air filters” <u>Flores, M.</u> , UNL-CONICET (Argentina)	9:30-9:45 h ID1389 “Application of carbonic anhydrase in chemical CO ₂ absorption for Bioenergy with Carbon Capture Utilization and Storage (BECCUS)” <u>Antonopoulou, I.</u> , Luleå University of Technology (Sweden)	9:30-9:45 h ID1643 “Separation of furfuryl alcohol from water using hydrophobic deep eutectic solvents” <u>Cea-Klapp, E.</u> , Universidad de Concepción (Chile)	9:30-9:45 h ID1624 “Dairy wastewater sludge drying kinetics” <u>Zecchi, B.</u> , Universidad de la República (Uruguay)
	9:45-10:00 h ID2843 “Membrane bioreactor followed by heterogeneous TiO ₂ and TiO ₂ -rGO photocatalytic processes or solar photo-Fenton oxidation: bacterial reduction and changes in bacterial community structure” <u>Karaolia, P.</u> , University of Cyprus (Cyprus)	9:45-10:00 h ID2470 “Sorption enhanced hydrogenation of CO ₂ with Ni/Al ₂ O ₃ catalyst and LTA 5A zeolite for synthetic natural gas production” <u>Peña, J.A.</u> , Universidad Zaragoza (Spain)	9:45-10:00 h ID2384 “Selective Extraction of Molybdenum (VI) and Rhenium (VII) from a synthetic pregnant leach solution using hydrophobic deep eutectic solvents” <u>Quijada-Maldonado, E.</u> , University of Santiago de Chile (Chile)	9:45-10:00 h ID2218 “Sustainable municipal wastewater management targeting phosphorus recovery: focus on struvite production” <u>Quina, M.J.</u> , University of Coimbra (Portugal)
	10:00-10:15 h ID2363 “Low-cost solar disinfection: Advanced Oxidation Processes assisted by mineral atacamite (Cu ₂ Cl(OH) ₃)” <u>Rodríguez-Chueca, J.</u> , Universidad Politécnica de Madrid (Spain)	10:00-10:15 h ID2312 “Decarbonization of petrochemical industry by carbon utilization approaches: Sustainability of electro-ethylene implementation” <u>Fernandez-Gonzalez, J.</u> , Universidad de Cantabria (Spain)	10:00-10:15 h ID2399 “Glycols for separating methoxyphenols from aliphatic solvents: effect of adding choline chloride to the extractant” <u>Canales, R.I.</u> , Pontificia Universidad Católica de Chile (Chile)	10:00-10:15 h ID2419 “Aplicación de la economía circular en concentrados de desaladoras para la recuperación selectiva de litio” <u>Fernández-Escalante, E.</u> , Universidad de Cantabria (Spain)
	10:15-10:30 h ID1382 “Investigation of potential synergistic effect between 3 wavelengths in UV photoreactors for water disinfection” <u>Marugán, J.</u> , Universidad Rey Juan Carlos (Spain)	10:15-10:30 h ID1463 “Tuning the syngas composition obtained via electrochemical reduction of CO ₂ by in situ potential cycling” <u>Azenha, C.</u> , University of Porto (Portugal)	10:15-10:30 h ID2490 “The Polyphenols from Wild Chilean Murtilla Leaves obtained by Microwave Extraction using Deep Eutectic Solvents : Advanced techniques for the extraction of polyphenols with deep eutectic solvents” <u>Fuentes Jorquera, N.A.; Canales Muñoz, R.</u> , Pontificia Universidad Católica de Chile (Chile)	10:15-10:30 h ID1568 “Technical Potential for the Production of Biogas, Fertilizers and Reuse Water in STPs and WTPs” <u>Berni, M.D.</u> , University of Campinas (Brazil)
10:30-11:00 h	COFFEE BREAK + POSTER SESSIONS			

Auditorium "Dr. Francisco Valsecchi" (Ground floor)				
11:00-11:30 h	GS09. Keynote ID2007 Chairs: Daphne Hermosilla (Spain) / Marta Litter (Argentina) "Phosphorus modified Cu-Mg ferrite composites for photocatalytic ozonation of lomefloxacin" <u>Palmisano, G.</u> Khalifa University (United Arab Emirates)			
11:30-12:30 h	Auditorium "Dr. Francisco Valsecchi" (Ground floor) PLENARY 1 "CO₂ conversion to products: a circular economy perspective" Angel Irabien <u>University of Cantabria, Spain</u>			
12:30-14:00 h	LUNCH BREAK			
Auditorium "Dr. Francisco Valsecchi" (Ground floor) Auditorium 2 (Ground floor) Auditorium 3 (Ground floor) Classroom CIBIQ				
	GS09-Session 2. Advances in electrochemical AOPs Chairs: Martin Meichtry (Argentina) Carla di Luca (Argentina)	GS08-Session 2. CO ₂ conversion and utilization (II) Chairs: Cátia Azenha (Portugal) Natalia Quici (Argentina)	GS03-Session 2. Ionic liquids Chair: Boelo Schuur (Netherlands)	GS07-Session 2. Circular economy (II) Chair: Angeles Blanco (Spain)
14:00-16:00 h	14:00-14:30 h Keynote ID1344 "Pd decorated graphite electrodes for PFOA electrooxidation" <u>Garcia-Costa, A.L.</u> Universidad Autónoma de Madrid (Spain)	14:00-14:30 h Keynote ID2515 "CO ₂ methanation in a polytropic- distributed feed fixed bed reactor for biogas upgrading" <u>Peña, J.A.</u> Universidad Zaragoza (Spain)	14:00-14:15 h ID1312 "Thin-film polymer/ionic liquid membrane prototype for the separation of close-boiling hydrofluorocarbon mixtures" <u>Zarca, G.</u> Universidad de Cantabria (Spain)	14:00-14:30 h Keynote ID2215 "Biochemical methane potential of industrial potato waste: valorization instead of wasting" <u>Quina, M.J.</u> University of Coimbra (Portugal)
	14:30-14:45 h ID2513 "Evaluación de PCDD/Fs durante la electro-oxidación de disoluciones acuosas contaminadas con fármacos usados para tratar el COVID-19" <u>Schröder, S.</u> Universidad de Cantabria (Spain)	14:30-14:45 h ID2472 "PEI-impregnated microporous carbon materials obtained from cellulosic low-cost precursors for CO ₂ adsorption and conversion" <u>Lanús Méndez Elizalde, M.</u> CONICET-CNEA (Argentina)	14:15-14:30 h ID1377 "Ionic Liquids in Soft Confinement. Creating Alternative Green Organized Systems" <u>Falcone, R.D.</u> Universidad Nacional de Río Cuarto (Argentina)	14:30-14:45 h ID2839 "Valorization of vegetable waste from leek and lettuce to produce highly concentrated lignocellulose micro and nanofibrils" <u>Sanchez-Salvador, J.L.</u> University Complutense of Madrid (Spain)
	14:45-15:00 h ID2600 "Paracetamol removal by photo-Fenton catalyzed by pillared clays" <u>Hurtado, L.</u> Universidad Iberoamericana Ciudad de México (Mexico)	14:45-15:00 h ID2651 "Infrastructure design for the operation of electric and hydrogen trucks in the soy supply chain in Argentina" <u>Verrengia, M.</u> CONICET (Argentina)	14:30-14:45 h ID1660 "Perstraction Process for the extraction of polychlorinated biphenyls (PCB) from bovine milk using ionic liquids as receiving phase" <u>Merlet, G.</u> Universidad de Concepción (Chile)	14:45-15:00 h ID2434 "Continuous Production of Pickering Emulsions containing leek fibers" <u>Brito, M.S.C.A.</u> University of Porto (Portugal)

Auditorium "Dr. Francisco Valsecchi" (Ground floor) (Cont.)	Auditorium 2 (Ground floor) (Cont.)	Auditorium 3 (Ground floor) (Cont.)	Classroom CIBIQ (Cont.)
GS09-Session 2. Advances in electrochemical AOPs Chairs: Martin Meichtry (Argentina) Carla di Luca (Argentina)	GS08-Session 2. CO ₂ conversion and utilization (II) Chairs: Cátia Azenha (Portugal) Natalia Quici (Argentina)	GS03-Session 2. Ionic liquids Chair: Boelo Schuur (Netherlands)	GS07-Session 2. Circular economy (II) Chair: Angeles Blanco (Spain)
15:15-15:30 h ID1734 “Electrochemical degradation of amoxicillin using IrO ₂ -Ta ₂ O ₅ Ti anodes and carbon cathodes” <u>Bustos, E.</u> Centro de Investigación y Desarrollo Tecnológico en Electroquímica, S.C. (Mexico)	15:00-15:15 h ID2918 “Photocatalytic CO ₂ conversion: sol-gel and aerosolization synthesis of Cu _x O-modified TiO ₂ over 3D printed supports” <u>Quici, N.</u> Universidad Tecnológica Nacional (Argentina)	14:45-15:00 h ID1805 “Enhanced Oil Recovery from carbonate rocks by means of ionic liquids” <u>Somoza, A.</u> Universidade de Santiago de Compostela (Spain)	15:00-15:15 h ID1515 “Modelado de la extracción de compuestos fenólicos de orujo de uva Tannat en múltiples etapas de equilibrio con una solución hidroalcohólica” <u>de Mattos, R.</u> Universidad de la República (Uruguay)
15:30-15:45 h ID1737 “Electrochemical degradation of amoxicillin using an electrochemical reactor at pilot-level” <u>Bustos, E.</u> Centro de Investigación y Desarrollo Tecnológico en Electroquímica, S.C. (Mexico)		15:00-15:15 h ID2489 “Development of conductive inks based on ionic liquids and graphene for screen-printed electrodes” <u>Mattedi, S.</u> Federal University of Bahia (Brazil)	15:15-15:30 h ID2175 “Aprovechamiento de la Semilla de Lúcumá (Pouteria lucuma) como Fuente de Almidón para Usos Industriales” <u>Huayta, F.</u> Pontificia Universidad Católica del Perú (Peru)
14:00-16:00 h			
16:00-16:30 h	COFFEE BREAK + POSTER SESSIONS		

Auditorium "Dr. Francisco Valsecchi" (Ground floor)	Auditorium 2 (Ground floor)	Auditorium 3 (Ground floor)	Classroom CIBIQ
GS09-Session 3. Ozone-based AOPs Chairs: Martin Meichtry (Argentina) Reyna Natividad (Mexico)	GS08-Session 3. CO ₂ conversion and utilization (III) Chairs: J.A. Peña (Spain) S.E. Peña (Ecuador)	GS05-Session 1. Tribute to María Teresa Cidade Chair: João Maia (USA)	GS07-Session 3. Circular economy (III) Chair: Margarida Brito (Portugal)
16:30-16:45 h ID2621 “Evaluation of ozone performance as a control agent for foodborne microorganisms” <u>Lovato, M.E.</u> UNL-CONICET (Argentina)	16:30-17:00 h Keynote ID1368 “Continuous CO ₂ photoreduction using an optofluidic microreactor and Ce-based TiO ₂ nanocrystals” <u>Albo, J.</u> Universidad de Cantabria (Spain)	16:30-16:45 h Tribute to María Teresa Cidade M.G. Rasteiro. University of Coimbra (Portugal)	16:30-17:00 h Keynote ID3056 “Valorization of lignocellulosic waste for the production of PHAs using microbial consortia” <u>Barriuso, J.</u> Centro de Investigaciones Biológicas Margarita Salas-CSIC (Spain)
16:45-17:00 h ID2123 “Abatement of several bisphenol analogues through ozone, hydroxyl radical and UV radiation” <u>Porcar-Santos, O.</u> Universitat de Barcelona (Spain)	17:00-17:15 h ID3128 “Study of the CO ₂ methanation reaction mechanism by in situ DRIFTS on Ni catalysts” <u>Pereira, M.F.R.</u> University of Porto (Portugal)	16:45-17:00 h ID1355 “An injectable magnetically sensitive system of GG:Alg microparticles with SPIONs in thermoresponsive hydrogels” Carrélo, H. i3N/CENIMAT, NOVA School of Science and Technology (Portugal)	17:00-17:30 h Keynote ID3059 “Polylactic acid synthesis via ring-opening polymerization of lactide catalyzed by free and immobilized lipases” <u>Prieto, A.</u> Centro de Investigaciones Biológicas Margarita Salas-CSIC (Spain)
17:00-17:15 h ID2781 “Green production of a bimetallic catalyst Fe-Cu to improve the ozonation of dyed water” <u>Roa-Morales, G.</u> Universidad Autónoma del Estado de México (Mexico)	17:15-17:30 h ID1437 “Analysis of porous organic polymers and biopolymer-based mixed matrix membranes performance in CO ₂ /CH ₄ separation” <u>Abejón, R.</u> Universidad Santiago de Chile (Chile)	17:00-17:15 h ID1989 “Rheological and microstructural characterization of an oleogel of candelilla wax in soybean oil” <u>Varges, P.R.</u> Universidade Católica do Rio de Janeiro (Brazil)	
17:15-17:30 h ID1822 “Reflector design for the optimization of photoactivated processes” <u>Martín-Sómer, M.</u> Universidad Rey Juan Carlos (Spain)		17:15-17:30 h ID3024 “Rheological and textural properties of gels from faba bean” <u>Puppo, M.C.</u> Universidad Nacional de la Plata (Argentina)	
17:30-18:30 h	Auditorium Juan Pablo II WCCE 11 PLENARY CONFERENCE		

