

DETAILED PROGRAM



10th EuChemS Chemistry Congress

12 - 16 July 2026 • Antwerp, Belgium



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Co-Chair ECC10 Local Organizing Committee
KVCV President



Ir. Thomas Vranken

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Welcome to the 10th EuChemS Chemistry Congress!

Dear Colleagues, Friends, and Fellow Chemists,

It is with immense pride and great pleasure that we welcome you to Belgium for the 10th EuChemS Chemistry Congress (ECC10).

You have arrived in Antwerp, a city where history, culture, and science seamlessly intertwine. But more importantly for us this week, you are now standing in the heart of the second-largest chemical cluster in the world. Chemistry is woven into the very DNA of Antwerp and its port. It is a true innovation powerhouse where cutting-edge research meets real-world industrial application. We could not imagine a more fitting and inspiring backdrop for Europe's flagship chemistry event.

This congress is a celebration of our shared scientific community, brought together by the European Chemical Society (EuChemS). As you look around at the 1,300+ delegates from all corners of the globe, it is the perfect moment to reflect on what connects us. EuChemS represents a massive network, but it is fundamentally built upon its 48 national member societies.

When you join your national chemical society, you automatically become a vital part of this broader European family. We want to take this opportunity to emphasize just how important that membership is. On a personal level, it is a cornerstone for your professional development and a powerful way to expand your local and international network.

But your membership means so much more than that. By being a continued, active member of your local society, you are directly supporting a crucial mission. You empower us to inspire and nurture the next generation of young chemists, and you provide the foundation we need to advocate for our profession—making the public and policymakers aware of the indispensable role chemistry plays in solving the grand challenges of our modern society. If you are not yet a member of your national society, we warmly invite you to join them when you return home.

For the coming days, however, your home is right here at ECC10. We have crafted a program that spans the full breadth and depth of the chemical sciences. We strongly encourage you to make optimal use of the diverse parallel sessions, our unique program extensions, and the dedicated Industry Day.

Beyond the lecture halls, please take advantage of the social activities we have prepared for you. Science thrives on human connection. Strike up a conversation over a Belgian beer, share your ideas at the poster sessions, and join us for the Congress Dinner in the breathtaking Antwerp Handelsbeurs.

We wish you a truly interesting and inspiring congress, filled with brilliant insights, new friendships, and unforgettable memories.

Welcome to Antwerp. Welcome to ECC10!

Warm regards,



Christophe De Bie
Co-Chair ECC10
President, KVCV

Thomas Vranken
Co-Chair ECC10
Secretary-General, KVCV



Twenty years ago,

the 1st European Chemistry Congress in Budapest brought together a community that believed European chemistry needed a stronger common space for exchange and collaboration. Since then, the EuChemS Chemistry Congress has grown into the flagship scientific meeting for chemistry in Europe, bringing together researchers from academia and industry, entrepreneurs, educators, early-career scientists, and the wider chemistry community to exchange ideas, build collaborations, and explore the future of our field together.

This year's edition comes at a defining moment for chemistry, in Europe and far beyond. At a time of growing geopolitical uncertainty and accelerating industrial transformation, chemistry is being called upon to help address some of the most urgent challenges facing our societies: decarbonization, sustainable energy, circularity, resilient supply chains, and technological competitiveness. Europe continues to produce outstanding science and innovation, but we face the challenge of turning scientific excellence into industrial strength, technological sovereignty, resilience, and sustainable prosperity.

There could hardly be a more fitting place for the 10th EuChemS Chemistry Congress (ECC10) than Antwerp, home to Europe's largest integrated chemical cluster and a city where science, industry, innovation, and policy are closely connected. It provides the right setting to discuss how our field can actively shape the continent's path forward. As recent discussions during the European Industry Summit highlighted, chemistry is not simply another scientific discipline; it is the very engine of Europe's economic resilience, industrial transformation, and sustainable future.

In that context, ECC10 is much more than another scientific meeting. It is an opportunity for the chemistry community to come together at a particularly important moment for our field and for Europe.

With that objective in mind, the scientific program was built around eight thematic sessions that reflect some of the major directions shaping chemistry today: Catalyzing New Chemistry Solutions; Chemistry Meets Biology & Food Science; Computational Chemistry & AI: The Power of Data; Energy, Environment & Sustainability; Innovative Materials; Molecular Design & Reactivity; Perspectives in Analytical & Physical Chemistry; and Responsible Chemistry for Society: Education, Ethics, History & Cultural Heritage. Together, these sessions reflect how deeply interconnected different areas of chemistry have become as our field responds to increasingly complex scientific, technological, and societal challenges.

As Chair of the Scientific Committee, I would like to sincerely thank all members of the committee for the enormous amount of work, thought, and energy they contributed over more than a year: Marius Andruh, Christophe De Bie, Claudia Bonfio, Mary Carroll, Mario Chiesa, Petra de Jongh, Jeremy Frey, David Leigh, Annette Lykknes, Iwona Maciejowska, Bert Maes, Onder Metin, Francesco Peri, Slavica Ražić, Clément Sanchez, Carla Seidel, and Thomas Vranken. We spent many hours together in biweekly discussions about speakers, themes, emerging areas, and the overall direction of the program. It has been a genuine pleasure to work with such a thoughtful, committed, and collegial group of scientists, and I believe that spirit of collaboration is reflected throughout the final program. What you will see at ECC10 is truly the result of a collective effort. We

are honored to welcome outstanding plenary lecturers and award speakers whose work represents some of the most influential contributions in contemporary chemistry. At the same time, the congress will showcase hundreds of presentations and posters featuring exciting new research from laboratories across Europe and beyond. The more than 1,600 abstracts submitted for ECC10 demonstrate the vitality and relevance of chemistry today.

Beyond the scientific sessions, the congress also includes activities organized by the European Young Chemists' Network (EYCN), an Industry Day connecting academia, industry, startups, and investors, as well as satellite (mini-)symposia and workshops that encourage interdisciplinary exchange and new collaborations. None of this would have been possible without the support of our sponsors and partners; the dedication of the Local Organizing Committee, the Scientific Committee, and the EuChemS staff; the invaluable contributions of the EuChemS Member Societies and Professional Networks; and the work of the many symposium organizers, reviewers, volunteers, and colleagues who helped make ECC10 possible. I would also like to acknowledge the excellent collaboration with the Local Organizing Committee throughout the preparation of ECC10. From the very beginning, working together felt easy, constructive, and enjoyable. There was a shared sense of purpose throughout the process, which made creating this congress a genuinely rewarding experience. This congress is truly a collective achievement that reflects the strength, diversity, and collaborative spirit of chemistry in Europe and beyond.

I encourage you to make the most of your time at ECC10: attend sessions outside your field, meet new colleagues, reconnect with old friends, and start conversations that may lead to future collaborations. Thank you for being part of this special anniversary edition of the EuChemS Chemistry Congress. I hope you enjoy an inspiring and memorable week in Antwerp, and that together we continue shaping the future of chemistry.

Javier García Martínez
Chair ECC10





Booths

- | | | | |
|---|-----------------|----|---|
| 1 | EuChemS | 10 | Royal Society of Chemistry |
| 2 | KVCV | 11 | Carl ROTH |
| 3 | Wiley | 12 | Elsevier |
| 4 | ACS | 13 | The Royal Society of Publishing |
| 5 | FACCTs | 14 | BRYCK |
| 6 | Thieme | 15 | delaware |
| 7 | Springer Nature | 16 | Flanders Investment & Trade |
| 8 | Pearson | 17 | City of Antwerp – Business and Innovation |
| 9 | Magritek | 18 | CAPTURE |

Program at a glance



	SUNDAY 12 JULY	MONDAY 13 JULY	TUESDAY 14 JULY	WEDNESDAY 15 JULY	THURSDAY 16 JULY
08:00 - 09:00		Registrations			
09:00 - 10:00		Plenary Session Katrien Keune	Plenary Session Susumu Kitagawa	Plenary Session Kim Jelfs	Plenary Session Markus Antonietti
10:00 - 11:00		Coffee Break Exhibition			
11:00 - 12:00		Parallel Sessions			
12:00 - 13:00		Lunch Exhibition			
13:00 - 14:00		Poster Session Exhibition Symposia			
14:00 - 15:00	Registrations (until 20:00)	Parallel Sessions			
15:00 - 16:00					Comfort Break
16:00 - 17:00	Opening Ceremony	Coffee Break Exhibition			Award Lecture Roman Gladyshevskii
17:00 - 18:00	Award Lecture Marc Koper	Parallel Sessions			Award & Closing Ceremony
18:00 - 19:00	Plenary Session Roberta Sessoli	Comfort Break			
19:00 - 20:00	Welcome Reception (until 20:30)	Award Lecture Ronny Neumann	Award Lecture Katherine Villa Gómez	Award Lecture Magnus J. Johansson	

EYCN Program

	MONDAY 13 JULY	TUESDAY 14 JULY	WEDNESDAY 15 JULY	THURSDAY 16 JULY
10:00 - 11:00	EYCN (Noah Al-Shamery + Alumni)	EuChemS Young Chemists' Award (EYCA) lectures – PhD level (starts 09:30)	EuChemS Young Chemists' Award (EYCA) lectures – Early Career Researcher level Prof. Dr. Magnus J. Johansson (starts 09:30)	Communicate your science (Rute Pereira - Amazing Chemist, Charlotte Gers-Panther - Wiley, Laura Howes - C&EN) 3 talks + Q&A
11:00 - 12:00	CV writing (Rob Bowles - RSC) 1 talk + Q&A		Chemistry Rediscovered video competitio (Award Ceremony)	
12:00 - 13:00	Lunch Poster session Mini-Symposia			
14:00 - 16:00	What can I be with a PhD? (Carla Obradors - JnJ, Charlotte Gers-Panther - Wiley, Andrew Shore - RSC, Gill Reid - RSC) 3 talks + Q&A	Understanding neurodiversity (Ilaria Meazzini - RSC, Sabrina Webber - Elsevier, Maiia Aleksandrova - ESPCI) 1 talk + panel discussion	Developing your own leadership (Irene Regeni, Jasmin Herr - GDCh, Mirit Eldor - Elsevier, Ale Palermo - RSC) Panel discussion	Sustainability in the lab (Gemma Humby-Smith - RSC, Nineta Hrastelj - EuChemS, Helen Pain - RSC, Silvia Gross) 1 talk + panel discussion
16:30 - 18:00	Bridging academia & industry (Peter Craeghs - EIL, Carla Obradors - JnJ, Javier Garcia-Martinez) Panel discussion	ERC workshop (Alice Bolner - ERCEA, Carla Casadevall, Angela Agostiano) 2 talks + Q&A	MSCA workshop (Tuhina Khan, Irene Regeni, Silvia Gross) 2 talks + Q&A	

Overview Meeting Rooms

Plenary & Award sessions	Queen Elisabeth Hall	+1	MAIN HALL
Catalyzing New Chemistry Solutions	Darwin Hall	+2	HISTORICAL WING
Chemistry Meets Biology & Food Science	Gorilla Room 4 & 5	+1	CARNOT WING
Computational Chemistry & AI: The Power of Data	Nightingale Room 1 & 2	+2	CARNOT WING
Energy, Environment & Sustainability Additional room on Monday & Wednesday 16:30-18:00	Queen Elisabeth Hall	+1	MAIN HALL
	Okapi 3	0	CARNOT WING
Innovative Materials	Gorilla Room 1	+1	CARNOT WING
Molecular Design & Reactivity	Marble Hall	0	MAIN HALL
Perspectives in Analytical & Physical Chemistry NOT on Monday & Wednesday 16:30-18:00	Okapi 3	0	CARNOT WING
Responsible Chemistry NOT on Wednesday	Toucan 1 & 2	+2	CARNOT WING
Industry Day ONLY on Wednesday	Toucan 1 & 2	+2	CARNOT WING
Symposia	Galapagos Room	+2	HISTORICAL WING
EYCN Early-Career Program	Gorilla Room 3	+1	CARNOT WING

Meeting Venue

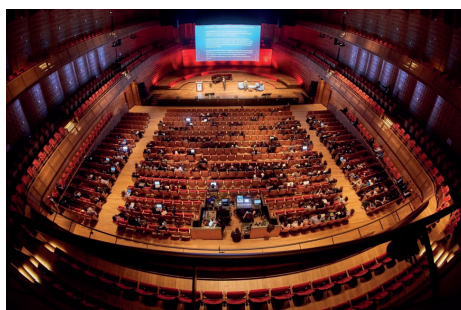
Flanders Meeting and Convention Center Antwerp – “A Room with a Zoo”

Flanders Meeting and Convention Center Antwerp goes beyond space. A venue with a legacy of connection, nature conservation and sustainability.

Every cent contributes to nature conservation

“A Room with a ZOO” is part of the Antwerp ZOO Society. Profits of our congresses and events immediately support our efforts on cherishing nature through animal welfare, education and awareness building. The Antwerp ZOO Society plays a leading role on the world stage in terms of scientific research and conservation.

This unique partnership between meeting and conservation ties into the desire of the meeting industry to become more sustainable.



Access to ZOO Antwerp during ECC10

As an ECC10 participant, you will enjoy exclusive access to ZOO Antwerp upon presentation of your badge. This access is valid from 12 July to 17 July, including one extra day after the congress.

We recommend collecting your badge already on Sunday, 12 July.
Pre-registration opens at 14:30, followed by the Welcome Ceremony at 16:00.

Make the most of this unique opportunity to combine the congress with a visit to the zoo!

A Room with a ZOO, Koningin Astridplein 20-26, 2018 Antwerp.

ECC10 App

Download the "ECC10" app in the App Store or Google Play Store



Registration Desk - Opening Hours

Sunday	14:30 - 20:30
Monday	07:30 - 19:15
Tuesday	07:30 - 19:15
Wednesday	07:30 - 19:15
Thursday	07:30 - 17:30

Live Music on the Zoo Terrace

After the conference sessions, participants are invited to unwind on the Zoo Terrace and enjoy live music each evening. Performances will continue until 22:00, providing the perfect opportunity to network, reconnect with colleagues, and experience the unique atmosphere of Antwerp Zoo in a relaxed setting.



Catalyzing New Chemistry Solutions

Catalysis lies at the heart of modern chemistry, enabling transformative reactions and providing the foundation for new solutions in science, technology, and industry. From sustainable synthesis and energy conversion to breakthroughs in health and environmental technologies, catalysis continues to play a pivotal role in addressing global challenges. Under the theme “Catalyzing New Chemistry Solutions”, the congress will explore catalysis as both a conceptual foundation and as a powerful practical tool that drives progress for chemical discovery and innovation. The theme program will showcase cutting-edge advances in catalysis that pushes the boundaries of chemistry to find new solutions to global challenges in sustainability, energy, health, and the environment. To achieve this goal, we aim to integrate the expertise of both theoreticians and experimentalists to synthesize, characterize, and evaluate the performance of catalysts, covering both industrial and model systems. The scientific discussion will also include the role of modern technologies to improve the catalyst efficiency and improve the sustainability of the processes.

Monday 13th July 2026

Darwin Hall

Session	Timing	Presenter	Title
CCS - D1 - 001	10:00-10:15	Agustin de Arriba	Metal-driven structural rearrangement in Mn single-atom catalysts for selective photocatalytic oxidation of C–H bonds
CCS - D1 - 002	10:15-10:30	Hushan Chand	Cu Single Atom Catalyst for Three Component Coupling Reaction
CCS - D1 - 003	10:30-10:45	Igor Beckers	Catalytic Cross-Coupling of N-Terminal Glycine C(sp ³)-H Bonds in Peptides Enables Rapid Access to Underexplored Molecular Space in Drug Discovery
CCS - D1 - 004	10:45-11:00	Kriti Mehta	1,1-Diaminoazine : A versatile organocatalyst
CCS - D1 - 005	11:00-11:15	Sergio Posada Pérez	Hydrogen Evolution Suppression as a Prerequisite for Selective CO ₂ Reduction on MXene-Supported Single-Atom Catalysts
CCS - D1 - 006	11:15-11:30	Anna Fortunato	Producing Ethylene with Light
CCS - D1 - 007	11:30-11:45	Mihaela-Mirela Trandafir	Insights into 4-nitrostyrene chemoselective hydrogenation on Pd supported on (TiW) ₂ AlC and (TiW) ₃ AlC ₂ MAX phases and their corresponding MXenes
CCS - D1 - 008	11:45-12:00	Till De Cahsan	Partial Hydrogenation of Alkynes using Carbohydrates as Alternative Hydrogen Source on Pt/C

Session	Timing	Presenter	Title
Poster Flash 12:00			
CCS - D1 - F01		Ihar Mikhnavecs	Solvent-free mechanochemical Suzuki-Miyaura Coupling
CCS - D1 - F02		Roman Larkovich	An electrogenerated base route towards the synthesis of transition metal NHC-ligated complexes
CCS - D1 - F03		Rebecca Sebers	Biomass-Based Monomers for Recyclable Polymers: A Pathway Toward Sustainable Chemistry
CCS - D1 - F04		Elisa Giovanna Faggioli	Upscaling nanocellulose in catalysis with novel in-flow applications for amino- and metal-driven reactions
CCS - D1 - F05		Hui Xu	Dual-Active-Site in Pt-Co/Z-HP catalyst via Strong Metal-Support Interactions for VOCs Oxidation
Lunch			
CCS - D1 - I01	14:00-14:30	Bert M. Weckhuysen	Operando Spectroscopy of Heterogeneous Catalysts to Make Fuels and Chemicals
CCS - D1 - O09	14:30-14:45	Rosa Llusar	Catalytic hydrogenation and dehydrogenation reactions using molybdenum sulfide clusters and their sulfur-centered reaction mechanisms
CCS - D1 - O10	14:45-15:00	Jean-Denys Hamel	Photoredox defluorinative γ -substitution: Trading C-F for C-C bonds towards monofluoroalkenes
CCS - D1 - O11	15:00-15:15	Hui Wang	Visualizing the Surface Restructuring of Copper Electrodes during CO ₂ Electro-Reduction
CCS - D1 - O12	15:15-15:30	Ren-Xuan Yang	Sustainable Chemical Recycling of Polycarbonate: Solvent-Assisted Methanolysis using Magnetic Fe@ZIF-8 Derivatives
CCS - D1 - O13	15:30-15:45	Keanu V.A. Birkelbach	Heterogeneous reductive hydroformylation via amine/Rh-based solid molecular catalysts
CCS - D1 - O14	15:45-16:00	Jurjen Cazemier	3D micro-extrusion of structured oxide catalysts: linking catalyst shaping to reactor-relevant performance
Coffee break			

Session	Timing	Presenter	Title
CCS - D1 - O15	16:30-16:45	Raquel P. Herrera	Innovations in Enantioselective Organocatalytic C–P and C–C Bond Formation Using Formal C(sp ³)–H Activation
CCS - D1 - O16	16:45-17:00	Samer Gnaïm	One-Electron Approach for Trans-Selective Alkyne Semi-Reduction via Cobalt Catalysis
CCS - D1 - O17	17:00-17:15	Ambra M. Fiore	Infrared Irradiation assisted Pd/Cu catalysis for sustainable C–N cross coupling
CCS - D1 - O18	17:15-17:30	Fabrizio Careddu	Functionalized Carbon and Silica Supports for C–H Bond-Activating Enzymes Immobilization and Reuse
CCS - D1 - O19	17:30-17:45	Miguel Martín de Vries Ibáñez	Iridium-Free Dual Photoredox Catalysis Based on Carbon Nitride for Greener C–C Cross-Couplings
CCS - D1 - O20	17:45-18:00	Ivo Teixeira	Single-Atom Functionalized Poly(heptazine imide) as a Platform for Solar-to-Chemical Conversion

Tuesday 14th July 2026

Session	Timing	Presenter	Title
CCS - D2 - O01	10:00-10:15	Jose Alirio Mendoza Mesa	A Carbon-Free Incipient Wet Impregnation Strategy for Vanadium Catalysts: Stability modulation on Silicalite-1 in Oxidative and Non-Oxidative Propane Dehydrogenation
CCS - D2 - O02	10:15-10:30	Jan Holub	Electro- and photocatalytic ammonia oxidation with RuBda-functionalised carbon materials
CCS - D2 - O03	10:30-10:45	Maria Antonietta Di Stefano	Dioxo-Vanadium(V) ONO Complexes for Aerobic Photocatalytic Cleavage of C=C Bonds
CCS - D2 - O04	10:45-11:00	Onder Metin	Engineering 2D Semiconductor Heterojunctions for Efficient Visible-Light-Driven Photocatalysis toward Sustainable Chemical Conversions
CCS - D2 - O05	11:00-11:15	Andrea Uroz	A versatile family of [IrCp*Cl(N [^] O)] (photo)catalysts: Unlocking new challenging reactivities
CCS - D2 - O06	11:15-11:30	Ting Yu Chen	Photocatalytic Cu-BTC@Fe-MIL-101-NH ₂ Composite for CO ₂ Capture and Conversion: Advancing Greener Synthesis and Sustainable Resource Recovery
CCS - D2 - O07	11:30-11:45	Kirk Schanze	Electron Transfer Reactivity of Ion-Radical Photocatalysts
CCS - D2 - O08	11:45-12:00	Petr Kovaříček	Light-responsive dynamic covalent systems: out-of-equilibrium states, switching and catalysis

Session	Timing	Presenter	Title
Poster Flash 12:00			
CCS - D2 - F01		Maarten Mulier	Nanopatterned chemically modified carbon surfaces for carbohydrate valorization
CCS - D2 - F02		Patrick Lechner	Spin frustration and its role in stability and reactivity of first-row transition metal MOFs
CCS - D2 - F04		Jean Cedric Madrigalejo	Covalent functionalization of carbon surfaces with phenyl sulfonic acid for nanostructured, bifunctional catalysts in biomass chemical transformations
CCS - D2 - F05		Milda Tomy	Beyond Catalyst Immobilization: Engineering Local Proton Donor Microenvironments for CO ₂ Electroreduction
CCS - D2 - F07		Leon Schidowski	Theoretical and experimental investigations of acetal formation during the oxidation of xylose to formic acid catalysed by H5PV2Mo10O40 in methanolic-aqueous solution
Lunch			
CCS - D2 - I01	14:00-14:30	Ive Hermans	Detangling Complex Catalytic Systems for Sustainable Transformation
CCS - D2 - O09	14:30-14:45	Miguel Rivero-Crespo	Biomimetic MOF-Based Multicatalytic Systems for Green Aerobic Oxidations
CCS - D2 - O10	14:45-15:00	Limor Ben Neon	Toward robust and scalable formulation of Ceramic-Supported Catalysts for Reversible Hydrogen Storage Using LOHCs
CCS - D2 - O11	15:00-15:15	Maxim Lox	Probing nanozymatic activity in metal-organic frameworks via luminescent Linkers
CCS - D2 - O12	15:15-15:30	Xu Jia	Crystal Engineering of Zinc Metal-Organic Frameworks with Intrinsic Dynamicity for Multicomponent Catalysis
CCS - D2 - O13	15:30-15:45	Iván Sorribes	Advancing sustainability via molecular design of nanomaterials
CCS - D2 - O14	15:45-16:00	Wouter Van Hecke	Catalysis-driven routes to bio-based acetate and acrylate esters: integrating bioprocessing and enzyme-enabled chemistry
Coffee Break			
CCS - D2 - O15	16:30-16:45	Sophie van Vreeswijk	Pt-based Zeolites as Bifunctional Catalysts for Polyolefins Depolymerisation
CCS - D2 - O16	16:45-17:00	Nelcari Ramirez Marquez	Designing Accessible Zeolitic Materials via Solution-Phase Precipitation
CCS - D2 - O17	17:00-17:15	Iqtidar Ali Khan	Tailoring vanadium-impregnated small-pore zeolite(CHA) catalysts: Effects of synthesis on structure and non-oxidative and CO ₂ -assisted propane dehydrogenation performance
CCS - D2 - O18	17:15-17:30	Clara S. B. Gomes	Sustainable Copper(I) Catalysts for CuAAC: Mechanochemistry, Structure and Mechanism

Wednesday 15th July 2026

Session	Timing	Presenter	Title
CCS - D3 - O02	10:00-10:15	Yen-Ku Wu	Direct β -methylation of α -activated cycloalkenones: total synthesis of benastatins B and D
CCS - D3 - O03	10:15-10:30	Belén Lerma-Berlanga	New Strategies for Sustainable Base Catalysis through Metal Cluster Design
CCS - D3 - O04	10:30-10:45	Hariprasad B S	Superior Efficacy of Selenium-Promoted Cobalt Titanate in Dual Catalysis: Bisindole Synthesis and Acetophenone Hydrogenation
CCS - D3 - O05	10:45-11:00	Sarah Smoni Varghese	Synthesis of Axially Chiral P,N Ligands Exploiting Non-Covalent Bonding Interactions and their Application in Asymmetric Catalysis
CCS - D3 - O06	11:00-11:15	Paolo Freisa	Beyond mixing: Quad-screw extruder as a chemical reactor for solvent-free organic synthesis
CCS - D3 - O07	11:15-11:30	Jakub Kusz	From support to catalyst: redefining the role of the carbon in thermochemical hydrogenation reactions
CCS - D3 - O08	11:30-11:45	Michele Tomasini	Unlocking Nonalternating Ethylene-CO Copolymerization via Ligand-Controlled Isomerization
Poster Flash	12:00		
CCS - D3 - F01		Karol Górecki	Multi-faceted insight into the thermochemical redox behaviour of manganese-oxide-based model catalyst, Na ₂ Mn ₃ O ₇ – comparative analysis through DFT, operando TEM and XAS
CCS - D3 - F02		Agata Olszewska	Tailoring Al-differentiated HZSM-5 Catalysts: A Solution for Controlled Ethylene Oligomerization and Resistance to Deactivation
CCS - D3 - F03		Andres Mollar Cuni	Phenanthrenequinones (PQs): Swiss army knife in photocatalysis
CCS - D3 - F04		Christophe Vande Velde	Hydrogen bond donating large pore MOFs as catalysts
CCS - D3 - F06		Diarmuid O'Hanlon	Enabling Technologies in Flow Chemistry for Data-Rich Reaction Optimisation
CCS - D3 - F08		Elke Theeuwes	Getting all ducks in one row, unravelling the complexity of chemical recycling of hard-to-recycle plastics
CCS - D4 - F09		Maria Teresa Tiberi	Upcycling potentially waste-derived Silicon into novel heterogeneous catalysts
Lunch			

Session	Timing	Presenter	Title
CCS - D3 - I01	14:00-14:30	Nuria Lopez	The role of Theory in Catalytic processes
CCS - D3 - O09	14:30-14:45	Fernando Alec Vera Barrutia	Structure–reactivity relationships in imidazopyridine complexes of Mo(VI), W(VI) and V(IV) for olefin epoxidation catalysis
CCS - D3 - O10	14:45-15:00	Maximilian Wohlgemuth	Direct Mechanocatalysis via Catalytically Coated Milling Tools
CCS - D3 - O11	15:00-15:15	Richard Buchinger	Bio-electrocatalytic cascade processes for efficient valorization of biomass and plastic waste feedstocks into olefins
CCS - D3 - O12	15:15-15:30	Maël Bressoux	Towards the Direct Reduction of Atmospheric CO ₂ : Copper(I)-Mediated Hydrosilylation of Highly Diluted CO ₂
CCS - D3 - O13	15:30-15:45	Guillaume Clet	Operando Raman insights into TiO ₂ -supported metal catalysts for CO ₂ hydrogenation
CCS - D3 - O14	15:45-16:00	Petra de Jongh	Bimetallic Ni-Cu and Cu-Pd (de)Hydrogenation Catalysts – Composition and Particle Size Effects
Coffee Break			
CCS - D3 - O15	16:30-16:45	Milla Vigliengo	Robust Ink-Formulated Single-Atom Catalyst Electrodes for Anodic and Cathodic Organic Electrosynthesis
CCS - D3 - O16	16:45-17:00	Yu Cao	Hydrogen Regulation at Metal–Support Interfaces for Selective Plastic Hydrogenolysis
CCS - D3 - O17	17:00-17:15	Sihana Ahmedi	Magnetically Induced Iron-Catalyzed Hydrodeoxygenation of Benzylic Esters and Polyesters
CCS - D3 - O18	17:15-17:30	Lars Faber	Reduction of Levulinic Acid to GVL – Catalyst Recycling through membrane nanofiltration
CCS - D3 - O19	17:30-17:45	Dongmin Park	"Steric Hindrance of Proton Donor Modulates Heterogeneous Electrochemical Nitrogen Reduction Reaction Selectivity in Non-aqueous Electrolyte"
CCS - D3 - O20	17:45-18:00	Lisa De Vriendt	Atomically dispersed Ru on zeolite catalysts for unlocking the potential of the biobased cis, trans-muconic acid

Thursday 16th July 2026

Session	Timing	Presenter	Title
CCS - D4 - O01	10:00-10:15	Evelina Colacino	Mechanochemistry in batch and continuous - A transformative opportunity for sustainable pharmaceutical manufacturing : case studies
CCS - D4 - O02	10:15-10:30	Salar Tavakkol	Understanding Nitrogen-Induced Catalyst Deactivation in Plastic Waste Pyrolysis from Lab to Pilot Scale
CCS - D4 - O03	10:30-10:45	Chun-Cheng Lin	Chemoenzymatic Synthesis of Gangliosides
CCS - D4 - O04	10:45-11:00	Rongwei Gao	Can proteins be fast and selectively cleaved under mild conditions without using proteases? A bimetallic Ce-MOF artificial nanozyme answers
CCS - D4 - O05	11:00-11:15	Theodore Anthony Gazis	Carbon Nitride Photocatalysis for Additive-Free Vicinal Halotrifluoromethylation of Unactivated Alkenes
CCS - D4 - O06	11:15-11:30	Samuel Suárez Pantiga	Direct synthesis of secondary amines and N-based heterocycles from nitrocompounds under molybdenum catalysis
CCS - D4 - O07	11:30-11:45	Maike Mayer	Mechanochemistry: A different Path to Selective Hydrogenation
CCS - D4 - O08	11:45-12:00	Dominik Halter	Opportunities and challenges of in situ & ex situ electro-organic synthesis with H ₂ O at transition metal catalysts
Lunch			
CCS - D4 - I01	14:00-14:30	Regina Palkovits	Catalyzing the Energy & Resource Transformation
CCS - D4 - O9	14:30-14:45	Heinrichs Thomas	Dihydroquinazolinones by Titanocene Catalyzed Reductive Radical Addition to Quinazolinones
CCS - D4 - O11	14:45-15:00	Zhihong Tian	Precise regulation on the interfacial atomic structures of carbon-based hybrid materials (cancelled)
CCS - D4 - O12	15:00-15:15	Daan van Eck	High-yield methane pyrolysis over hydrotalcite-derived Ni/Al ₂ O ₃ in a fluidized-bed reactor

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Chemistry Meets Biology & Food Science

This interdisciplinary session focuses on most recent developments in chemical tools, techniques, and principles to study and manipulate biological systems and to analyze the nutrients and bioactive compounds of food that go beyond basic nutrition, helping to protect against chronic diseases, as well as the presence of contaminants and adulterants in food. By developing chemical probes and other synthetic molecules, chemical biologists gain detailed molecular insights into cellular processes, with the ultimate goal of understanding disease mechanisms and developing new therapies. Chemistry is providing tools to develop sustainable and circular strategies in agri-food systems (waste reduction and byproduct valorization) and to unravel the complex relationships between food processing and the bioavailability of bioactive molecules in the human gut.

