

ChIR Symposium 2024

Chemical Regulation and Innovation for Sustainable Development

University of Barcelona, July 8-9

Monday, July 8

09:00	Registrations	
09:30	Opening session	
	Session 1 Environmental Sustainability Chairperson: <i>Emilio Tagliavini</i>	
09:40	Keynote 1	Angelo Romasanta (ESADE) Management of Innovation in Chemical Sustainability
10:20	TP1	Bryan Leonardo Morales Espino Lycopene extraction from tomato waste using sustainable solvents
10:30	TP2	Jordi Falguera Garcia Development of 4th generation batteries quality control in the lamination process
10:40	TP3	Breno Savazini Leone Redesigning polyurethane cavity filling acoustic foam for increased safety and sustainability
10:50	TP4	Bositkhon Akhmedov Development of green chitin-based materials for thermal insulation and packaging applications
11:00	<i>Discussion</i>	
11:20	Coffee break <i>Poster Session</i>	
	Session 2 Green Synthesis and Catalysis Chairperson: <i>Isabel Cavaco</i>	
11:50	TP5	Alex Kamande Cyclopalladated α -amino acids Schiff bases and their application in Suzuki reactions
12:00	TP6	Ayoub Antar Synthesis of magnetic hybrid core@shell nanomaterials: Fe ₃ O ₄ nanoparticles coated with spin crossover polymer
12:10	TP7	Perfect Peace Sunday New catalyst for CO ₂ conversion via Reverse Water-Gas Shift process
12:20	TP8	Raphael Mensah Study of MAX phases and 2D-derived materials for CO ₂ conversion through the reverse water gas Shift reaction
12:30	<i>Discussion</i>	
12:50	TP9	Samuel Amali Microwave-Assisted Synthesis of Heterometallic Lanthanoid 2D Metal-Organic Frameworks.
13:00	TP10	Gavrilla Anggastanadia Datu Sompie Optimization and characterization of Chitin-Collagen based wound dressing functionalized with silver Nanoparticles (AgNPs)
13:10	TP11	Sara Ghazy Development of novel opioid peptidomimetics through Tyrosine modifications in endomorphins
	<i>Discussion</i>	
13:40	Lunch	
	Session 3 Chemical sustainability and circular economy Chairperson: <i>Alessandra Tolomelli</i>	
15:30	Keynote 2	Jacopo Monaldi (ECHA) Sustainability and implementation of European chemical regulation
16:10	TP12	Elizabeth Alvarez Prez Rare earth magnet dynamics: A material flow analysis of rare earth permanent magnets in electric vehicle traction motors for passenger cars in the EU-27
16:20	TP13	Getachew Gebrehiwet Carbon Capture and Utilization (CCU) for production of renewable chemicals: preparation and test of novel biochar-based material for homoacetogenic reactor
16:30	TP14	David Moses Kolade Enhancing phosphate recovery: magnesium oxide-modified biochar for wastewater treatment
16:40	TP15	Prince Ebo-Donkor Solar/O ₂ process for wastewater remediation: characterization and performance
16:50	<i>Discussion</i>	
17:10	Closing of day 1	

Tuesday, July 9

Session 4 Chemical Regulations and Environmental Law

Chairperson: *Carme Gonzalez*

09:30	Keynote 3	Serenella Sala (JRC)	Safe and sustainable by design chemicals and materials: an integrated framework to steer innovation
10:10	TP16	Abdul Rahman Miraj	Evaluating REACH 2.0 in the context of the chemical strategy for sustainability within the EU Green Deal agenda
10:20	TP17	Ana Diges	Environmental sustainability and indigenous knowledge: testing rights of nature before United States courts
10:30	<i>Discussion</i>		

Session 5 Nanomaterials and Sensors

Chairperson: *Santiago Esplugas*

10:40	TP18	Jalal Ahmad	Synthesis and photophysical characterization of novel heterometallic Gold(I)-Copper(I) complexes
10:50	TP19	Mariam Abramishvili	Effects of leptin-derived peptides on β -amyloid folding patterns and aggregation inhibition
11:00	TP20	Marlen Mustafin	Safe and Sustainable by Design hybrid nano-structures
11:10	<i>Discussion</i>		

11:20 Coffee break

Poster Session

11:50	TP21	Gideon Asew Boafo	Two-dimensional transition metal dichalcogenides for gas sensing applications
12:00	TP22	Sharon Otieno	Extended triphenylene-based metal-organic frameworks for sustainable catalysis
12:10	<i>Discussion</i>		

Session 6 Innovation in Food

Chairperson: *Daniel Sainz*

12:20	Keynote 4	Coral Verge (CEPSA)	Trends in Products Stewardship : from Chemical Safety to Chemical Sustainability
13:00	TP23	Adrine Elisabeth Ganimian Tcharkhetian	Towards the generation of full AMPK model combining experimental and computational techniques
13:10	TP24	Aysha Siddika	Total polyphenols in commercial foods: quantification and computational analysis as an integral part of the mediterranean diet framework
13:20	TP25	Sultana Chowdhury	Formation of pullulan-pectin hybrid gels for the obtaining of pullulan beads by dripping method. Rheological study and evaluation as active ingredient release systems
13:30	<i>Discussion</i>		

13:40 Lunch

Session 7 Chemical Sustainability

Chairperson: *Emilio Tagliavini*

15:30	Keynote 5	Guillem Domènech (University of Barcelona)	Solid state gas sensors: from materials to devices
16:10	Keynote 6	Anna Białk- Bielińska (University of Gdansk)	The PARC project: Partnership for the Assessment of Risks from Chemicals
17:20	Awards Session		
18:00	Closing session		