Auditorium "Dr. Francisco Valsecchi" (Ground floor)	Auditorium 2 (Ground floor)	Auditorium 3 (Ground floor)	Classroom CIBIQ
GS09-Session 4. Photo-assisted AOPs Chairs: Alicia L. Garcia-Costa (Spain) David Contreras (Chile)	GS08-Session 3 (Cont.). CO ₂ conversion and utilization (III) Chairs: J.A. Peña (Spain) S.E. Peña (Ecuador)	GS05-Session 2. Challenges and opportunities in rheology and product development (I) Chair: Octavio Manero (Mexico)	GS07-Session 3 (Cont.). Circular economy (III) Chair: Margarida Brito (Portugal)
18:30-18:45 h ID2173 “La _{1-x} Ti _x FeO ₃ dual catalyst with combined photocatalytic and photo-CWPO catalytic activity under visible light for water treatment” <u>García-Muñoz, P.</u> Universidad Politécnica de Madrid (Spain)	18:30-18:45 h ID3142 “Flow characteristics of CO ₂ -TBAB/H ₂ O/PC gas-liquid flow in a microreaction system” <u>Wang, Y.D.</u> Tsinghua University (China)	18:30-19:00 h Keynote ID2998 “Dynamics and orientation distribution of rigid fibers at high concentration in shearing flows” <u>Butler, J.E.</u> University of Florida (USA)	18:30-18:45 h ID3057 “Saccharification of gamma-valerolactone pretreated birchwood by using a <i>Talaromyces amestolkiae</i> enzymatic cocktail: saccharification of wood after pretreatment with green solvent” <u>Martínez, M.J.</u> Centro de Investigaciones Biológicas Margarita Salas-CSIC (Spain)
18:45-19:00 h ID1449 “Hydrogen peroxide dosage strategy for Paracetamol degradation in a ferrioxalate assisted photo-Fenton process” <u>Giménez, B.</u> CONICET-UNL (Argentina)	18:45-19:00 h ID2987 “Evaluación del mineral manganeso OXMN09 y OXMN09P en el proceso de Chemical looping Combustion (CLC) con residuos de corte de caña (RAC) utilizando Termogravimetría: Tecnologías de Captura de Dióxido de Carbono” <u>Peña, S.E.</u> Universidad de Guayaquil (Ecuador)	19:00-19:15 h ID2373 “Rheology as a critical enabler of novel multi-layered annular structures” <u>Maia, J.M.</u> Case Western Reserve University (USA)	18:45-19:00 h ID1614 “Material biobasado a partir de micelio de hongos y subproductos lignocelulósicos de la región del litoral de Argentina” <u>Picco, C.M.</u> Universidad Nacional del Litoral-CONICET (Argentina)
19:00-19:15 h ID2706 “Microcystin-LR removal by UV/H ₂ O ₂ photolysis: Degradation kinetics and reaction mechanisms” <u>Acevedo-Morantes, M.T.</u> Universidad de Cartagena (Colombia)		19:00-19:30 h ID1308 “Rheology of suspensions of cellulose nanofibrils containing different charged functional groups” <u>Rasteiro, M.G.</u> University of Coimbra (Portugal)	
19:15-19:30 h ID2505 “Bisphenol A removal by photochemical processes” <u>Natividad, R.</u> Autonomous University of the State of Mexico (Mexico)		19:30-19:45 h ID2811 “Nanofluid of TiO ₂ and SiO ₂ suspended in Carbopol solution: rheo-microscopy of nanofluids and its application for enhanced oil recovery” <u>Marin Castaño, E.P.</u> Pontifícia Universidade Católica de Rio de Janeiro (Brazil)	
19:30-19:45 h ID2064 “Shrinking-core model for the photo-Fenton oxidation of polystyrene nanoplastics in water” <u>di Luca, C.</u> Universidad Autónoma de Madrid (Spain)			

08:00-18:00 h	Registration		
	Auditorium "Dr. Francisco Valsecchi" (Ground floor)	Auditorium 3 (Ground floor)	Classroom CIBIQ
	GS09-Session 5. Advances in photocatalysis Chairs: José A. Casas (Spain) Alicia L. Garcia-Costa (Spain)	GS01-Session 1. Production methods (I) Chair: Carlos Negro (Spain) Marc Delgado-Aguilar (Spain)	GS07-Session 4. Circular economy (IV) Chair: Nadjib Drouiche (Algeria) Alicia Prieto (Spain)
9:00-10:30 h	9:00-9:30 h Keynote ID2704 “Photocatalytic activity of TiO ₂ films over commercial 3D printing polymers” <u>Flores, M.</u> UNL-CONICET (Argentina)	9:00-9:30 h Keynote ID2277 “Nanostructured cellulose: taking steps back to move forward” <u>Delgado-Aguilar, M.</u> University of Girona (Spain)	9:00-9:15 h ID2512 “Poly(3-hydroxybutyrate) and poly(3-hydroxybutyrate-co-3-hydroxyvalerate) production in a sugar beet pulp based biorefinery” <u>Vittou, O.</u> ¹ Agricultural University of Athens (Greece)
	9:30-9:45 h ID2622 “Degradation of 4-chlorophenol by photocatalysis with carbon self-doped and iron co-doped TiO ₂ films: radiation absorption properties and performance evaluation in a microreactor” <u>Ochoa-Rodríguez, P.A.</u> CITeQ-UTN-CONICET (Argentina)	9:30-9:45 h ID1333 “Recyclability of TEMPO-mediated oxidation medium and its effect on the nanocellulose properties” <u>Balea, A.</u> University Complutense of Madrid (Spain)	9:15-9:30 h ID2031 “Identificación de las proteínas del lactosuero presentes en concentrados de caseinomacropéptido obtenidos a escala laboratorio” <u>Farías, M.E.</u> Universidad Nacional de Luján (Argentina)
	9:45-10:00 h ID2540 “Heterojunctions of metal oxides of the TiO ₂ /SnO ₂ type: influence of photocatalyst properties on activity” <u>Geovânia, C.A.</u> Universidade de São Paulo (Brazil)	9:45-10:00 h ID1775 “Impact of fibrillated cellulose on hot-pressing papers obtained from high yield pulp” <u>Negro, C.</u> University Complutense of Madrid (Spain)	9:30-9:45 h ID2973 “Caracterización de biochar obtenido de cáscara de cacao mediante pirólisis asistida por microondas” <u>Correa-Abril, J.</u> Universidad Central del Ecuador (Ecuador)
	10:00-10:15 h ID2137 “Tailoring photocatalytic materials for solar-driven oxidation/reduction of contaminants of emerging concern” <u>Kusic, H.</u> University of Zagreb (Croatia)	10:00-10:15 h ID2484 “Redispersible bacterial nanocellulose powders” <u>Rossi, E.</u> Universidad de Buenos Aires (Argentina)	9:45-10:00 h ID2772 “A proof of concept for the electro-refinery for organics: Selective electroproduction of acetic acid from t-CNSL waste by using DSA electrode” <u>dos Santos, E.V.; Martínez-Huitl, C.A.</u> Federal University of Rio Grande do Norte (Brazil)
	10:15-10:30 h ID2690 “The selective oxidation of veratryl alcohol towards veratraldehyde production by using BiOI/Bi ₄ Ti ₃ O ₁₂ photocatalyst under simulated sunlight” <u>Murillo-Sierra, J.C.</u> Universidad de Concepción (Chile)		
10:30-11:00 h	COFFEE BREAK + POSTER SESSIONS		

		Auditorium "Dr. Francisco Valsecchi" (Ground floor)	Auditorium 3 (Ground floor)		
11:00-11:30 h		GS02. Keynote ID3138 Chair: Ulrika Rova (Sweden) “Biorefineries, a key concept for achieving the Sustainable Development Goals” <u>Castro, E.</u> University of Jaén (Spain)	GS01. Keynote ID2667 Chairs: Belkis Coromoto Sulbarán Rangel (Mexico) “Oxidación enzimática de lignina de pulpa mecánica para la producción de nanofibrillas de lignocelulosa” <u>Pereira, M.</u> Universidad de Concepción (Chile)		
11:30-12:30 h	Auditorium "Dr. Francisco Valsecchi" (Ground floor) PLENARY 2 “Fibrillated Lignocelluloses and Biomass Residuals as Key Elements to Achieve Circularity” Orlando Rojas University of British Columbia, Canada				
12:30-14:00 h	LUNCH BREAK				
		Auditorium "Dr. Francisco Valsecchi" (Ground floor)	Auditorium 2 (Ground floor) Auditorium 3 (Ground floor) Classroom CIBIQ		
		GS02-Session 1. Biomass innovative fractionation processes Chair: Ulrika Rova (Sweden)	GS09-Session 6. Combined AOPs Chairs: Daphne Hermosilla (Spain) Marta Litter (Argentina)	GS05-Session 3. Challenges and opportunities in rheology and product development (II) Chair: Jason Butler (USA)	GS07-Session 5. Circular economy (V) Chair: Ana Balea (Spain)
14:00-16:00 h	14:00-14:15 h ID1573 “Organosolv fractionation of lignocellulose as a strategy to offer renewable lignin-based coatings for biocide-free marine applications” <u>Matsakas, L.</u> Luleå University of Technology (Sweden)	14:00-14:30 h Keynote ID2792 “Evaluation of a combined process for the removal of emerging pollutants (Sunscreens) using advanced oxidation and ozone” <u>Balderas, P.</u> UAEMex (Mexico)	14:00-14:15 h ID1345 “The bioleaching process of silver: rheology and modeling” <u>Manero, O.</u> ¹ Universidad Nacional Autónoma de México (Méjico)	14:00-14:30 h Keynote ID2877 “The Plastics2Olefins Project, Recycling plastic waste into high-value materials- Closing the Loop” <u>Sánchez-Hervás, J.M.</u> CIEMAT (Spain)	
	14:15-14:30 h ID2134 “Biorefinery development for the production of polyphenols, algal biomass and lipids using olive processing industry waste” <u>Koutinas, M.</u> Cyprus University of Technology (Cyprus)	14:30-14:45 h ID1936 “Operating strategies for combined advanced oxidation processes” <u>Ayude, M.A.</u> ITAPROQ-CONICET/FCEyN-UBA (Argentina)	14:15-14:30 h ID1883 “Pipe rheology of wet coating foams” <u>Prakash, B.</u> VTT Technical Research Center of Finland (Finland)	14:30-14:45 h ID1433 “Laboratory-scale study of quantity and concentration of pollutant gases derived from the incineration of the COVID-19 pandemic waste” <u>Araujo, P.</u> Universidad Central del Ecuador (Ecuador)	
	14:30-14:45 h ID2165 “Transcriptional responses of <i>Saccharomyces cerevisiae</i> to environmental stresses during bioethanol production using biochar-based biocatalysts” <u>Koutinas, M.</u> Cyprus University of Technology (Cyprus)	14:45-15:00 h ID1948 “AOP’s for cytostatic compounds removal in hospital wastewater” <u>Blanco, A.</u> Universidad Complutense de Madrid (Spain)		14:45-15:00 h ID1645 “Valorization of Municipal Solid Waste through catalytic fast hydropyrolysis over natural zeolites” <u>Márquez, A.</u> CIEMAT (Spain)	

Auditorium "Dr. Francisco Valsecchi" (Ground floor) (Cont.)	Auditorium 2 (Ground floor) (Cont.)	Auditorium 3 (Ground floor) (Cont.)	Classroom CIBIQ (Cont.)		
GS02-Session 1. Biomass innovative fractionation processes Chair: Ulrika Rova (Sweden)	GS09-Session 6. Combined AOPs Chairs: Daphne Hermosilla (Spain) Marta Litter (Argentina)	GS05-Session 4. Challenges and opportunities in rheology and product development (III) Chair: Maria Graça Rasteiro (Portugal)	GS07-Session 5. Circular economy (V) Chair: Ana Balea (Spain)		
14:45-15:00 h ID2415 “Assessment of Water Treatment Networks for Integrated Lignocellulosic Biorefineries” <u>Oliveira, N.M.C.</u> University of Coimbra (Portugal)	15:00-15:15 h ID3049 “On-site application of continuous non thermal plasma/ photocatalysis process for livestock building air treatment: Chemical pollutants and odors elimination” <u>Bouzaza, A.</u> Ecole Nationale Supérieure de Chimie de Rennes (France)	14:45-15:00 h ID1658 “Aeration and rheology of viscoplastic bubbly liquids for buttercream frosting applications” <u>Wilson, D.I.</u> University of Cambridge (United Kingdom)	15:00-15:15 h ID2849 “Liquid fuels production via catalytic hydroisomerization of heavy naphtha from hydrothermal co-liquefaction” <u>Sánchez, J.M.</u> CIEMAT (Spain)		
15:00-15:15 h ID2502 “Biorefinery: Does biomass establish processing?” <u>Dos Santos, P.S.B.</u> Federal University of Pelotas (Brazil)	15:15-15:30 h ID2856 “Degradation studies of bisphenol S (BPS) in the presence of persulfate activated by ultrasound: Effect of operating parameters in aqueous medium” <u>Aravindakumar, C.T.</u> Mahatma Gandhi University (India)	15:00-15:15 h ID1770 “Rheology of extra heavy crude oil emulsions” <u>Fernández-Díaz, E.</u> Universidad de las Fuerzas Armadas-ESPE (Ecuador)	15:15-15:30 h ID3083 “Planta de transformación de plásticos residuales en combustibles sintéticos” <u>Palma, M.E.</u> Universidad Mayor Real y Pontificia de San Francisco Xavier de Chuquisaca (Bolivia)		
14:00-16:00 h 15:15-15:30 h ID2541 “Analysis of trifluoracetic acid as an efficient pretreatment for lignocellulosic biomass” <u>Piedrahita-Rodríguez, S.</u> Universidad Nacional de Colombia (Colombia)					
15:30-15:45 h ID2914 “Selecting among alternative products, processes, and processes integration approaches in the biorefinery framework” <u>Duarte L.C.</u> Unid. de Bioenergia e Biorrefinarias (UBB), LNEG – Laboratório Nacional de Energia e Geologia, I.P. (Portugal)					
15:45-15:50 h ID1332 (Rapid Fire) “Nut shells as raw material for activated biochar generation for environmental remediation” <u>Antxustegi, M.M.</u> University of the Basque Country (Spain)					
16:00-16:30 h	COFFEE BREAK + POSTER SESSIONS				
16:30-17:30 h	Auditorium Juan Pablo II WCCE 11 PLENARY CONFERENCE				
17:30-19:30 h	WCCE 11 Round Tables & Forums Congress Dinner				