Monday 13th July 2026

Gorilla room 4-5

Session	Timing	Presenter	Title
CBF - D1 - O01	10:00-10:15	Alberto Concellón	Dynamic Complex Liquid Crystal Emulsions as Responsive Optical Platforms for Detecting Foodborne Pathogens
CBF - D1 - O02	10:15-10:30	Vânia Rodrigues	Development of a molecular beacon-based LAMP assay for the specific identification of Ginkgo biloba in commercial herbal products and food supplements
CBF - D1 - O03	10:30-10:45	Alessia Cavallaro	Fluorescent sensor array for fungal detection and VOC-based quality monitoring in citrus fruit
CBF - D1 - O04	10:45-11:00	Dries Hermans	Functionality and migration behavior of bulk-mixed and surface-coated nano Ag/PHBHHx packaging films.
CBF - D1 - O05	11:00-11:15	Joana Amaral	Development of a real-time PCR assay for the detection of Bombyx mori (silkworm) in insect-based food and feed products
CBF - D1 - O06	11:15-11:30	Alejandro Mendoza Cantu	Fermentation-induced molecular remodeling in South African indigenous tubers: Cassava and cocoyam
CBF - D1 - O07	11:30-11:45	Ana Catarina Ribeiro	Polyphenol–Casein Interactions Modulate Protein Aggregation and Network Formation during Curd Development
CBF - D1 - O08	11:45-12:00	Ana Rita Pereira	New insights into yeast protein–chitosan complex coacervation for food systems
Poster Flash	12:00		
CBF - D1 - F01		Luís Manuel Lopes da Silva Rodrigues da	Red fruits - medicinal plants functional beverage prototypes: integrating cell bioactivity, cultivar chemistry and human metabolic biomarkers
CBF - D1 - F02		Raffaello Nardin	Geographical fingerprinting of Wine: Multi-technique approach and signal masking effects

Session	Timing	Presenter	Title
CBF - D1 - F03		Perveen Akhtar	Portable multiplex quantification of marine biotoxins via digital colour-encoded lateral flow platform utilizing shape-tailored gold nanoparticles
CBF - D1 - F04		Raquel Nunes Da Silva	In vitro testing of antifungal biocides against endophytic fungi of cork oak with potential phytosanitary application
CBF - D1 - F05		Francesco Cairone	From Mediterranean Agri-Waste to Functional Molecules for food packaging and dermo-cosmetic applications: Process-Driven Sustainable and Circular Chemistry
CBF - D1 - F06		Luís Manuel Lopes Rodrigues Da Silva	Chemistry-to-biology translation for functional fruit beverages: a comparative pipeline for Sorbus, Viburnum tinus and Rhus coriaria hot-water infusions
CBF - D1 - F07		Carmen Corea	Sustainable scale-up of fatty acids and poly-phenols extraction from Spent Coffee Grounds
Lunch			
CBF - D1 - I01	14:00-14:30	Markus Fischer	Food fraud and countermeasures
CBF - D1 - O09	14:30-14:45	Jule Fiori	Prevalence and bioavailability of Kukoamine A and B in potatoes, potato products and peppers
CBF - D1 - O10	14:45-15:00	Marina Piacenti-Silva	Sustainable NADES Extraction of Bioactive Flavonoids from Sugarcane Bagasse and Their Antioxidant Effects in Drosophila melanogaster Alzheimer Model
CBF - D1 - O11	15:00-15:15	Yuri Asnis	Kinetics of reactive nitrogen species in Plasma-Activated Water and their role in antimicrobial activity against Escherichia coli
CBF - D1 - O12	15:15-15:30	Utibe Bassey Akpan	Antimicrobial Ionic liquid-essential oils combinations: a mathematical modelling of interactions
Coffee break			
CBF - D1 - O15	16:45-17:00	Carlotta Valle	Valorization of Cocoa Bean Shells by Green Extraction: A Source of Functional Compounds
CBF - D1 - O16	16:45-17:00	Raquel Nunes da Silva	Circular Valorisation of Tomato Processing By-products: Recovery of Bioactive Compounds for Sustainable Food Systems
CBF - D1 - O17	17:00-17:15	Chao-Jung Chen	High-throughput Screening of Herbal Medicines for DPP-4 Inhibition in Type 2 Diabetes Mellitus using Matrix-Assisted Laser Desorption Ionization Time-of-Flight Mass Spectrometry
CBF - D1 - O18	17:15-17:30	Jens Frackenhohl	Novel heterocyclic FAT-inhibitors – Resistance-breaking and PFAS-free grass weed control solutions for sustainable agroscience in Europe
CBF - D1 - O19	17:30-17:45	Chiara Melchiorre	LC-MS of Ovatoxins: Influence of Calcium salts on ionization patterns and quantification accuracy

Tuesday 14th July 2026

Session	Timing	Presenter	Title
CBF - D2 - O01	10:00-10:15	Sonsoles Martin-Santamaria	Lipopolysaccharides for modulation of innate immunity receptors: the computational eye
CBF - D2 - O02	10:15-10:30	Andrea Sodini	Mannosylated Peptide Nanofibers for MUC1-Mimetic Antigen Delivery and Immune Modulation
CBF - D2 - O03	10:30-10:45	Elisabete Coelho	Enzymatic and subcritical water extraction based strategies to increase psychobiotic activity through cell wall polysaccharide modulation
CBF - D2 - O04	10:45-11:00	Mattan Hurevich	Expeditious synthesis of Glycan and Glycopeptides and their use in Pathogen detection
CBF - D2 - O05	11:00-11:15	Gema Nieto-Ortiz	Designing Multivalent Glycofullerenes for Redox-Active Lectin Biosensors
CBF - D2 - O06	11:15-11:30	Rachel Hevey	Synthesis & development of mucus-derived glycans as novel anti-virulence therapeutics
CBF - D2 - O07	11:30-11:45	Michaela Prothiwa	Chemical profiling of virulence-related bacterial proteases
CBF - D2 - O08	11:45-12:00	Brigitte Holzer	Targeting RNA with clickable peptide nucleic acid-based molecular locks
Poster Flash 12:00			
CBF - D2 - F01		Justine Kapp	Quinoline based luminescent imidazolium salts as vector for gene therapy
CBF - D2 - F02		Oana Grad	Designing Antibacterial Materials Using Cysteine
CBF - D2 - F04		Chang-Hyung Choi	Biomimetic aqueous-core hydrogel microcapsules for spatially organized enzymatic cascade reactions
CBF - D2 - F05		Catarina Maria	Design and synthesis of novel sugar-based antibacterial agents against Gram-negative bacteria
EES - D2 - F06		Nabashree Chakraborty	Mitochondria is red today
CBF - D2 - F08		Luca Pozzi	Cannabizetol: discovery of a new cannabinoid
CBF - D2 - F09		Malgrozata Starowicz	The effect of processing technology on the content of acrylamide, amino acids, and reactive dicarbonyl compounds formed during bread baking
Lunch			

Session	Timing	Presenter	Title
CBF - D2 - I01	14:00-14:30	Tanja Wrodnigg	Ligand-directed Chemistry profiling of Carbohydrate processing Enzymes
CBF - D2 - O09	14:30-14:45	Valentina Oliveri	Bioinorganic Hybrid Nanoplatfroms Based on Cellulose Nanocrystals for Mitochondrial Damage and Cuproptosis Induction in Tumor Cells
CBF - D2 - O10	14:45-15:00	Anitha Ethirajan	Stimuli responsive biopolymer based nano-carriers for the delivery of hydrophilic cargo
CBF - D2 - O11	15:00-15:15	Hennie Valkenier	Copper transport across cell membranes by calix[4] arene-based cationophores leading to potent biological activity
CBF - D2 - O12	15:15-15:30	Vladimír Kren	Glycosylated mycotoxins in food: A hidden enemy
CBF - D2 - O13	15:30-15:45	Suada Djukaj	Development of a biosimilar mucus layer as a predictive tool for preclinical drug assesment
CBF - D2 - O14	15:45-16:00	Thilakan Kanesalingam	A Coarse-Grained Approach to Modelling Adsorption of the Lubricating Salivary Protein, MUC5B, to Biomimetic Tongue Surfaces
Coffee break			
CBF - D2 - O15	16:30-16:45	Manuel Maestre-Reyna	Food fraud and countermeasures
CBF - D2 - O16	16:45-17:00	Stefania Gardoni	Prevalence and bioavailabilty of Kukoamine A and B in potatoes, potato products and peppers
CBF - D2 - O17	17:00-17:15	Cosima Damiana Calvano	Sustainable NADES Extraction of Bioactive Flavonoids from Sugarcane Bagasse and Their Antioxidant Effects in Drosophila melanogaster Alzheimer Model
CBF - D2 - O18	17:15-17:30	Désirée Schlemper-Scheidt	Kinetics of reactive nitrogen species in Plasma-Activated Water and their role in antimicrobial activity against Escherichia coli
CBF - D2 - O19	17:30-17:45	Elva Morretta	Functional Proteomics-Driven Discovery of Quinazolinones as Proteasome Inhibitors
Coffee break			

Wednesday 15th July 2026

Session	Timing	Presenter	Title
CBF - D3 - O01	10:00-10:15	Jussara Amato	Protein-G-quadruplex interactions: Expanding frontiers in drug development
CBF - D3 - O02	10:15-10:30	Yu-Hsuan Tsai	Disulfide-directed multicyclic peptides for chimeric antigen receptors targeting solid tumors
CBF - D3 - O03	10:30-10:45	Davide Deodato	Biophysical characterization of the complex between A β and model peptides of optineurin: the impact of the E50K mutation in neurodegenerative pathways
CBF - D3 - O04	10:45-11:00	Sara La Manna	From Planar to Octahedral Architectures: Geometry-Driven Modulation of Amyloid Aggregation
CBF - D3 - O05	11:00-11:15	Fatma Zohra Mihoubi	Chemical requirements of coacervates as protocells
CBF - D3 - O06	11:15-11:30	Sebastian Golojuch	Enhancing and probing mRNA properties via click chemistry
CBF - D3 - O07	11:30-11:45	Neda Bagheri	Enzymatic regulation of CRISPR-Cas12a for programmable readout of DNA repair and topological states
CBF - D3 - O08	11:45-12:00	Jory Lietard	RNA and XNA microarrays: harnessing the full power of nucleic acid photolithography
Poster Flash	12:00		
CBF - D3 - F02		Jana Baroen	A multi-omics approach to understand how cold atmospheric plasma affects patient-derived head and neck and pancreatic tumors.
CBF - D3 - F03		Tanguy Scaillet	Characterisation of Brucella melitensis phosphoserine phosphatase through crystallographic and kinetic studies
CBF - D3 - F04		Man Shing Wong	Multimodal Nanoprobe for Amyloid- β Targeted Imaging and Oxidative Stress Monitoring in Alzheimer's Disease
CBF - D3 - F05		Eva Müller	Polyphenolates as Bipotent Photostabilising and Solubilizing Agents for Riboflavin
CBF - D3 - F06		Fayanne Nolin	Development of Oligonucleotide Probes to Study the Enzyme SNM1A
CBF - D3 - F07		Martin Gill	Green(er) synthesis of MLCT-emissive ruthenium(II) polypyridyl complexes
Lunch			

Session	Timing	Presenter	Title
CBF- D3 - I01	14:00-14:30	Manuel Coimbra	Contribution of carbohydrates for innovation in food
CBF - D3 - O09	14:30-14:45	Federico Riu	Targeting (self-)splicing machineries with small molecules to fight cancer
CBF - D3 - O10	14:45-15:00	Catarina M. Correia	Rationale Design, Synthesis and Pharmacological Properties of Fused Chromenopyrazoles as CB1 Ligands
CBF - D3 - O11	15:00-15:15	Malliga Iyer	CNS sparing agents targeting Cannabinoid-1 Receptors for Treatment of Metabolic Syndrome Disorders
CBF - D3 - O12	15:15-15:30	Yang-Hsiang Chan	Molecular Design of Ultrabright NIR-II Fluorescent Probes for Deep-Tissue Imaging
CBF - D3 - O13	15:30-15:45	Kelly Bugatti	From Prediction to Bench: An Integrated Modelling–Synthesis Framework for Bitter Peptide Identification
CBF - D3 - O14	15:45 - 16:00	Chiara Maccari	Environmental pollution and asthma: EXPOSOMIC approach
Coffee break			
CBF - D3 - O15	16:30-16:45	Marta Da Pian	Integrating chemical and biological knowledge to enhance translational research: insights from recent studies
CBF - D3 - O16	16:45-17:00	Martin Gill	Combining ruthenium(II) metallo-intercalators and PARP inhibitors for cancer therapy
CBF - D3 - O17	17:00-17:15	Polyssena Renzi	Combining Boron and Gadolinium Neutron Capture Therapy with the Inhibition of Carbonic Anhydrase for the Treatment of Mesothelioma
CBF - D3 - O18	17:15-17:30	Ricardo Ferraz	Combination of antimalarial drugs with natural acidic lipids delivers surface-active ionic liquids with multi-stage antimalarial activity
CBF - D3 - O19	17:30-17:45	Jordi Jaenen	Development of a Dual-Functional Nanostructure for Simultaneous Plasmonic Heating and Real-Time Temperature Sensing
CBF - D3 - O20	17:45-18:00	Rabia Zahid	Silsesquioxane-nucleic acids suprastructures for controlled gene therapy

Thursday 16th July 2026

Session	Timing	Presenter	Title
CBF - D4 - O01	10:00 -10:15	Francesco Peri	Pharmacological modulation of human immunity: a chemistry-based approach
CBF - D4 - O03	10:15 -10:30	Vincenzo Piccolo	Phytochemical profiling and quantification of glucosinolates in radish microgreens and evaluation of their H ₂ S-mediated vasodilatory activity
CBF - D4 - O04	10:30 -10:45	Giorgia Gambardella	Synthetic Gene Networks for Tunable Regulation of Enzyme-Inhibitor Complexes
CBF - D4 - O05	10:45 -11:00	Roberto Olayo-Gonzalez	Plasma-Functionalized Electrospun PLA-PCL Scaffolds implanted in rabbits for Articular Cartilage Regeneration
CBF - D4 - O06	11:00 -11:15	Heleen De Wever	Tunable biopolymer production from CO ₂ through biotechnological processes
CBF - D4 - O07	11:15 -11:30	Sebastian-Felix Fritz	Small Stereoselectively Deuterated Molecules at the Chemistry-Biology Interface
CBF - D4 - O08	11:30 -11:45	Maria Maisto	Plant-Derived Extracellular Vesicles from Grape Pomace as Bioactive Nanocarriers for Anti-Aging Nutraceutical Applications
Poster Flash 12:00			
CBF - D4 - F01		Mihai-Alexandru Molența	Design and synthesis of lipid substrates for sterol imaging
CBF - D4 - F02		Magdi El Fergani	Synthesis and Characterization of Novel Rhodamine and Coumarin-based Fluorophores
CBF - D4 - F03		Inês Ferreira	De novo analytical chemistry approaches for collagen and polyphenol characterization in Physalia physalis
CBF - D4 - F05		Lucio Spinelli	PEGylation-Driven Remodeling of the Protein Corona on PLGA Nanoparticles: Implications for Macrophage Recognition
CBF - D4 - F08		Konrad Barnowski	Synergistic cancer therapy targeting LAG-3&PD-L1 through co-administration of flavonoid and durvalumab
Lunch			
CBF - D4 - I01	14:00-14:30	Laura Roman Rivas	Carbohydrates as building blocks of structure in plant foods
CBF - D4 - O09	14:30-14:45	Adriaan Minnaard	Total synthesis of Bisenarsan; an organo-arsenic metabolite from Streptomyces
CBF - D4 - O10	14:45-15:00	Cecilia Scandurra	Transcriptional circuits control of Hybridization Chain Reaction (HCR)
CBF - D4 - O11	15:00 -15:15	Haris Majstorovic	Synthesis & structure-activity relationship study on a plant-derived glycoside that attenuates virulence in Pseudomonas aeruginosa



Computational Chemistry & AI: The Power of Data

This theme will be devoted to all aspects of computational methods and artificial intelligence are driving concrete advances in chemical research, from the prediction of molecular behaviour to the design of new materials and catalytic processes. It is aimed at researchers who utilise or develop computational methods and data-driven tools to solve specific chemical problems.

Presentations will feature practical applications of AI, machine learning, and modelling techniques to accelerate molecular and materials discovery, optimise reaction pathways, and understand complex chemical and biological systems. Examples include quantum chemical calculations for reaction design, molecular dynamics simulations for property prediction, AI-assisted catalyst discovery, and digital workflows that integrate computation with high-throughput experimentation.

In addition to application-oriented contributions, the session will highlight methodological innovations, including new algorithms and methods, modelling approaches, and data infrastructures, that enable increased accuracy, reproducibility, and transparency in chemical research. It will also provide space to discuss the responsible use of AI, including data quality, explainability, and ethical considerations.

Monday 13th July 2026

Nightingale room 1 & 2

Session	Timing	Presenter	Title
CAI - D1 - O1	10:00-10:15	Irina Grubova	Binding Energies of Sulfur-Bearing Species on Neutral and Charged Amorphous Solid Water Ices
CAI - D1 - O2	10:15-10:30	Ramadhan Muhammad Dzulfahmi	Uncovering the origin of amine-driven selectivity in Ru-catalyzed CO ₂ -to-methanol hydrogenation
CAI - D1 - O3	10:30-10:45	Carles Bo	New Computational Insights into the Speciation and Formation of Polyoxometalates
CAI - D1 - O4	10:45-11:00	Carlo Alberto Gaggioli	Modelling Singlet Oxygen Generation on Ru-functionalized Metal Organic Frameworks with Trapped Ion Quantum Computers
CAI - D1 - O5	11:00-11:15	Feixiang Xu	Multiscale Computational Insights into Thermal and Catalytic Pyrolysis of Polyolefins
CAI - D1 - O6	11:15-11:30	Elisabetta Inico	Carbonate-Radical Pathway in Dual Nickel/Carbon Nitride Photocatalysis: A New Mechanistic Blueprint for C(sp ³)-H Activation
CAI - D1 - O7	11:30-11:45	Yuman Hordijk	PyOrbb — Automated Analysis Tool for Orbital Interactions
CAI - D1 - F04	11:45-12:00	Rodríguez Fileto	Understanding the Raman Spectra of Silica Prenucleation Clusters via Ab Initio Molecular Dynamics and Experiments

Session	Timing	Presenter	Title
Poster Flash			
CAI - D1 - F01	12:00	Brea Oriana	Impact of Fast Mechanistic Studies in Industrial Setting
CAI - D1 - F02		Baets Peter	Addressing process challenges through AI: Biobased amine production in flexizyme
CAI - D1 - F03		Kumari Geetu	In silico Engineering of Piezoelectric Biomolecular Assemblies
Lunch			
CAI - D1 - I01	14:00-14:30	Maria Ramos	Food fraud and countermeasures
CAI - D1 - O9	14:30-14:45	Jun-Ho Choi	Molecular aggregation and Microheterogeneity in various aqueous solutions
CAI - D1 - O10	14:45-15:00	Przemysław Grenda	CYtochrome Complex Ligand Optimization with Protein Simulation – an automated pipeline for simulations and analysis of CYP450 docked structures
CAI - D1 - O11	15:00-15:15	Ioana M. Ilie	Computational engineering of peptides inhibiting cell death
CAI - D1 - O12	15:15-15:30	Kenno Van-ommeslaeghe	The Sampling-based Adaptive Biasing Force (sABF) method efficiently explores the free energy landscape of large-scale motions in liquid-phase systems
CAI - D1 - O13	15:30-15:45	Eugen Hruška	Higher accuracy reaction rates with the ab initio nanoreactor
CAI - D1 - O14	15:45-16:00	Christophe de Graaf	Bridging molecular dynamics and COSMO-RS simulations with macroscale modeling for advancements in Polyurethane post depolymerization separation processes
Coffee break			
CAI - D1 - O15	16:30-16:45	Anna Bondarenko	Modeling charge transport in radical-containing polymers for all-organic batteries
CAI - D1 - O16	16:45-17:00	Ionut Tranca	Catch the Heat : in Porous and Non-porous Materials
CAI - D1 - O17	17:00-17:15	Lorenzo Baldinelli	Harnessing Noncovalent Interactions from Catalysis to Quantum Technologies
CAI - D1 - O18	17:15-17:30	Maxim Papusha	StereoMolGraph: Reliable Computational Toolkit for Chiral Molecules and Reactions
CAI - D1 - O19	17:30-17:45	Ivan Kodrin	Computationally assisted analysis of CO2 adsorption in nitrogen-nitrogen linked porous organic polymers
CAI - D1 - O20	17:45 - 18:00	Fardine Ameli	Replica Exchange with Flexible Timing (REFT): a novel replica exchange variant for efficient conformational sampling and free energy calculations

Tuesday 14th July 2026

Session	Timing	Presenter	Title
CAI - D2 - O1	10:00-10:15	Martijn Hut	Training of Machine-learned Force Fields for Modeling Metal-Support Interactions in Catalysis
CAI - D2 - O2	10:15-10:30	Gregor Simm	SimPoly: Simulation of Polymers with Machine Learning Force Fields Derived from First Principles
CAI - D2 - O3	10:30-10:45	Elpiniki Paspali	AI-driven generative and rational design of peptide modulators targeting GUCY2C for Parkinson's disease
CAI - D2 - O4	10:45-11:00	Philippa Cox	Computationally driven exploration of the structure and electronic properties of Cu ₂ GeSe ₃ for use in high-performance thin film photovoltaic alloys
CAI - D2 - O5	11:00-11:15	Robbe Devreese	Collisional cross-section prediction of peptides and small molecules: covering all bases and bridging the gap
CAI - D2 - O6	11:15-11:30	Jelle Vekeman	Machine Learning Potentials at Speeds Comparable to Reactive Force Fields
CAI - D2 - O7	11:30-11:45	Francesco Calcagno	Quantum Chemistry Is All You Need: Data-free Inverse Molecular Design with PROTEUS
CAI - D2 - O8	11:45-12:00	Mohammed Bin Jassar	Packed by the Surface: Relating Surface Structure and Solvation Properties at Solid/Water Interfaces
Poster Flash		12:00	
CAI - D2 - F01		Ekmekci Cumhur Gokhan	Structure-based discovery of NLRP3 inflammasome inhibitors: an integrated computational approach combining virtual screening, molecular dynamics, and binding free energy calculations
CAI - D2 - F02		Ekmekci Cumhur Gokhan	Structure-based identification of novel USP7 inhibitors targeting the p53-MDM2 axis: a computational approach for anticancer drug discovery
CAI - D2 - F03		Leherthe Laurence	Mimicking the effect of displacement parameter and crystallographic resolution on the topology of electron density distributions: application to non-covalent interactions
CAI - D2 - F04		Lipin Raju	How Subsurface Carbon Affects Hydrogen Interactions at Transition Metal Electrodes
CAI - D2 - F05		Hruška Eugen	Bridging chemical property explainability between chemistry and machine learning
CAI - D2 - F06		Sulkova Katarina	FNDMC as a tool for quantifying static and dynamic electron correlation in complex systems