	Auditorium 2 (Ground floor)	Auditorium 3 (Ground floor)	Classroom CIBIQ
	GS10-Session 1. Sustainability & regulations Chairs: Fernando J. Mariño (Argentina)	GS01-Session 2. Advances on the use and applications of nanocellulosic materials (I) Chair: Marc Delgado-Aguilar (Spain)	GS06-Session 1. Adsorption of emerging contaminants onto different materials Chair: Ana Lea Cukierman (Argentina)
9:00-10:30 h	9:00-9:30 h Keynote ID3157 “A harmonised life cycle sustainability assessment for hydrogen systems” <u>Ciroth, A.</u> GreenDelta GmbH (Germany)	9:00-9:30 h Keynote ID2831 “Biopolymer-based 3D printed scaffolds” <u>Chinga-Carrasco, G.</u> RISE PFI AS (Norway)	9:00-9:30 h Keynote ID1954 “Antipyrine adsorption on highly porous lignin-derived activated carbons” <u>Rosas, J.M.</u> University of Malaga (Spain)
	9:30-9:45 h ID3105 “Underground hydrogen storage: Environmental performance from a life cycle assessment perspective” <u>Raluy, R.G.</u> Aragon Hydrogen Foundation (Spain)	9:30-9:45 h ID1439 “Three component-based bi-layer and ecofriendly mulching films” <u>Sanchez, L.M.</u> Universidad de Málaga-Consejo Superior de Investigaciones Científicas (IHSM, UMA-CSIC) (Spain)	9:30-9:45 h ID2410 “Emerging pollutants adsorption under competitive conditions” <u>Pina, A.C.</u> Udelar (Uruguay)
	9:45-10:00 h ID2457 “Esquema de certificación de hidrógeno bajo en emisiones” <u>Vander Mey, L.G.</u> Instituto Nacional de Tecnología Nacional (Argentina)	9:45-10:00 h ID1778 “Influence of surface charge and lignin content on the production of nanocellulose-based aerogels and their ability to remove cationic pollutants” <u>Espinosa, E.</u> Universidad de Córdoba (Spain)	9:45-10:00 h ID2608 “Removal of emerging contaminants from feedlot wastewaters by adsorption onto magnetic activated carbons” <u>Rintoul, I.</u> INTEC (UNL-CONICET) (Argentina)
	10:00-10:15 h ID2114 “Regulaciones en México para implementar el hidrógeno verde en centrales de ciclo combinado” <u>González Huerta, R.G.</u> Instituto Politécnico Nacional—ESIQIE-IPN (Mexico)		10:00-10:15 h ID3061 “Hydrophilic carbon nanofibers supported on graphitic carbon nitride for the efficient adsorptive removal of aqueous methylene blue dye molecules” <u>Bhaduri, B.</u> Indian Institute of Technology Kharagpur (India)
	10:15-10:30 h ID1806 “Integrating life-cycle sustainability criteria into the development of hydrogen-related products” <u>Dufour, J.</u> IMDEA Energy (Spain)		10:15-10:30 h ID2736 “Optimización del proceso de adsorción de flúor utilizando como adsorbente <i>Nerisyrenia camporum</i> ” <u>Cervantes González, E.</u> Universidad Autónoma de San Luis Potosí (Mexico)
10:30-11:00 h	COFFEE BREAK + POSTER SESSIONS		

	Auditorium "Dr. Francisco Valsecchi" (Ground floor)	Auditorium 3 (Ground floor)		
11:00-11:30 h	GS02. Keynote ID3141 Chair: Pedram Fatehi (Canada) “Process intensification in biorefineries” <u>Labidi, J.</u> University of the Basque Country (Spain)	GS02. Keynote Chair: Angeles Blanco (Spain) “Biopolymers and food packaging solutions” <u>Rodríguez, A.</u> Universidad de Córdoba (Spain)		
11:30-12:30 h	Auditorium "Dr. Francisco Valsecchi" (Ground floor) PLENARY 3 “An Industrial Perspective on the Development of Green Hydrogen Ecosystems” Philippe Tanguy <u>HTEC, Canada</u>			
12:30-14:00 h	LUNCH BREAK			
	Auditorium "Dr. Francisco Valsecchi" (Ground floor)	Auditorium 2 (Ground floor) Auditorium 3 (Ground floor) Classroom CIBIQ		
	GS02-Session 2. Renewable chemicals and biofuels Chairs: Apostolis Koutinas (Greece)	GS10-Session 2. Production (I) Chairs: Javier Dufour (Spain)	GS01-Session 3. Advances on the use and applications of nanocellulosic materials (II) Chair: Gary Chinga-Carrasco (Norway)	GS06-Session 2. Other treatments for the emerging contaminants removal Chair: María Teresa Moreira (Spain)
14:00-16:00 h	14:00-14:30 h Keynote ID3152 “Water-soluble lignin-derived polymers” <u>Fatehi, P.</u> Lakehead University (Canada)	14:00-14:30 h Keynote ID2170 “Producción de hidrógeno verde usando un sistema solar fotovoltaico” <u>Arroyo Gómez, J.J.</u> Instituto Nacional de Tecnología Industrial-CONICET (Argentina)	14:00-14:30 h Keynote ID1711 “Materiales compuestos de nanocelulosa y nanopartículas fotocatalíticas para el tratamiento de agua” <u>Sulbarán Rangel, B.C.</u> Universidad de Guadalajara (México)	14:00-14:30 h Keynote ID2360 “Evaluation of pilot-scale advanced oxidation treatments on a real secondary effluent for the removal of contaminants of emerging concern and antibiotic resistance genes” <u>Rodríguez-Chueca, J.</u> Universidad Politécnica de Madrid (Spain)
	14:30-14:45 h ID1788 “Enzymatic conversion of steam exploded pine into fermentable sugars” <u>Cagno, M.</u> ¹ Centro de Investigaciones en Biocombustibles 2G (Uruguay)	14:30-14:45 h ID1422 “Síntesis y evaluación electrocatalítica de nanoflores de VS2 para la reacción de evolución de hidrógeno en medio ácido” <u>Montoya, R.</u> Instituto Politécnico Nacional (Mexico)	14:30-14:45 h ID2003 “La nanocelulosa bacteriana como material innovador de refuerzo para papeles deteriorados. Una investigación aplicada a libros de los siglos XVIII y XIX del Museo Histórico Nacional” <u>López Rey, C.</u> Universidad de Buenos Aires (Argentina)	14:30-14:45 h ID1453 “Supported copper (II) catalysts for the Fenton-like oxidation of contaminants of emerging concern” <u>Battauz, F.D.</u> INCAPE-CCT (Argentina)
	14:45-15:00 h ID2129 “Manufacture of bioactive compounds and bacterial cellulose via a citrus processing waste-based biorefinery” <u>Koutinas, M.</u> ¹ Cyprus University of Technology (Cyprus).	14:45-15:00 h ID1424 “Diseño de un electrolizador PEM de prueba para la caracterización de Ensamblés Membrana - Electrodos” <u>Navarro-Castillo, C.R.</u> Instituto Politécnico Nacional (Mexico)	14:45-15:00 h ID2427 “Nanocellulose/beeswax emulsions for high-barrier and thermosealing paper-based food packaging” <u>Delgado-Aguilar, M.</u> University of Girona (Spain)	14:45-15:00 h ID2509 “Bisphenol A degradation by catalytic wet air oxidation in a trickle bed reactor” <u>García, J.</u> Universidad Complutense de Madrid (Spain)

Auditorium "Dr. Francisco Valsecchi" (Ground floor) (Cont.)	Auditorium 2 (Ground floor) (Cont.)	Auditorium 3 (Ground floor) (Cont.)	Classroom CIBIQ (Cont.)
GS02-Session 2. Renewable chemicals and biofuels Chairs: Apostolis Koutinas (Greece)	GS10-Session 2. Production (I) Chairs: Javier Dufour (Spain)	GS01-Session 3. Advances on the use and applications of nanocellulosic materials (II) Chair: Gary Chinga-Carrasco (Norway)	GS06-Session 2. Other treatments for the emerging contaminants removal Chair: María Teresa Moreira (Spain)
15:00-15:15 h ID2205 “Lignin and glucose obtaining from almond shell valorisation through a biorefinery facility” <u>Morales, A.</u> University of the Basque Country (Spain)	15:00-15:15 h ID1613 “Avaliação da produção de Hidrogênio Verde a partir de bactérias Enterobacter sp. utilizando efluentes residuais do biodiesel” <u>Gisele, B.T.G.</u> SENAI CIMATEC (Brazil)	15:00-15:15 h ID2575 “Development of Cellulosic Fiber-based Composite Filter Materials: Experimental and Simulation Approach” Idris, A. Mid Sweden University (Sweden)	15:00-15:15 h ID2654 “Intensification of photo-Fenton process to efficiently treat cytostatic drugs” <u>Carbajo, J.</u> Universidad Complutense de Madrid (Spain)
15:15-15:30 h ID2429 “Comparison of different thermochemical processes for glucose release from soybean hulls” <u>Coz, A.</u> University of Cantabria (Spain)	15:15-15:30 h ID2768 “Photovoltaic electrochemically-driven degradation of organic pollutants with simultaneous green hydrogen production” <u>Martínez-Huitl, C.A.</u> Federal University of Rio Grande do Norte (Brazil)	15:15-15:30 h ID2754 “Anchoring of the aqueous fraction from the fast-pyrolysis bio-oil in nanocellulose membranes” <u>Dias, I.A.</u> Federal University of Paraná (Brazil)	15:15-15:30 h ID1682 “Aplicación de electrodialisis en la remoción de 4-nitrofenol de aguas residuales provenientes de la industria” <u>Bosko, M.L.</u> INCAPe (FIQ-UNL/CONICET) (Argentina)
14:00-16:00 h 15:30-15:45 h ID2823 “Preparation and characterization of sulfonated biochar and its application as a photo-Fenton catalyst” <u>Farnood, R.</u> University of Toronto (Canada)		15:30-15:45 h ID2834 “Promoting effect of nanofibrillar cellulose addition on the properties of the regenerated cellulose films: Nanofibrillar cellulose use to improve the physicochemical properties of regenerated cellulose” <u>Vallejos, M.E.</u> UNaM-CONICET (Argentina).	15:30-15:45 h ID1254 “Optimización de los recursos ambiental-energéticos en el Laboratorio de Físicoquímica utilizando un círculo de producción ecológica (CPE) en el área de Físicoquímica, Facultad de Ingeniería, Universidad de San Carlos de Guatemala” <u>Villela Rodas, C.A.</u> Universidad de San Carlos de Guatemala (Guatemala)
15:45-15:50 h ID1617 (Rapid fire) “Producción de hidrógeno de alta pureza combinando el reformado de biogás y el proceso vapor-hierro” <u>Veiga, S.</u> Universidad de la República (Uruguay)		15:45-16:00 h ID2301 “Natural polyelectrolyte complex as a novel retention agent for cellulose micro/nanofibers. Influence on drainability and physical properties of recycled paper” <u>Bastida, G.A.</u> University of Girona (Spain)	
15:50-15:55 h ID2263 (Rapid fire) “Obtención de biodiésel a partir de aceite residual doméstico” <u>Guerrero Vejarano, T.</u> Universidad Nacional Agraria de la Selva (Perú)			
16:00-16:30 h	COFFEE BREAK + POSTER SESSIONS		

	Auditorium "Dr. Francisco Valsecchi" (Ground floor)	Auditorium 2 (Ground floor)	Auditorium 3 (Ground floor)	Classroom CIBIQ
	GS02-Session 3. Process intensification and advances in nano-, micro- and smart materials Chair: Pedram Fatehi (Canada)	GS10-Session 3. Production (II) Chair: Rosa de Guadalupe González Huerta (Mexico)	GS01-Session 4. Production methods (II) Chair: Belkis Coromoto Sulbarán Rangel (Mexico)	GS06-Session 3. Emerging contaminants detection/analysis Chair: Silvia Álvarez-Torrellas (Spain)
16:30-17:30 h	16:30-16:45 h ID1357 “Multiphase strategies for furan production using green solvents” <u>Esteban, J.</u> University of Manchester (United Kingdom)	16:30-16:45 h ID2605 “Fabrication and characterization of solid oxide reversible cells” <u>Campana, R.</u> Centro Nacional del Hidrógeno (CNH2) (Spain)	16:30-16:45 h ID2403 “Enriquecimiento de suelos con nitrógeno utilizando un hidrogel de nanocelulosa de raquis de banana (<i>Musa Paradisiaca</i>)” <u>Jirón-García, E.</u> Universidad de Costa Rica (Costa Rica)	16:30-17:00 h Keynote ID3022 “Chromatographic determination of selected pesticides and pharmaceuticals in domestic wastewaters” <u>Galeano, L.A.</u> Nariño University (Colombia)
	16:45-17:00 h ID1747 “Innovative and sustainable functional cellulose based composite materials” <u>Silvestre, A.J.D.</u> University of Aveiro (Portugal)	16:45-17:00 h ID1738 “Ultra-pure green hydrogen production by gasification of brewers' spent grains and membrane separation” <u>Alique, D.</u> CIEMAT (Spain)	16:45-17:00 h ID2661 “Efecto de la sulfonación de la lignina en la deconstrucción de la pared celular y las características de las nanofibrillas lignocelulósicas” <u>Pereira, M.A.</u> Universidad de Concepción (Chile)	17:00-17:15 h ID1947 “RedCoPollutants-Quantification of emerging contaminants” <u>Blanco, A.</u> Universidad Complutense de Madrid (Spain)
	17:00-17:15 h ID2014 “Magnesium carbonate addition evaluation on succinic acid production by <i>Actinobacillus succinogenes</i> DSM 22257 and <i>Basfia succiniciproducens</i> DSM 22022” <u>Rochón, E.</u> Universidad de la República (Uruguay)	17:00-17:15 h ID1833 “CO ₂ rich streams methanation intensified by steam adsorption with LTA zeolites in fluidized bed reactor” <u>Peña, J.A.</u> Aragon Institute of Engineering Research (I3A), Universidad Zaragoza (Spain)	17:00-17:15 h ID2084 “Proceso integrado para producir nanofibras de celulosa a partir de biomasa forestal y agrícola” <u>Berg, A.</u> Universidad de Concepción (Chile)	17:15-17:30 h ID3146 “Continuous synthesis of N, S co-coped carbon dots for selective detection of Cd (II) ions” <u>Cheng, Y.</u> Tsinghua University (China)
	17:15-17:30 h ID2192 “Selective hydrogenation of methyl oleate catalyzed by Ni supported on niobia containing mixed oxides” <u>Navas, M.B.</u> Universitat Politècnica de València-CSIC (Spain)		17:15-17:30 h ID2784 “Revalorización de residuos de Bolaina para la obtención de films basados en nanocelulosa con efecto antimicrobiano para la industria de los alimentos” <u>Ponce, S.</u> Universidad de Lima (Perú)	
17:30-18:30 h	Auditorium Juan Pablo II WCCE 11 PLENARY CONFERENCE			