Session	Timing	Presenter	Title
CAI - D2 - F07		Andrae Dirk	Accurate property data for small molecules from theory
CAI - D2 - F08		Suñer-Rubio Adrián J.	Control of quantum entanglement and electronic coherence in attosecond molecular photoionization
Lunch			
CAI - D2 - I01	14:00-14:30	Phillip Schwaller	Accelerating Chemical Science in the Era of LLMs
CAI - D2 - O9	14:30-14:45	Krishna Govender	Chemoinformatics profiling of Annona muricata-derived compounds targeting COX-2 in breast cancer
CAI - D2 - O10	14:45-15:00	Alexander Messler	Uncertainty-aware prediction of 195Pt chemical shifts from limited data
CAI - D2 - O11	15:00-15:15	Muhammad Umer	Machine learning force fields for accelerated design and discovery of electrocathodic materials
CAI - D2 - O12	15:15-15:30	Paul Popelier	FFLUX: Machine Learnt Potentials based on Quantum Topological Atoms
CAI - D2 - O13	15:30-15:45	Sergey Varnavskiy	Data-centric AI in computational chemistry: integrating curated literature with other data
CAI - D2 - O14	15:45-16:00	Trung Trinh	Data-Driven Process Intensification of Methyl Acetate Production via Surrogate-Based Bayesian Optimization
Coffee break			
CAI - D2 - O15	16:30-16:45	Elham Sattarinezhad	Exploring the Mechanism of Protochlorophyllide to Chlorophyllide Conversion
CAI - D2 - O16	16:45-17:00	Steven Beutick	Lone-Pair Shielded Radicals: Beyond the Captodative Substitution Pattern
CAI - D2 - O17	17:00-17:15	Giovanni Bistoni	Novel computational strategies for the study of chemical selectivity: Combining high accuracy and chemical insight
CAI - D2 - O18	17:15-17:30	Christoph Plett	ORCA Meets Python – The ORCA Python Interface OPI
CAI - D2 - O19		Pinar Seyitdanlioglu	Computational Screening of Triphenylamine-Based Star-Shaped Molecules: Insights into Electronic and Optical Properties for Organic Photovoltaic (cancelled)
CAI - D2 - O20	17:30-17:45	Tommaso Giovannini	Driving Chemistry through Plasmonic Photoinduced Phenomena: An Atomistic Perspective

Wednesday 15th July 2026

Session	Timing	Presenter	Title
CAI - D3 - O1	10:00-10:15	Simen Camps	Resolving spin contamination in spin-flip methods: the extended spin-flip CC2 method
CAI - D3 - O2	10:15-10:30	Hans Lischka	Machine learning and multireference configuration interaction for high-level nonadiabatic dynamics simulation of hexatriene
CAI - D3 - O3	10:45-11:00	Federico Rossi	Convex Hartree-Fock and Density Functional Theory for Stable Simulations at Conical Intersections
CAI - D3 - O4	11:00-11:15	Federica Borzelli	Computational modeling of tryptophan fluorescence spectra in proteins
CAI - D3 - O5	11:15-11:30	Francesco Di Maiolo	Organic Diradicals Bridged by Inverted Singlet-Triplet Units for Optical-Spin Interfaces
CAI - D3 - O6	11:30-11:45	Jordi Cirera	Data-Driven Prediction of Spin-Crossover Properties from Electronic Structure Calculations
CAI - D3 - O7	11:45-12:00	Jasper Schuurmans	Digital twins to design reactors for efficient photochemistry
CAI - D3 - O7	11:45-12:00	Laura Falivene	Chiral Deep Eutectic Solvents as Catalysts for Asymmetric Synthesis: A Machine Learning-Driven Molecular Dynamics Design Tool
Poster Flash	12:00		
CAI - D3 - F01		Lucia Warner	Automated design of peptide-based scavengers using MLIPs and Boltz2
CAI - D3 - F02		Ivkovic Zarko	Data-driven reactivity design through generative modeling with quantum chemistry validation
CAI - D3 - F03		Laux Anika	Comparative Modelling of Biological Methanation Reactors for Sustainable CO ₂ Conversion
CAI - D3 - F04		Zhang Chenfeng	Molecular Dynamics Insights into Ion Conduction and Gating Mechanisms of PKD2
CAI - D3 - F05		Levison Anna	The Role of Metal-Ligand Binding on Natural Product Inhibitors of Methyl-Coenzyme M Reductase
Lunch			

Session	Timing	Presenter	Title
CAI - D3 - I01	14:00-14:30	Rigoberto Hernandez	
CAI - D3 - O9	14:30-14:45	Ji Liu	Formation of oxynitrides under ambient condition during post-deposition process: an ab initio molecular dynamics study on the oxidation process of metal nitrides
CAI - D3 - O10	14:45-15:00	Hsin-Yi Tiffany Chen	Multiscale modeling of hydrogen coverage on Ru nanoparticle: a combined DFT, AIMD, and DPMD study
CAI - D3 - O11	15:00-15:15	Edoardo Panzetta	Computational study of N-methylacetamide (NMA) amide bond cleavage reaction in neutral and alkaline conditions
CAI - D3 - O12	15:15-15:30	Giulia Ciattaglia	A computational study of beta cyclodextrin-based nanosponge inclusion complexes
CAI - D3 - O13	15:30-15:45	Torsten John	From Mechanisms to Function: Computational Studies of Peptide Self-Assembly at Interfaces
CAI - D3 - O14	15:45-16:00	Horacio Poblete	Programmable Peptide–Graphite Interfaces for Water Bio-remediation: From Gly–X Sequence to Ion Capture
CAI - D3 - O15	16:30-16:45	Silvia Casassa	CRYSTAL, an ongoing project for a theoretical chemical approach to solids
CAI - D3 - O16	16:45-17:00	Marta Corno	Multiscale approaches to drug encapsulation and release in β -cyclodextrin-based systems
CAI - D3 - O17	17:00-17:15	Bónis Barcza	Including charge transfer states in fragment based exciton calculations
CAI - D3 - O18	17:15-17:30	Shang-Hao Chiang	DFT Insights into GaSe/InS Heterostructures for Visible-Light-Driven Water Splitting with High Solar-to-hydrogen Efficiency
CAI - D3 - O19	17:30-17:45	Thomas Jagau	Recent progress in computational Auger spectroscopy
CAI - D3 - O20	17:45-18:00	Alistair Sterling	Seamless integration of machine-learned interatomic potentials into quantum chemistry workflows with ChemRefine
Coffee break			

Thursday 16th July 2026

Session	Timing	Presenter	Title
CAI - D4 - O1	10:00-10:15	Rosie Gibson	The Evolution of AI in Scientific Searching
CAI - D4 - O2	10:15-10:30	Zhaochun Liu	A machine-learning-driven multiscale investigation of low-cost thermochemical heat storage materials based on LiCl–LiBr solid solutions
CAI - D4 - O3	10:30-10:45	Jorge J. Carbó	3D-QTAIM Descriptor-Based Modeling for Asymmetric Catalysis
CAI - D4 - O4	10:45-11:00	Cheng-Chung Wang	AI and statistical analysis for understanding stereoselective glycosylation reactions
CAI - D4 - O6	11:00-11:15	Tobe Vorsselmans	Water and CO Desorption from Amorphous Carbon Surfaces: A Computational and Experimental Study
CAI - D4 - O7	11:15-11:30	Yongsheng Huang	Multi-Scale Investigation Of Triboelectric Nanogenerator: An Expanded DFT Calculation Based on Machine Learning
CAI - D4 - O8	11:30-11:45	Joep Wals	Binding mechanism of UAMC-1110 to Fibroblast Activation Protein
Poster Flash	11:45		
CAI - D4 - F01		Weiser Jonas	Towards automated ensemble-averaged kinetics of reverse intersystem crossing in flexible TADF emitters
CAI - D4 - F02		Shekiladze Ilona	From Nature's Layers to Neural Layers: An AI and Machine Learning Approach to Tomato Preservation via an Edible Pseudoprotein Coating
CAI - D4 - F03		Kuchenbecker Vinicius	Theoretical study of collision induced dissociation mechanism for PO3G 77-59 m/z ion: When MS2 Energy Data and Quantum Chemistry reveals hidden molecular structures
Lunch			
CAI - D4 - I01	14:00-14:30	Francoise Remacle	Tentative title: Control of molecular reactivity with attopulses
CAI - D4 - O9	14:30-14:45	Marilù Maraldi	Realistic simulations of nonlinear optical photoswitches with novel all-atom quantum mechanical methodologies
CAI - D4 - O10	14:45-15:00	Markus Weiss	Asymmetrically-constrained Adiabatic ALMO-EDA: Designing Catalysts from First Principles
CAI - D4 - O11	15:00-15:15	Florian Matz	All correlation within a mean field: Assessment of i-DMFT and the modified Collins conjecture



Energy, Environment & Sustainability

Chemistry is recognized as the central discipline: providing the molecules and materials that allow the transition towards a more sustainable society. A primary challenge is the shift from fossil to renewable energy resources, which not only requires efficient energy harvesting, but also innovative molecular and materials solutions for effective energy storage and conversion. Electrification and hence electrolyzers, batteries, fuel cells, electrosynthesis and (photo)electrochemistry are important areas of current research to be highlighted within this topic.

Respecting environmental planetary boundaries requires multiple strategies, including but not limited to employing chemical analysis tools, deploying pollution control catalysts, limiting chemical pollution, developing remediation processes and sustainable synthetic strategies, and careful design of carbon, nitrogen and phosphorus cycles. A sustainable society calls for designing molecules and materials through green processes emphasizing circularity, as well as reducing and replacing critical raw elements and reducing chemical pollution of key environmental compartments, such as water, soil, air and built environment. Contributors to this topic will share the approaches they have taken and progress they are making toward addressing these scientific challenges.

Monday 13th July 2026

Queen Elisabeth Hall

Session	Timing	Presenter	Title
EES - D1 - O01	10:00-10:15	Athira Ravi	Supramolecular Architectures for Hydrogen Generation at Neutral pH Conditions
EES - D1 - O02	10:15-10:30	Prof. Maria Gimenez Lopez	Assembly-driven switching of a POM-carbon nanotube catalyst for acid water splitting
EES - D1 - O03	10:30-10:45	Haider Ali	Laser-Assisted Synthesis of High Entropy Oxide-based Freestanding Electrode for Electrochemical Water Splitting in Alkaline Conditions
EES - D1 - O04	10:45-11:00	Priya Mukherjee	Surface modified Nafion membrane for improved microbial fuel cell application
EES - D1 - O05	11:00-11:15	Di Berardino Giovanni	Impact of Stack Architecture on Stability and Lifetime of CO ₂ -to-CO Three Chamber Flow Electrolyzers.
EES - D1 - O06	11:15-11:30	Chiara Reviglio	Design and Performance Rationalization of Blue-Emitting Copper(I) Complexes Bearing Pyridyl-Pyrazole Ligands for Light-Emitting Electrochemical Cells
EES - D1 - O07	11:30-11:45	Jesús León García	CuO-based Ionanofluids as Advanced Working Fluids for High-Efficiency Solar Collectors

Session	Timing	Presenter	Title
Poster Flash			
EES - D1 - F01	11:45	Lin Ching_Hsuan	Activated Ester-Functionalized Poly(ethylene terephthalate) for Degradable Epoxy Thermo-sets and Recyclable Carbon Fiber Composites
EES - D1 - F02		Rigual-Miret Jordi	Photothermal/photocatalytic activation of peroxymonosulfate using SrFe ₁₂ O ₁₉ @Ni-P core@shell microparticles for energy efficient water remediation
EES - D1 - F03		Maria-Iuliana Chirica	Acid-modified MXenes as catalysts for upcycling PET by hydrolysis
EES - D1 - F04		Mata Patrícia	Valorization of Poly(methyl methacrylate) Waste through Pyrolysis
EES - D1 - F05		Vilariño Pol	Pollen-Based Photothermal Catalysts: A Sustainable Platform for Advanced Removal of Organic Pollutants and Microplastics
Lunch			
EES - D1 - I01	14:00-14:30	Ivan Halasz	In Situ Reaction Monitoring, Molecular Dynamics Simulations and Machine-Learning-Augmented Data Analysis in Deciphering Mechanochemical Transformations
EES - D1 - O08	14:30-14:45	Radovan Sebesta	Making asymmetric organocatalysis greener and more efficient through ball-milling
EES - D1 - O09	14:45-15:00	Davor Margetic	The Employment of Mechanochemistry for the Synthesis of Thioureas and Guanidines
EES - D1 - O10	15:00-15:15	Peter Baláž	Advances in sulphide mechanochemistry: From metal extraction to energy materials and anticancer drugs
EES - D1 - O11	15:15-15:30	Zara Cherkezova-Zheleva	Mechanochemical approach for greener and effective recycling of platinum group metals from spent automotive catalysts
EES - D1 - O12	15:30-15:45	Poljanec Leon	Mechanochemistry as a sustainable tool for (de)racemization of biaryl atropisomers
EES - D1 - O13	15:45-16:00	Bilge Baytekin	Chemical insights into triboelectric charging of polymers and organic powders
Coffee break			

Session	Timing	Presenter	Title
EES - D1 - O14	16:30-16:45	Yu Zhang	Regulating the Interfacial Electrochemical Behavior of Zinc Anodes for Stable Aqueous Zinc Ion Batteries
EES - D1 - O15	16:45-17:00	Reja Trippaers	Exploring Prussian blue as a safe-and-sustainable-by-design cathode material for sodium-ion batteries
EES - D1 - O16	17:00-17:15	Máté Benedek	Preparation and investigation of cross-linked polyacrylic acid-based hydrogel electrolytes in Zn-air batteries
EES - D1 - O17	17:15-17:30	Cataldo Valentini	Ambipolar donor-acceptor 2D covalent organic frameworks as cathode material for aluminum energy storage device
EES - D1 - O18	17:30-17:45	Philippe Lainé	Designing electrophoric covalent assemblies for molecular-level multielectron accumulation (charge pooling) and storage (in "reservoir" bonds)
Additional parallel session in Meeting Room Okapi 3			
EES - D1 - O19	16:30-16:45	Lucia Ferrazzano	Greener Peptide and PNA Synthesis for High-Value Pharmaceuticals: From Sustainable Methodologies to Industrially Relevant APIs
EES - D1 - O20	16:45-17:00	Stefan Hahn	Applying the SSbD concept in the development of biobased biodegradable polymers
EES - D1 - O21	17:00-17:15	Keikhosro Karimi	Integrated Biorefinery Design and Sustainability Assessment for Butyric Acid Production and Separation from Municipal Solid Waste
EES - D1 - O22	17:15-17:30	Andrei Ungureanu	Toward More Sustainable Silver Based Antimicrobial Materials: Life cycle Assessment (LCA) of Silver Nanoparticle Composites
EES - D1 - O23	17:30-17:45	Laura Fuentes Rodriguez	Rapid synthesis of nickel iron layered double hydroxide nanosheets for efficient oxygen evolution
EES - D1 - O24	17:45-18:00	Stijn Cosemans	An In-Depth Study of the Thermodynamics and Kinetics of the Structural Phase Transition of Hydrothermally Synthesized W/VO ₂ Microparticles

Tuesday 14th July 2026

Queen Elisabeth Hall

Session	Timing	Presenter	Title
EES - D2 - O01	10:00-10:15	Mohsen Gholami	Electrified Carbon Capture by Adsorption: Linking Adsorbent Formulation, Structure, and Regeneration Behavior
EES - D2 - O02	10:15-10:30	Gabriela Rodriguez Almaguer	Hierarchical porous silicas with tunable porosity for CO ₂ capture and separation
EES - D2 - O03	10:30-10:45	Deeksha Jaiswal	Zr-doped Ti ₃ C ₂ T _x MXene for enhanced CO ₂ capture and efficient catalytic conversion to value-added products
EES - D2 - O04	10:45-11:00	Adel Ismail	Resol Resin-Derived Carbon embedded in Mesoporous Magnesia Nanocrystalline Sorbents for Highly Efficient CO ₂ Capture and Multiple Regeneration Performances
EES - D2 - O05	11:00-11:15	Ali Abdel-Mageed	Porphyrin Molecular Mediators Enhancing the Hydrogenation of CO ₂ at the Liquid-Solid interface for Cu _x Au _y /ZnO Catalysts
EES - D2 - O06	11:15-11:30	Meseguer Ramon	CO ₂ Valorization via Ionic Liquids: A Tandem Process for the Synthesis of Cyclic Carbonates and Urethanes
EES - D2 - O07	11:30-11:45	Xue Xiaopan	Liquid-Solid Phase Separation-Assisted Direct CO ₂ Capture from Air with A New System
Poster Flash	11:45		
EES - D2 - F01		Vantomme Christine	Shining Light on Plasma Catalysis: Transparent DBD Reactors for CO ₂ Conversion
EES - D2 - F02		Matos Renata	Towards Greener Energy: Bio-Based Alternatives for Sodium-Ion Battery Components
EES - D2 - F03		Baláž Matej	Rapid combustive mechanochemical synthesis of metal chalcogenides for energy conversion applications
EES - D2 - F04		Da Silva Jaques João Pedro	Pt-Ru based nanomaterials enabling coupled cathodic hydrogen evolution and anodic formaldehyde oxidation in fuel cell systems
EES - D2 - F05		Nan Lan	Enhancing photosynthetic light utilisation with wavelength-shifting polymer films
EES - D2 - F08		Postole Georgeta	New insights in the tricky reaction of isopropanol dehydration to propylene
EES - D2 - F09		Templ Johanna	Decoding Mechanochemical Drivers: Experimental Isolation of Single Impact, Cumulative Energy, Aging and Liquid-Assisted Grinding Effects in Organic Mechanosynthesis
EES - D2 - F10		Lee Jaewon	Electrophilic Additive-Mediated Chemical Recycling of Trithiocarbonate-Terminated PMMA at High Polymer Concentrations
Lunch			

Session	Timing	Presenter	Title
EES - D2 - I01	14:00-14:30	Xenia Trier	Risk governance of chemicals of concern in a resilient Europe – insights from PFAS
EES - D2 - O08	14:30-14:45	Manuel Alejandro Andino Enriquez	From Atmospheric Deposition to Photochemical Transformation: Untargeted Detection and Phase-Dependent Fate of Acetophenone in Snow and Water
EES - D2 - O09	14:45-15:00	Gerhard Lammel	Air-soil exchange of PFAS – observations in rural central Europe and boreal forest
EES - D2 - O10	15:00-15:15	Oliver Salangad	Comprehensive PFAS characterization in contaminated soils by integrated target, suspect, and non-target analysis combined with dTOP assay
EES - D2 - O11	15:15-15:30	Michela Tramontini	From soil adsorption to bioavailability: environmental fate of a plant-derived biostimulant
EES - D2 - O12	15:30-15:45	Delphine Vandeputte	The influence of Cu and Cd additions on their bioavailability in uncontaminated soils
EES - D2 - O13	15:45-16:00	Adrian Covaci	Dynamics of emerging PFAS in a contaminated terrestrial ecosystem
Coffee break			
EES - D2 - O14	16:30-16:45	Christine Khoury	Studying the Synergistic Effect between LDH and P25 for Dyes Removal from Water
EES - D2 - O15	16:45-17:00	Bruno Henriques	Kraft lignin for efficient and sustainable mercury removal from aqueous systems
EES - D2 - O17	17:00-17:15	Peeters Ward	Assessment of CO ₂ Quality Across Capture, Liquefaction, and Storage in a Cement CCS Pilot Plant

Wednesday 15th July 2026

Queen Elisabeth Hall

Session	Timing	Presenter	Title
EES - D3 - O01	10:00-10:15	Pol Vilariño	Control of Electrocatalytic Levulinic Acid Valorization: Synergistic Tuning of Catalysts, Solvents, and Temperature
EES - D3 - O02	10:15-10:30	Teresa Andreu	Influence of Catalyst Composition and Temperature on Glycerol Electrooxidation in Continuous Flow Electrolysis
EES - D3 - O03	10:30-10:45	Justyna Luczak	Oxygen defected NiCo spinel structures for ammonia electrooxidation reaction: An experimental and theoretical approach
EES - D3 - O04	10:45-11:00	Matthias Vandichel	Modelling Metal Electrocatalysts as Cathodes: The Urgent Need to Look Beneath the Surface
EES - D3 - O05	11:00-11:15	Kavin Teenakul	Enhancing Performance of Electrochemical Reactors through Pulsatile Electrolyte Flow and 3D-Printed Electrodes
EES - D3 - O06	11:15-11:30	Irene Motta	High performance LSCs based on PMMA/oligothiophene thin films: a slot die coating approach
EES - D3 - O07	11:30-11:45	Soichi Kikkawa	Non-equilibrium electrochemical synthesis of metastable Cu-In intermetallic compounds for CO ₂ electroreduction
Poster Flash 11:45			
EES - D3 - F01		Markowski Robert	Amorphous Coordination Polymers for Versatile Mg ²⁺ , Ca ²⁺ , Sr ²⁺ , Ba ²⁺ , and Zn ²⁺ Cation Storage
EES - D3 - F02		Baytekin Bilge	Chemical insights into triboelectric charging of polymers and organic powders
EES - D3 - F03		Brandi Francesco	Catalytic depolymerization of commercial grade polyurethane sponge using Ru- supported heterogeneous catalysts
EES - D3 - F04		Itri Giulia Maria	Waste Meets Waste: Upcycling Spent Li-Ion Battery-Derived Materials into Pd-Based Catalysts for Biomass Valorization
EES - D3 - F06		Kulagova Alice	Ammonia photooxidation using Ru catalyst anchored on C ₃ N ₄ nanoparticles
Poster Flash 12:00			

Session	Timing	Presenter	Title
EES - D3 - F07		León García Jesús	Synergistic Thermal and Stability Effects of Al ₂ O ₃ -ZnO Hybrid Nanofluids in Solar Thermal Collectors
EES - D3 - F08		Tayyebi Ahmad	Photoelectrochemical Solar Ammonia Production
EES - D3 - F09		Salierno Giuseppe	Lignin acidolysis via a βO4 model compound: an improvement based on heterogeneous superacid catalysis
EES - D3 - F10		Barbagallo Claudia	Innovative heterobimetallic precursors for multifunctional fluoride materials
EES - D3 - F11		Casadevall Serrano Carla	Novel molecular and polymersome-based systems for photocatalytic CO ₂ reduction, towards compartmentalized artificial photosynthesis
Lunch			
EES - D3 - I01	14:00-14:30	Audrey Moores	Green and sustainable nanomaterials chemistry
EES - D3 - O08	14:30-14:45	Ruey-An Doong	MoS ₂ -supported nickel single-atom catalysts for the enhanced photoelectrocatalytic hydrogen production from water splitting
EES - D3 - O09	14:45-15:00	Simone Galliano	Maltodextrin-based electrolytes at work in safe aqueous dye-sensitized solar cells for ambient light harvesting
EES - D3 - O10	15:00-15:15	Christian Mark Pelicano	Boosting the Quantum Efficiency of Ionic Carbon Nitrides for Solar-Driven Fuel Synthesis
EES - D3 - O11	15:15-15:30	Lorenza Romagnoli	Substituting selenium for sulfur for efficient tuning of properties in BaZrS ₃ perovskite for photovoltaic applications
EES - D3 - O12	15:30-15:45	Abraham Solomon Kasa	Precursor-Driven Reconfiguration of Bulk and Interface Enhances the Solar-Driven Water-Splitting Performance of Carbon Nitride Photoanode
EES - D3 - O13	15:45-16:00	Giulia Forghieri	An operando AP-NEXAFS study on CO ₂ photoreduction with Cu-NPs supported by photoactive materials
Coffee break			

Session	Timing	Presenter	Title
EES - D3 - O14	16:30-16:45	Thainara Viana Ferreira	A Green Chemistry Strategy for Rare Earth Element Recovery from Acid Mine Drainage Using Living Biomass
EES - D3 - O15	16:45-17:00	Giorgio Grillo	Integrated Subcritical Water Extraction and Membrane/Resin Fractionation for Circular Valorization: Chestnut Wood Residues into Tannin-Based Biopolymers
EES - D3 - O16	17:00-17:15	Lisa Royer	From Industrial Waste to Smart Windows: Circular Recovery and Upcycling of Vanadium for Advanced Thermochromic Coatings
EES - D3 - O17	17:15-17:30	Roy Maas	Impact of Mixed Polymer Streams and Contaminants on Radical-Initiated Polymer Degradation
EES - D3 - O18	17:30-17:45	Attila Kovacs	Statistical entropy analysis for the evaluation of polymer complexity and circularity
EES - D3 - O19	17:45-18:00	Van Leuven Hendrik	Hydrothermal pretreatment improving in-situ catalytic pyrolysis of plastic waste feedstocks
Additional parallel session in Meeting Room Okapi 3			
EES - D3 - O20	16:30-16:45	Debora Fabbri	Cross-regional LC-HRMS suspect and non-target screening of contaminants in rivers and aquaculture waters
EES - D3 - O21	16:45-17:00	Michele Forza	Improved hydrophobicity of ZIF-90 Metal-Organic Frameworks for the removal of fluorinated pollutants from water
EES - D3 - O22	17:00-17:15	Amila Hajdarević	Simultaneous Determination of Thirteen Antidiabetic Drugs in Wastewater Using a Novel LC-MS/MS Method
EES - D3 - O23	17:15-17:30	Alessandro Bollella	Integrated Analytical Strategies Supporting Risk Assessment of Emerging Contaminants in Marine Ecosystems
EES - D3 - O24	17:30-17:45	Roland Kallenborn	Application and integration of modern trace analytical methods for remediation and pollution emission control in sewage and drinking water treatment
EES - D3 - O25	17:45-18:00	Damjan Rajaković	Exploring the use of ceramic passive samplers for urban wastewater monitoring

Thursday 16th July 2026

Queen Elisabeth Hall

Session	Timing	Presenter	Title
EES - D4 - O01	10:00-10:15	Bing Bai	Enhancing Low-Temperature CO ₂ Methanation via Nickel Electronic Structure Engineering
EES - D4 - O02	10:15-10:30	Francesco Sastre	Solar-driven CO ₂ to methanol production
EES - D4 - O03	10:30-10:45	Jose Javier Delgado-Marin	Engineering Biopolymeric Adsorbents with Ionic Liquids for Efficient CO ₂ Capture
EES - D4 - O04	10:45-11:00	Sung-Fu Hung	Model Thiophene-Decorated Nickel Porphyrins for Tandem CO ₂ Reduction
EES - D4 - O05	11:00-11:15	Thijs Van Thillo	Microcrack-engineered gas diffusion layers to mitigate flooding in Zero-Gap CO ₂ electrolyzers for CO production
EES - D4 - O06	11:15-11:30	Natalia Maria Mazur	Benchmarking Commercial Anion Exchange Membranes for CO ₂ Electroreduction to Ethylene
EES - D4 - O07	11:30-11:45	Jiaqi Feng	Research on Electrocatalyst Design and Electrolyzer Scaling for Efficient CO ₂ Electroreduction
Poster Flash	11:45		
EES - D4 - F02		Monir Mohammad	A Systematic Computational Screening for Discovery of Low-Cost, Sustainable Thermochemical Heat Storage Materials
EES - D4 - F03		Rita Veloso	Presodiation as a key strategy for stabilizing sodium-ion batteries
EES - D4 - F04		Bonitz Lena	Polyhalite Stability in Salt Solutions at 25 °C : A Long-Term Investigation
EES - D4 - F05		Faria Joaquim	Light-matter interactions in carbon nitride-based photocatalysis
EES - D4 - O06		Buchinger Richard	Enhancing Faradaic Efficiency in Electrochemical CO ₂ reduction via Fermentation-derived Acid Intermediates
EES - D4 - F07		Ghosh Chandrika	Transformation of PET-derived 1,4-benzenedimethanol to make useful alcohols
EES - D4 - F08		Andueza Félix	Heavy metals in soils of the Chilean scientific station Julio Escudero in Antarctica
EES - D4 - F09		Vasudevarao Bakuru	A hexaanionic carboxyphenolate framework for high energy alkali cation storage

Session	Timing	Presenter	Title
Poster Flash			
EES - D4 - F10	12:00	Ramackers Augustin	Bimetallic Anionic Organic Frameworks with Solid-State Cation Conduction for Charge Storage Applications
EES - D4 - F11		Alessandra Imbrogno	Green and Wearable Energy Storage: Fully Sustainable Solid-State Supercapacitors Using Pectin Derived Laser Induced Graphene and Pectin Electrolyte Systems
EES - D4 - F12		Kumar Sihag Anil	Scalable Electrodeposited Bismuth Gas Diffusion Electrodes for Selective CO ₂ -to-Formate Electrolysis in Flow Cell
EES - D4 - F13		Gaur Ashish	Acid Corrosion Induced Lattice Strain in the Multimetallic LDH Structure for the Electrocatalytic Water Splitting
EES - D4 - F14		Al Shbib Rayane	Sustainable CeO ₂ /CoFe ₂ O ₄ Catalysts for the Total Oxidation of Mixed VOC-CO Emissions: From Activity to Mechanism
EES - D4 - F15		Azizi Jafar	Atomic-scale mechanisms of alkali-metal adsorption and clustering on graphitic surfaces
EES - D4 - F16		Wankar Shashwati	Dual Ion-Imprinted Chitosan-PVA-Methyl Cellulose Hydrogel microbeads for selective capture of Cr (VI) and Hg (II) from aqueous matrices
Lunch			
EES - D4 - I01	14:00-14:30	Javier Pérez-Ramírez	Catalysis and sustainability for atom to planet
EES - D4 - O08	14:30-14:45	Michael Reid	Electrochemical Hydrogenation Using Dispersed Catalytic Particles
EES - D4 - O09	14:45-15:00	Haoxiang Yan	Development of Catalyst Systems for Polyethylene Recycling by Hydrogenolysis
EES - D4 - O10	15:15-15:30	Devanshu Sajwan	Establishing Structure-Acidity-Performance Relationships in Zeolite Catalyzed Lignin Pyrolysis of Aromatics Production
EES - D4 - O11	15:30-15:45	Zhenlei Zhang	Strategic Catalytic Approaches for the Selective Depolymerization and Targeted Defunctionalization of Lignin

Innovative Materials

The discovery of new materials with specific properties is a milestone driving innovation across all sectors of science and technology. This theme is dedicated to research that enables a more sustainable use of the planet's resources, allowing for substantial progress in the fields of energy and electronics. The sessions will highlight both fundamental innovation and application-driven development, connecting fundamental advances with major societal challenges in energy, environment, and health. This theme aims to stimulate discussion on how innovative materials research can shape the next decade.