	Auditorium "Dr. Francisco Valsecchi" (Ground floor)	Auditorium 3 (Ground floor)
	GS02-Session 3 (Cont.). Process intensification and advances in nano-, micro- and smart materials Chair: Pedram Fatehi (Canada)	GS01-Session 5. Raw materials Chairs: Carlos Negro (Spain) Marc Delgado-Aguilar (Spain)
18:30-19:30 h	18:30-18:45 h ID2488 “Poly(3-hydroxybutyrate) production using degradation products from chemical and enzymatic recycling of post-consumer bioplastics” <u>Zoghbi, L.</u> Agricultural University of Athens (Greece)	18:30-18:45 h ID2195 “Blends formulations of cellulose microfibers and cellulose nanocrystals” <u>Mucci, V.L.</u> INTEMA – CONICET – Universidad Nacional de Mar del Plata (Argentina)
	18:45-19:00 h ID2585 “Bio-based Functional PU Materials from Lignin and Other Biomolecules” <u>Yan, N.</u> University of Toronto (Canada)	18:45-19:00 h ID3143 “Engineering Poisson's ratio of cellulose/polydimethylsiloxane composites” <u>Lee J.</u> Chung-Ang University (South Korea)
	19:00-19:15 h ID3027 “Cellulose-based films added with hydrophobic curcumin compatibilized through the use of Pickering emulsions of the same polymeric nature” <u>Santamaria-Echart, A.</u> CIMO-SusTEC-Instituto Politécnico de Bragança (Portugal)	19:00-19:15:15 h ID2868 “Green methods for the isolation of cellulose and nanocellulose from different agro-industrial wastes: Cellulose isolation from different agro-industrial wastes” <u>Arreaga Cancino, A.</u> Universidad de Ciencias y Artes de Chiapas (México)
	19:15-19:20 h ID1600 (Rapid fire) “Advanced Functional Lignin Nanoparticles” <u>Fatehi, P.</u> Lakehead University (Canada)	19:15-19:30 h CLOSING REMARKS Carlos Negro (Spain) Marc Delgado-Aguilar (Spain)

		Auditorium 2 (Ground floor)	Auditorium 3 (Ground floor)		
		GS10-Session 4. Miscellaneous Chair: Emilio Nieto (Spain)	GS04-Session 1. Supercritical fluids and other high-pressure processes (I) Chairs: J.P. Coelho (Portugal) D.A. Cantero (Spain)		
9:00-10:30 h	9:00-9:15 h ID1615	“Hydrogen storage properties of the Li-Mg-B-N-H system, effects of starting materials stoichiometry” <u>Fagiano, F.P.</u> , Instituto Balseiro, Universidad Nacional de Cuyo (Argentina)	9:00-9:15 h ID2996 “Sublimation Pressure from Solubility Data in Supercritical Fluids—The Case of Naproxen in Supercritical CO ₂ ” <u>Estévez, L.A.</u> , University of Puerto Rico (Puerto Rico)		
	9:15-9:30 h ID1531	“Thermo-economic analysis of PEMFC-ORC system for transport applications” <u>Pérez Correa, L.</u> , ITHERS-UBA-CONICET (Argentina)	9:15-9:30 h ID2035 “High-pressure phase equilibria measurements of eugenol + paraffins + CO ₂ mixtures” <u>Hegel, P.</u> , UNS-CONICET (Argentina)		
	9:30-9:45 h ID2115	“Etapas para la implementación de políticas públicas sobre el uso de hidrógeno verde en el Estado de Puebla-México” <u>González Huerta, R.G.</u> , Instituto Politécnico Nacional—ESIQIE-IPN (Mexico)	9:30-9:45 h ID2062 “Valorization of biomasses through supercritical fluid extraction” <u>Coelho, J.P.</u> , Centro de Investigação de Engenharia Química e Biotecnologia, ISEL, IPL (Portugal)		
	9:45-10:00 h ID1807	“Life cycle sustainability assessment of eco-designed solid oxide electrolysis stack concepts” <u>Dufour, J.</u> , IMDEA Energy (Spain)	9:45-10:00 h ID2067 “Sustainable aviation fuel by hydrothermal liquefaction” <u>Cantero, D.</u> , University of Valladolid (Spain)		
	10:00-10:15 h ID2479	“Investigation of the impact of hydrogen blends on materials and equipment of high-pressure natural gas grids” <u>Gil, V.</u> , Foundation for the Development of New Hydrogen Technologies in Aragón (Spain)	10:00-10:15 h ID2324 “Production of micro and nano particles of astaxanthin by the supercritical anti-solvent process” <u>Coelho, J.P.</u> , Universidade de Lisboa (Portugal)		
	10:15-10:30 h ID1690	“Utilización de cáscara de arroz hidrotermal como soporte de electrocatalizadores anódicos en celdas de combustible de etanol directo” <u>Azcoaga Chort, M.F.</u> , INCAP - CONICET - UNL (Argentina)	10:15-10:30 h ID2331 “Mathematical modelling of supercritical fluid extraction of oils from grape seeds and spent coffee grounds” <u>Coelho, J.P.</u> , Instituto Politécnico de Lisboa (Portugal)		
	10:30-11:00 h	COFFEE BREAK + POSTER SESSIONS			
		Auditorium "Dr. Francisco Valsecchi" (Ground floor)			
11:00-11:30 h	GS02. Keynote ID2481 Chair: Jalel Labidi (Spain) “Circular and sustainable chemical and biopolymer production via biorefinery electrification and recycling of post-consumer bioplastics” <u>Koutinas, A.</u> , Agricultural University of Athens (Greece)				
	LUNCH BREAK				

		Auditorium "Dr. Francisco Valsecchi" (Ground floor)	Auditorium 2 (Ground floor)	Auditorium 3 (Ground floor)
14:00-16:00 h	GS02-Session 4. Techno-economic and environmental assessment Chair: Jalel Labidi (Spain)	GS11-Session 1. Developments in chemical engineering in Iberoamerica Chairs: Víctor Ramírez (Perú) Jeffrey Leon-Pulido (Colombia)	GS04-Session 2. Supercritical fluids and other high-pressure processes (II) Chairs: J. Romero (Chile) L.A. Estevez (USA)	
	14:00-14:15 h ID1224 “Biorefineries with carbon, capture and storage: towards carbon-negative multiproducts from olive-derived biomass” <u>Galán-Martín, A.</u> University of Jaén (Spain)	14:00-14:30 h Keynote ID3051 “Biosensors based on natural products for possible wound healing monitoring” <u>Kim, S.</u> Pontificia Universidad Católica del Perú (Perú)	14:00-14:15 h ID2348 “Solubility of Glibenclamide in Supercritical Carbon Dioxide assisted by Ethanol as Co-solvent” <u>Estévez, L.A.</u> University of Puerto Rico (Puerto Rico)	
	14:15-14:30 h ID1640 “A techno-economic analysis and life cycle assessment of an olive-based multiproduct biorefinery coupled with carbon capture and storage” <u>Galán-Martín A.</u> Universidad de Jaén (Spain)	14:30-14:45 h ID1889 “Presence of steroid hormones in lake titicaca and drinking water, Puno (PERÚ)” <u>Zamalloa Cuba, W.A.</u> National University of the Altiplano (Perú)	14:15-14:30 h ID2436 “Supercritical CO ₂ Extraction of Chamomile flowers head “Matricaria chamomila L”” <u>Garcia-Diaz, B.</u> Universidad Nacional de Colombia (Colombia)	
	14:30-14:45 h ID1959 “Sustainability assessment of bacterial cellulose production from lignocellulosic biomass pretreated with dielectric barrier discharge air plasma” <u>Ladakis, D.</u> Agricultural University of Athens (Greece)	14:45-15:00 h ID3031 “A review of routes for hydrogen production in latin america and potential of enviromental impact” <u>Gomez Pachón, J.V.</u> Ean University (Colombia)	14:30-14:45 h ID2542 “Supercritical impregnation of inclusion complexes for the incorporation of carvacrol in active biopolymer films” <u>Romero, J.</u> University of Santiago de Chile (Chile)	
	14:45-15:00 h ID2381 “Potential of renewable carbon to reduce planetary boundaries footprints in the petrochemical sector” <u>Galán-Martín, A.</u> University of Jaén (Spain)	15:00-15:15 h ID3127 “Degradable PDA@PNIPAM-TA nanocomposites for Temperature- and NIR- Controlled Pesticide Release” <u>Le, Y.</u> Beijing University of Chemical Technology (China)	14:45-15:00 h ID2554 “Solubility of Lenalidomide in Supercritical Carbon Dioxide with/without Ethanol as Co-Solvent” <u>Estévez, L.A.</u> University of Puerto Rico (Puerto Rico)	

	Auditorium "Dr. Francisco Valsecchi" (Ground floor) (Cont.)	Auditorium 2 (Ground floor) (Cont.)	Auditorium 3 (Ground floor) (Cont.)
	GS02-Session 4. Techno-economic and environmental assessment Chairs: Jalel Labidi (Spain)	GS11-Session 1. Developments in chemical engineering in Iberoamerica Chairs: Víctor Ramírez (Perú) Jeffrey Leon-Pulido (Colombia)	GS04-Session 2. Supercritical fluids and other high-pressure processes (II) Chairs: J. Romero (Chile) L.A. Estevez (USA)
14:00-16:00 h	<p>15:00-15:15 h ID2535 "Analysis of composition for transformation routes selection: Lignocellulosic biomass case in the Colombian context" <u>Piedrahita-Rodríguez, S.</u> Universidad Nacional de Colombia (Colombia)</p> <p>15:15-15:30 h ID2827 "Techno-economic and life cycle assessments of a microalgae-based biorefinery for the valorization of gaseous and liquid effluents from wineries" <u>Lopes, T.F.</u> Laboratório Nacional de Energia e Geologia, I.P. - Unidade de Bioenergia e Biorrefinarias (Portugal)</p> <p>15:30-15:45 h ID3019 "Environmental assessment of an industrial-scale microalgae production system through process modelling" <u>Ortigueira, J.</u> Laboratório Nacional de Energia e Geologia, I.P. - Unidade de Bioenergia e Biorrefinarias (Portugal)</p> <p>15:45-16:00 h ID3039 "Preliminary Life Cycle Assessment of butyl butyrate production process based on Miscanthus energy crop" <u>Lopes, T.F.</u> Laboratório Nacional de Energia e Geologia, I.P. - Unidade de Bioenergia e Biorrefinarias (Portugal)</p>	<p>15:15-15:30 h ID3149 "Separation of butanone and ethyl acetate azeotropes by ionic liquid extractive distillation: vapor-liquid equilibrium measurement, interaction analysis and process simulation" <u>Qunsheng, L.</u> Beijing University of Chemical Technology (China)</p> <p>15:30-15:45 h ID3150 "Simulation and optimization of the first distillation column in the recovery section of polyvinyl alcohol production" <u>Fan, G.</u> Beijing University of Chemical Technology (China)</p>	<p>15:00-15:15 h ID2717 "Computation of phase diagrams at set initial global composition involving fluid and solid phases for multicomponent chemically reactive systems" <u>Zabaloy, M.S.</u> Universidad Nacional del Sur (Argentina)</p> <p>15:15-15:30 h ID1871 "Obtención de extractos de aceite esencial y oleoresina a partir del jengibre (<i>Zingiber officinale</i>) utilizando dióxido de carbono supercrítico" <u>Cárdenas-Toro, F.P.</u> Pontificia Universidad Católica del Perú (Perú)</p>
16:00-16:30 h	COFFEE BREAK + POSTER SESSIONS		
16:30-17:30 h	Auditorium Juan Pablo II		
	WCCE 11 PLENARY CONFERENCE		
17:30-18:30 h	WCCE 11 Closing Ceremony		