Monday 13th July 2026

Gorilla room 1

Session	Timing	Presenter	Title
IM - D1 - O01	10:00-10:15	Gianluigi Albano	Emergent giant chiroptical response in thin films of a chiral organic dye
IM - D1 - O02	10:15-10:30	Chiara Baldi	Porphyrin-based Molecular Qubits: Spin-polarization mechanisms and surface deposition strategies
IM - D1 - O03	10:30-10:45	Sergio Moles Quintero	Unveiling Diradical Control of Single-Molecule Conductance: Beyond the HOMO-LUMO Picture
IM - D1 - O04	10:45-11:00	Escorihuela López Enrique	Molecular templates as platforms for controlled surface fabrication of molecular electronic devices
IM - D1 - O05	11:00-11:15	Jesus Alejandro De Sousa Rodriguez	Chemically tuning the intersystem crossing in SWCNTs towards quantum sensing
IM - D1 - O06	11:15-11:30	Garoé Medina-Aguilar	Novel pressure-driven halide substituted spin crossover complexes
IM - D1 - O07	11:30-11:45	Samara Medina Rivero	Triangulating Molecular Qubits
Poster Flash 11:45			
IM - D1 - F01		João Rodrigues	Exploring bioinspired complex coacervates as carriers of cell-loaded liquid-core capsules for biomedical applications
IM - D1 - F03		Catherine Amiens	Easy access to ϵ -Fe ₂ N nanomaterials from Fe nanocrystals
IM - D1- F04		Mujahid Mustaqeem	Circularly Polarized Spin Light Emitting Diodes from Chiral Two-Dimensional Superlattices

Session	Timing	Presenter	Title
Lunch			
IM - D1 - I01	14:00-14:30	Paolo Falcaro	ZIF Biocomposites and the Synthesis-Property Relationship
IM - D1 - O09	14:30-14:45	Chaohui He	Efficient Olefin/Alkane Separation via In-situ Cyano-Transformed Metal-Organic Frameworks
IM - D1 - O10	14:45-15:00	Alessandro Pedrini	Macrocycles-based porous organic polymers: enabling selective molecular separations and more
IM - D1 - O11	15:00-15:15	Ivana Biljan	Azo-linked porphyrin-based porous organic polymers for efficient CO ₂ capture: an integrated approach
IM - D1 - O12	15:15-15:30	Maarten Smulders	On the importance of balancing the pK _a of the additive in β -ketoenamine COF synthesis
IM - D1 - O13	15:30-15:45	Alexander Cruz	Metal-organic frameworks by vapor deposition processes: polymeric porous materials for integrated applications
IM - D1 - O14	15:45-16:00	Alejandro Martinez Bueno	Nanoporous Liquid Crystal Networks as metallic nanoparticle templates
Coffee Break			
IM - D1 - O15	16:30-16:45	Filip Meysman	A brand new biomaterial for sustainable electronics: how bacteria invented MOF-based quantum wires ~500 millions years ago
IM - D1 - O16	16:45-17:00	Dirk Volkmer	Functional K _{3,3} ("Kuratowski") Building Units in Materials Chemistry: Past, Present, and Future
IM - D1 - O17	17:00-17:15	Paolo Cleto Bruzzese	Spectroscopic mapping of tunable metal arrangements in metal-organic polyhedra and frameworks
IM - D1 - O18	17:15-17:30	Wafaa Ahmed Mohamed	Bismuth-based metal-organic frameworks as defect-engineered platforms for advanced optical applications
IM - D1 - O19	17:30-17:45	Min Ying Tsang	A Strategy to enhance photon upconversion emission in lanthanide metal-organic frameworks
IM - D1 - O20	17:45-18:00	Hilal Kalkan	Design and Structural Characterization of a Novel Corrole-Based Covalent Organic Framework (COF): A Strategic Approach for Metal Ion Sequestration

Tuesday 14th July 2026

Gorilla room 1

Session	Timing	Presenter	Title
IM - D2 - O01	10:00-10:15	M. Ángeles Herranz	Carbon Dots as Multifunctional Materials for Applications in Electronics, Catalysis, and Biomedicine
IM - D2 - O02	10:15-10:30	Annael Sort-Montenegro	Fast and Programmable Electro-Active Hydrogel Micro-Actuators Fabricated via 2PP
IM - D2 - O03	10:30-10:45	Ileana Alexandra Pavel	One-step industrially scalable process for Multifunctional hybrid microparticles
IM - D2 - O04	10:45-11:00	Jordi Volders	Size-dependent induction heating properties of octahedron-shaped Fe ₃ O ₄ nanoparticles near the multi-domain limit for (de)bonding on demand applications
IM - D2 - O05	11:00-11:15	Marta Ruiz-Bermejo	From Prebiotic Chemistry to Nanostructured Materials: One-Pot Synthesis of Multi-functional C–N Systems from Diaminomaleonitrile for Photocatalytic Applications
IM - D2 - O06	11:15-11:30	Miguel Alexandre Ramos Docampo	One-step synthesis of micrometer scale chiral gold materials
IM - D2 - O07	11:30-11:45	Oussama Mehelli	Boron-containing phthalonitrile thermosets for enhanced thermal neutron shielding
IM - D2 - O08	11:45-12:00	Morgane Van Hove	ETS-10 coated honeycombs as possible candidate for CO ₂ capture in humid flue gas streams
Poster Flash 12:00			
IM - D2 - F01		GuanLin Wu	Impact of acceptor strength and backbone planarity on the charge transport of D-A conjugated polymers
IM - D2 - F02		Brent Van Ballaer	Applying dissociative chemistry to obtain gradient hydrogels
IM - D2 - F03		Michal Rezanka	Cyclodextrin-Based Sorbents for Water Remediation
IM - D2 - F04		Guangyuan Feng	In-situ Growth of Bilayer COF Heterojunctions for Memristor Devices
Lunch			

Session	Timing	Presenter	Title
IM - D2 - I01	14:00-14:30	Silvia Gross	Sustainable inorganic materials chemistry: tools and boundaries to rationally navigate the experimental parameters space
IM - D2 - O09	14:30-14:45	Giorgio Tofani	Circular lignin epoxies: activation and functionalisation for BPA-free, self-healing thermosets
IM - D2 - O10	14:45-15:00	Jonas Cassimon	Tagging for circularity: fluorescent tagging of polycondensation polymers to enable efficient sorting and enhancing recycling
IM - D2 - O11	15:00-15:15	Elisa Giovanna Faggioli	Paper made greener: replacing commercial retention and wet strength additives with nanocellulose-based materials
IM - D2 - O12	15:15-15:30	Maite Maguregui	Preserving the Past with Greener Materials: Multifunctional Nanocellulose Hydrogels and Cryogels for Cultural Heritage Conservation
IM - D2 - O13	15:30-15:45	Rut Sisó-Moliné	Sustainable Preparation of Nitrogen-Doped Carbon Dots for Improved Luminescent Sensing
IM - D2 - O14	15:45-16:00	Anca Gabriela Mirea	Hydrazone-based covalent organic frameworks
Coffee Break			
IM - D2 - O15	16:30-16:45	Al-Amin Dhirani	From nano building-blocks to a new class of 2-D nanosheets
IM - D2 - O16	17:00-17:15	Paola La Magna	Polymorphism in 2D HOIPs: Elastic and Optical Structure–Property Relationships
IM - D2 - O17	17:15-17:30	Ian Machado	Exploring the Er,Yb upconversion system for thermometry in the first biological window
IM - D2 - O18	17:30-17:45	Elisabeth Mayerhöfer	photoCORM functionalized nanodiamond particles as a novel tool for targeted tumour therapy
IM - D2 - O19	17:45-18:00	Arad Lang	Thermally stable binary two-dimensional hybrid organic-inorganic perovskite glasses

Wednesday 15th July 2026

Gorilla room 1

Session	Timing	Presenter	Title
IM - D3 - O01	10:00-10:15	Just Pé Jonasse	Nanoscale Strain-Engineering Controls Hydrogen Reactivity in Nanoparticle Catalysts
IM - D3 - O02	10:15-10:30	Jessi Van Der Hoeven	Strain-Modulated Hydrogen-Deuterium Exchange over Au-Pd Core-Shell Nanocatalysts
IM - D3 - O03	10:30-10:45	Jennifer Hong	Rationalizing Compositional Effects of High Entropy Alloy Nanocrystals on Electrocatalysis
IM - D3 - O04	10:45-11:00	Marc Morant Giner	A novel coordination polymer made from lanthanide nodes and ferrocene-based linkers with notable hydrogen evolution reaction activity
IM - D3 - O05	11:00-11:15	Michal Otyepka	Single-Atom Chemistry on Functionalized Graphene Platforms
IM - D3 - O06	11:15-11:30	Oliver Diwald	Intergranular Chemistry inside Metal Oxide Compacts and Sintering
IM - D3 - O07	11:30-11:45	Paolo Fichera	Copper-Modified Hydroxyapatite Surfaces as Catalysts in Environmental Processes: A Computational Perspective
Poster Flash		11:45	
IM - D3 - F01		Jie Zhang	From 1D to 2D: On-Surface Synthesis of Conjugated Polydiacetylene Monolayers
IM - D3 - F02		Elien Dervaux	Beware of the structure: Insights into the Phosphorus Dynamics of post-synthetically modified NU1000 in the presence of water
IM - D3 - F03		Michela Tramontini	Bio-based polymeric films for the photocatalytic degradation of contaminants of emerging concern in aqueous media
IM - D3 - F04		Debora Briganti	Engineering nanoscale amorphous calcium phosphate through molecular and polymeric stabilization strategies
Lunch			

Session	Timing	Presenter	Title
IM - D3 - I01	14:00-14:30	Maria Lukatskaya	Engineering local chemical environments for sustainable energy systems
IM - D3 - O09	14:30-14:45	Thomas Fässler	Boosting room-temperature lithium-ion conductivity in lithium phosphide and antimonide above 40 mS/cm
IM - D3 - O10	14:45-15:00	Tom Althaus	Electrosynthesis of Molecular Cluster Assembly Materials with Hierarchical Porosity
IM - D3 - O11	15:00-15:15	Paula Barbosa	Biopolymer-Based Solid Electrolyte Membranes for Sustainable Electrochemical Energy Devices
IM - D1 - F04	15:15-15:30	Kezia Sasitharan	When Frameworks Breathe: Soft MOFs for light-driven self-cooling energy storage
IM - D3 - O13	15:30-15:45	Irene Motta	Bifunctional luminescent Eu ³⁺ -doped PMMA for Building-Integrated Photovoltaics and visible-blind UV sensing
Coffee Break			
IM - D3 - O15	16:45-17:00	Farnoosh Hormozinezhad	Additively Manufactured Biomass-Based 3D Carbon Frameworks as Tunable Supports for Non-Noble HER Catalysts
IM - D3 - O16	17:00-17:15	Isabel Barbosa	3D-Printed Photocatalytic Reactors: Integrating Stereolithography with Hybrid TiO ₂ Materials
IM - D3 - O17	17:15-17:30	Alina Petrovskaja	Metal (oxo)clusters as photoinitiators: a direct route to covalently integrated PEGDA-hybrid hydrogels
IM - D3 - O18	17:30-17:45	Stefano Ippolito	Harnessing the Chemistry of Two-Dimensional Materials
IM - D3 - O19	17:45-18:00	José A. Pomposo	Turning PVC Waste into Value: Upcycled PVC-Based Single-Chain Nanoparticles for Catalytic Applications

Thursday 16th July 2026

Gorilla room 1

Session	Timing	Presenter	Title
IM - D4 - O01	10:00-10:15	Almudena Marti	Interface-Engineered MoS ₂ Photo-Nanozymes as Multifunctional Materials for Precision Catalytic Cancer Therapy
IM - D4 - O02	10:15-10:30	Alexandre Lancelot	Multidentate catechol-functionalized biomimetic dendrimers: self-assembly and adhesion
IM - D4 - O03	10:30-10:45	Pierangelo Metrangolo	Brominated tyrosines: From pathology biomarkers to the design of resilient and strain-stiffening peptide-based materials (was rescheduled to D1)
IM - D4 - O04	10:45-11:00	Shubham Tiwari	From Laboratory to Reality: Surface Engineering by Hydrogel Transfer Printing.
IM - D4 - O05	11:00-11:15	Carlotta Pontremoli	Efficient Immobilization and Recovery of the C-H Bond-Activating LsAA9A on Functionalized Mesoporous Silica
IM - D4 - O06	11:15-11:30	Imogen Riddell	Enhanced stability and reusability of recombinant silicatein upon biomimetic metal-organic framework crystallization
IM - D4 - O07	11:30-11:45	Elena Lagreca	Rheology-guided development of polymeric microneedles for controlled delivery of pembrolizumab in triple-negative breast cancer
Poster Flash 11:45			
IM - D4 - F02		Maria Gutiérrez-Blanco	Molybdenum sulfide - chitosan hydrogels as model platforms for the delivery of Antibody-Drug Conjugates
IM - D4 - F04		Albert Serrà Ramos	Electrospun TiO ₂ / BiOI heterostructured nanofibers for solar-driven water decontamination
IM - D4 - F02		Sama Al Jintan	Uncovering synthesis-structure-function relationships in ZnFe ₂ O ₄ @TiO ₂ Z-scheme photocatalysts
Lunch			

Session	Timing	Presenter	Title
IM - D4 - I01	14:00-14:30	Bruno Grignard	When CO ₂ replaces isocyanates in Polyurethane Foams: From Rapid Room-Temperature Self-Blowing Processing to End-of-Life Solutions
IM - D4 - O09	14:30-14:45	Larisa Florea	Functional Hydrogel Microstructures: Design, Fabrication and Stimulus-Induced Actuation
IM - D4 - O10	14:45-15:00	Marco Carlotti	Two-photon lithography as enabling technology for the fabrication of conformal electrodes on 3D microstructures and devices
IM - D4 - O11	15:00-15:15	Robin Dantinne	Understanding plasma polymerization using complex geometry substrates : a step toward the design of gradient nanostructures
IM - D4 - O12	15:15-15:30	Patrycja Wytrych	PDMS-based nano- and microstructures for tailoring optical properties across the hyperspectral range

Molecular Design & Reactivity

This theme is dedicated to advancing the fundamental knowledge of molecular design, chemical reactivity, and the creation of new functional systems, driving innovations across molecular and materials science with important societal applications supporting our quality of life. It covers a broad spectrum of modern synthetic chemistry, including organic, inorganic, and hybrid organic/inorganic synthesis. This includes synthetic method development, as well as its fundamental understanding. A key focus is catalysis, encompassing thermal and alternative activation methods such as mechanochemistry, light, and microwave activation. The theme places strong emphasis on detailed mechanistic studies in both organic and inorganic chemistry, including both experimental and theoretical approaches to understand reaction pathways. The scope encompasses the chemistry of complex systems, including the coordination chemistry of transition metals, lanthanides, and actinides, as well as organometallic chemistry and supramolecular and metallosupramolecular chemistry. A significant area is the rational design and crystal engineering of organic, inorganic, and hybrid solid-state architectures, driven by the understanding of intermolecular interactions. This leads to the creation of advanced functional materials such as molecular machines, coordination polymers, MOFs, COFs, and HOFs, as well as molecular magnetic, luminescent, and conductive materials. Finally, the theme addresses stereocontrol through asymmetric synthesis, and embraces resource-efficient syntheses, including renewable feedstocks. This collective focus highlights the pivotal role of synthetic chemistry in enabling future technologies.

Monday 13th July 2026

Marble Hall

Session	Timing	Presenter	Title
MDR - D1 - O01	10:00-10:15	Stanislav Petrovskii	Thiophene functionalized hexavanadate hybrids: modular synthesis and studies of their adsorption on Au(111) surfaces and gold nanoparticles
MDR - D1 - O02	10:15-10:30	Kilian Declerck	Ligand Exchange in Zr/Hf-Oxo Clusters: Mechanistic Insights and Implications for Catalysis
MDR - D1 - O03	10:30-10:45	Aleksandra Masulovic	Charged pathways in bent-core design: Pyridine scaffolds for next-generation soft materials
MDR - D1 - O04	10:45-11:00	Paula Novella-Rodríguez	Structure-dependent Antimicrobial Activity of Polyoxometalate-Polypeptide Hybrid Materials
MDR - D1 - O05	11:00-11:15	Cuilian Liu	Polyoxometalate-based Metal-Organic Assemblies Towards Supramolecular Catalysis and Functional Materials
MDR - D1 - O06	11:15-11:30	Pierre Picchetti	Designing Nature-Inspired Multifunctional Nanomaterials through Silsesquioxane Chemistry

Session	Timing	Presenter	Title
MDR - D1 - O07	11:30-11:45	Luísa do Vale	Stimuli-responsive amino acid-based surfactants as nanovectors for biomedical applications
MDR - D1 - O08	11:45-12:00	Many Hemati	Enantioselective Radical Synthesis of β -Lactams via Co(II)-Based Metalloradical Catalysis Enabled by Ligand Innovation
Poster Flash 12:00			
MDR - D1 - F01		Martin Gill	Green(er) synthesis of MLCT-emissive ruthenium(II) polypyridyl complexes
MDR - D1 - F02		Luiz Carlos Silva-Filho	Anthrazoline derivatives as photoinitiators for photopolymerization reactions: studies about the synthesis and application.
MDR - D1 - F03		Tristan Mairath	Design of chiral ligands based on the reaction of α -functionalized lithium alkyls with iminium salts
MDR - D1 - F04		Miriam Gulman	Molecular design of peptidic ligands for cortactin-SH3
MDR - D1 - F05		Oleksandr Liashuk	Synthesis and application of alkylstannatranes: Versatile precursors for C(sp ³)-C(sp ²) cross-coupling
MDR - D1 - F06		Mina Bathen	Synthesis of n-3 Polyunsaturated Docosahexaenoic Acid-Like Methoxylated Ether Lipid
Lunch			
MDR - D1 - I01	14:00-14:30	Eva Rentschler	Chiral Metallocrown Complexes
MDR - D1 - O09	14:30-14:45	Brecht Koek	Moiré superlattices from bilayers of synthetic 2D polymers: on-surface synthesis and defects
MDR - D1 - O10	14:45-15:00	Cataldo Valentini	Tailored 2D covalent organic frameworks with ambipolar repeating units as cathode material for aluminum energy storage device
MDR - D1 - O11	15:00-15:15	Louis Van Nyvel	Effect of size, charge, and spin state on Hückel and Baird aromaticity in [N]annulenes
MDR - D1 - O12	15:15-15:30	Dennis Svatunek	Reactivity Models for Tetrazine-Based Bioorthogonal Reactions
MDR - D1 - O13	15:30-15:45	Felix Plasser	Molecular design beyond the frontier molecular orbital picture
MDR - D1 - O14	15:45-16:00	Christoph Plett	SURFF: A New Simple, Universal and Robust Force Field for Large-Scale Molecular Modeling in ORCA
Coffee Break			

Session	Timing	Presenter	Title
MDR - D1 - O15	16:30-16:45	Koen van Aken	Scalable and Sustainable Heteroatom Oxidation in Continuous Flow
MDR - D1 - O17	16:45-17:00	Serhly Ryabukln	Turning Oxetanes into Predictable Building Blocks through Reactivity and PhysChem Mapping
MDR - D1 - O18	17:00-17:15	Matthas Stein	Simulating proteins with disulfide bonds under reducing conditions
MDR - D1 - O19	17:15-17:30	Jiacheng Li	Asymmetric synthesis of stereogenic-at-sulfur compounds via biocatalytic oxidation with unspecific peroxygenases
MDR - D1 - O21	17:30-17:45	Dr. Joachim Demaerel	Fluorothiazynes as SuFEx Ambiphiles: Interconversion to Aminosulfurdiimidoyl Fluorides
MDR - D1 - O22	17:45-18:00	Prof. Michael Meanwell	Synthetic Strategies for Building and Editing Nucleoside Analogues

Tuesday 14th July 2026

Marble Hall

Session	Timing	Presenter	Title
MDR - D2 - O01	10:00-10:15	Ashwini Mishra	Waste reduction and utilisation in alkyl halide synthesis: Development of "low waste" catalytic synthetic methodology
MDR - D2 - O02	10:15-10:30	Frank De Kleijne	Anchimeric assistance of acyl neighboring groups as stereodirecting strategy in synthesis: What can we learn from glycoscience?
MDR - D2 - O03	10:30-10:45	Panagiotis Kalomenopoulos	Enantioselective synthesis of α -aryl propionyls via a cobalt-catalysed cationic semipinacol rearrangement
MDR - D2 - O04	10:45-11:00	Kaan Karaca	Sustainable N-Arylation of Imidazoles Enabled by Copper Single-Atom Catalysts
MDR - D2 - O05	11:00-11:15	Cristiana Margarita	Electrochemical desulfurative borylation of thiols, disulfides, thioethers and thioacetals
MDR - D2 - O06	11:15-11:30	Ching-Wen Chiu	Catalytic Applications of Di-Substituted Boron and Aluminum Cations
MDR - D2 - O07	11:30-11:45	Maurizio Benaglia	Telescoped synthesis of chiral APIs: in flow electrochemical and photoredox catalytic reactions
MDR - D2 - O08	11:45-12:00	Serhiy Ryabukhin	Serendipity Results as a Driving Force for Novel Reaction Development

Poster Flash 12:00			
MDR - D2 - F01		Giulia Marcolli	Synthesis of bispidine-based fluorinated chemosensors for selective analytes recognition
MDR - D2 - F02		Navathej Preetha Genesh	The Two-Dimensional Locksmith: Ligand-Driven Structural Changes in Self-Assembled Supramolecular Networks of Bisporphyrin Cages at the Solid-Liquid Interface
MDR - D2 - F03		Vincent Nilsson	Boracycle-mediated aromatic C-H ortho-methylation using methanol as a methylating reagent
MDR - D2 - F04		Bárbara Sampaio	Innovative scaffolds based on 4-hydroxyproline as chemical permeation enhancers, for transdermal drug delivery
MDR - D2 - F05		Maryam Butt	Synthesis of Fluorinated Partially Saturated Bicyclic Drug Scaffolds
Lunch			
MDR - D2 - I01	14:00-14:30	Sebastian Riedl	From Laboratory Curiosities to Industrial Applications: the World of Halogens
MDR - D2 - O09	14:30-14:45	Dr. Olexandr Pashenko	Sustainable Cubane Supply Unlocks Cuneanes as Common Tools for Medicinal Chemistry
MDR - D2 - O10	14:45-15:00	Dr. Dmytro Leha	Turning a Bottleneck into a Tool: Rawal's Diene Case
MDR - D2 - O11	15:00-15:15	Paul Nolan	Highly Stereoselective Synthesis of Bioisosteric Fluorinated 3-azabicyclo[3.1.0]hexane Scaffolds via Asymmetric Cu Catalysed (3+2) Cycloadditions
MDR - D2 - O12	15:15-15:30	Khaleel Zareen	Expanding Drug-Relevant Chemical Space Through Pt-Au Bimetallic Catalysis
MDR - D2 - O13	15:30-15:45	Maria Voccia	A Plausible Model for Tightly Bound Single Metal Atoms on Carbon Nitride for Computational Studies on Single Atom Catalysis.
MDR - D2 - O14	15:45-16:00	Agathe Fayolle	Diastereoselective Access to α -Hydroxy-Lactams Through Carbene-Carbonyl Cyclization
Coffee Break			
MDR - D2 - O15	16:30-16:45	Laura Thirion	Rh(III)-Catalyzed Room-Temperature Heterobiaryl Synthesis: Elucidating the Complementary Roles of Cp-Ligand Design and Ag(I) Salts
MDR - D2 - O16	16:45-17:00	Dr. Maria Koyioni	Synthesis of canthin-4-ones and related molecules
MDR - D2 - O17	17:00-17:15	Prof. Henrik Sundén	Selective Boron-Based Ortho-Directed Functionalization Strategies of Aromatic Substances
MDR - D2 - O18	17:15-17:30	Dr. Charlie McTernan	Direct Active Template Synthesis of Cyclic Peptide Catenanes
MDR - D2 - O19	17:30-17:45	Gibrael Fadel	A Metal-Free Iminium-Driven Synthesis of Amines from Alkenes
MDR - D2 - O20	17:45-18:00	Dr. Jake Greenfield	Using Photoswitchable Imines to Drive (dark) Transamination Reactions Uphill

Wednesday 15th July 2026

Marble hall

Session	Timing	Presenter	Title
MDR - D3 - O01	10:00-10:15	Jack Wright	Synthesis and application of large, water-soluble [FeII4L6] tetrahedra
MDR - D3 - O02	10:15-10:30	Florian Mulks	Stabilising Divalent Carbocations Through Donor-Coordination
MDR - D3 - O03	10:30-10:45	Mengmeng Wang	Effect of Aromatic Substitution on Spin Crossover in [Fe(H2Bpz2)2(bipy-R)] Iron(II) Complexes
MDR - D3 - O04	10:45-11:00	Richard Röß-Ohlenroth	Functionality Fine-Tuning in 1,2,3-Triazolate-Based Coordination Frameworks
MDR - D3 - O05	11:00-11:15	Andrea Biffis	Enhancing diversity in organometallic, atomically precise gold clusters
MDR - D3 - O06	11:15-11:30	Max Bols	Empowering Cheap Transition Metals for Catalysis by Tuneable Coordination in Zeolites
MDR - D3 - O07	11:30-11:45	Valérie Marvaud	Magnetic dendrimers: tackling the challenge of synthesis and characterization
MDR - D3 - O08	11:45-12:00	Hsueh-Ju Liu	Reactivity studies of a main-group lead hydride and a bimetallic di-iron dihydride complex
Poster Flash	12:00		
MDR - D3 - F01		Dmytro Volochnyuk	Needs Determine the Way: the Place of SF4 in Modern Synthetic Chemistry
MDR - D3 - F02		Maria Kosaka	Mechanism elucidation of paddle-wheel di-Ru complex catalyzed amination reaction via multireference theory
MDR - D3 - F03		Hunhee Han	Ionic-Group Densification of Perfluorinated High-Oxygen-Permeability Ionomers
MDR - D3 - F04		Priyanka Rani Panda	Strapped Calix[4]pyrroles for the Transmembrane Transport of Anions
Lunch			

Session	Timing	Presenter	Title
MDR - D3 - I01	14:00-14:30	Narcis Avarvari	Chirality related properties in molecular materials
MDR - D3 - O09	14:30-14:45	Steven Nolan	The [M(NHC)Cbz] Architecture (M= Au and Cu; Cbz = carbazolyl): Advances in EnT photocatalysis
MDR - D3 - O10	14:45-15:00	Mélaine Wang	Design of Isoindole-based N-Heterocyclic Ligands for Bioactive Bimetallic Complexes
MDR - D3 - O11	15:00-15:15	Kobe Peeters	Enantioselective interactions on chiral nanopatterned surfaces
MDR - D3 - O12	15:15-15:30	Alessio Nicolini	Chiral Metal-Organic Frameworks (MOFs) enhance Oxygen Evolution Reaction through CISS effect
MDR - D3 - O13	15:30-15:45	Paul Erik Schneider	Selective 1'-lithiation of planar-chiral ferrocenes enabled by switchable coordination: the effect of a methoxy-silyl group
MDR - D3 - O14	15:45-16:00	Sven Lempereur	Excited-State Dynamics of Iridium(III) Photosensitizers Bearing pH Sensitive Strong Electron Donating Bipyridine Ligand Functionalized with N-Heterocyclic Imine and Olefin
Coffee Break			
MDR - D3 - O12	16:30-16:45	Davide Blasi	Polyhalogenated Thiele hydrocarbons as promising stimuli-responsive molecular materials
MDR - D3 - O15	16:45-17:00	Augustin Madalan	Luminescent complexes with imino/amino podands containing extended pi systems
MDR - D3 - O16	17:00-17:15	Jye-Shane Yang	Thermo-/Photo-responsive fluorescence and mechanical properties of dynamic organic crystals
MDR - D3 - O17	17:15-17:30	Andrea Fermi	Luminescent polysulfurated benzenes: a versatile platform for RTP and TADF materials
MDR - D3 - O18	17:30-17:45	Isaac Fuentes	FROG Dyes: A New Class of Anionic Near Infrared Fluorophores
MDR - D3 - O19	17:45-18:00	Maria Vittoria Balli	Electrochemiluminescence of a unimolecular ruthenium(II)-labelled cucurbit[7]uril: From mechanistic insights to applications

Thursday 16th July 2026

Marble hall

Session	Timing	Presenter	Title
MDR - D4 - O01	10:00-10:15	Shouryo Ghose	Effect of the directionality of the external force on the rupture of mechanophores
MDR - D4 - O02	10:15-10:30	Ferran Esteve	Write and Erase: Macrocyclic Effectors Regulate Imine Expression in Water
MDR - D4 - O03	10:30-10:45	Fidan Rahmatova	A novel prebiotic pathway for lipid acylation
MDR - D4 - O04	11:45-12:00	Massimiliano Cordaro	Synthesis of Amphiphilic Pyrene-BODIPY Sulfonates with Self-Assembling Properties
MDR - D4 - O05	11:00-11:15	Siebe Lekanne Deprez	Effect of Chalcogen Atom Size on Hydrogen Bond Strength in Chalcoamide-based Linear Polymers
MDR - D4 - O06	11:15-11:30	Jie Zhang	Design of Controllable Two-Dimensional Heterojunction Structures on Surfaces - Starting from Moiré Self-Assembled Molecular Networks
MDR - D4 - O07	11:30-11:45	Javed Pathan	Nanotube-Induced Organic Frameworks (NIOFs) via a topochemical reactions
MDR - D4 - O08	11:45-12:00	Angie Johana Bolaños Burbano	Artificial Phototactic Microswimmers for Precise Light-Guided Navigation
Lunch			
MDR - D4 - I01	14:00-14:30	Florian Medina	High-Throughput Experimentation at J&J Process & Development: From Robotic Integration to Rapid Optimization
MDR - D4 - O09	14:30-14:45	Karolis Norvaisa	Development of Synthetic Transmembrane Transporters for Phosphates
MDR - D4 - O10	14:45-15:00	Irene Regeni	Ru(II)-peptide conjugates for photoactivated chemotherapy
MDR - D4 - O11	15:00-15:15	Corentin Pochet	Second-coordination sphere of pyrazoles metal complexes: from anion recognition to bimetallic assemblies



Perspectives in Analytical & Physical Chemistry

This session explores the dynamic and rapidly evolving frontiers of Analytical and Physical Chemistry, showcasing transformative innovations that are reshaping scientific research, industrial applications, and societal impact. In Analytical and Physical Chemistry, the integration of artificial intelligence (AI) and machine learning is revolutionizing data interpretation, method development, and high-throughput screening. Advances in high-resolutions spectrometry, single-cell analysis, and lab-on-a-chip technologies are enabling real-time, ultra-sensitive detection across biomedical, environmental, and material science. Emphasis will be placed on green analytical chemistry, including solvent-free techniques and miniaturized systems that align with sustainability goals.

Monday 13th July 2026

Okapi 3

Session	Timing	Presenter	Title
APC - D1 - O1	10:00-10:15	Dhirani Al-Amin	Charge exchange transistor: an extension of electrochemistry
APC - D1 - O2	10:15-10:30	Al-Shamery Noah	Electrochemical confinement as a tool for nanoscale fabrication and redox control
APC - D1 - O4	10:30-10:45	Pawlak Alicja	Interfacial effects in indium(III) ion electroreduction
APC - D1 - O5	10:45-11:00	Obeng-Gyasi Obed	Lipid Composition Influences the formation of Vesicle Lamellarity
APC - D1 - O6	11:00-11:15	Morthala Rishi Bharadwaj	High-throughput continuous slug flow platform for investigating non-photochemical laser-induced nucleation mechanisms
APC - D1 - O7	11:15-11:30	Dietzek-Ivansic Benjamin	Excited-State Proton Transfer in Ru(II)- and Fe(II)-Complexes with Pyrazine-Moieties – towards Iron-Based Photobases
Flash Presentations 11:30			
APC - D1 - F01		De Vos Evelyne	The Development of an analytical Method For assessing the Cornea-on-Chip as a predictive In Vitro Model for Ocular Drug Absorption
APC - D1 - F02		Nowak Izabela	Emulsifying Properties of Cetearyl Olivatate and Sorbitan Olivatate in Semi-Solid Cosmetic Matrices
APC - D1 - F04		Oles Honorata	From Autofluorescence to Chemical Maps: Widefield FL-PTIR Imaging of Biological Tissues
Lunch			

Session	Timing	Presenter	Title
APC - D1 - I01	14:00-14:30	Debora Scuderi	Molecular structure identification in mass spectrometry by FEL-based Infrared ion spectroscopy
APC - D1 - O9	14:30-14:45	Rensonnet Aurelie	The fate of the proton in protic and aprotic ionic liquids: acidity and ion transfer studied by Raman spectroscopy
APC - D1 - O10	14:45-15:00	Malherbe Cedric	Raman spectroscopy for probing extreme chemical systems: from high-temperature molten salts to super-acidic room temperature ionic liquids
APC - D1 - O11	15:00-15:15	Wang Chien-Lung	Water-Driven Self-Assembly Pathways for Thermostable and Adaptive Supramolecular Materials
APC - D1 - O12	15:15-15:30	Biribicchi Chiara	Evaluation of Cellulose-Based Passive Adsorbers for Capturing Acetic Acid Using HS-TD-GC-MS and Magic Chemisorbers
APC - D1 - O13	15:30-15:45	Reinhardt Peter	Mass-Dependent and Independent Isotopic Fractionation in Ozone
APC - D1 - O14	15:45-16:00	Kosowska Karolina	Probing Molecular Alignment and Microstructural Heterogeneity in Polymers via High-Resolution Polarized O-PTIR Imaging

Tuesday 14th July 2026

Okapi 3

Session	Timing	Presenter	Title
APC - D2 - O1	10:00-10:15	Pilkington Lisa	Sensing and capture/release of biological analytes in complex matrices
APC - D2 - O2	10:15-10:30	Miceli Francesca	MAIGRET: a CRISPR-based immunoassay that employs antibody-induced cell-free transcription of CRISPR guide RNA strands
APC - D2 - O3	10:30-10:45	Mesquita Raquel	Microfluidic paper-based devices for public health biomarkers monitoring
APC - D2 - O4	10:45-11:00	Segundo Marcela	Flow-based automatic and miniaturized solid-phase extraction towards sample preparation and renewable sensors
APC - D2 - O5	11:00-11:15	Girola Valentina	Programmable gene circuit cascades for biosensing applications
APC - D2 - O7	11:15-11:30	Sinha Ankita	Detection of circulating therapeutic monoclonal antibodies for cancer monitoring
APC - D2 - O8	11:30-11:45	Belforte Erica	Activity based (bio)sensor for the monitoring of MutyH DNA glycosylase activity
APC - D2 - O11	11:45 - 12:00	Piscitelli Fabiana	Integrating LC-MS and maldi-2 MS imaging to map brain region specific distribution of endocannabinoids and their congeners

Session	Timing	Presenter	Title
Flash Presentations		12:00	
APC - D2 - F01		Scovacricchi Teresa	Graph-Based Clustering of Isotopic Patterns in High-Resolution MALDI-MSI Using Matrix Distances
APC - D2 - F02		Pacchione Guglielmo	High-Sensitivity UHPLC-MS/MS Multi-Residue Analysis of Pharmaceuticals in Aquatic Systems: Methodological Advances for Environmental Risk and AMR Assessment
APC - D2 - F04		Belova Lidia	Ion mobility high-resolution mass spectrometry (IM-HRMS) – an emerging technique facilitating the analysis of environmental contaminants and their metabolites
Lunch			
APC - D2 - I01	14:00-14:30	Zoltan Mester	Advancing the Chemical Measurement Science Enterprise — A Case for Strengthening Analytical Chemistry Education
APC - D2 - O10	14:45-15:00	Piotr Mytych	Analytical Science as a Catalyst for Process Efficiency: The Abrocitinib 2G Experience 36
APC - D2 - O11	15:00-15:15	Gibkes Rebecca	Investigation of the applicability of dimethyl carbonate as a green solvent in liquid chromatography
APC - D2 - O12	15:15-15:30	Bollella Alessandro	Integrated Analytical Strategies Supporting Risk Assessment of Emerging Contaminants in Marine Ecosystems
APC - D2 - O13	15:30-15:45	Bogyor Andrea	Kinetic and thermodynamic studies as a tool for understanding the adsorption mechanism of organic pollutants from aqueous media
Coffee Break			
APC - D2 - O14	16:30-16:45	Evans Robert	Benchtop 19F NMR analysis of bio-oils produced from Brewers' Spent Grains and other waste products
APC - D2 - O16	16:45-17:00	Barek Jiří	Novel Electroanalytical Methods for Monitoring of Environmental Carcinogens
APC - D2 - O17	17:00-17:15	Zwiener Christian	Nontarget Screening and PhotoTOP assay to characterize PFAS in AFFF contaminated sites
APC - D2 - O18	17:15-17:30	Quattrocioni Miriam	Covalent DNA-based dimerization networks to control in-vitro transcription
APC - D2 - O19	17:30-17:45	Lermyte Frederik	Combining flow-induced dispersion and native mass spectrometry for biomolecular analysis

Wednesday 15th July 2026

Okapi 3

Session	Timing	Presenter	Title
APC - D3- O2	10:15-10:30	Boukaroom Ouassim	Application of a new monomer sensor for the fluorimetric detection of cadmium ions: preparation of modified electrodes with fluorescent ion-imprinted polymers
APC - D3- O3	10:30-10:45	Lettieri Mariagrazia	A Label-Free QCM Immunosensor Based on Hyaluronic Acid-Coated Solid Lipid Nanoparticles for Non-Invasive Haptoglobin Monitoring in Neuroinflammation
APC - D3- O4	10:45-11:00	Dhanjai Dhanjai	Enzyme Nanocapsules as Robust Biosensors
APC - D3- O5	11:00-11:15	Oró-Nolla Bernat	Exploring PFAS as a new source of chemical exposure in cosmetic formulations
APC - D3- O6	11:15-11:30	Monakhova Yulia	NMR and IR spectroscopies as alternative analytical methods for biopolymers without chromophore: example of hyaluronic acid in dietary supplements and cosmetics
APC - D3- O7	11:30-11:45	Švorc Lubomír	Batch injection analysis with electrochemical detection as a useful tool in food and pharmaceutical practice
APC - D3- O8	11:45-12:00	Nowak Izabela	Innovative Lipid Nanocarriers for Advanced Delivery of Active Substances with Pharmaceutical/Cosmetic Activities
Lunch			
APC - D3 - I01	14:00-14:30	Federico Marini	Is Chemometrics Still Needed in the Age of Artificial Intelligence?
APC - D3- O9	14:30-14:45	Licheri Antonio	Extending SPE lifetime for accurate electrochemical detection of emerging environmental pollutants using machine learning-based data interpretation
APC - D3- O10	14:45-15:00	Çağlar Yasemin	Chemometric optimization of a green DES-RP-DLLME method for total phenolic determination in cosmetic matrices
APC - D3- O11	15:00-15:15	Pobat Tatsiana	Toward an Innovative Portable MicroNIR/Chemometric Strategy for the Determination of Disinfection Byproducts in Water
APC - D3- O12	15:15-15:30	Castrignanò Erika	An AI-driven tool for the metabolic signatures of new psychoactive substance exposure within the NARCOSIS platform
APC - D3- O13	15:30-15:45	Rojas Wudmir	Large-scale evaluation of semiempirical quantum mechanical EI-MS prediction for toxic compounds

Thursday 16th July 2026

Okapi 3

Session	Timing	Presenter	Title
APC - D4 - I01	10:00-10:30	Martin Oschatz	Using novel adsorption phenomena for the characterization of nanoporous materials
APC - D4- O1	10:30-10:45	Pocrnić Marijana	Influence of cyclodextrins on loratadine stability and structural characterization of degradation products by HR MS/MS
APC - D4- O2	10:45-11:00	Mondal Soumyadip	Individual Marcus-type kinetics controls singlet and triplet oxygen evolution from superoxide
APC - D4- O3	11:00-11:15	Clemente Ilaria	In situ SAXS investigation of microfluidic aggregation kinetics of lipid-based nanocarriers
APC - D4- O4	11:15-11:30	Talarico Luigi	Probing light-triggered structural dynamics in Lipid Nanoparticles using Time-Resolved SAXS
APC - D4- O5	11:30-11:45	Essid Safaa	Interaction of copper with silanol nests in silicalite nanocrystals: Evidence from FTIR and CO adsorption study
APC - D4- O6	11:45-12:00	Mukherjee Taritra	Raman-MCR can be used to study solvation shells in particle dispersions
Lunch			
APC - D4- O7	14:00-14:15	Mesquita Raquel	Microfluidic paper-based devices for public health biomarkers monitoring
APC - D4- O8	14:15-14:30	Puricelli Simone	H2 isotopologues chromatographic separation on metal oxides
APC - D4- O9	14:30-14:45	Spileers Gaëlle	X-Ray Fluorescence as a novel, flow-through, element-based detector for universal quantification in Liquid Chromatography
APC - D4- O10	14:45-15:00	Kim Jeonghun	TiO ₂ -Supported Ru-Fe Catalysts for the Hydrodeoxygenation of Bis(2-hydroxyethyl) Terephthalate (BHET) Prepared by the Glycolysis of Polyethylene Terephthalate (PET)



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Responsible Chemistry for Society: Education, Ethics, History & Cultural Heritage

This theme explores the vital intersection of chemistry with society through the lenses of education, ethics, history, and cultural heritage. It invites contributions highlighting innovative practices and cross-disciplinary perspectives that offer lessons relevant for today's societal challenges. The target audience includes chemists, educators, historians, ethicists, cultural heritage specialists, and practitioners engaged in science communication and outreach. The target audience includes chemists, educators, historians, ethicists, cultural heritage specialists, and practitioners engaged in science communication and outreach.

Monday 13th July 2026

Toucan 1 & 2 / Carnot Wing

Session	Timing	Presenter	Title
RC - D1 - I01	10:00-10:30	Peter Mahaffy	Responsible Chemistry for Society: From what chemistry can do, to what chemists should do
RC - D1 - O01	10:30-10:45	Dorien Baeten	Equipping future chemists for societal challenges: Integrating ethics and interdisciplinarity in materials science
RC - D1 - O02	10:45-11:00	Fieke Sluijs	The Da Vinci Master Programme: Educating sustainability change-makers
RC - D1 - O03	11:00-11:15	Juliana Vidal	Cultivating Responsible Chemists: The Green Chemistry Commitment as a Catalyst for Educational Systemic Change
RC - D1 - O04	11:15-11:30	Sanghamitra Chakravarty	Q-method as a tool for transdisciplinary dialogue, reflexivity and learning in responsible chemistry
RC - D1 - O06	11:30-11:45	Jesse De Pagter	SSbD as an anticipatory effort: The quest for a better future with chemicals - discussion
Flash Presentations			
RC - D1 - F01	11:45	Sanjiv Prashar	Transforming chemistry education for the green transition: a competence-based European approach
RC - D1 - F02		Vera Meynen	Implementing sustainability competences and practices at Quy Nhon University, Vietnam.
RC - D1 - F03		Iwona Maciejowska	The ECTN Eurolecturer Academy: A European Platform for Teaching Innovation and Professional Development in Chemistry Higher Education
RC - D1 - F04		Silke Fähnemann	Educating Future Chemists for Sustainable Transformation: Digital and Competency-Based Approaches across Vocational and Higher STEM Education
RC - D1 - F05		Dorien Baeten	Sustainability Hackathon: Bridging the Gap between Higher Education and Society
RC - D1 - F06		Aurora Cairoli	Green infrastructure and built heritage in historic cities under climate change
Lunch			

Session	Timing	Presenter	Title
RC - D1 - I02	14:00-14:30	Ernst Homburg	Social Responsibility of Chemists: A Historical Perspective
	14:30-14:45	discussion	
RC - D1 - O07	14:45-15:00	Christian Schnurr	The Death of Chemophobia. Revisiting the Public Image of Chemistry
RC - D1 - O08	15:00-15:15	Rudolf Dams	A world without PFAS?
RC - D1 - O09	15:15-15:30	Brigitte Van Tiggelen	Responsible use of history: experience from the EuChemS Historical Landmarks awards
RC - D1 - O10	15:30-15:45	Annette Lykknes & Brigitte Van Tiggelen	Discovering the elements: No simple stories
Coffee Break			
RC - D1 - O11	16:30-16:45	Annette Lykknes	Teaching about Crookes's Vis Generatrix model of the Periodic System
RC - D1 - O12	16:45-17:00	Iwona Maciejowska	Implementation of the course "Good Chemistry: Methodological, Ethical and Social Dimensions" at Jagiellonian University in Krakow (2019-2026)
	17:00-18:00	Gisela Boeck	Workshop

Tuesday 14th July 2026

Toucan 1 & 2 / Carnot Wing

Session	Timing	Presenter	Title
RC - D2 - O01	10:00-10:15	David Mareš	The Best 3 Seconds of My Life: Igniting Passion for Chemistry Through Short-Form Videos
RC - D2 - O02	10:15-10:30	Thomas Hartman	Designing Immersive Chemistry Education: An Educational Game on Catalytic CO ₂ Valorization
RC - D2 - O03	10:30-10:45	Luis Bello	Smarter chemistry teaching with artificial intelligence
RC - D2 - O04	10:45-11:00	Sanjiv Prashar	European Chemistry Thematic Network Core Chemistry 2026: A Renewed Framework for First-Cycle Chemistry Education in Europe
RC - D2 - O05	11:00-11:15	Dirk Andrae	Simple(r), yet (more) efficient maths teaching for students of chemistry
	11:15-11:30		discussion

Tuesday 14th July 2026

Toucan 1 & 2 / Carnot Wing

Session	Timing	Presenter	Title
Poster Flash			
RC - D2 - F01	11:30	Yaël Antonaros	Lipid–Mineral Interactions and Organic Residue Analysis in Archaeology
RC - D2 - F02		Natalie Daßler	Contaminated Heritage: Toxic Legacies in Historic Interiors
Lunch			
RC - D2 - I01	14:00-14:30	Federica Pozzi	Chemistry at the crossroads: building knowledge between collections and communities
RC - D2 - O07	14:30-14:45	Ermanno Avranovich Clerici	In-Operando Investigations of pigment degradation processes
RC - D2 - O08	14:45-15:00	Sander van Lith	Coupling the chemical and mechanical properties of aged lead white oil paints
RC - D2 - O09	15:00-15:15	Teresa Scovacicchi	From Photodegradation to Crystallization: Imaging-Based Evidences of Organic-Inorganic Degradation Interaction in Historical Paints
RC - D2 - O10	15:15-15:30	Natércia Teixeira	Entwining through History & Cultural Heritage: the chemistry behind iron gall inks
RC - D2 - O11	15:30-15:45	Alina Krotova	A methodology for the identification and classification of weighted silk in museum collections using portable X-ray fluorescence spectroscopy (PXRF)
Coffee Break			
RC - D2 - O12	16:30-16:45	Marke Kotrly	Prototype Multimodal Robotic System for the Analysis of Large-Scale Objects in Cultural Heritage, Forensic Science, and Material Inspection
RC - D2 - O13	16:45-17:00	Francesca Porpora	Proposal for a remediation method for the “vinegar syndrome” in cellulose acetate-based motion picture film
RC - D2 - O14	17:00-17:15	Giulia Gasperuzzo	Algae for Art: Sustainable Bio-materials for the Preservation of Paper Heritage
RC - D2 - O15	17:15-17:30	Xiao Zhao	From Artifacts to Batteries: Advances in Muon-Induced X-ray Emission (MIXE) with the GIANT Instrument at PSI
RC - D2 - O16	17:30-17:45	Elsje Alessandra Quadrelli	Harawayan’s Respons-ability and Situated Knowledges as a guide for Research in Chemistry

Thursday 16th July 2026

Toucan 1 & 2 / Carnot Wing

Session	Timing	Presenter	Title
RC - D4 - I01	10:00-10:30	José Ferraz-Caetano	Beyond the black box: Human understanding and ethical limits of AI for Chemistry
RC - D4 - O01	10:30-10:45	Michael Mueller	AI in Chemistry: Challenges, Limitations, and Opportunities
RC - D4 - O02	10:45-11:00	Jan Mehlich	Chemistry for the Future: On the Stockholm Declaration's Potential to Provide Practical Guidance for Responsible Chemical Research and Innovation
RC - D4 - O03	11:00-11:15	Paola Ambroggi	Artificial Intelligence and Ethics in School Chemistry Education
RC - D4 - W01	11:15-11:30	Anca Silvestru (moderator)	On the Impact of Artificial Intelligence in Chemistry and Beyond
RC - D4 - W02	11:30-11:45	Hans Steisslinger (moderator)	On the Impact of Artificial Intelligence in Chemistry and Beyond
RC - D4 - W03	11:45-12:00	Jan Mehlich (moderator)	On the Impact of Artificial Intelligence in Chemistry and Beyond
Lunch			
RC - D4 - O05	14:00-14:15	Elzbieta Wojaczynska	Responsible AI in peptide and biomaterial design: closing the loop from collagen-mimetic scaffolds to oxytocin analogs
RC - D4 - W04	14:15-14:30	Anca Silvestru (moderator)	On the Impact of Artificial Intelligence in Chemistry and Beyond
RC - D4 - W05	14:30-14:45	Hans Steisslinger (moderator)	On the Impact of Artificial Intelligence in Chemistry and Beyond
RC - D4 - W05	14:45-15:00	Jan Mehlich (moderator)	On the Impact of Artificial Intelligence in Chemistry and Beyond

Posters		
APC - D1 - F01	De Vos Evelyne	The Development of an analytical Method For assessing the Cornea-on-Chip as a predictive In Vitro Model for Ocular Drug Absorption
APC - D1 - F02	Nowak Izabela	Emulsifying Properties of Cetearyl Olivat and Sorbitan Olivat in Semi-Solid Cosmetic Matrices
APC - D1 - F03	Kadela Karolina	Advancing O-PTIR Spectroscopy for Sub-Zero Materials Analysis
APC - D1 - F04	Oles Honorata	From Autofluorescence to Chemical Maps: Widefield FL-PTIR Imaging of Biological Tissues
APC - D1 - P01	Kugimiya Akimitsu	Development of paper-based analytical device for branched-chain amino acids
APC - D1 - P02	Chalkiadaki Olga	Comparative Study of Digestion Methods for Antimony Analysis in Certified Ore Reference Materials
APC - D1 - P03	Rinaldo Daniel	A Sustainable Strategy for High-Yield Resveratrol Recovery from Agro-Industrial Waste using Optimized MAE-NADES
APC - D1 - P04	Alves Cátia	Sedimentation kinetic of a textile adhesive
APC - D1 - P05	Lima Cleyryson	Development of tools in chemical metrology for standardization of the analysis of Brazilian hops.
APC - D1 - P06	Nosal- Wiercinska Agnieszka	Probing interfacial effects in bismuth(III) electroreduction using simple mercury-based electrodes
APC - D1 - P07	Laoufi Nardjess Rim	Assessment of the crystalline state of polymorphic pharmaceutical active ingredients in a forced degradation study utilizing seven recommended methodologies: application to carbamazepine
APC - D1 - P08	Tayari Faouzia Ep Iben Nassar	Predictive Acoustic Modelling of Sustainable Natural Fibers and 3D-Printed Architected Absorbers
APC - D1 - P09	Salingros Edouard	ShinyCDS: an open-source R-based software for reproducible processing of chromatograms
APC - D1 - P10	Crisóstomo Bezerra Costa Clara Andrezza	Study of the stability and degradation of the LQM330 molecule active against the Chikungunya virus (CHIKV)
APC - D1 - P11	Crisóstomo Bezerra Costa Clara Andrezza	Characterization of the LQM330 molecule by High-Performance Liquid Chromatography (HPLC), Gas Chromatography-Mass Spectrometry (GC/MS), and Fourier-Transform Infrared Spectroscopy (FTIR)
CAI - D1 - F01	Brea Oriana	Impact of Fast Mechanistic Studies in Industrial Setting
CAI - D1 - F02	Baets Peter	Addressing process challenges through AI: Biobased amine production in flexizyme