**POSTER SESSIONS
COFFEE AREA
10:30-11:00 h & 16:00 -16:30 h**

GS03-Global Symposium on Ionic Liquids

ID1314	<p>“Design of ionic liquid-based extractive distillation processes for the separation of hydrofluorocarbons under non-equilibrium conditions” Viar, M.; Pardo, F.; Zarca, G.; Urtiaga, A. <i>Universidad de Cantabria (Spain)</i></p>
ID1481	<p>“Insights into the orientation and hydrogen bond influence on thermophysical and transport properties in choline-based deep eutectic solvents and methanol” Cea-Klapp, E.¹; Garrido, J.M.¹; Quinteros-Lama, H.² ¹<i>Universidad de Concepción (Chile)</i>.²<i>Universidad de Talca (Chile)</i></p>
ID1483	<p>“Valorisation of tuna by-products: recovery of collagen using a eutectic solvent” Lucas, L.B.¹; Farías, M.E.²; Pérez, O.E.¹ ¹<i>IQUIBICEN-CONICET, Universidad de Buenos Aires (Argentina)</i>. ²<i>Universidad Nacional de Luján (Argentina)</i></p>
ID1487	<p>“Collagen extraction from marine by-products applying ionic liquids” Souto-Montero, P.; Gallego, C.; Rodil, E.; Soto, A. <i>Universidade de Santiago de Compostela (Spain)</i></p>
ID1621	<p>“Catalytic cascade processes for obtaining 5-HMF, levulinic acid and γ-valerolactone from fructose” Méndez, L.J.¹; Leguizamón Aparicio, M.S.¹; Musci, J.J.²; Barbelli, M.L.¹; Cánepa, A.S.³; Casella, M.L.¹; Lick, I.D.¹ ¹<i>CINDECA (CCT La Plata – CONICET - CIC – UNLP) (Argentina)</i>. ²<i>CITNOBA, CONICET y Universidad Nacional del Noroeste de la Provincia de Buenos Aires (Argentina)</i>. ³<i>Centro de Compuestos Orgánicos-CEDECOR (UNLP) (Argentina)</i></p>
ID1746	<p>“Kinetic study of Natural Deep Eutectic Solvents by digital images. The importance of preparation time in sensing applications” Samuelsen Lucea, C.¹, Lorenzetti, A.S.¹, Lo Fiego, M.J. ¹, Vidal, E.¹, Gomez, F.J.V.², Silva, M.F.², Domini, C.E.¹ ¹<i>INQUISUR, Universidad Nacional del Sur (UNS)-CONICET (Argentina)</i>. ²<i>IIBAM-CONICET, Universidad Nacional de Cuyo (Argentina)</i></p>
ID1831	<p>“Tailoring a new Natural Deep Eutectic Solvent to assist the extraction of metals from sediments” Nario, N.A.¹; Lorenzetti, A.S.¹; Samuelsen Lucea, C.¹; Gomez, N.A.¹; Grünhut, M.¹; Cora Jofré, F.²; Savio, M.²; Azcarate, S.M.²; Camiña, J.M.²; Silva, M.F.³; Gomez, F.J.V.³; Domini, C.E.¹ ¹<i>INQUISUR, Universidad Nacional del Sur (UNS)-CONICET (Argentina)</i>. ²<i>CONICET-UNLPam, Universidad Nacional de La Pampa (Argentina)</i>. ³<i>IIBAM-CONICET, Universidad Nacional de Cuyo (Argentina)</i></p>
ID2139	<p>“Assessing the Influence of Betaine-Based Natural Deep Eutectic Systems on Enzymatic Reactions” Gajardo-Parra, N.¹; Meneses, L.²; Cea-Klapp, E.³; Garrido, J.M.³; Duarte, A.R.²; Paiva, A.²; Held, C.¹ ¹<i>TU Dortmund University (Germany)</i>. ²<i>NOVA University (Portugal)</i>. ³<i>Universidad de Concepción (Chile)</i></p>
ID2182	<p>“Investigating the effect of [H2EA][C8OO] and [H2EA][C10OO] on the water/oil interfacial tension” Palmeira, B.A.C.¹; Mattedi, S.²; Gonçalves, J.M.S.³; Dariva, C.³; Malgaresi, G.V.C.¹; Guarieiro, L.L.N.¹ ¹<i>Centro Universitário SENAI CIMATEC (Brazil)</i>. ²<i>Universidade Federal da Bahia (Brazil)</i>. ³<i>Núcleo de Estudos em Sistemas Coloidais - ITP/UNIT (Brazil)</i></p>

ID2208	<p>“Conductivity and micellization in aqueous solutions of bis2-hydroxyethylammonium carboxylates at 298K” Farias, M.L.N.¹; Silva, V.P.A.¹; Costa, F.B.C.¹; Fernandes, V.C.²; Silva, A.C.M.³; Mattedi, S.¹ ¹<i>Graduate Program in Chemical Engineering, ²Physical Chemistry Department, ³Materials Science and Technology Department-Federal University of Bahia (Brazil)</i></p>
ID2557	<p>“Diseño de una membrana asimétrica basada en el líquido iónico [P6,6,6,14][Phos] gelificado para la perstracción de ácido succínico” Zurob, E.¹; Cabezas, R.²; Quijada-Maldonado, E.³; Romero, J.² ¹<i>Laboratory of Membrane Separation Processes (LabProSeM), ³Laboratory of Separation Processes Intensification (SPI)-Universidad de Santiago de Chile (Chile). ²Universidad Católica de la Santísima Concepción (Chile)</i></p>
ID2639	<p>“Surface tension of glycol-based eutectic solvents” Aravena, P.¹; Cea-Klapp, E.²; Gajardo-Parra, N.³; Held, C.³; Garrido, J.M.²; Canales, R.I.¹ ¹<i>Pontificia Universidad Católica de Chile (Chile). ²Universidad de Concepción (Chile).³TU Dortmund (Germany)</i></p>
ID2689	<p>“Prediction of conductivity for ionic liquids through neural networks following a group contribution approach” Paixão, T.¹; Zimmermann, A.S.¹; Silva, A.C.M.²; Mattedi, S.¹ ¹<i>Chemical Engineering Graduate Program, ²Materials Science and Technology Department-Federal University of Bahia (Brazil)</i></p>
ID2716	<p>“Influence of ammonium cations and temperature on thermophysical properties of ionic liquids based on hydrogen sulfate anion [HSO₄]⁻” Lima, J.C.F.; Costa, F.B.C.; Barbosa, G.; Mattedi, S. <i>Federal University of Bahia (Brazil)</i></p>
ID2724	<p>“Viscosity pressure and temperature influence of substituted ammonium ionic liquids based on propionate anion” Fogaça, T.^{1,2}; Reis, C.B.¹; Almeida, A.C.²; Lima, R.C.A.²; Mattedi, S.¹ ¹<i>Federal University of Bahia (Brazil). ²LAPEG, Oil and Gas Laboratory (Brazil)</i></p>
ID2730	<p>“Analysis of multicomponent solubility in ionic liquids using associative and non-associative equations of state” Cardoso, L.O.¹; Paredes, M.L.L.²; Mattedi, S.¹ ¹<i>Federal University of Bahia (Brazil). ²Rio de Janeiro State University (Brazil)</i></p>

GS07-Global Symposium on Waste Valorisation, Circular Economy and Industrial Symbiosis

ID1447	"Production of lipids and carotenoids using low-cost waste-derived media and the oleaginous yeast <i>Rhodosporidium toruloides</i> " Gallego-García, M.; Moreno, A.D.; Fernández, J.L.; Ballesteros, I.; Iglesias, R.; Negro, M.J. <i>CIEMAT (Spain)</i>
ID1486	"Characterization of tidal waste for its use as raw material in the manufacture of lignocellulosic products" Moral, A. ¹ ; Tijero, A. ² ; Greyer, V. ¹ ; Blanco, A. ² ; Negro, C. ² ¹ <i>Pablo de Olavide University (Spain)</i> . ² <i>Complutense University of Madrid (Spain)</i>
ID1616	"Aglomerado a partir de micelio de hongos comestibles y subproductos lignocelulósicos de Argentina" Picco, C.M.; Meyer, C. I.; Regenhardt, S.A. <i>Universidad Nacional del Litoral - CONICET (Argentina)</i>
ID1680	"Obtención de compuestos fenólicos a partir de cáscara de arroz mediante hidrólisis alcalina" Xavier, L.; Rocha, M.; Pisani, J.; Zecchi, B. <i>Universidad de la República (Uruguay)</i>
ID1688	"Oxidación selectiva de glicerol en medio acuoso empleando catalizadores metálicos soportados sobre CeO ₂ " Bianchi, G.S.; Meyer, C.I.; Duarte, H.A.; Marchi, A.J.; Regenhardt, S.A. <i>INCAPE, Universidad Nacional del Litoral - CONICET (Argentina)</i>
ID1754	"Diseño de proceso en el tratamiento de polvo de horno de arco eléctrico" Doldán, M.E. ¹ ; Duarte-Guigou, M. ^{2,3} ; Pereira, G. ² ; Ohanian, M. ¹ ¹ <i>Universidad de la República (Uruguay)</i> . ² <i>Viento Sur Ingeniería (Uruguay)</i>
ID1974	"Obtención de glucosa a través de hidrólisis ácida de los residuos de banano, cacao, palma africana y bagazo de caña de azúcar" Abril-González, M.F.; Vele-Salto, V.P.; Pinos-Vélez, V.P. <i>Universidad de Cuenca (Ecuador)</i>
ID2041	"Desenvolvimento de uma manta térmica a partir de resíduos têxteis de polipropileno para aplicação na construção civil" Ribeiro, V.A.S.; Paz, M.F.; Souza, R.P.; Jabur, A.S. <i>Universidade Tecnológica Federal do Paraná (Brazil)</i>
ID2217	"Circular phosphorus-Recovery potential from sewage and slaughterhouse wastewater" Castelló, E.; Santiviago, C.; Maidana, N.; Caro, F.; Larnaudie, V. <i>Universidad de la República (Uruguay)</i>
ID2337	"Improved recycling of a gasification fly ash: an integrated waste management approach in the line of Circular Economy" Fernández-Pereira, C.; Arroyo, F.; Leiva, C.; Luna-Galiano, Y.; Vilches, L.F. <i>University of Seville (Spain)</i>
ID2587	"Succinic acid production from potato residues by the action of <i>Actinobacillus succinogenes</i> " Escanciano, I.A.; Ladero, M.; Santos, V.E.; Blanco, A. <i>Complutense University of Madrid (Spain)</i>
ID2593	"Comprehensive use of waste from a brewery for the bioproduction of succinic acid" Escanciano, I.A.; Ladero, M.; Santos, V.E.; Blanco, A. <i>Complutense University of Madrid (Spain)</i>

ID3025	<p>“Comparison of different strategies for leather structure defect minimization” Penayo-Bernal, M.^{1,2}; Martins Rafael, H.^{1,2}; Ferreira, M.J.³; Pinto, V.³; Gaião, J.⁴; Rivaldi, D.⁵; Santamaria-Echart, A.^{1,2}; Barreiro, F.^{1,2} ¹CIMO, ²SusTEC-Instituto Politécnico de Bragança (Portugal).³Centro Tecnológico do Calçado de Portugal (Portugal).⁴Centro Tecnológico das Indústrias do Couro (Portugal). ⁵Universidad Nacional de Asunción (Paraguay)</p>
ID3030	<p>“Strategies to improve leather moldability and malleability” Martins Rafael, H.^{1,2}; Penayo-Bernal, M.^{1,2}; Ferreira, M.J.³; Pinto, V.³; Santamaria-Echart, A.^{1,2}; Barreiro, F.^{1,2} ¹CIMO, ²SusTEC-Instituto Politécnico de Bragança (Portugal).³Centro Tecnológico do Calçado de Portugal (Portugal).⁴Centro Tecnológico das Indústrias do Couro (Portugal).</p>
ID3055	<p>“Fungus-bacteria consortia for the production of lactic acid as a precursor of PLA” de Eugenio, L.I.; Murguiondo, C.; Galea, S.; Prieto, A.; Barriuso, J. <i>Centro de Investigaciones Biológicas Margarita Salas-CSIC (Spain)</i></p>
ID3058	<p>“Synthesis of xylooligosaccharides by a fungal GH10 endoxylanase and its glycosynthase variant” Pozo-Rodríguez, A.; Méndez-Líter, J.A.; de Eugenio, L.I.; Barriuso, J.; Prieto, A.; Martínez, M.J. <i>Centro de Investigaciones Biológicas Margarita Salas-CSIC (Spain)</i></p>
ID3060	<p>“Comparative hydrolysis of polylactic acid catalyzed by free and immobilized lipases” Murguiondo, C.; de Eugenio, L.I.; Rodríguez-Sánchez, L.; Sánchez de Rojas, I.; Martínez, M.J.; Barriuso, J.; Prieto, A. <i>Centro de Investigaciones Biológicas Margarita Salas-CSIC (Spain)</i></p>
ID3089	<p>“Evaluación de Propiedades Catalítica de Materiales Mesoporosos tipo CeSBA-15 para Transformaciones de Biomasa en Productos Químicos” Guiñazú, N.¹; Poncio, C.¹; Sánchez Faba, E.¹; Moyano, L.²; Eimer, G.¹; Falcón, H.¹ ¹ CIteQ-UTN-CONICET, Universidad Tecnológica Nacional (Argentina).² INFIQC, Universidad Nacional de Córdoba (Argentina)</p>

GS08-Global Symposium on CO₂ Conversion and Utilization

ID1306	“Advances in the development of processes for the electrocatalytic reduction of CO ₂ to obtain formate in a continuous-mode” Díaz-Sainz, G.; Alvarez-Guerra, M.; <u>Irabien, A.</u> <i>Universidad Universidad de Cantabria (Spain)</i>
ID1307	“Single-pass production of high value-added carbon products by coupling the glycerol oxidation to the continuous CO ₂ electroreduction to formate” Fernández-Caso, K.; Peña-Rodríguez, A.; Solla-Gullón, J.; Montiel, V.; Díaz-Sainz, G.; <u>Albo, J.</u> ; Alvarez-Guerra, M.; Irabien A. <i>Universidad de Cantabria (Spain)</i>
ID1327	“Perovskite-based photoanodes for solar-driven CO ₂ reduction to formate in gaseous phase” Abarca, J.A.; Díaz-Sainz, G.; Merino-García, I.; Albo, J.; <u>Irabien, A.</u> <i>Universidad de Cantabria (Spain)</i>
ID1399	“Decarbonizing the iron & steel industry: Future perspectives for a sustainable implementation of CO ₂ conversion” <u>Rumayor, M.</u> ; Fernandez-Gonzalez, J.; Dominguez-Ramos, A.; Irabien, A. <i>Universidad de Cantabria (Spain)</i>
ID1443	“Low carbon microfluidic separations” Fernández-Maza, C.; González-Lavín, G.; Gómez-Coma, L.; Fallanza, M.; <u>Ortiz, I.</u> <i>Universidad de Cantabria (Spain)</i>
ID1899	“Towards decarbonization of the energy sector. The role of Matrimid/ZIF mixed matrix membranes in hydrogen recovery” Moral, G.; Ortiz, A.; Gorri, D.; <u>Ortiz, I.</u> <i>Universidad de Cantabria (Spain)</i>
ID2171	“Low-carbon water splitting for hydrogen production” <u>Rivero, M.J.</u> ; Perez-Peña, E.; Ortiz, I. <i>Universidad de Cantabria (Spain)</i>
ID2740	“Selective utilization of Carbon dioxide as C1 and C2 source” Arata Badano, J.; Gastelu, G.; Dyson, P.J.; Gómez F.J.V.; <u>Uranga J.G.</u> <i>INFIQC-CONICET, Universidad Nacional de Cordoba (Argentina)</i>
ID2753	“Carboxylic acids as catalyst applied to O-formylation of alcohols using CO ₂ as C1 source” Gastelu, G.; Arata Badano, J.; Hull, M.; Dyson, P.J.; <u>Uranga J.G.</u> <i>INFIQC-CONICET, Universidad Nacional de Cordoba (Argentina)</i>
ID2815	“CO ₂ hydrogenation to methanol on In ₂ O ₃ /ZrO ₂ fibrillar catalysts” García-Mateos, F.J.; <u>Valero-Romero, M.J.</u> ; Ruiz-Rosas, R.; Rosas, J.M.; Rodríguez-Mirasol, J.; Cordero, T. <i>University of Malaga (Spain)</i>
ID2909	“Waste-based geopolymers for CO ₂ capture” Freire, A.L.; Sánchez, S.N.B.; Humberto, J.J.; Castellón, E.R.; <u>Moreira, R.F.P.M.</u> <i>University of Santa Catarina (Brasil)</i>