Posters		
CAI - D1 - F03	Kumari Geetu	In silico Engineering of Piezoelectric Biomolecular Assemblies
CAI - D1 - F04	Rodríguez Fileto	Understanding the Raman Spectra of Silica Prenucleation Clusters via Ab Initio Molecular Dynamics and Experiments
CAI - D1 - P01	Chandrasekar Aditi	Synergistic Hydrogen-Bonding and CO ₂ Activation: A Sustainable Metal, Halogen, and Solvent-Free Strategy
CAI - D1 - P02	Sheu Sheh-Yi	High-Performance Energy-Free Desalination
CAI - D1 - P03	Sigmund Lukas	BONAFIDE: A Python Package for Calculating Features for Atoms and Bonds in Molecules
CAI - D1 - P04	Motmans Brent	Predictive inorganic synthesis from small data using machine learning: size-controlled Cu nanoparticles
CAI - D1 - P05	Ganesan Krithika	Defect mediated surface modification of amorphous TiO ₂ surface using Grignard reagent in explicit solvation model
CAI - D1 - P06	Odai Kei	Theoretical study of the interaction between 3 α -hydroxysteroid dehydrogenase and androsterone
CAI - D1 - P07	Hobbs Christopher	Chemical Accuracy in Computational Prediction of PFAS-Cyclodextrin Binding: A Multi-Level SQM/QM Study with Experimental ITC Validation
CBF - D1 - F01	Luís Manuel Lopes Rodrigues da Silva	Red fruits - medicinal plants functional beverage prototypes: integrating cell bioactivity, cultivar chemistry and human metabolic biomarkers
CBF - D1 - F02	Raffaello Nardin	Geographical fingerprinting of Wine: Multi-technique approach and signal masking effects
CBF - D1 - F03	Perveen Akhtar	Portable multiplex quantification of marine biotoxins via digital colour-encoded lateral flow platform utilizing shape-tailored gold nanoparticles
CBF - D1 - F04	Raquel Nunes Da Silva	In vitro testing of antifungal biocides against endophytic fungi of cork oak with potential phytosanitary application
CBF - D1 - F05	Francesco Cairone	From Mediterranean Agri-Waste to Functional Molecules for food packaging and dermo-cosmetic applications: Process-Driven Sustainable and Circular Chemistry
CBF - D1 - F06	Luís Manuel Lopes Rodrigues da Silva	Chemistry-to-biology translation for functional fruit beverages: a comparative pipeline for Sorbus, Viburnum tinus and Rhus coriaria hot-water infusions
CBF - D1 - F07	Carmen Corea	Sustainable scale-up of fatty acids and polyphenols extraction from Spent Coffee Grounds
CBF - D1 - P01	Haris Majstorovic	Synthesis & structure-activity relationship study on a plant-derived glycoside that attenuates virulence in Pseudomonas aeruginosa

Posters		
CBF - D1 - P02	Jong Pil Park	Peptide Conformation Engineering on a Chitosan Nanowhisker-Graphene Oxide Interface Enables High-Performance Electrochemical Detection of Food Allergen
CBF - D1 - P03	Tshephiso Papo	Tuning the reactivity of N,N'-Pyridyl Palladium(II) complexes: A substitution kinetics and DNA/BSA binding study
CBF - D1 - P04	Konrad Barnowski	Synergistic cancer therapy targeting LAG-3&PD-L1 through co-administration of flavonoid and durvalumab
CBF - D1 - P05	Denys Bondar	Gold-Selenium carbenes in anticancer therapy
CBF - D1 - P06	Åshild Sørskår	Stereoselective Synthesis of 18F-Labelled Specialized Pro-Resolving Mediators
CBF - D1 - P07	Joana Amaral	Optimization of SPME-GC-MS for volatile profiling and botanical origin discrimination of Portuguese monofloral honey
CBF - D1 - P08	Roberta Cerasi Urban	Microplastics and Nanoplastics in Human Lung Cells: Size-, Polymer-, and Exposure Model-Dependent Cytotoxicity
CBF - D1 - P09	Nardjess Rim Laoufi	Development and validation of analytical performance of ICP-MS blood lead testing method using the ICHM10 new protocol for bioanalytical method.
CBF - D1 - P10	Catherine Amiens	Innovative Radiolabelled Magnetic Nanoparticles for Dual MRI/SPECT Imaging
CBF - D1 - P11	Haesong Sher	High-Throughput Serum Metabolomics for PFAS Toxicity- Method Development and Cohort Validation in Belgian Residents Near a PFAS Production Plant
CBF - D1 - P12	Stefania Cesa	Green Extraction of Pomegranate Peel Unlocks Ellagitannin-Driven Longevity Pathways
CBF - D1 - P13	Robert Cholewa	Pesticide Residues in Commercial Honey Samples: Application of a Validated Analytical Method and Chemometric Interpretation
CCS - D1 - F01	Ihar Mikhnavets	Solvent-free mechanochemical Suzuki-Miyaura Coupling
CCS - D1 - F02	Roman Larkovich	An electrogenerated base route towards the synthesis of transition metal NHC-ligated complexes
CCS - D1 - F03	Rebecca Sebers	Biomass-Based Monomers for Recyclable Polymers: A Pathway Toward Sustainable Chemistry
CCS - D1 - F04	Elisa Giovanna Faggioli	Upscaling nanocellulose in catalysis with novel in-flow applications for amino- and metal-driven reactions
CCS - D1 - F05	Hui Xu	Dual-Active-Site in Pt-Co/Z-HP catalyst via Strong Metal-Support Interactions for VOCs Oxidation

Posters		
CCS - D1 - F06	Elke Theeuwes	Getting all ducks in one row, unravelling the complexity of chemical recycling of hard-to-recycle plastics
CCS - D1 - P01	Lisa De Vriendt	The controlled transfer hydrogenation of muconates using Ru based catalysis
CCS - D1 - P02	Tomáš Čarný	Mechanochemical utilization of Reformatsky Zn-enolates in cross-coupling reactions
CCS - D1 - P03	Akbi Hamdane	Synergistic Graphene/CuO Coatings by an Intermittent Spray-Coating to Enhance the Thermal Decomposition and Performance of Ammonium Perchlorate
CCS - D1 - P05	Mauricio Boscolo	New strategies for catalytic conversion of sugarcane alcohols into valuable chemicals
CCS - D1 - P06	Marianna Angelo Tassioula	Exploring electrically addressable catalysts for CO ₂ valorization via dynamic catalysis
CCS - D1 - P07	Polyssena Renzi	Radical Cascade Sulfonylation/Cyclization of Benzenimidazole Derivatives with Sulfinates induced by Visible Light
CCS - D1 - P08	Elisabeth Gallmeier	Progress and challenges in electrocatalytic oxidation of nitrogen compounds
CCS - D1 - P09	Gabriela Zanelli	Role of Calcination Temperature of CuZnAl and CuZnGa Catalysts for CO ₂ Hydrogenation to Methanol
CCS - D1 - P10	Filippo Ravasio	Catalytic conversion of α -pinene to high value products
CCS - D1 - P11	Riku Saito	From Batch to Flow: Ammonia as a Weak Base for the Synthesis and Functionalization of Au, Pd, and Cu-NHC Complexes
CCS - D1 - P12	Tommaso Ruggiero	Digold photosensitizer for visible light [2+2] cycloaddition and E/Z isomerization reactions
CCS - D1 - P13	Angela Maria Kasza	CO ₂ hydrogenation over MOF-derived carbon-modified Copper catalysts
CCS - D1 - P14	Péter Kisszékelyi	Chiral Brønsted acid catalyzed mechanochemical stereoselective Povarov reaction
CCS - D1 - P15	Fuline Musengo Otomboy	Immobilized pincer ligand for cross-coupling reaction in flow
CCS - D1 - P16	Sophie Mansvelders	Potential of tubular continuous flow photoreactors for plasmonic photocatalytic reverse water gas shift process
CCS - D1 - P17	Monica Dan	Tuning the porosity and structure of the oxidic supports to enhance the catalytic efficiency

Posters		
CCS - D1 - P19	Maria Mihet	Influence of the MOF-derived carbon-type promoters on CO ₂ hydrogenation to methanol
CCS - D1 - P20	Birhan Tatal	Synthesis, Characterization, And Aggregation Properties Of Cobalt-Phthalocyanine
CCS - D1 - P21	Tristan Cabanis	Unravelling Surface Mechanism in Isopropanol Dehydration to Propylene: The Impact of Acid-Base Sites Strength and Nature
CCS - D1 - P22	Rebeca Molina Bueno	Nanostructured molybdenum sulphide encapsulated in carbon spheres as stable and efficient electrocatalysts for the hydrogen evolution reaction
CCS - D1 - P23	Lidón Arroyas	Engineering nanostructured molybdenum sulphides for effective photocatalytic H ₂ generation
CCS - D1 - P24	Markel Letona	Formic acid dehydrogenation catalysed by nanostructured molybdenum sulphides
CCS - D1 - P25	Jaime Cervera	NixCoy for RWGS: A composition study
CCS - D1 - P26	Ali Babar	Alkali-promoted iron-based catalysts for efficient and selective CO ₂ hydrogenation to light olefin: A Combined Mechanistic and DFT insights
EES - D1 - F01	Lin Ching_Hsuan	Activated Ester-Functionalized Poly(ethylene terephthalate) for Degradable Epoxy Thermosets and Recyclable Carbon Fiber Composites
EES - D1 - F02	Rigual-Miret Jordi	Photothermal/photocatalytic activation of peroxymonosulfate using SrFe ₁₂ O ₁₉ @Ni-P core@shell microparticles for energy efficient water remediation
EES - D1 - F03	Maria-Iuliana Chirica	Acid-modified MXenes as catalysts for upcycling PET by hydrolysis
EES - D1 - F04	Mata Patrícia	Valorization of Poly(methyl methacrylate) Waste through Pyrolysis
EES - D1 - F05	Vilariño Pol	Pollen-Based Photothermal Catalysts: A Sustainable Platform for Advanced Removal of Organic Pollutants and Microplastics
EES - D1 - P001	Anna Leo	Mechanistic insights into charge and energy transfer from first-principles calculations
EES - D1 - P002	Muhammad Aurang Zeb Gul Sial	Ultrafast Laser-Driven Fabrication of NiCoFe Carbides for Exceptional Oxygen Evolution Reaction
EES - D1 - P003	Vinicius Sarracini Santos	Fluorescent nanolignin for coupled sensing-reduction of hexavalent chromium in aqueous matrices
EES - D1 - P004	Dong Jin Suh	Dimethyl Ether (DME): From sustainable production to green applications in the low-carbon economy

Posters		
EES - D1 - P005	Jonathan Smelzer	The new HRAC Herbicide Mode of Action Classification 2026 - An Essential Contribution to sustainable Agrochemistry
EES - D1 - P006	Muhammad Zeeshan	Hydrophilic Bipyridine–Sulfonate Polymeric Colloids as Stable Redox Electrolytes for Aqueous Organic Flow Batteries
EES - D1 - P007	Hyun Young Jung	Overcoming trade-offs in thick sulfur cathodes for lean Li–S batteries
EES - D1 - P008	Yong Joon Park	Boosting Electrochemical Performance of LiFePO ₄ Through Carbon layer Control
EES - D1 - P009	Oumaima Aqil	Upcycling Industrial Solid Waste into a High-Efficiency Adsorbent for Sustainable Water Treatment
EES - D1 - P010	Andrii Kostyniuk	CO ₂ hydrogenation to ethanol over alkali-promoted trimetallic catalysts in a packed-bed reactor
EES - D1 - P011	Robert Guir Sans	Development of plant growth-promoting bacteria with artificial humic acids capsules for enhanced agricultural sustainability
EES - D1 - P012	Aasif Khan	Engineering nitrogen-enriched covalent organic framework for carbon capture
EES - D1 - P013	Jordi Rigual-Miret	Synthesis of nickel-based catalysts for the (photo)thermocatalytic production of γ -valerolactone
EES - D1 - P014	Britt Segers	Entropy management of PLA: Novel state-based screening method for decision-support from feedstock to end-of-life treatment
EES - D1 - P015	Imam Hidayat Nurwahid	An integrated biorefinery approach for sustainable fuel production via low-pressure flow-through organosolv fractionation and catalytic lignin upgrading
EES - D1 - P016	Allan Niidu	Mechanically aided synthesis and application of catalyst for hydrogen generation
EES - D1 - P017	Mohd Shafiq Nasir	Toward selective detection of polycyclic aromatic hydrocarbons using microfluidics paper analytical devices
EES - D1 - P018	Nuria Martín	Pd-Imidate@SBA-15: A Multifunctional Heterogeneous Catalyst for the Aqueous Room Temperature Hydrogenation of CO ₂ to Formic Acid
EES - D1 - P019	Luca Mastroianni	Post-combustion CO ₂ capture using washcoated structured sorbents
EES - D1 - P020	Regina Silva	Development of 3D-Printed Composites of PLA Reinforced with Biomass
EES - D1 - P021	Hugo Vallet	Combining microwave-induced CO ₂ plasma with a carbon bed: optimizing conversion and energy cost

Posters		
EES - D1 - P022	Sajjad Hussain	First-Principles Insights into CO ₂ Reduction and the Competing HER on Transition Metal-Loaded Zr ₁₂ O ₁₂ Nanocages
EES - D1 - P023	Imelda Octa Tampubolon	Rapid mechanosynthesis of carbon-doped nickel sulfides for efficient evolution of hydrogen via water splitting
EES - D1 - P025	Lucas Elvira	Silica coating of PEM fuel cell Pt/carbon electrocatalysts to enhance durability upon operation
EES - D1 - P026	Changjoon Park	Improved Chemical Recycling of PET Derivatives: Enhanced Glycolysis via Morphology Control and Catalysis
EES - D1 - P027	Tayebeh Sharifi	Co-Doped BiVO ₄ Isotype Homojunctions for Enhanced Photocatalytic Water Treatment
EES - D1 - P028	Adriana Vulcu	Slurry Electrolysis for Sustainable Copper Recovery from Electronic Waste
EES - D1 - P029	Angela Kasza	Direct Electrochemical Processing of E-Waste for Sustainable Copper Recovery
EES - D1 - P030	Julia De Oliveira Primo	Antiviral Co-Doped ZnO Pigments: Solution Combustion Synthesis Using Aloe Vera Extract as an Alternative Green Fuel
EES - D1 - P031	Robert Pietrzak	Sustainable chitin carbons from <i>Hermetia illucens</i> pupal waste for ethylparaben removal
EES - D1 - P032	Emanuele Bassani	Influence Of The Grinding Conditions On The Particle Size Of Foam Powder
EES - D1 - P033	Robert Pietrzak	Carbon Adsorbents from Fennel and Caraway Seeds via Chemical Activation for Dexketoprofen Removal
EES - D1 - P034	Radka Guldanova	Supporting Environmental Remediation through the NanoEnviCZ Infrastructure: Development of Cyclodextrin-Modified Nanofibrous Membranes
EES - D1 - P035	Fileto Rodríguez	Establishing Raman spectral references for Climate- and Energy-Relevant Materials through ab initio dynamics and experimental tools
EES - D1 - P036	Benni Zou	Insights into Electro-oxidative Dehydrogenation of Aldehydes on Copper Foam
EES - D1 - P037	Albert Serrà	BiOI/SnO ₂ nanofibers for robust visible-light/PMS-driven multipollutant mineralization
EES - D1 - P038	Ali Haider	Development of hollow bimetallic catalysts supported on nanostructured carbons for sustainable PEM fuel cell electrodes
EES - D1 - P039	Arleth Gualle	Green synthesis of silver nanoparticles using plant extract for water disinfection

Posters		
EES - D1 - P040	Norbert Janowicz	Lumifilm: Luminescent downshifting films for improving photosynthetic efficiency of photobioreactors
EES - D1 - P041	Wouter Marchal	Assessment of biochar derived from Urena lobata fibers for use in PHA-based films
EES - D1 - P042	Hafiz Adil Qayyum	Ti ₄ C ₃ and Ti ₄ N ₃ MXenes for Next-generation sodium ion battery anodes
EES - D1 - P043	Kyung-Duk Zoh	Assessing PFAS Fingerprints and Precursor Burden in AFFF-Impacted Waters and Sediments
EES - D1 - P044	Tatinaidu Kella	Toward Sustainable Aromatics Production: Zeolite-Catalyzed Conversion of Biomass- and CO ₂ -Derived Alcohols
EES - D1 - P045	Bivas Chandra Roy	Efficient Hydrogenation of CO ₂ to Formate by Homogeneous Bidentate Phosphine-Rhodium System
EES - D1 - P046	Zulfiqar Ahmad Rehan	Closed-Loop Chemical Recycling of PET via Glycolysis: Preserving Structural, Thermal, and Molecular Integrity with Post-Consumer Waste
EES - D1 - P047	Amina Ouadah	Insight PET water bottles recycling through reactive extrusion: conditions and processing
EES - D1 - P048	Sameera Shafi	Ti ₂ C MXene-Driven EMSI in Cu-ZnO Catalysts for CO ₂ Hydrogenation to Methanol
EES - D1 - P050	Bruna Fernandes	Valorization of textile waste through enzymatic processes
EES - D1 - P064	Nazia Siddiqui	Upgrading date palm-derived organosolv lignin oil into cycloalkanes for sustainable aviation fuel (SAF) via Ni-based bifunctional catalysis
EES - D1 - P065	Ahsan Ali	Ni/LaMnO ₃ Perovskite Catalysts Promoted by Alkali and Alkaline Earth Metals for Green Hydrogen Generation via NH ₃ Decomposition
EES - D1 - P066	Ata Ur Rehman	Accelerated LiF/HCl Etching for Rapid MXene Synthesis Beyond Ti ₃ AlC ₂
IM - D1 - F01	João Rodrigues	Exploring bioinspired complex coacervates as carriers of cell-loaded liquid-core capsules for biomedical applications
IM - D1 - F03	Catherine Amiens	Easy access to ε-Fe ₂ N nanomaterials from Fe nanocrystals
IM - D1 - F04	Mujahid Mustaqeem	Circularly Polarized Spin Light Emitting Diodes from Chiral Two-Dimensional Superlattices
IM - D1 - P04	Ilan devroey	Ultrafast charge transfer and coherent phonons in electroactive organic cation-templated low-dimensional perovskite analogues

Posters		
IM - D1 - P05	Cruz Luís	Layer-by-Layer supramolecular assembly of boronic acid chalcone-containing biomembranes for pH-controlled complexation of catechol-rich polyphenols
IM - D1 - P06	Staes Thomas	Ti-based core-shell shaping for Ac-225/Bi-213 separation
IM - D1 - P07	De Meester Féline	Unraveling competing reactions in the synthesis of renewable α -methylene- γ -valerolactone
IM - D1 - P08	Concellón Alberto	Liquid Crystal Emulsions as Multifunctional Platforms for Soft Actuation and Adaptive Photonics
IM - D1 - P09	De Herdt Zoë	RENOVATE-PU: Recycle the non-recyclable by valorizing industrial chemical recycling techniques for polyurethane
IM - D1 - P10	Chiang Tzu Hsuan	Synthesis of phosphorus-sulfur containing Schiff base by Kabachnik-Fields reaction
IM - D1 - P11	De Turck Wannes	Structural mapping of photosalient B $\leftarrow$ N molecular crystals featuring intermediary dimer clusters
IM - D1 - P12	Mampaey Jasper	Development of radiation-stable and selective sorbent materials for direct Bi-213 generators
IM - D1 - P13	Pochet Corentin	Self-Assembled Polymer Heterojunctions for Solar to Hydrogen
IM - D1 - P14	Mineo Placido	Stability Enhancement of Polyetherimide under Harsh Space Conditions via Covalently Bound Self-Passivating Silica Layers
IM - D1 - P15	Ballesteros-Garrido Rafael	Metal ion-triggered Collapsed Hydrogels as new materials for bacterial population control
IM - D1 - P16	Lee Changyeon	Form-Factor Free, Liquid Crystal-based Gels for Biosensors
IM - D1 - P17	Pedrola Teixell Marina	Rational Design of Lignin-Derived Bio-based Plasticizers for Sustainable Polymer Applications
IM - D1 - P18	Balaba Nayara	Sustainable Anticorrosive Pigments from Mussels Shell By-Products
IM - D1 - P19	Nicosia Angelo	A curcumin-extract-containing copolymer as an optical sensor for volatile amines in smart food packaging applications
IM - D1 - P20	Claesen Brian	Phosphorylated lignin residues as a filler material for HDPE composites
IM - D1 - P21	Sergio Moles Quintero	Engineering Indenofluorenes with Controlled Diradical Character and Excited-State Aromaticity toward Singlet Fission

Posters		
IM - D1 - P22	Semih Macit	Dual crosslinked printable chitosan/PEG/ γ -cyclodextrin hydrogels with tunable rheological properties
IM - D1 - P23	Abdous Slimane	Lightweight Energetic Polymers for Next-Generation Ammunition
IM - D1 - P24	Chabane Houssém	Ionic liquids: A new way in the preparation of sustainable PBSA nanobiocomposites
IM - D1 - P25	Abdul Rahim Mohammed Siddiq	Interfacial Effects of Monomeric and Dimeric Surfactants in Waste-Oil Microencapsulation for Advanced Self-Healing Materials
MDR - D1 - F01	Martin Gill	Green(er) synthesis of MLCT-emissive ruthenium(II) polypyridyl complexes
MDR - D1 - F02	Luiz Carlos Silva-Filho	Anthrazoline derivatives as photoinitiators for photopolymerization reactions: studies about the synthesis and application.
MDR - D1 - F03	Tristan Mairath	Design of chiral ligands based on the reaction of α -functionalized lithium alkyls with iminium salts
MDR - D1 - F04	Miriam Gulman	Molecular design of peptidic ligands for cortactin-SH3
MDR - D1 - F05	Oleksandr Liashuk	Synthesis and application of alkylstannatranes: Versatile precursors for C(sp ³)-C(sp ²) cross-coupling
MDR - D1 - F06	Mina Bathen	Synthesis of n-3 Polyunsaturated Docosahexaenoic Acid-Like Methoxylated Ether Lipid
MDR - D1 - P01	Rinaldo Poli	How do acrylate radicals terminate? New evidence to settle a never-ending debate
MDR - D1 - P02	Josefine Brindöpke	Verification, Falsification and Revision of the Constitution and Configuration of Daucane Sesquiterpenoids Based on Total Synthesis and X-ray Crystallography
MDR - D1 - P03	Francisco García Cirujano	Green ionic metal-organic frameworks as nanocatalysts for CO ₂ fixation
MDR - D1 - P04	Mara Schöler	Why can we deprotonate methylsiloxanes with the combination of t-BuLi and TMEDA?
MDR - D1 - P05	Felix Friedt	Development of synthetic methods for terpyridine-based solid molecular catalysts
MDR - D1 - P06	Rita Skoda-Földes	Coordination chemistry of a ferrocenyl terpyridine-like ligand: electrochemical sensing of metal ions
MDR - D1 - P07	Oleksandr Liashuk	Synthesis and physicochemical assessment of cis-RF substituted cyclobutane derivatives

Posters		
MDR - D1 - P08	Yong Rok Lee	Rh(III)-Catalyzed [3+2] Annulation via C(sp ²)-H Activation for the Synthesis of Pyrimidinyl-Embedded Pyrrolo[3,4-b]indoliones
MDR - D1 - P09	Lina Filla	OLED Material by Late-stage Functionalization of Hexa-peri-benzocoronene-fluoranthene Hybrid Directed by Dynamic Inversion of Helicity
MDR - D1 - P10	Yuming Chen	Enhancing organic electrochemical transistor performance through synthesis of polythiophene with carbonyl ester-bridge ethylene glycol side chains and investigating extended conjugation effects
MDR - D1 - P11	Anamaria Hanganu	Synthesis and hosting ability of dynamic N-acylhydrazone-based macrocycles
MDR - D1 - P12	George Costache	Multistate photoswitches containing arylazopyrazole and N-acylhydrazones units
MDR - D1 - P13	Giulia Marcolli	Innovative hydrophilic ligands for the selective recovery of Am(III) from spent nuclear fuel
MDR - D1 - P14	Martin Blavier	Single-Molecule Force Spectroscopy of a Trefoil Knot Gated by a Diels-Alder Mechanophore
MDR - D1 - P15	Clara Schmitt	A Diastereoselective Synthesis of small α Calix[4]pyrrole Building Blocks
MDR - D1 - P16	Janos Wasternack	A Scalable and Resource-Saving Synthesis of Dipyrromethanes and Tetrapyrroles - Minimal Polymer Formation and Facile Purification
MDR - D1 - P17	Oleksandr Grygorenko	Bicyclic 1,4-Dioxepanes – Novel Advanced Building Blocks for Drug Discovery
MDR - D1 - P18	Oleksandr Grygorenko	Stability of Heteroaromatic Sulfonyl Chlorides and Fluorides
MDR - D1 - P19	Leticia D. Costa	Novel 2-pyridyl functionalized thiazolo[5,4-c]isoquinolines as selective chemosensors for metal cations
MDR - D1 - P20	Leha Dmytro	Difluoromethoxy Group as a New MedChem Handle
MDR - D1 - P21	Guillermo Gallardo Vásquez	Synthesis and Characterization of The Silver (I) Tranexamate Complex With Potential Antibacterial Activity
MDR - D1 - P22	Sourav Kumar	Synthesis of Diverse Allylic Sulfone Derivatives via Sequential Hydroxylation of 1,3-Enynes
MDR - D1 - P27	Mohammad Usman	Catalytic ammonia oxidation mediated by high-spin Fe(III) complex: combined experimental and DFT study
RC - D1 - F01	Sanjiv Prashar	Transforming chemistry education for the green transition: a competence-based European approach

Posters		
RC - D1 - F02	Vera Meynen	Implementing sustainability competences and practices at Quy Nhon University, Vietnam.
RC - D1 - F03	Iwona Maciejowska	The ECTN Eurolecturer Academy: A European Platform for Teaching Innovation and Professional Development in Chemistry Higher Education
RC - D1 - F04	Silke Fähnemann	Educating Future Chemists for Sustainable Transformation: Digital and Competency-Based Approaches across Vocational and Higher STEM Education
RC - D1 - F05	Dorien Baeten	Sustainability Hackathon: Bridging the Gap between Higher Education and Society

Posters		
APC - D2 - F01	Scovacricchi Teresa	Graph-Based Clustering of Isotopic Patterns in High-Resolution MALDI-MSI Using Matrix Distances
APC - D2 - F02	Pacchione Guglielmo	High-Sensitivity UHPLC-MS/MS Multi-Residue Analysis of Pharmaceuticals in Aquatic Systems: Methodological Advances for Environmental Risk and AMR Assessment
APC - D2 - F03	Piscitelli Fabiana	"Integrating LC-MS and maldi-2 MS imaging to map brain region specific distribution of endocannabinoids and their congeners"
APC - D2 - F04	Sule-Ogli Ada Florence	Spatial Distribution, Bioaccumulation and Human Health Risk Assessment of Heavy Metals in Urban Topsoil and Neem (<i>Azadirachta indica</i>) Bark in Makurdi, Benue State Nigeria
APC - D2 - F05	Jeonghun Kim	TiO ₂ -Supported Ru-Fe Catalysts for the Hydrodeoxygenation of Bis(2-hydroxyethyl) Terephthalate (BHET) Prepared by the Glycolysis of Polyethylene Terephthalate (PET)
APC - D2 - P01	Miljanic Snezana	Silver and gold nanospheres for SERS-based detection of G-quadruplexes
APC - D2 - P02	Orteza Khianne Ed Miguel Pajarillo	Interactions of engineered silica nanoparticle-bound PFOA: adsorption and toxicological effects on pulmonary health
APC - D2 - P04	Hussain Abrar	Ratiometric Fluorescence and Chromogenic Probe for Ultra-Trace Detection of Selected Transition Metal Ions
APC - D2 - P06	Kim Yong-Kyoung	Determination of antimony species and analysis in various food using ICP-MS
APC - D2 - P07	Kaur Tarnveer	Thermodynamics studies of L-threonine in aqueous 1-butyl-3-methylimidazolium chloride solutions over the temperature range T = (288.15-318.15) K
APC - D2 - P08	Verdin Alexandre	Controlling Gold Nanoparticles Aggregation in Continuous Flow Microreactor for Robust Production of Ultrasensitive NIR SERS Nanotags
APC - D2 - P09	T Phanrang Pynskhemborlang	Synergistic modulation of anticholinergic and antioxidant features of Alzheimer's disease drugs adsorbed on tunable graphene oxide surface
APC - D2 - P10	Panda Soumya Ranjan	Spacer-mediated Interplay of Triplet Excitons in Delayed Fluorescent Emitters
APC - D2 - P11	Smolíková Vendula	Analytical strategy for speciation-resolved monitoring of labile arsenic using passive sampling and HPLC-ICP-MS
APC - D2 - P12	Gabbricci Giulia	Thermotropic and thixotropic lipid based nanocarriers: structure, rheology and phase behaviour
APC - D2 - P13	Brum Malta Luiz Fernando	Cyclodextrin-coumarin complexes as corrosion inhibitors of carbon steel 1020 in acid medium
CAI - D2 - F01	Ekmekci Cumhuri Gokhan	Structure-based discovery of NLRP3 inflammasome inhibitors: an integrated computational approach combining virtual screening, molecular dynamics, and binding free energy calculations

Posters		
CAI - D2 - F02	Ekmekci Cumhur Gokhan	Structure-based identification of novel USP7 inhibitors targeting the p53-MDM2 axis: a computational approach for anticancer drug discovery
CAI - D2 - F03	Leherte Laurence	Mimicking the effect of displacement parameter and crystallographic resolution on the topology of electron density distributions: application to non-covalent interactions
CAI - D2 - F04	Lipin Raju	How Subsurface Carbon Affects Hydrogen Interactions at Transition Metal Electrodes
CAI - D2 - F05	Hruška Eugen	Bridging chemical property explainability between chemistry and machine learning
CAI - D2 - F06	Sulkova Katarina	FNDMC as a tool for quantifying static and dynamic electron correlation in complex systems
"CAI - D2 - F07"	Andrae Dirk	Accurate property data for small molecules from theory
CAI - D2 - F08	Suñer-Rubio Adrián J.	Control of quantum entanglement and electronic coherence in attosecond molecular photoionization
CAI - D2 - P01	Sheu Sheh-Yi	Molecular quantum computer
CAI - D2 - P02	Verheyen Seppe	Towards circular design of thermoset polyurethanes: harnessing molecular dynamics and density functional theory for the depolymerization reactivity
CAI - D2 - P03	Jiang Yifan	Complex absorbing potentials for density functional theory
CAI - D2 - P04	Andrae Dirk	Accurate property data for small molecules from theory
CAI - D2 - P05	Wittemann Tobias	Dissociative electron attachment to building blocks of DNA studied by ab-initio molecular dynamics with complex absorbing potentials
CAI - D2 - P06	Adriano Silva	Weak Global Correlations, Hidden Local Trends: Regime-Aware Analysis of Biochar Synthesis–Property Data
CBF - D2 - F01	Justine Kapp	Quinoline based luminescent imidazolium salts as vector for gene therapy
CBF - D2 - F02	Oana Grad	Designing Antibacterial Materials Using Cysteine
CBF - D2 - F03	Haris Majstorovic	Synthesis & structure-activity relationship study on a plant-derived glycoside that attenuates virulence in <i>Pseudomonas aeruginosa</i>
CBF - D2 - F04	Chang-Hyung Choi	Biomimetic aqueous-core hydrogel microcapsules for spatially organized enzymatic cascade reactions

Posters		
CBF - D2 - F05	Catarina Maria	Design and synthesis of novel sugar-based antibacterial agents against Gram-negative bacteria
CBF - D2 - F08	Luca Pozzi	Cannabizetol: discovery of a new cannabinoid
CBF - D2 - P01	Lu-Sheng Hsieh	Molecular characterization of Dendronephthya gigantea phenylalanine ammonia-lyase
CBF - D2 - P02	Julie Dullier	Crystallization-assisted and Mechanoenzymatic Synthesis of Chiral Amines Using Transaminases
CBF - D2 - P03	Aurel Tăbăcaru	New water-soluble La(III) and Ce(III) complexes as structurally defined candidates for anticancer applications
CBF - D2 - P04	Dongyun Shin	Development of Novel JAK Degradors via PROTAC Technology
CBF - D2 - P05	Eva Müller	Hydrotrope-Modulated AGA Hydrogels as Sustainable Nanocarriers for Molecules of Different Hydrophobicity
CBF - D2 - P06	Prashant. B Singh	Combined Computational & Experimental Approach to Design & Synthesize New Molecules Having Anti-Tuberculosis Properties
CBF - D2 - P07	Lili Becera	Physicochemical Characterization and In Vitro Digestibility of Cocoa Pod Husk Extract for Application in Edible Gums
CCS - D2 - F01	Maarten Mulier	Nanopatterned chemically modified carbon surfaces for carbohydrate valorization
CCS - D2 - F02	Patrick Lechner	Spin frustration and its role in stability and reactivity of first-row transition metal MOFs
CCS - D2 - F04	Jean Cedric Madrigalejo	Covalent functionalization of carbon surfaces with phenyl sulfonic acid for nanostructured, bifunctional catalysts in biomass chemical transformations
CCS - D2 - F05	Milda Tomy	Beyond Catalyst Immobilization: Engineering Local Proton Donor Microenvironments for CO ₂ Electroreduction
CCS - D2 - F07	Leon Schidowski	Theoretical and experimental investigations of acetal formation during the oxidation of xylose to formic acid catalysed by H5PV2Mo10O40 in methanolic-aqueous solution
CCS - D2 - P01	Çağla Akkol	Photocatalytic Performance of Phthalocyanine-Based Catalysts in the Degradation of Chlorophenols
CCS - D2 - P02	Hui Xu	Triple-Active-Site Synergy in Cu-Doped ZIF-8 Derived Carbons Enabling Highly Efficient Hydrogen Production
CCS - D2 - P03	Ismail Uzunel	Triazole groups substituted co(ii) and mn(iii) phthalocyanines coated c1018 alloy surfaces

Posters		
CCS - D2 - P04	Ismail Uzunel	Synthesis, Characterization, and Chemometric Optimization of a DLLME Method for Cu ²⁺ Determination Using Metal Free Phthalocyanine
CCS - D2 - P05	Igor Djerdj	Photocatalytic CO ₂ Reduction under Visible Light Using Ordered and Disordered Ceria–Zirconia-Based Catalysts
CCS - D2 - P07	Dipanjana Sarkar	Redox-Active Ligand-Driven Oxygen Evolution by Molecular Cobalt(III) Catalyst
CCS - D2 - P08	Raphaël Delogne	Cell-in-Series Testing as an Accelerated Tool for Predicting Performance and Component Degradation in Flow Batteries
CCS - D2 - P09	Hamed Pourzolfaghar	From Ion Transport to Electron Storage: Rethinking the Fundamentals of Electrochemical Energy Storage
CCS - D2 - P10	Hsiao-Ching Lin	From Isoprene Units to Bioactive Architectures: Mechanistic Insights into Isoprenoid Biosynthesis
CCS - D2 - P11	Vitaliy Masliy	From furfural to 1,4-pentanediol, exploring an uncommon product of furfural hydrogenation.
CCS - D2 - P12	Anna Lo Presti	Transforming Ionic Cocrystals into Next-Generation Ionic Carbon Nitrides for Solar Fuel Production
CCS - D2 - P13	Umut Kilic	Titanocene-Catalyzed Hydrosilylation of Oxetanes
CCS - D2 - P14	Lennart Hanz	Discovery of new catalysts for the radical arylation reaction by predictor-based cyclic voltammetry (CV) screening
CCS - D2 - P15	Cathal Kelly	Carboxylic Acid-Based Carbon-Carbon Cross-coupling by Radical Decarboxylation's in Continuous Flow
CCS - D2 - P16	Jin Hyung Lee	Electrochemical conversion of kenaf biomass to glucose: Role of Reactive chlorine species on dimensionally stable anodes
CCS - D2 - P17	Vicent S. Safont	Density functional theory exploration of Mo ₃ S ₄ cluster-catalyzed phenyl acetylene hydrogenation in the presence of acrylonitrile
CCS - D2 - P18	Serhii Tkachenko	Perovskite-type lanthanum cobalt oxide powders synthesized by reactive milling
CCS - D2 - P19	Konstantin Woitol	Dihydroquinazolinones by titanocene catalyzed reductive radical addition to quinazolinones
CCS - D2 - P20	Niklas Schmidt	Cross electrophile coupling of unstabilized epoxides by Ni&Ti cooperative catalysis
CCS - D2 - P21	Gabriel Lopes	Conversion of CH ₄ and CO ₂ into acetic acid: the potential of montmorillonite as a catalyst

Posters		
CCS - D2 - P22	Claire Bradley	Copper(II)-based Metal-Organic Materials as Catalysts for the Hydrogen Evolution Reaction
CCS - D2 - P23	Matilde Onofri	Tuning heterogeneous catalysts for the depolymerization of polyurethane waste
CCS - D2 - P24	Jakob Albert	Efficient Catalytic Hydrogenolysis of Glycerol to 1,2-Propanediol Using a Selective Multifunctional Nanotube-Supported Catalyst for developing a SMART Multiphase Reactor
CCS - D2 - P25	Marcela Achimovičová	Alternative mechanochemical route for producing silver powder from silver salts
EES - D2 - F01	Vantomme Christine	Shining Light on Plasma Catalysis: Transparent DBD Reactors for CO ₂ Conversion
EES - D2 - F02	Matos Renata	Towards Greener Energy: Bio-Based Alternatives for Sodium-Ion Battery Components
EES - D2 - F03	Baláž Matej	Rapid combustive mechanochemical synthesis of metal chalcogenides for energy conversion applications
EES - D2 - F04	Da Silva Jaques João Pedro	Pt-Ru based nanomaterials enabling coupled cathodic hydrogen evolution and anodic formaldehyde oxidation in fuel cell systems
EES - D2 - F05	Nan Lan	Enhancing photosynthetic light utilisation with wavelength-shifting polymer films
EES - D2 - F08	Postole Georgeta	New insights in the tricky reaction of isopropanol dehydration to propylene
EES - D2 - F09	Templ Johanna	Decoding Mechanochemical Drivers: Experimental Isolation of Single Impact, Cumulative Energy, Aging and Liquid-Assisted Grinding Effects in Organic Mechanosynthesis
EES - D2 - F10	Lee Jaewon	Electrophilic Additive-Mediated Chemical Recycling of Trithiocarbonate-Terminated PMMA at High Polymer Concentrations
EES - D2 - P01	Anthony Sanderse	From materials development to system integration: photoanode surface activation and validation of a continuous-flow PEC device for efficient solar hydrogen production
EES - D2 - P02	Abdeldjalil Aimen Kaidi	Comparative study on the inhibitory effectiveness of plant extracts against corrosion of a metal alloy
EES - D2 - P03	Keikhosro Karimi	Electrified Adsorptive Separation of Fermentative Iso-Butyric Acid
EES - D2 - P04	Sofia Caldas	Optimization of TPU Recycling Processes used in the Ceramic Industry
EES - D2 - P05	Pavína Konopáčová	Functionalized Cyclodextrin Materials for Advanced PFAS Removal

Posters		
EES - D2 - P06	Albert Serrà	Pollen-Templated Cu and Ni@Cu (Photo)Catalysts for Sustainable Degradation of Pharmaceutical Pollutants
EES - D2 - P07	Evelina Colacino	Impactive: european mechanochemists develop greener pharmaceuticals
EES - D2 - P08	Alexandra Lacoban	Enhancing Hydrogen Production and CO ₂ Photoreduction Efficiency Using 1D TiO ₂ based Materials
EES - D2 - P09	Valerie Theuns	Novel BaTiO ₃ - and BaFeO ₃ -Based Electrode Materials for SOFCs
EES - D2 - P10	Andrea Casagrande	Mechanochemical Amidation for Sustainable Agrochemical Synthesis
EES - D2 - P11	Antonio Monopoli	Photocatalytic homocoupling of benzylamines under ambient and green conditions using naturally derived photocatalyst and solvent
EES - D2 - P12	Yakubu Wudil	Metallic Cu–Ni nanoinclusions for simultaneous electrical enhancement and thermal suppression in Bi ₂ Te _{2.7} Se _{0.3} thermoelectric thin films
EES - D2 - P13	Mzamo Shoji	The influence of incorporating alkaline metals on alumina for xylitol hydrogenolysis over Ni catalysts
EES - D2 - P14	Xingyu Li	Tailoring the Interfacial Microenvironment: Hydrophilic/Hydrophobic and Cationic Effects on CO ₂ Reduction Selectivity
EES - D2 - P16	Hyun Young Jung	3D Laminated Graphene Photodetectors for Non-Contact Monitoring of Greenhouse Gases
EES - D2 - P17	Davin Cronly	Continuous flow electrochemical oxidation of NaBr for the in-situ generation and telescoped utilisation of Br ₂
EES - D2 - P18	Penny Govender	A first principles study of heterostructure Ru/ClF for potential use as anode in Li ion batteries
EES - D2 - P19	Yasmin Edañol	Alkalinity-Dependent Structural Features and Cr(VI) Adsorption of One-Pot Synthesized Ca–Al Layered Double Hydroxides
EES - D2 - P20	Helder Van Poyer	Repurposing a commercial plasma spraying torch: quenching by turbulence, for efficient CO ₂ conversion
EES - D2 - P21	Eva Mueller	Strategies for Environmentally Friendly Solvent Media
EES - D2 - P22	Robbe Bryssinck	Plasma-based CO ₂ conversion: scaling from lab to industry towards continuous CO production
EES - D2 - P23	Lole Jurado	Highly Dispersed Cu on CeO ₂ -Al ₂ O ₃ via a Novel Synthesis Route for Efficient Selective Hydrogenation of HMF

Posters		
EES - D2 - P24	Khianne Ed Miguel Orteza	Fouling-resistant metal-organic framework monoliths for pharmaceutical water treatment
EES - D2 - P25	Sue-Faye Ng	Carbon nitride allotropes for Photo(electro)catalytic reactions
EES - D2 - P26	Oriana Calderón	Effect of Ni Loading and Fe Promotion in NiFe–N–C Catalysts for CO ₂ Electrolysis
EES - D2 - P27	Lutz Burow	Recyclable plastics from bio-based monomers
EES - D2 - P28	Marco Taddei	A water-based synthetic route to the metal-organic framework UiO-66 starting from PET derived terephthalate esters
EES - D2 - P29	Daniel Modafferi	Electrical characterization of a microbially produced, highly conductive MOF material
EES - D2 - P30	Miren Ugarriza	Ni-based catalyst deactivation in the dry reforming of HDPE pyrolysis volatiles
EES - D2 - P31	Jin Hyung Lee	Efficient and sustainable production of calcium carbonate from oyster shell waste: A carboxylic acid-mediated green processing approach
EES - D2 - P32	Kevin Keller	Reactivity of Dioxygen and Hydrogen Peroxide with Macrocyclic Iron Complexes
EES - D2 - P33	Rocco Cancelliere	Diverse Recycling Pathways of Graphitic Anode Materials for Advancing Sustainable Battery Technology
EES - D2 - P34	Katrin Santin	Valorisation of HDPE by pyrolysis and in-line catalytic cracking with metal-modified ZSM5 zeolite
EES - D2 - P35	Miren Ugarriza	Thermodynamic assessment of the joint valorization of CO ₂ and waste plastics by pyrolysis and in line combined reforming for syngas production
EES - D2 - P36	Zara Cherkezova-Zheleva	Sustainable Protocol for Direct Reuse of Platinum Group Metals from Spent Automotive Catalysts
EES - D2 - P37	Joseph Parkinson	Sustainable mechanochemical synthesis of Molybdenum and Tungsten dichalcogenides for the Hydrogen Evolution Reaction
EES - D2 - P38	David Barker	Preparation of cellulose-based adsorbents for eradication of pollutants in water
EES - D2 - P39	Thamer Gouasmia	Design and Characterization of New Eco-Friendly Nitrobenzoxazine Polymers with Energetic Potential
EES - D2 - P40	Mohammed Seddik Razali	Experimental Investigation of Antibacterial Properties and Mechanical Performance Enhancement of Sintered Seashell-Reinforced Poly(lactic acid) and Poly(butylene succinate) Biocomposites Planned for 3D Printing

Posters		
EES - D2 - P41	Hifsa Khurshid	Optimization of the polycyclic aromatic hydrocarbons (PAHs) removal process in wastewater using MXene-supported activated carbon (MX-AC) material
EES - D2 - P42	Daouia Ingrachen	Synthesis and Characterization of Sol-Gel-Derived Co/SiO ₂ Nanocomposites for Electrochromic Applications
EES - D2 - P43	Zulfiqar Ahmad Rehan	Development of a Superhydrophobic Nonwoven Polyester Membrane for Efficient and Scalable Oil-Water Separation: Eco-Friendly Fabrication and Performance Evaluation
EES - D2 - P44	Abdullah Bafaqeer	Fabrication of 2D/1D S-scheme Pg-C ₃ N ₄ /Ag ₃ VO ₄ nanocomposite with high interfacial charge separation for Highly Selective Photoconversion of CO ₂ into Fuels
EES - D2 - P46	Muhammad Usman	Electrochemical CO ₂ Conversion to Formic Acid Using Bismuth Nanoparticle Electrocatalysts
EES - D2 - P47	Tahir Rasheed	Polyaniline/nanocellulose/ MXene hybrid nanocomposites as greener and sustainable electrocatalysts for efficient oxygen evolution reaction
EES - D2 - P48	Mduduzi Cele	Conversion of CO ₂ to value-added products over a Ca and Cu modified UiO-66 catalyst
EES - D2 - O07	Xiaopan Xue	Liquid-Solid Phase Separation-Assisted Direct CO ₂ Capture from Air with A New System
IM - D2 - F01	GuanLin Wu	Impact of acceptor strength and backbone planarity on the charge transport of D-A conjugated polymers
IM - D2 - F02	Brent Van Ballaer	Applying dissociative chemistry to obtain gradient hydrogels
IM - D2 - F03	Michal Rezanka	Cyclodextrin-Based Sorbents for Water Remediation
IM - D2 - F04	Guangyuan Feng	In-situ Growth of Bilayer COF Heterojunctions for Memristor Devices
IM - D2 - P01	Wytrych Patrycja	Can POSS be used as radiative cooling materials?
IM - D2 - P02	Germónpré Stijn	Structural Diversity in γ-CD-MOFs: Two New Polymorphs
IM - D2 - P03	Saka Ece Tugba	Surface characterization and daylight-activated antibacterial performance of zn(ii) Phthalocyanine-coated Titanium
IM - D2 - P04	Corea Carmen	Nanocellulose extraction and valorization from Spent Coffee Grounds for primary and secondary packaging
IM - D2 - P05	Victor Freitas	Understanding the Molecular Interaction Mechanisms of Wine-Waste Pigments and Biomordants to Produce Dyed Sustainable Wool Textiles

Posters		
IM - D2 - P06	Katsantonis Spyridon N.	Dependence of the optical properties of solid-state fluorescent carbon dots on temperature
IM - D2 - P07	Graulus Geert-Jan	Heparin-binding domains in elastin-like proteins: a way towards improved tissue integration?
IM - D2 - P08	Cataldini Simone	Bridging photoswitch and fluorescence features in artificial amphiphiles for membrane dynamics in liposomal vesicles
IM - D2 - P09	Gomes Clara S. B.	Zinc-based BIAN complexes and Hydrogen-Bonded Organic Frameworks: sustainable photocatalysts for water-splitting hydrogen production
IM - D2 - P10	Wolfson Adi	Heterogenization of metal catalyst on carrageenan polysaccharides for sustainable synthesis
IM - D2 - P11	Elabed Makram	From Waste to Value-Added Polymers: Chemical Transformation of PET into Eco-Friendly Copolyesteramides
IM - D2 - P12	Escorihuela López Enrique	Molecular templates as platforms for controlled surface fabrication of molecular electronic devices
IM - D2 - P13	Steinbrugger Magdalena	Greener synthetic strategies toward small-molecule organic semiconductors
IM - D2 - P14	Nguyen Dien Duy	Fabrication of Robust Films of Electrochromic Materials: Towards Smart Device Applications
IM - D2 - P15	Lee Hye Sun	Effect of PVA Concentration on the Morphology and Characteristics of Hydroxyapatite Microspheres Prepared by Spray Drying
IM - D2 - P16	Orteza Khianne Ed Miguel Pajarillo	Upscaling the exfoliation process of montmorillonite for epoxy nanocomposites
IM - D2 - P17	Bicil Zeynep	Experimental investigation of hydrogen storage in defective fullerenes
IM - D2 - P18	Doğan Mehmet	Lithium-induced defect design in fullerene structures for enhanced hydrogen storage
IM - D2 - P19	Koçer Kizilduman Berna	MOF-5-Based Fullerene Nanocomposites for Enhanced Hydrogen Storage Applications
IM - D2 - P20	Doğan Serap	Functionalized carbon nanotube-based affinity matrices for efficient purification and kinetic evaluation of polyphenol oxidase
IM - D2 - P21	Turhan Yasemin	Defect-dopant interactions in graphene-fullerene nanocomposites for hydrogen storage
IM - D2 - P22	Çam Şeyma	Hydrothermal titanium doping of defect-engineered fullerenes for enhanced hydrogen storage

Posters		
IM - D2 - P23	Robin Erkens	A Linear Carbazole-Based Phosphonic Acid for Enhanced Efficiency in 3D Perovskite Solar Cells
IM - D2 - P24	Morgane Van Hove	ETS-10 coated honeycombs as possible candidate for CO ₂ capture in humid flue gas streams
MDR - D2 - F01	Giulia Marcolli	Synthesis of bispidine-based fluorinated chemosensors for selective analytes recognition
MDR - D2 - F02	Navathej Preetha Genesh	The Two-Dimensional Locksmith: Ligand-Driven Structural Changes in Self-Assembled Supramolecular Networks of Bisporphyrin Cages at the Solid-Liquid Interface
MDR - D2 - F03	Vincent Nilsson	Boracycle-mediated aromatic C-H ortho-methylation using methanol as a methylating reagent
MDR - D2 - F04	Bárbara Sampaio	Innovative scaffolds based on 4-hydroxyproline as chemical permeation enhancers, for transdermal drug delivery
MDR - D2 - F05	Maryam Butt	Synthesis of Fluorinated Partially Saturated Bicyclic Drug Scaffolds
MDR - D2 - P01	Lee Chieng	Development of Continuous Flow Photocatalytic Decarboxylative Cross-Coupling Reactions of Bargellini Acids
MDR - D2 - P02	Dylan Mangru	Exploiting Flow Technology for the Sustainable Synthesis of Industrially Relevant Building Blocks.
MDR - D2 - P03	Yi-Chou Tsai	Extending [2+2+2] and [2+2+1] Cyclizations to Mo-Mo and W-W Multiply Bonded Complexes
MDR - D2 - P04	Tilman Köhler	[2.2]-to-[3.2] Skeletal editing of the paracyclophane core via controlled phenonium ion formation
MDR - D2 - P05	Elżbieta Wojaczyńska	Synthesis of Amino-Functionalized Ferrioxamine E Biomimetics - Toward Modular Trihydroxamate Macrocycles for Late-Stage Diversification
MDR - D2 - P07	Xinyu Mu	Ketazine-linked covalent organic frameworks: a new linkage platform for crystalline π -conjugated porous materials
MDR - D2 - P08	Javed Pathan	Topochemical Polymerization as a Pathway to Structurally Precise 2D organic Polymers
MDR - D2 - P09	Silje Iren Strøm	Fluorine-Free Nitrene Insertion for Covalent Functionalization of Cross-Country Skis
MDR - D2 - P10	Diana-Ioana Eftemie	New heterometallic 4f-4f' complexes – an original synthetic approach
MDR - D2 - P11	Daniel Griess	Functionalized Hydrosilanes: Pathways to Silicon-Based Semiconductors

Posters		
MDR - D2 - P12	Robert Botea	Lanthanide and transition metal complexes derived from polydentate Schiff bases
MDR - D2 - P13	Valentin-Laurențiu Virgil	Design of optically-active coordination compounds using various ligands showing different types of chirality
MDR - D2 - P14	Daniela Silva Dos Santos	Redirecting a synthetic dead-end to an antimalarial compound with enhanced activity
MDR - D2 - P15	Lukas Dvorak	Design of hetero-functionalized triarylamine-based scaffolds as open-shell electrophotocatalysts
MDR - D2 - P16	Ana R. Reis	Metal-Catalysed Assembly of N-heterocycles via [2+2+2] Cyclisation
MDR - D2 - P17	Olexandr Pashenko	Preparative-Scale Synthesis of Heteroatom-Doped Adamantanes and Their MedChem Evaluation
MDR - D2 - P18	Hyungwoo Kim	End-Group Positioning Enables Selective Demicellization in Self-Immolative Poly(benzyl ether) Micelles
MDR - D2 - P19	Mees Hendrikx	Studies towards applying a palladium-catalysed arylation-acylation domino reaction for a new total synthesis of kinamycin F
MDR - D2 - P20	Mihai Răducă	Nitronyl nitroxide di- and triradical ligands obtained via Schiff condensation and their complexes
MDR - D2 - P21	Ștefan Dimitriu	Synthesis and magnetic properties of a family of dinuclear lanthanide complexes derived from 2-(phthalimidomethyl)-nitronyl-nitroxide
MDR - D2 - P22	Franziska Dorothea Klotz	Peri- and benzyl-lithiation of a chiral bicyclic amine: solvent-controlled regioselectivity
MDR - D2 - P27	Daniele Del Giudice	A single component chemical system to encode complex temporal evolution of pH
MDR - D3 - P28	Jaqueline Senra	Exploratory studies on the mechanosynthesis of the copper(II) cyclodextrin complex
RC - D2 - F01	Yaël Antonaros	Lipid–Mineral Interactions and Organic Residue Analysis in Archaeology
RC - D2 - F02	Natalie Daßler	Contaminated Heritage: Toxic Legacies in Historic Interiors
RC - D2 - F03	Aurora Cairoli	Green infrastructure and built heritage in historic cities under climate change



Posters		
APC - D3 - P01	Csontos Daniel	Determination of dopant elements in optical crystals with solid sampling high-resolution continuum source graphite furnace atomic absorption spectrometry
APC - D3 - P02	Csontos Daniel	Studies on the improvement of the electrolyte cathode atmospheric glow discharge for environmental monitoring purposes
APC - D3 - P03	Soyseven Murat	Artificial Intelligence-Assisted Optimization of an HPLC Method for the Determination of Levetiracetam and Piracetam
APC - D3 - P04	Hemdan Ahmed	LC-MS/MS Method Development and Validation for Clinical Pharmacokinetics and Therapeutic Drug Monitoring of Potassium-Competitive Acid Blocker Vonoprazan-Based Triple Therapy for <i>H. pylori</i> in Human Plasma
APC - D3 - P05	Weragalage Waruna Hashan Weragala	Forensic Characterization of Cannabis in Vape products and Labeled Products Seized in Two Court Cases: A Case Study
APC - D3 - P06	Ashrafzadeh Mohammad-Pouya	Silver Nanoparticle Synthesis using a Deep Eutectic Solvent and Green Tea
APC - D3 - P07	Piotr Mytych	Green twist to solvent extraction and separation of metallic species with elfin chelating ligands
APC - D3 - P08	Özbal Ayşegül	Drug release performance of amphiphilic polymeric micelles and cross-linked micelles
APC - D3 - P09	Verbert Selam	Influence of Silane-Based Monolayers on the Stability and Transformation of β -Glycine using SHG Microscopy
APC - D3 - P10	Belova Lidia	Ion mobility high-resolution mass spectrometry (IM-HRMS) – an emerging technique facilitating the analysis of environmental contaminants and their metabolites.
APC - D3 - P11	Bek Sanjar	Synthesis and crystalline structure of diaquabis (5-methylthiazole-2-carboxylate- κ^2 N,O) cobalt (II)
APC - D3 - P12	Angana Pan	Comprehensive analytical evaluation and risk assessment of elastomeric container closure system for biologics and small molecule parenteral drugs
CAI - D3 - F01	Tanimu Gazali	Ensemble Model Technique for Predicting the Yield of Dehydrogenation Products during the Oxidative Dehydrogenation of n-butane
CAI - D3 - F02	Lucia Warner	Automated design of peptide-based scavengers using MLIPs and Boltz2
CAI - D3 - F03	Ivkovic Zarko	Data-driven reactivity design through generative modeling with quantum chemistry validation
CAI - D3 - F04	Laux Anika	Comparative Modelling of Biological Methanation Reactors for Sustainable CO ₂ Conversion
CAI - D3 - F06	Zhang Chenfeng	Molecular Dynamics Insights into Ion Conduction and Gating Mechanisms of PKD2