D2920	"CH ₄ -H ₂ mixtures production through thermochemical reaction between CO ₂ and MgH ₂ doped with Ni and CNTs" <u>Amica, G.</u> ; Gennari, F.C. <i>Comisión Nacional de Energía Atómica – CONICET (Argentina)</i>
ID2957	"Thermochemical reaction between MgH ₂ and Li ₂ CO ₃ to produce synthetic CH ₄ " <u>Grasso, M.L.</u> ; Rozas Azcona, S.; Aparicio, S.; Gennari, F.C. <i>CONICET (Argentina)</i>
ID3088	"Decarbonization of water remediation by integrating electro-membrane processes" <u>Sampedro, T.</u> ; Gómez-Coma, L.; Ibañez, R.; Ortiz, I. <i>Universidad de Cantabria (Spain)</i>

GS05-Symposium on Challenges and Opportunities in Rheology and Product Development

ID1305	"Rheology as a tool to evaluate the dispersion degree of CNFs in coatings" Sanchez-Salvador, J.L. ^{1,2} ; Rasteiro, M.G. ² ; Balea, A. ¹ ; Pedrosa, J.F.S. ² ; Negro, C. ¹ ; Monte, M.C. ¹ ; Blanco, A. ¹ , Ferreira, P.J.T. ² ¹ <i>University Complutense of Madrid (Spain)</i> . ² <i>University of Coimbra (Portugal)</i>
ID1786	"Evaluation of "Equivalent Mortar Procedure": Mechanical and rheological characterization of self-compacting concrete formulations using natural pozzolanic cement and different kinds of aggregates" Páez Flor, N.M. ¹ ; Naranjo-Herrera, L.F. ¹ ; Rubio-Hernández F.J. ² ¹ <i>DECEM, Universidad de las Fuerzas Armadas-ESPE (Ecuador)</i> . ² <i>Universidad de Málaga (Spain)</i>
ID2024	"Rheological properties of chitosan-STPP nanogels: effect of dilution" Lucas, L.B. ¹ ; Farías, M.E. ² ; Pérez, O.E. ¹ ¹ <i>IQUIBICEN-CONICET, Universidad de Buenos Aires (Argentina)</i> . ² <i>Universidad Nacional de Luján (Argentina)</i>
ID2326	"Mixing of high-consistency fibre-foam suspensions" Prakash, B.; Viitala, J.; Kiiskinen, H.; Koponen, A.I. <i>VTT Technical Research Centre of Finland (Finland)</i>
ID2808	"Effect of the medium type on rheological behaviour of fumed nanosilica dispersions" Tshilumbu, N.N.; Fester V. <i>Cape Peninsula University of Technology (South Africa)</i>
ID2820	"Mejoramiento de las propiedades físicas de la harina quinua (<i>chenopodium quinoa</i>) mediante la aglomeración con inyección de vapor" Mendoza Rojas, C.; Mendoza Cortez, J.W. <i>Universidad Nacional Agraria La Molina (Perú)</i>

GS09-Global Symposium on Advanced Oxidation Processes: from radicals to clean water

ID1274	<p>“Goethite and magnetite modified whit fluorine supported onto biochar to adsorptive-photocatalytic removal of diclofenac and ibuprofen under simulated sunlight irradiation” <u>Alvear-Daza, J.J.; Rengifo-Herrera, J.A.; Pizzio, L.R.</u> <i>National University of La Plata (Argentina)</i></p>
ID1279	<p>“De-emulsification of bilge water by cupro-Fenton reaction” <u>Inchaurrendo, N.S.; Corti-Monzón, G.; Caracciolo, P.C.; Muriel S.E.</u> <i>INTEMA/CONICET (Argentina)</i></p>
ID1294	<p>“Parametric mathematical modelling of 2-chlorophenol electro-oxidation using a flow-by electrochemical reactor equipped with BDD electrodes” <u>Ramos-Hernández, G., Regalado-Méndez, A.; Natividad, R.; Vizarretea-Vásquez, D.A.; Cordero, M.E.; Zárate, L.G.; Robles-Gómez, E.E.; Peralta-Reyes, E.</u> <i>Universidad del Mar (Mexico)</i></p>
ID1320	<p>“Synergetic combination of nano zero-valent iron, ultrasound and carboxylic acids for the removal of aqueous Cr(VI)” <u>Cancelada, L.; Meichtry, J.M.; Destaillats, H.; Litter, M.I.</u> <i>CNEA-CONICET (Argentina)</i></p>
ID1359	<p>“Aplicación de la ozonización catalítica con catalizadores de TiO₂/GAC para el control de los subproductos de desinfección en procesos de potabilización” <u>Ferreiro, C.; Maña, J.A.</u> <i>CEATA INGENIERIA, S.L. (Spain)</i></p>
ID1385	<p>“Degradation of diclofenac by UV-B and UV-C LED driven AOPs processes” <u>Pizzichetti, A.R.P.; Pablos, C.; Reynolds, K.; Moore, E.; Stanley, S.; Marugán, J.</u> <i>Universidad Rey Juan Carlos (Spain)</i></p>
ID1499	<p>“Photoassisted advanced reduction processes for nitrate removal from drinking water” <u>Hahn, V.A.; García-Costa, A.; Casas, J.A.</u> <i>Universidad Autónoma de Madrid (Spain)</i></p>
ID1732	<p>“Electrocoagulation coupled to electro-oxidation for the electrochemical treatment of hemodialysis wastewater” <u>González-Nava, V.J.; Bacame-Valenzuela, F.J.; Reyes-Vidal, Y.; Sepúlveda-Guzmán, S.; Manríquez, J.; Bustos, E.</u> <i>Centro de Investigación y Desarrollo Tecnológico en Electroquímica, S.C. (Mexico)</i></p>
ID1741	<p>“Electrochemical degradation of toluene using TiO₂ nanotubes” <u>Bolaños-Romero, K.V.; Sandoval-González, A.; Oza, G.; Manríquez, J.; Bustos, E.</u> <i>Centro de Investigación y Desarrollo Tecnológico en Electroquímica, S.C. (Mexico)</i></p>
ID1823	<p>“Photoreactor design for removal of CECs in water by UVC-H₂O₂ process” <u>Martín-Sómer, M.; Casado, C.; Marugán, J.</u> <i>Universidad Rey Juan Carlos (Spain)</i></p>
ID1890	<p>“CuO/Al₂O₃ spheres for Fenton-type heterogeneous oxidation of an industrial effluent of chemomechanical pulping” <u>Ivorra, F.D.; Massa, P.A.</u> <i>INTEMA - UNMDP (Argentina)</i></p>

ID2065	"Removal of polystyrene nanoparticles from water by photo-fenton oxidation" Garcia, J.; di Luca, C.; Ortiz, D.; <u>Munoz, M.</u> ; Carbajo, J.; de Pedro Z.M.; Casas J.A. <i>Universidad Autónoma de Madrid (Spain)</i>
ID2085	"Comparison between electrocoagulation, electrochemical Fenton and Fenton processes for the treatment of dyes" Vera, N.; Enrico, A.; <u>Ferrero, A.</u> ; Di Fraia, G.; Sánchez, P.; Marchisio, B.; De Seta, E.G.; Reina, F.D.; Halac, E.B.; Meichtry, J.M. <i>UDB-Qumica, FRBA-UTN (Argentina)</i>
ID2090	"Green synthesized Fe nanoparticles as heterogeneous Fenton catalysts for the degradation of textile dyes" <u>Ferrero, A.</u> ; Meichtry, J.M.; De Seta, G.E.; García, F.E.; Senn, A.; Litter, M.I. <i>FRBA-UTN (Argentina)</i>
ID2100	"Effect of synthesis protocols in the photo-Fenton activity of Zinc Ferrites for the degradation of Acetaminophen: Photo-Fenton activity of Zinc Ferrites" Thomas, N.; Nair, K.M.; Jimenez, K.; Hermosilla, D.; Gasco, A.; <u>Pillai, S.C.</u> <i>ATU Sligo (Ireland)</i>
ID2130	"A simple and effective treatment for the safe discharge of concentrated disinfectant solutions" <u>Doumic, L.D.</u> ; Rodriguez, G.; Capano, A.; Ferro Orozco, A.M.; Ayude, M.A. <i>INTEMA (CONICET/UNMdP) (Argentina)</i>
ID2140	"Evaluation of the endocrine-disrupting effect of Bisphenol A and analogues: impact of AOPs treatments" <u>Porcar-Santos, O.</u> ; Navarro-Martín, L., Cruz-Alcalde, A.; Casado, M.; Lima, T.; Gual, M.; Sans, C. <i>Universitat de Barcelona (Spain)</i>
ID2174	"Photocatalytic activation of peroxymonosulfate using ilmenite (FeTiO_3) as catalyst for Enterococcus sp. inactivation in synthetic wastewater" <u>García-Muñoz, P.</u> ; López-Maxías, C.; Guerra-Rodríguez, S.; Carbajo, J.; Casas, J.; Rodríguez-Chueca, J. <i>Universidad Politécnica de Madrid (Spain)</i>
ID2198	"Cr(VI) removal with green iron-based nanoparticles" <u>López, I.E.</u> ; Neis, E.R.; Scipioni, G.P.; Traid, H.D.; Vera, M.L.; Litter, M.I. <i>Instituto de Materiales de Misiones (IMAM, CONICET - UNaM) (Argentina)</i>
ID2338	"Assessing the effect of the type of organic matter source on the properties of biochar-supported iron oxides catalysts and their performance in the photo-Fenton degradation of bio-recalcitrant contaminants in water" Jin, L.; Gasco, A.; Jiménez, K.; de los Ríos, C.; Bahamonde, A.; <u>Hermosilla, D.</u> <i>Universidad Politécnica de Madrid (Spain)</i>
ID2372	"Eliminación de nanoplásticos mediante ozonización catalítica" <u>Nieto-Sandoval, J.</u> ; Sans, C. <i>Universitat de Barcelona (Spain)</i>
ID2390	"Potential applications of plasma activated water" <u>Quintana Terriza, J.I.</u> ; García Muñoz, P.; Fernández, C.; Rodríguez Chueca, J. <i>Universidad Politécnica de Madrid (Spain)</i>
ID2392	"Environmental impacts of intensification on UV-C light driven AOP systems for the removal of contaminants of emerging concern" <u>Rivero, M.J.</u> ; Pelayo, D.; Hernandez-Pellon, A.; Santos, G.; Ortiz, I. <i>Universidad de Cantabria (Spain)</i>

ID2394	"Sustainable production of pure silica from rice husk waste for preparation of ordered nanostructured mesoporous silica" Carraro, P.M.; Cuello, N.I.; <u>Benzaquén T. B.</u> ; Eimer G. A. <i>CITEQ (UTN-CONICET) (Argentina)</i>
ID2420	"New photocatalysts: titanium sponges coated with TiO ₂ nanotubes" Dwojak, A.N.; <u>Vera, M.L.</u> ; Traid, H.D.; Bucharsky, E.C.; Schell, K.G.; Schvezov, C.E.; Litter, M.I. <i>Instituto de Materiales de Misiones, IMAM (CONICET-UNaM) (Argentina)</i>
ID2440	"Preliminary results of photocatalytic Cr(VI) reduction using TiO ₂ films grown by cathodic arc deposition: effect of the film thickness and the N-doping" Kleiman, A.; <u>Meichtry, J.M.</u> ; Xaubet, M.; Grondona, D.; Litter, M.I.; Márquez, A. <i>Universidad de Buenos Aires (Argentina)</i>
ID2485	"Degradation of 2-chlorophenol with different radiation sources, using modified mesoporous titania" <u>Ochoa Rodríguez, P.A.</u> ; Vaschetto, E.G.; Eimer, G.A.; Elías, V.R. <i>CITEQ (UTN CONICET) (Argentina)</i>
ID2495	"Comparison of synthesis methodologies to prepare more sustainable and stable catalysts for their application in agrochemical degradation processes. A metal speciation study" <u>Vaschetto, E.G.</u> ; Ochoa Rodríguez, P.A.; Carraro, P.M.; Pérez-Pariente, J.; Eimer, G.A. <i>CITEQ (UTN CONICET) (Argentina)</i>
ID2583	"Stable emulsion sepiolite-titania hybrid catalysts for pesticides-containing wastewater photodegradation" Palomo, E.; López-Esteban, S.; Pecharromán, C.; Esteban-Cubillo, A.; <u>Hermosilla, D.</u> ; Gascó, A.; Bahamonde, A. <i>Universidad Politécnica de Madrid (Spain)</i>
ID2602	"Oxidative depolymerization of Kraft lignin by self-amplified Fenton reaction" Méndez C.; Melín, V.; Romero, R.; <u>Contreras, D.</u> <i>Universidad de Concepción (Chile)</i>
ID2607	"A reactor with a packed bed anode assembly for studying electro-oxidation processes" <u>Silva Barni, M.F.</u> ; Rodriguez, C.; Procaccini, R.; Ayude, M.A. <i>INTEMA, UNMdP (Argentina)</i>
ID2623	"Aplicación del modelado molecular en ingeniería química: Evaluación de la cinética de degradación de la amoxicilina mediante el P.O.A. foto Fenton" <u>Carrillo Hernández, M.A.</u> ; Hideki Hirota, W. <i>Universidad Nacional Mayor de San Marcos (Peru)</i>
ID2635	"Radiation modeling and degradation kinetics of a contaminant of emerging concern in packed-bed photocatalytic reactors" Manassero, A.; Alfano, O.M.; <u>Satuf, M.L.</u> <i>INTEC (Universidad Nacional del Litoral – CONICET) (Argentina)</i>
ID2696	"Photo-Fenton-like process with visible LEDs as radiation source for the removal of micropollutants in water" Basin, V.; Torrano, A.; Pérez, C.; Durand, S.; Salinas, H.; <u>De León, A.</u> <i>Universidad de la República (Uruguay)</i>
ID2702	"Porous titanium dioxide doped with Ag and Fe prepared by plasma electrolytic oxidation. Photocatalytic enhancement of Cr(VI) reduction" <u>Traid, H.D.</u> ; Vera, M.L.; Zampieri, G.E.; Litter, M.I. <i>Instituto de Materiales de Misiones, Universidad Nacional de Misiones - CONICET (Argentina)</i>

ID2707	"Proposal for the insertion of advanced oxidation processes in wastewater treatment plants" <u>Serrano-Campos, P.I.</u> ; Ramírez-Sánchez, J.; Maldonado, S.; Rodríguez-Peña, M.; Balderas-Hernández, P.; Roa-Morales, G. <i>Universidad Autónoma del Estado de México (Mexico)</i>
ID2708	"Operational variables of technological interest in the application of the Fenton process to leachate treatment" <u>Traid, H.D.</u> ; Vera, M.L.; Silva, C.G.; Dwojak, A.N.; López, I.E.; Litter, M.I. <i>Instituto de Materiales de Misiones, Universidad Nacional de Misiones - CONICET (Argentina)</i>
ID2735	"The mineralization of metformin by heterogeneous photo-Fenton: heterogeneous photo-Fenton" <u>Amado-Piña, D.</u> ; Romero, R.; Natividad, R. <i>Centro Conjunto en Química Sustentable UAEMEX-UNAM (Mexico)</i>
ID2771	"Degradation of metronidazole in a batch reactor system employing BDD electrodes" <u>Maldonado, S.</u> ; Roa, G.; Natividad, R.; Balderas, P.; Barrera, C.; Amado, D. <i>Universidad Autónoma de Estado de México (Mexico)</i>
ID2931	"Arsenic photo-assisted oxidation and sequential adsorption using natural iron minerals" <u>Garcia-Costa, A. L.</u> ; <u>Casas, J.A.</u> <i>Universidad Autónoma de Madrid (Spain)</i>

GS01-Global Symposium on Nanocellulose: Recent advances to unlock potential for Engineered Sustainable Materials

ID1301	<p>“Lignocellulose nanofibres from wheat straw in a new environmentally friendly packaging system. Application in the shelf life of fresh cut lettuce”</p> <p>Rodríguez, A.¹; Bascón-Villegas, I.^{1,2}; Pereira, M.³; Espinosa, E.¹; Sánchez-Gutiérrez, M.^{1,2}; Pérez-Rodríguez, F.²</p> <p>¹IQUEMA, ²ENZOEM-Universidad de Córdoba (Spain). ³Universidad de Concepción (Chile)</p>
ID1319	<p>“Blueberry pruning - sustainable resources for nanocellulose production”</p> <p>Parra, D.; Cid, S.; Albornoz, C.; Azocar, L.; Valdebenito, F.</p> <p>Universidad Católica de la Santísima Concepción (Chile)</p>
ID1987	<p>“Hairy cellulose nanocrystals as adsorbents for hexavalent chromium”</p> <p>Ojembarrena, B.¹; Fuente, E.¹; Merayo, N.²; Blanco, A.¹; Negro, C.¹</p> <p>¹Complutense University of Madrid (Spain). ²Polytechnic University of Madrid (Spain)</p>
ID2057	<p>“Recyclable magnetic TEMPO catalyst: synthesis and application in nanocellulose production”</p> <p>Xu, H.¹; Balea, A.¹; Merayo, N.²; Ruiz-Santaquiteria, M.²; Blanco, A.¹; Negro, C.¹</p> <p>¹Complutense University of Madrid (Spain). ²Polytechnic University of Madrid (Spain)</p>
ID2249	<p>“Nanocellulose and microfibrillated cellulose for the papermaking industry. Specific study cases in corrugated board production”</p> <p>Ehman, N.; Felissia, F.E.; Vallejos, M.E.; Area, M.C.</p> <p>IMAM, UNaM-CONICET (Argentina)</p>
ID2278	<p>“Understanding kinetics of TEMPO-mediated oxidation for its upscaling in nanocellulose production”</p> <p>Mazega, A.¹; Santos, A.F.²; Aguado, R.¹; Tarrés, Q.²; Fiol, N.³; Pèlach, M.A.¹; Delgado-Aguilar, M.¹</p> <p>¹LEPAMAP-PRODIS Research Group, University of Girona (Spain). ²Federal University of Paraná (Brazil). ³Department of Chemical Engineering, University of Girona (Spain)</p>
ID2284	<p>“Zwitterionic membranes for organic dye removal: the case of bacterial nanocellulose and poly(2-methacryloyloxyethyl phosphorylcholine)”</p> <p>Vilela, C.¹; Moreirinha, C.¹; Almeida, A.²; Silvestre, A.J.D.¹; Freire, C.S.R.¹</p> <p>¹CICECO-Aveiro Institute of Materials, ²Department of Biology and CESAM-University of Aveiro (Portugal)</p>
ID2405	<p>“Hidrogeles de nanocelulosa a partir de alga <i>Sargassum</i> como sistemas de liberación controlada de nutrientes y su aplicación en la germinación”</p> <p>Rodríguez, J.; Rodríguez, K.; Bernal, C.; Jirón, E.; Rojas, C.</p> <p>Universidad de Costa Rica (Costa Rica)</p>
ID2534	<p>“Desarrollo de nanopapeles basados en nanocelulosa bacteriana y éteres de celulosa de interés en la conservación y restauración de papel”</p> <p>López Rey, C.^{1,2}; Morales, A.M.^{3,4}; Foresti, M.L.^{1,2}</p> <p>¹Universidad de Buenos Aires (Argentina). ²CONICET – Universidad de Buenos Aires-ITPN (Argentina). ³TAREA-CEPyA-EAyP-UNSAM (Argentina). ⁴Museo Histórico Nacional (Argentina)</p>
ID3095	<p>“Microfibrillated cellulose production based on a green solvent biorefinery pulp”</p> <p>González, G.; Ehman, N.; Felissia, F.E.; Vallejos, M.E.; Area, M.C.</p> <p>Universidad Nacional de Misiones – Consejo Nacional de Investigaciones Científicas y Técnicas (Argentina)</p>

GS06-Global Symposium on Emerging Contaminants: Recent Advances on Removal Treatments of Emerging Contaminants from Water and Wastewater

ID1395	<p>“Catalytic ozonation of pharmaceutical wastewater over 3D printed Mn/α-Al₂O₃ monoliths” Inchaurrendo, N.¹; Fages, F.¹; Hung Hung, Y.M.X.²; Fasce, L.¹; Talou, M.²; di Luca, C.¹ ¹Div. Catalizadores y Superficies, INTEMA-CONICET (Argentina). ²Div. Cerámicos, INTEMA-CONICET (Argentina)</p>
ID1630	<p>“Influencia de la interacción entre perlas de hidrogel confinadas en su dinámica de crecimiento” Falcioni, S.¹; Roht, Y.L.¹; Bindia, L.¹; Drazer, G.²; Ippolito, I.¹ ¹Universidad de Buenos Aires (Argentina). ²Rutgers University (USA)</p>
ID1773	<p>“Comportamiento de carbones activados desarrollados en base a diferentes precursores biomásicos y estrategias de activación en la remoción de un contaminante emergente” Nunell, G.V.¹; Rodríguez Ortiz, H.¹; Gomez Vargas, C.¹; Gomez Delgado, E.¹; Bonelli, P.R.¹; Cukierman, A.L.^{1,2} ¹ITAPROQ-CONICET, ²Facultad de Farmacia y Bioquímica-Universidad de Buenos Aires (Argentina)</p>
ID1900	<p>“Towards large scale implementation of magnetically separable catalysts in photo-Fenton processes for micropollutant abatement” Conde, J.J.¹; González-Rodríguez, J.¹; Gundín, R.¹; Vázquez-Vázquez, C.²; Feijoo, G.¹; Moreira, M.T.¹ ¹CRETUS, ²Laboratory of Magnetism and Nanotechnology-Universidad de Santiago de Compostela (Spain)</p>
ID1919	<p>“Mineralization of Bisphenol A from water by an ozonation process enhanced by Electric Arc Furnace Slag” Inchaurrendo, N.S.¹; Bocero, F.¹; Fasce, L.A.^{1,2} ¹INTEMA (Argentina). ²Universidad Nacional de Mar del Plata (Argentina)</p>
ID2020	<p>“Efficient removal of ciprofloxacin by adsorption using carbon xerogels” Alvarez-Torrellas, S.; Hernández-Abreu, A.B.; Águeda, V.I.; Delgado, J.A.; García, J. <i>Universidad Complutense de Madrid (Spain)</i></p>
ID2029	<p>“Remoción de colorantes de aguas coloreadas con anilinas provenientes del teñido de artesanías de paja toquilla del Cantón Gualaceo a través del proceso Fenton-like con ceniza volcánica” Vázquez, M.A.; Pinos, V.P.; García, J.A. <i>Universidad de Cuenca (Ecuador)</i></p>
ID2091	<p>“Effect of Hg speciation on the adsorption performance of biomass adsorbents” Román, S.¹; Nabais, J.V.²; Lagunhas, C.³; Ledesma, B.¹ ¹Universidad de Extremadura (Spain). ²Comprehensive Health Research Center (Portugal). ³Universidade de Évora (Portugal)</p>
ID2254	<p>“Tuned-porous carbon materials as adsorbents for the removal of paracetamol from contaminated waters” Silva, A.S.^{1,2}; Henrique, A.^{1,2}; Roman, F.F.^{1,2}; Diaz de Tuesta, J.L.¹; Gläsel, J.³; Silva, J.A.C.¹; Etzold, B.J.M.³; Gomes, H.T.¹ ¹CIMO, ²SusTEC-Polytechnic Institute of Bragança (Portugal). ³Technische Universität Darmstadt (Germany)</p>

ID2341	"Removal of phenolic compounds from superficial water and wastewater using a viscous organic phase retained in porous polyethylene" Beiguel, E.P. ¹ ; Hughes, E.A. ¹ ; Montserrat, J.M. ^{1,2} ¹ Universidad Nacional de General Sarmiento (Argentina). ² CONICET (Argentina)
ID2389	"Activated rice husk biochar as an adsorbent of micropollutants in real wastewater" Sales, A.; Llopart, P.; Bayarri, B.; Sans, C. <i>Universidad de Barcelona (Spain)</i>
ID2438	"Competitive adsorption of Ni (II), Cd (II), and Co (II) onto ordered mesoporous silica functionalized with amine groups" Legnoverde, M.S. ¹ ; Giraldo, L. ³ ; Rodríguez-Estupiñán, P. ² ; Moreno-Piraján, J.C. ² ; Basaldella, E.I. ¹ ¹ CINDECA (Argentina). ² Universidad de los Andes (Colombia). ³ Universidad Nacional de Colombia (Colombia)
ID2516	"Efficient integration sequential of advanced oxidation and biological processes: Removal of toxicity from pharmaceutical wastewater" Huacallo-Aguilar, Y. ^{1,2} ; Álvarez-Torrellas, S. ¹ ; Peres, J.A. ³ ; García, J. ¹ ¹ Universidad Complutense de Madrid (Spain). ² Universidad Señor de Sipán (Perú). ³ Universidade de Trás-os-Montes e Alto Douro (Portugal)
ID2577	"Synthesis of catalysts from sewage sludge for the cytostatic drugs removal from aqueous solution" Húber, D.; Álvarez-Torrellas, S.; Larriba, M.; Martín, M.; García, J. <i>Universidad Complutense de Madrid (Spain)</i>
ID2611	"Valorization of sewage sludge to produce a carbon-based adsorbent for the removal of cytostatic drugs from water" Portillo, E.; Álvarez-Torrellas, S.; Carbajo, J.; Flores, S.; Carrizosa, R.; Águeda, V.I. <i>Universidad Complutense de Madrid (Spain)</i>
ID2640	"Emerging contaminants in the Reconquista basin: comparison of chromatographic techniques (GC-MS and LC-MS/MS)" Fitó Friedrichs, G. ^{1,2} ; Diaz, Y. ¹ ; Montserrat, J.M. ^{1,2} ¹ Universidad Nacional de General Sarmiento (Argentina). ² CONICET (Argentina)
ID2672	"Impresión 3D con caolín comercial y su aplicación a la adsorción de colorantes" Alvarez Serafini, M. ^{1,2} ; Tonetto, G. ^{1,2} ; López E. ² ¹ Universidad Nacional del Sur (Argentina). ² PLAPIQUI (UNS-CONICET) (Argentina)
ID2950	"Aplicação do método IPCC na simulação da produção de metano e biogás a partir dos resíduos sólidos do município de Castanhal" Barbosa de Lima, E.
ID3000	"Potential of Fungi in bioremediation treatment" <u>Le Floch, S.</u> ¹ ; Quemener, M. ² ; Guena, A. ¹ ; Mounier, J. ² ; Le Floch, G. ² ¹ CEDRE (France). ² Université de Brest (France)
ID3023	"Determination of contaminants of emerging concern in surface water and domestic wastewater by Gas Chromatography-Mass Spectrometry (GC-MS)" Paredes-Hincapié, M.A.; Hidalgo-Silva, A.F.; Mora-Oviedo, E.C.; García-Mora, A.M.; Hidalgo-Troya, A.; Galeano, L.A. Nariño University (Colombia)

ID3036	"Removal of paracetamol and ibuprofen by functionalized activated carbon" Palma, C. ¹ ; Carvajal A. ¹ ; Sepúlveda L. ² ¹ <i>Universidad Técnica Federico Santa María (Chile)</i> . ² <i>Universidad de Santiago de Chile (Chile)</i>
ID3037	"Development of bioadsorbent of scavenging inorganic anions to enhance efficiency of AOPs in the treatment of emerging contaminants in wastewaters". García-Mora, A.M.; Carrera, W.; Gelpud, M.C.; Hidalgo-Troya, A.; Galeano, L.A. <i>Nariño University (Colombia)</i>
ID3155	"The Preparation of ZnO-Nanocluster-Encapsulating MFI Zeolite as A Recyclable Adsorbent for the Ultradeep Removal of H ₂ S" Yu, T.; Wang, Y.; Xu, J.; Liu, Z. <i>Tsinghua University (China)</i>
ID3159	"Devolatilization of high viscous fluid with high gravity technology" Jibing, Q.; Youzhi, L.; Yandong, L. <i>North University of China (China)</i>

GS02-Global Symposium on Bioenergy and Biorefineries: Paving the way for bioenergy and renewable chemicals from residues

ID1237	<p>“Effect of the bioactive compounds recovery on the lignocellulosic biomass composition” Gómez-Cruz, I.^{1,2}; Contreras, M.d.M.^{1,2}; Romero, I.^{1,2}; Castro, E.^{1,2} ¹Department of Chemical, Environmental and Materials Engineering, ²Center for Advanced Studies in Earth Sciences, Energy and Environment (CEACTEMA)-Universidad de Jaén (Spain)</p>
ID1239	<p>“Cascade valorization based on organosolv delignification of exhausted olive pomace in the context of a biorefinery” Gómez-Cruz, I.^{1,2}; Romero, I.^{1,2}; Contreras, M.d.M.^{1,2}; Labidi, J.³; Roseiro, L.B.⁴; Duarte, L.C.⁴; Carvalheiro, F.⁴; Castro, E.^{1,2} ¹Department of Chemical, Environmental and Materials Engineering, ²Center for Advanced Studies in Earth Sciences, Energy and Environment (CEACTEMA)-Universidad de Jaén (Spain). ³University of the Basque Country (Spain). ⁴Laboratório Nacional de Energia e Geologia, I.P. - Unidade de Bioenergia e Biorrefinarias (Portugal)</p>
ID1270	<p>“A local approach to Sustainable Development Goals from olive-derived biomass Biorefineries” Castro, E.; Contreras M.d.M.; Galán-Martín, A.; Romero-García, J.M.; Romero, I.; Ruiz, E. University of Jaén (Spain)</p>
ID1302	<p>“Valorization of vine shoots for hydrogen biological production” Rabelo, C.A.B.S.¹; Vidal, A.M.²; Romero-García, J.M.²; Romero, I.²; Varesche, M.B.A.¹; Castro, E.² ¹University of São Paulo (Brazil). ²Universidad de Jaén (Spain)</p>
ID1411	<p>“Comparing the technoeconomic analyses for the production of Acrylic Acid using a fossil and a renewable-based route” Sandid, A.; Esteban, J.; Spallina, V. University of Manchester (United Kingdom)</p>
ID1457	<p>“Green extraction of antioxidants for grape waste valorization using bio-based solvents and process intensification” Cañasas, R.; Díaz, I.; Rodríguez, M.; González, E.J.; González-Miquel, M. Universidad Politécnica de Madrid (Spain)</p>
ID1490	<p>“Estudo da cadeia produtiva do bioquerosene de aviação e do diesel verde no cenário do Brasil, Argentina e Paraguai” Penello, J.R.; Cruz, Y.R.; Díaz, G.C.; Aranda, D.A.G. Universidade Federal do Rio de Janeiro (Brazil)</p>
ID1553	<p>“Evaluation of olive stones organosolv pretreatment for biohydrogen production” Casanova-González, R.¹; Rabelo, C.A.B.S.²; Vidal, A.M.¹; Romero, I.¹; Castro, E.¹ ¹Universidad de Jaén (Spain). ²University of São Paulo (Brazil)</p>
ID1559	<p>“Bio-fuel production by catalytic assisted hydrothermal liquefaction process from underutilized biomass” Moreira-Mendoza, C.A.^{1,2}; Essounani, S.¹; Molina-Ramírez, S.¹; Cortés-Reyes, M.¹; Herrera, C.¹; Larrubia, M.A.¹; Alemany, L.J.¹ ¹Universidad de Málaga (Spain). ²Universidad Técnica de Manabí (Ecuador)</p>
ID1593	<p>“Different strategies for pretreatment and delignification of vine shoots” Vidal, A.M.^{1,2}; López-Linares, J.C.¹; Contreras, M.d.M.^{1,2}; Ruiz, E.^{1,2}; Castro, E.^{1,2}; Romero, I.^{1,2} ¹Universidad de Jaén (Spain). ²Universidad de Jaén (Spain)</p>

ID1797	"Evaluación termogravimétrica y calorimétrica de pellet de biomasa de Coffea arabica L." Delgado, D.R. <i>Universidad Cooperativa de Colombia (Colombia)</i>
ID2117	"Microbial oil production from fruit and vegetable residues: evaluation from a techno-economic perspective" Gallego-García, M.; Susmozas, A.; Moreno, A.D.; Iglesias, R.; Negro, M.J. <i>Advanced Biofuels and Bioproducts Unit Energy Department-CIEMAT (Spain)</i>
ID2135	"Integral use of citrus processing waste for essential oils, pectin and bacterial cellulose production via a biorefinery approach" Karanicola, P. ^{1,2} ; Patsalou, M. ¹ ; Nicodemou, A. ^{1,2} ; Evripidou, N. ³ ; Christou, P. ² ; Panagiotou, G. ² ; Damianou, C. ³ ; Koutinas, M. ¹ ¹ <i>Department of Chemical Engineering, </i> ³ <i>Department of Electrical Engineering, Computer Engineering and Informatics-Cyprus University of Technology (Cyprus).</i> ² <i>KEAN Soft Drinks, Ltd (Cyprus)</i>
ID2346	"Assessing sustainable biofuel production routes through multi-criteria decision-making and LCA tools" Cabrera-Jimenez, R.; Fanourakis, S.; Gavaldà, J.; Jiménez, L.; Pozo C. <i>Universitat Rovira i Virgili (Spain)</i>
ID2442	"Producción de "etileno verde" por deshidratación de etanol en fase gas" Licona, W.; Poggio, E.; Mariño, F. <i>Instituto de Tecnologías del Hidrógeno y Energías Sostenibles – ITHES (UBA/CONICET) (Argentina)</i>
ID2468	"Assessing the environmental merits of added-value commodities yielded via hydrolysis of municipal biowaste in agricultural and biochemical applications" Koutinas, M. ¹ ; Christodoulou, M. ¹ ; Kallis, M. ¹ ; Photiou, P. ^{1,2} ; Montoneri, E. ³ ; Tzortzakis, N. ⁴ ¹ <i>Department of Chemical Engineering, </i> ⁴ <i>Department of Agricultural Sciences, Biotechnology & Food Science-Cyprus University of Technology (Cyprus).</i> ² <i>Sewerage Board of Limassol – Amathus (SBLA) (Cyprus).</i> ³ <i>Università di Torino (Italy)</i>
ID2620	"Butanol production from undetoxified olive tree pruning biomass hydrolysate by an adapted strain of <i>Clostridium acetobutylicum</i> " Mau-Inchaustegui, S. ^{1,4} ; Romero-García, J.M. ^{2,3} ; Gentina, J.C. ¹ ; Castro, E. ^{2,3} ; Aroca, G. ¹ ¹ <i>Pontificia Universidad Católica de Valparaíso (Chile).</i> ² <i>Department of Chemical, Environmental and Materials Engineering,</i> ³ <i>Center for Advanced Studies in Earth Sciences, Energy and Environment-Universidad de Jaén (Spain).</i> ⁴ <i>Universidad Nacional de Costa Rica (Costa Rica)</i>
ID3008	"Renewable energy production based on CO ₂ capture, utilization and storage for sustainable production of biofuels and biopolymers" Nanaki, E. ^{1,2} ; Kiartzis, S. ¹ ; Koutinas, A. ³ ; Ioannidou, S.M. ³ ; Ladakis, D. ³ ; Chacartegui Ramirez, R. ⁴ ¹ <i>HelleniQ Energy (Greece).</i> ² <i>University of Aarhus (Denmark).</i> ³ <i>Agricultural University of Athens (Greece).</i> ⁴ <i>University of Seville (Spain)</i>
ID3029	"Valorisation of rice husk in the production of value-added biopolymers" Pinto, J. ^{1,2} ; Santamaria-Echart, A. ^{1,2} ; Belgacem, N. ³ ; Rodrigues, A. ⁴ ; Barreiro, F. ^{1,2} ¹ <i>CIMO, </i> ² <i>SusTEC-Instituto Politécnico de Bragança (Portugal).</i> ³ <i>Laboratoire de Génie des Procédés Papetiers (UMR 5518 - CNRS) (France).</i> ⁴ <i>Universidade do Porto (Portugal)</i>

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ID1655	"Estudio de la descomposición de amoníaco sobre catalizadores bimetálicos soportados de Co-Mo y Co-Ni para la producción de hidrógeno" <u>Medina, E.</u> ; Jimenez, R.; Karelovic, A. <i>Universidad de Concepción (Chile)</i>
ID1971	"Low-Pt content nanocatalysts to promote the electrochemical reactions in fuel cells and electrolyzers" <u>Rodríguez-Varela, F.J.</u> ; Alonso-Lemus, I.L.; Martínez-Loyola, J.C.; Sánchez-Castro, M.E. <i>Cinvestav Unidad Saltillo (Mexico)</i>
ID2104	"Study of biogas reform using Ni-based catalysts supported in hierarchical zeolites" <u>Guimarães, A.C.P.</u> ; Henriques, C.A.; Mattos, L.V.; Simões, R.C.C. <i>Rio de Janeiro State University (Brasil)</i>
ID2258	"Pt and Pt/Ni alloy nanoparticles supported on carbon nitride as electrocatalysts for the hydrogen oxidation reaction" <u>Verde-Gómez, Y.</u> ; Rosado Ortiz, G.; Valenzuela Muñiz, A.M.; Alonso-Nuñez, G.; Caudillo-Flores, U. <i>Tecnológico Nacional de México/IT de Cancún (Mexico)</i>
ID2467	"Metrology for reversible hydrogen storage technologies" <u>Morales-Marín, A.</u> ; Villuendas, T.; Abadía, L.; Sánchez-Laínez, J.; Bernard, E.; Gil, V. <i>Aragon Hydrogen Foundation (Spain)</i>
ID2471	"Two-zones convective reactor for H2 production from biomethane steam reforming" <u>Del Pópolo Grzona, M.V.</u> ; Pedernera, M.N.; López, E. <i>Universidad Nacional del Sur (Argentina)</i>
ID2475	"Gallium as a liquid phase to improve the reversibility of nanoconfined LiBH4" <u>Garanzini, I. A. M.</u> ; Arneodo Larochette, P.; Gasnier, A. <i>Consejo Nacional de Investigaciones Científicas y Técnicas (CONICET) and Centro Atómico Bariloche (CNEA) (Argentina)</i>
ID2614	"GDL for Microbial Fuel Cell Cathodes: different fabrication approaches" <u>Rodríguez, J.</u> ; Andujar, R.; Pardo, A.; Acevedo, A.; Nieto, E.; Campana, R. <i>Centro Nacional del Hidrógeno (CNH2) (Spain)</i>
ID2679	"Evaluación de la producción de hidrógeno a partir de energía eólica en México" <u>Juárez-Casildo, V.</u> ; Cervantes, I. <i>Centro de Investigación en Ciencia Aplicada y Tecnología Avanzada-Querétaro, Instituto Politécnico Nacional (Mexico)</i>
ID2743	"Efecto de la carga de Pt/C en la actividad catalítica de la reacción de reducción de oxígeno en medio ácido" <u>Cruz-Bautista, B.G.</u> ; <u>Reyes-Rodríguez, J.L.</u> ; González-Huerta, R. G. <i>ESIQIE—Instituto Politécnico Nacional (Mexico)</i>

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ID1943	"Estudo preliminar da aplicabilidade da metodologia da AOP-48 da OTAN na análise de estabilidade de pólvoras" Vasconcelos, C.J.F.S.F.; Da Silva, J.D.L.; Rodrigues, R.L.B.; <u>Peixoto, F.C.</u> <i>Instituto Militar de Engenharia, Brazilian Army (Brazil)</i>
ID2606	"Electrospinning jet technique describing nonwoven fibrous mats for various biotechnological and biomedical applications" Sabino, M.A.; <u>Rezende, R.A.</u> ; Silva, J.V.L. <i>University of Araraquara (Brazil)</i>
ID2638	"Application of Dynamic HAZOP in Operational Hazard Assessment in a Depropanizing Column Using Aspen Hysys® Simulator" Araújo, D.P. ¹ ; Bahú, J.O. ² ; León-Pulido, J. ³ ; Concha, V.O.C. ¹ ¹ <i>Federal University of São Paulo (UNIFESP) (Brazil)</i> . ² <i>University of Campinas (UNICAMP) (Brazil)</i> . ³ <i>EAN University (Colombia)</i>
ID3011	"Análisis de basicidad y cálculo de masa de las cales de adición para la conformación de un sistema de escoria saturada de óxidos básicos en el proceso de fusión del horno EAF instalado en planta acería" Gómez, E.; <u>Monzón, V.</u> <i>Universidad de San Carlos de Guatemala (Guatemala)</i>
ID3035	"Thermochemical study of an upcycling process from cannabis hemp residues" <u>Convers-Sánchez, J.D.</u> ; Cárdenas, V.O.; González-Delgado, A.D.; Crissien Castillo, B.; Baptiste, B.; León- Pulido, J. <i>Ean University (Colombia)</i>
ID3038	"Evaluación ambiental de la producción de aceite y biochar de aguacate criollo-antillano producido al norte de Colombia mediante el Algoritmo WAR" León-Pulido, J.; Herrera-Rodríguez, T.C.; <u>González-Delgado, Á.D.</u> <i>Ean University (Colombia)</i>