Posters		
CAI - D3 - F07	Sharma Manoj	Quantum Computational, Spectroscopic, Topological, Molecular Docking, and Dynamics Studies of 2-Amino-3-Hydroxypyridine (2A3HP): A Potential Antimicrobial Agent
CAI - D3 - F08	Levison Anna	The Role of Metal-Ligand Binding on Natural Product Inhibitors of Methyl-Coenzyme M Reductase
CAI - D3 - P01	Shaikh Mohd Aatif	Design and synthesis and computational studies of 2-amino5,4b Thiazolopyrdine egfr based anti-cancer agent
CAI - D3 - P02	Yuan Shaoxuan	From manual operation to autonomous STM via visual reasoning AI
CAI - D3 - P03	Hussain Abrar	Novel Antimicrobial Agents: From Synthetic Design to Integrated In Vitro and In Silico Insights
CAI - D3 - P04	Usman Jamilu	Data-Driven Process Optimization for Selective Magnesium Recovery from Desalination Brine
CAI - D3 - P05	Millan Judith	Unravelling Aspartame Induced Activation Pathways in the TAS1R2/ TAS1R3 Receptor
CAI - D3 - P06	Calcagno Francesco	Quantum Computers For Molecular Inverse Design: The Quantum Ensemble Variational Optimization Algorithm
CAI - D3 - P08	Silva Adriano	Automated Classification and Quantification of Pickering Emulsion Droplets Using YOLOv7
CAI - D3 - P09	Zaid Mohd	A reproducible multi-scale computational workflow for DL-methionine in breast cancer targets: DFT, data-driven docking, MD and MM-PBSA validation
CAI - D3 - P10	Maria Jaworska	Mechanism of methylation of A-cluster in coenzyme A synthase by cobalamin. Insight from DFT calculations
CBF - D3 - F02	Jana Baroen	A multi-omics approach to understand how cold atmospheric plasma affects patient-derived head and neck and pancreatic tumors.
CBF - D3 - F03	Tanguy Scaillet	Characterisation of Brucella melitensis phosphoserine phosphatase through crystallographic and kinetic studies
CBF - D3 - F04	Man Shing Wong	Multimodal Nanoprobe for Amyloid- β Targeted Imaging and Oxidative Stress Monitoring in Alzheimer's Disease
CBF - D3 - F05	Eva Müller	Polyphenolates as Bipotent Photostabilising and Solubilizing Agents for Riboflavin
CBF - D3 - F06	Fayanne Nolin	Development of Oligonucleotide Probes to Study the Enzyme SNM1A
CBF - D3 - F07	Martin Gill	Green(er) synthesis of MLCT-emissive ruthenium(II) polypyridyl complexes

Posters		
CBF - D3 - P01	Perveen Akhtar	Nanoparticle-Based Lateral Flow Immunoassays for Detecting Marine Biotoxins in seafood: A Systematic Review of Trends in Development over Two Decades
CBF - D3 - P03	Katarzyna Szafrńska	Breaking the NMDAR/TRPM4 Protein Dialogue: Small-Molecule Disruptors as a Novel Neuroprotective Strategy for Ischemic Stroke
CBF - D3 - P04	Yun Mi Chung	Method Validation for the Determination of Pyridate in Agricultural Commodities
CBF - D3 - P05	Utibe Bassey Akpan	Impact of cation alkyl chain length on the antimicrobial efficacy of 1-alkyl-3-methylimidazolium ionic liquids
CBF - D3 - P06	Obed Obeng-Gyasi	What Lipid Composition Best Reproduces The Biophysical Properties Of Fungal Membranes?
CCS - D3 - F01	Karol Górecki	Multi-faceted insight into the thermochemical redox behaviour of manganese-oxide-based model catalyst, Na ₂ Mn ₃ O ₇ – comparative analysis through DFT, operando TEM and XAS
CCS - D3 - F02	Agata Olszewska	Tailoring Al-differentiated HZSM-5 Catalysts: A Solution for Controlled Ethylene Oligomerization and Resistance to Deactivation
CCS - D3 - F03	Andres Mollar Cuni	Phenanthrenequinones (PQs): Swiss army knife in photocatalysis
CCS - D3 - F04	Christophe Vande Velde	Hydrogen bond donating large pore MOFs as catalysts
CCS - D3 - F06	Diarmuid O'Hanlon	Enabling Technologies in Flow Chemistry for Data-Rich Reaction Optimisation
CCS - D3 - P01	Tim Jähnichen	Effect of Non-metal Dopants in Self-coupled g-C ₃ N ₄ Van der Waals Heterojunctions for Efficient Photocatalytic Tetracycline and PFOA Degradation
CCS - D3 - P02	Judit Lloreda Rodes	NiX/Al ₂ O ₃ catalysts for photocatalytic hydrogen production towards intended industrial application
CCS - D3 - P03	Judit Lloreda Rodes	Heterogeneous catalysts synthesis by electroless deposition for environmental applications
CCS - D3 - P04	Claudiu Bostan	Amino Acids as Organocatalysts for the Electrosynthesis of Pinacols from 4-Fluoroacetophenone
CCS - D3 - P05	Xiang Yu	Quantifying Structural and Dipole–Dipole Coupling Effects in Coverage-Dependent CO Infrared Spectra on Pt
CCS - D3 - P06	Hyosun Lee	Addition Polymerization of Norbornene by Cobalt(II) and Palladium(II) Complexes Ligated by N, N'-Bidentate Iminomethylpyridine Derivatives
CCS - D3 - P07	Eun Yeong Kim	Synthesis and Structural Characterization of Cobalt(II) and Palladium(II) Complexes Bearing N-Substituted Iminomethylpyridine and Aminomethylpyridine Derivative: Application to Ring Opening Polymerization of rac-Lactide

Posters		
CCS - D3 - P08	Fernando Alec Vera Barrutia	Chiral CN-Palladacycles as Precatalysts for Alkoxy carbonylation of Styrene Derivatives
CCS - D3 - P09	Çağla Akkol	Enhanced Photocatalytic Degradation of Phenols Using g-C ₃ N ₄ -Supported Phthalocyanine Catalysts
CCS - D3 - P10	Henrich Kabzan	Preparation of Ferrocene Thioamides and their Mechanochemical C-H Arylation
CCS - D3 - P11	Kevin Bucher	Iron-porphyrin Catalyzed Deaminative Hydrobenzylation of Alkenes using Redox-active Pyridinium Salts
CCS - D3 - P12	Liu Aoyang	Understanding and Tuning the Reduction of Nitro-Compounds in Water at Carbon Surfaces
CCS - D3 - P13	Veselý Martin	Utilization Of 2D Transition-Metal Dichalcogenide Supports For Rhodium-Catalyzed Hydroformylation
CCS - D3 - P14	Radosińska Monika	Atroposelective Access to Oxicam-Inspired Axially Chiral Benzopyrano[1,2]thiazinone S,S-Dioxides via Oxidative NHC Catalysis
CCS - D3 - P19	Velma Beri Kimbi Yaah	Novel Bi ₃ O ₄ Br/TiO ₂ NB/glucose hydrochar for photocatalytic degradation of pharmaceuticals
CCS - D3 - P20	Nagendra Kulal	V ₂ O ₅ /CeO ₂ catalyst for selective oxidative C-N coupling of amines and alcohols into imines
CCS - D3 - P21	Anamika Brahma	A Sustainable MgO@EDTA@Ag Nanocatalyst for Eco-Friendly Xanthene Formation and Efficient Rhodamine B Degradation
CCS - D3 - P23	Erdali Ayse Dilay	From Isolated Rh Single Atom Catalytic Sites to Cooperative Single Atom Ensembles: Tuning Catalytic Pathways in CO ₂ and Ethanol Interactions
CCS - D3 - P25	Smoczyńska Anna	New N-heterocyclic carbene platinum complexes – synthesis, characterisation and catalytic activity.
EES - D3 - F01	Markowski Robert	Amorphous Coordination Polymers for Versatile Mg ²⁺ , Ca ²⁺ , Sr ²⁺ , Ba ²⁺ , and Zn ²⁺ Cation Storage
EES - D3 - F02	Baytekin Bilge	Chemical insights into triboelectric charging of polymers and organic powders
EES - D3 - F03	Brandi Francesco	Catalytic depolymerization of commercial grade polyurethane sponge using Ru- supported heterogeneous catalysts
EES - D3 - F04	Itri Giulia Maria	Waste Meets Waste: Upcycling Spent Li-Ion Battery-Derived Materials into Pd-Based Catalysts for Biomass Valorization
EES - D4 - F06	Kulagova Alice	Ammonia photooxidation using Ru catalyst anchored on C ₃ N ₄ nanoparticles

Posters		
EES - D3 - F07	León García Jesús	Synergistic Thermal and Stability Effects of Al ₂ O ₃ -ZnO Hybrid Nanofluids in Solar Thermal Collectors
EES - D3 - F08	Tayyebi Ahmad	Photoelectrochemical Solar Ammonia Production (cancelled)
EES - D3 - F09	Salierno Giuseppe	Lignin acidolysis via a βO4 model compound: an improvement based on heterogeneous superacid catalysis
EES - D3 - F10	Barbagallo Claudia	Innovative heterobimetallic precursors for multifunctional fluoride materials
EES - D3 - F11	Casadevall Serrano Carla	Novel molecular and polymersome-based systems for photocatalytic CO ₂ reduction, towards compartmentalized artificial photosynthesis
EES - D3 - P001	Daniela Andrei	Greener Synthetic Approaches to the Synthesis of Quinoxaline Derivatives
EES - D3 - P002	Kyungsu Na	CO ₂ Upcycling to Liquefied Petroleum Gas and Jet Fuel via an Oxide-Zeolite Catalyst Strategy
EES - D3 - P003	Niloofar Kamyar Khaledi	Understanding the effects of cryomilling for some common thermoplastics
EES - D3 - P004	Ola Bajjouk	Unraveling the electrocatalytic performances and structural stability of Ag nanowire gas diffusion electrodes for CO ₂ reduction
EES - D3 - P005	Ward Peeters	Pilot-Scale Online Monitoring of CESAR1 Solvent Condition in a Cement CO ₂ Capture Plant
EES - D3 - P006	Paola Calza	Sustainable integrated approach for CECs removal in aquaculture: bench-scale validation of a hybrid membrane-AOP system
EES - D3 - P007	Klaudia Jakubowska	Composition and efficacy of essential oils in suppressing potato sprouting
EES - D3 - P008	Julia Kamińska	Comparison of the yield and chemical composition of essential oils from the seeds, leaves and straw of Apiaceae plants
EES - D3 - P009	Bilge Baytekin	Contact Electrification of Some Organic Powders With Fused Aromatic Ring Structures
EES - D3 - P010	Muzammil Hussain	Directional Charge Transport in Donor-Acceptor Covalent Organic Frameworks for enhanced Photocatalytic H ₂ O ₂ Production
EES - D3 - P011	Paweł Gulski	Inhibition of seed germination by selected essential oils: relationship with chemical composition
EES - D3 - P012	Lukka Thuyavan Yogarathinam	Predictive Chemometric Modeling of Molecular Transport in Functional Organic Solvent Nanofiltration Membranes

Posters		
EES - D3- P013	Romy Van Geijn	Sunlight-powered reverse water gas shift reaction catalysed by plasmonic Au/CeO ₂ -x: the impact of size, metal loading and oxygen vacancies on the catalytic performance
EES - D3- P014	Carla Rizzo	Safe and sustainable materials as adsorbents for emerging pollutants
EES - D3- P015	Alyssa Mancini	Understanding structural and electrochemical degradation in Li-rich cathodes
EES - D3- P016	Tauqir Ahmad	Controlled Incorporation of Monoboc-Protected Amines in Polyamide Thin-Film Composite Membranes
EES - D3- P017	Myriam D'alù	Recovery and Regeneration of Cathode Materials via Direct Recycling
EES - D3- P018	Maria Eduarda Pereira	Advanced sorption-based recovery of rare-earth elements from secondary aqueous streams: a contribution to EU strategic autonomy and circular critical raw materials
EES - D3- P019	Gabriela Kuźma	Chemical compositions, stability and insecticidal activities of some essential oil emulsions
EES - D3- P020	Oussama Djorf	Gold “Self-Leaching” in Chloride-Rich Media
EES - D3- P021	Jose Javier Delgado-Marin	High-Temperature Operation of Vacuum Tube Solar Collectors Using Ionic Liquids
EES - D3- P022	Arcangelo Celeste	Synthesis-Route Effects on Competing Phase Formation in Na _{0.67} Mn _{0.75} Ni _{0.25} O ₂
EES - D3- P023	Manuel Alejandro Andino Enriquez	Matrix Dependent Photochemical Transformation of Sulfamethoxazole in Natural and Managed Waters
EES - D3- P024	Cristiana Margarita	Deep Eutectic Solvents-enabled Closed and Open-loop Wastes Battery Recycling
EES - D3- P025	Marcelo Cámaras	Commercial Anion Exchange Membranes for Alkaline Water Electrolysis: Linking Performance, Stability, and Physicochemical Properties
EES - D3- P026	Vladimir Nikiforov	Is atmospheric half-life time of carbon tetrafluoride the same as it was 33 or 47 years ago?
EES - D3- P027	Ching-Shiun Chen	Ultra-Small Ru and Ni Clusters for Enhanced CO ₂ Methanation at Ultra-Low Metal Loadings
EES - D3- P028	Sharjeel Waqas	Optimization of Operating Parameters in Single-Stage Membrane Rotating Biological Contactor for Wastewater Treatment
EES - D3- P029	Oliver Salangad	Matrix-specific partitioning of legacy and emerging PFAS in great tit (<i>Parus major</i>) plasma, feathers, and faeces near a fluorochemical hotspot

Posters		
EES - D3- P030	Hugo Valdes	Electrochemical Dechlorination of PVC for Sustainable Materials Recovery and the Synthesis of Chlorinated Compounds
EES - D3- P031	Sharmin Akther Rupa	Rational Design of Amide-Extended Tetrahedral Linkers for the Construction of Porous MOFs Targeting CO ₂ Capture
EES - D3- P032	Yasir Abbas	Functionalized Graphene Oxide Membranes for High Flux Nanofiltration
EES - D3- P033	Fernanda Roman	Oxidative denitrogenation using sustainable carbon nanotubes: reactive oxygen species
EES - D3- P034	Fernanda Roman	Removal of bisphenol-A by catalytic wet peroxide oxidation using sustainable carbon nanotubes
EES - D3- P035	Syed Muhammad Shakib Kazmi	Electrochemical approach towards the Total Synthesis of (-)-Colchicine
EES - D3- P036	Bienvenu Kwizera	Nano calcium driven degradation of dichlorodiphenyl-trichloroethane in soil: Efficiency assessment and underlying mechanisms
EES - D3- P037	Dáša Drenčáková	Non-stoichiometric CuAgSe doped with Zn or Fe: mechanochemical synthesis and thermoelectric properties
EES - D3- P038	Anej Blazic	Magnetic heating-assisted methanol synthesis from CO ₂ and H ₂ for Power-to-X applications
EES - D3- P039	Aleksandra Zamljen	Water-Induced Structural Deactivation of Zeolite-Supported Magnesium Chloride and Its Effect on Ammonia Sorption Stability
EES - D3- P040	Hyeseon Park	Redox Electrolyte-Assisted Hybrid Energy Storage with Optimized Cathode/Anode Ratio of Cobalt Hexacyanoferrate and Activated Carbon
EES - D3- P041	Paula Barbosa	Silk Fibroin Solid Electrolyte Membranes for Sustainable Sodium-Ion Batteries
EES - D3- P042	Dora Balen	High-temperature structural and microstructural evolution of Ni- and Mn-doped LaCoO ₃ perovskites
EES - D3- P043	Ajay Sharma	Controlled Autoxidation of Heavy Petroleum Residues as a Low-Cost Route to Synthesize Carbon Nanotubes
EES - D3- P044	Wajahat Waheed Kazmi	Optimizing solvent roles in catalytic lignin liquefaction: Efficient pathways to phenolic monomers and bio-oil
EES - D3- P045	Muhammad Waqas	Solvent-Free upcycling of Plastic Waste to Aromatics with Multi-Shelled Hollow Sphere
EES - D3- P046	Nicole Ferreira	Shrimp Shell Waste as a Green Resource for Rare Earth Element Recovery

Posters		
EES - D3- P047	Ghulam Asghar	Synthesis and Catalytic Evaluation of NiO–Al ₂ O ₃ Catalyst for Steam Methane Reforming
EES - D3- P048	Aqeel Ahmad	Synthesis and Evaluation of Porous Organic Polymers for CO ₂ Capture
EES - D3- P050	Akinyinka Akinnusotu	Assessment of some Organochlorine Pesticides and Toxic heavy metals in the road dust from A metropolitan City in Nigeria: Akure as a Case Study
EES - D3- P060	Hocine Sifaoui	Removal of nitrogenous heteroaromatic compounds from gasoline using the deep eutectic solvent diethanolamine: glycerol.
IM - D3 - F01	Jie Zhang	From 1D to 2D: On-Surface Synthesis of Conjugated Polydiacetylene Monolayers
IM - D3 - F02	Elien Dervaux	Beware of the structure: Insights into the Phosphorus Dynamics of post-synthetically modified NU1000 in the presence of water
IM - D3 - F03	Michela Tramontini	Bio-based polymeric films for the photocatalytic degradation of contaminants of emerging concern in aqueous media
IM - D3 - F04	Debora Briganti	Engineering nanoscale amorphous calcium phosphate through molecular and polymeric stabilization strategies
IM - D3 - P01	Busila Mariana	Multifunctional degradable titanium coatings for osteointegrative and antimicrobial surfaces
IM - D3 - P02	Waheed Abdul	Development of 2D nanosheets of lanthanide-based metal organic frameworks for developing a super-hydrophilic and super-oleophobic (underwater) selective layer on a ceramic support for separation of surfactant-stabilized oil-in-water emulsion
IM - D3 - P03	Han Seungyun	Development of Spherical Mg-Al Silicate Composites for Simplified Purification and Enhanced Filtration of C.A.S.E. Polyols
IM - D3 - P04	Bergjan Jenrik	Ultrathin macroporous substrates for near-field microscopy on free-standing membranes
IM - D3 - P05	Sisó-Moliné Rut	Carbon Dots from Renewable Biomass Precursors: Processing Parameters and Optical Response
IM - D3 - P06	Tschekorsky Orloff Runa	Imination of aminocaprolactam with bio-based aldehydes to produce bio-based polyamides
IM - D3 - P07	Ruiz Guerrón Juan Francisco	Polymerization of Malononitrile Dimer: A New Route for Construction of Nitrogen-Rich Polytriazines with Functional Properties
IM - D3 - P08	Geesi Mohammed	Biogenic synthesis of zinc oxide nanostructures using Adansonia digitata peel extract for sildenafil degradation and photocatalytic performance
IM - D3 - P09	Özbal Ayşegül	Self-assembly of an amphiphilic copolymer and its potential as drug delivery systems

Posters		
IM - D3 - P10	Dzene Liva	Design of new PEG-silanized fillers inspired by talc-like structures
IM - D3 - P11	Giuliana Bianco	Mass spectrometry-driven evaluation of antioxidant thermoplastic polyurethane films for waste cooking oil storage
IM - D3 - P12	Marina Piacenti-Silva	A Multifunctional Nitrogen-Doped Magnetic Graphene Oxide Nanocomposite Prepared by One-Step Microwave-Assisted Synthesis
IM - D3 - P13	Semih Macit	Dual crosslinked printable chitosan/PEG/ γ -cyclodextrin hydrogels with tunable rheological properties
IM - D3 - P14	Tom Althaus	Electrosynthesis of Molecular Cluster Assembly Materials with Hierarchical Porosity
IM - D3 - P15	Aleksandra Ciesielska	Twist and resist: Stability and Chiroptical Enhancement in Chiral Hybrid Perovskites
MDR - D3 - F01	Dmytro Volochnyuk	Needs Determine the Way: the Place of SF ₄ in Modern Synthetic Chemistry
MDR - D3 - F02	Maria Kosaka	Mechanism elucidation of paddle-wheel di-Ru complex catalyzed amination reaction via multireference theory
MDR - D3 - F03	Hunhee Han	Ionic-Group Densification of Perfluorinated High-Oxygen-Permeability Ionomers
MDR - D3 - F04	Priyanka Rani Panda	Strapped Calix[4]pyrroles for the Transmembrane Transport of Anions
MDR - D3 - P01	Cristian Andrei Spinu	Nitronyl nitroxide stable radicals derived from nitro-o-vanillin and bisphenol A as ligands towards 3d and 4f metal ions
MDR - D3 - P02	Pia Gartlgruber	Synthesis of steroidal and non-steroidal phase I and II metabolites relevant for Doping Analysis
MDR - D3 - P03	Daniel Corcorran	Interrupted thermal rearrangement to access cyclobutanones via photochemistry and continuous flow chemistry
MDR - D3 - P04	Nikola Savic	Novel 4,5-Diphenyl-1,2,3-Triazolate-based Kuratowski Complexes with Chiral Active Sites
MDR - D3 - P05	Nick Kocem	Regio- and Stereoselective Formation of 1,3-Diols
MDR - D3 - P06	Martin Hutereau	Identifying promising low-fluorine weakly coordinating anions for lithium-ion batteries via high-throughput screening
MDR - D3 - P07	Karim Ullah	Perfluorooxosulfate Salts as SOF ₄ -Gas-Free Precursors to Multidimensional SuFEx Electrophiles

Posters		
MDR - D3 - P08	Luiz Carlos Silva-Filho	Expanding Visible-Light Photopolymerization: Azapentalene Derivatives for Methacrylate and Biobased Acrylic Systems
MDR - D3 - P09	Annika Plato	Stereoconvergent approach to the enantioselective construction of α -quaternary alcohols by radical epoxide allylation
MDR - D3 - P10	Manish Rana	Design and synthesis of N-formyl/carbothioamide based pyrazoline analogs using Pd(PPh ₃) ₄ catalyst: Cytotoxicity, apoptosis, and molecular dynamics studies
MDR - D3 - P11	Andrea Di Pede	Triplex DNA clamp regulates Cas12a activation for ssDNA and RNA sensing
MDR - D3 - P12	Niels Michaelis	Investigation of a low-valent molybdenum complex towards reductive N ₂ -activation
MDR - D3 - P13	Anna-Marlene Vogt	Investigation of mononuclear molybdenum and tungsten complexes with pentaphosphine environment for activation of dinitrogen and catalytic ammonia synthesis
MDR - D3 - P14	Aleksandar Pashev	Angular substituted dibenzo[a,g]quinolizidines – synthesis and DPP-IV inhibitory activity
MDR - D3 - P15	Teodora Aleksandrova	Novel heterocyclic derivatives based on the [1,4]thiazino[3,4-a] isoquinoline ring system – molecular design, synthesis and DPP-IV inhibitory activity
MDR - D3 - P16	André Stephan Culum	Water-Soluble Acylgermanes via a Germa–Michael Reaction: A Modular Route toward Bio-Compatible Photoinitiators
MDR - D3 - P17	Merve Ercan Ayra	The effect of PEG localization and charge density on transfection ability of artificial gene delivery vectors
MDR - D3 - P19	Franziska Elterlein	From Oranges to Odorants: Using Renewable Starting Materials for Fragrance Chemistry
MDR - D3 - P20	Maria Voccia	A First Principle Study of a Model Bimolecular Nucleophilic Substitution Reaction Promoted by Catalysts Supported on Oxidized Carbon Black
MDR - D3 - P28	Georgiades Savvas	Malonic-Type Macrocyclic Esters from Catechol-Derived Propargyl Diols: Effect of Catechol Substituents on Reactivity

Posters		
APC - D4 - P01	Zarini Lorenzo	A polymer-based surface functionalization strategy for DNA immobilization on gold electrodes
APC - D4 - P05	Deng Shibin	Exciton Spatiotemporal Imaging: From Classical Diffusion to Quantum Correlations
APC - D4 - P06	Alegria Carrasco Pancorbo	Untargeted UHPLC–IMS–MS Metabolomics Reveals Genotype-Dependent Chemical Diversity among Avocado Varieties
APC - D4 - P07	Alegria Carrasco Pancorbo	Postharvest Storage and On-Tree Maturation Drive Distinct Carbohydrate Signatures in Hass Avocado
APC - D4 - P08	Ann-Christin Seidl	Surfactant-free Microemulsions in Surface Cleaning
APC - D4 - P09	Clara Ernst	Characterization of Tristyrylphenol Ethoxylate Surfactants
APC - D4 - P10	Ginevra Vigni	Development and Optimization of Lipid Nanocarrier Systems for Agri-food Biowaste
APC - D4 - P11	Donghun Kim	One-Pot Multisubstrate Screening for Asymmetric Catalysis Enabled by 19F NMR-Based Simultaneous Chiral Analysis
APC - D4 - P12	Naser Al-Tannak	Development and Validation of an LC-MS/MS Method for the Simultaneous Determination of Alprazolam, Bromazepam, Clonazepam, Diazepam and Flunitrazepam in Human Urine and Its Application to Samples from Suspected Drug Abusers
CAI - D4 - F01	Weiser Jonas	Towards automated ensemble-averaged kinetics of reverse intersystem crossing in flexible TADF emitters
CAI - D4 - F02	Shekiladze Ilona	From Nature's Layers to Neural Layers: An AI and Machine Learning Approach to Tomato Preservation via an Edible Pseudoprotein Coating
CAI - D4 - F03	Kuchenbecker Vinicius	Theoretical study of collision induced dissociation mechanism for PO3G 77-59 m/z ion: When MS2 Energy Data and Quantum Chemistry reveals hidden molecular structures
CAI - D4 - P01	Žagar Leon	Model Order Reduction of CFD Model for Membrane Distillation
CAI - D4 - P02	Yaşar Nesrin Işıl	Cross-validated screening of natural products targeting two distinct functional sites of the bacterial ribosome: An in-silico study
CAI - D4 - P03	Francisca Salas	Beyond Bulk Aggregation: Interfacial Chloride Recognition by Triazolophane on Graphene
CAI - D4 - P04	Carl Schiebroek	Balancing Data Quantity and Quality: Evaluating Curation Strategies for Bioactivity Prediction
CAI - D4 - P05	Umair Khan	Unified data-driven flow regime identification in horizontal and vertical multiphase pipe flows using dynamic pressure signals

Posters		
CBF - D4 - F01	Mihai-Alexandru Molența	Design and synthesis of lipid substrates for sterol imaging
CBF - D4 - F02	Magdi El Fergani	Synthesis and Characterization of Novel Rhodamine and Coumarin-based Fluorophores
CBF - D4 - F03	Inês Ferreira	De novo analytical chemistry approaches for collagen and polyphenol characterization in <i>Physalia physalis</i>
CBF - D4 - F05	Lucio Spinelli	PEGylation-Driven Remodeling of the Protein Corona on PLGA Nanoparticles: Implications for Macrophage Recognition
CBF - D4 - F08	Konrad Barnowski	Synergistic cancer therapy targeting LAG-3&PD-L1 through co-administration of flavonoid and durvalumab
CBF - D4 - P01	Paola Montoro	High-Resolution Mass Spectrometry: Unlocking the Chemical Complexity of Xylem Sap
CBF - D4 - P02	Lavinia Klement	Stability meets Mobility: N-Heterocyclic Carbene-based Tethers for Functional Biomimetic Membranes
CBF - D4 - P03	Ankita Borah	Effect of noscapine hydrochloride on the near-infrared optical properties of indocyanine green
CBF - D4 - P04	Cláudia Lopes	Lead-silica interactions in food additive E551: concentration-dependent effects on surface charge and colloidal stability
CBF - D4 - P05	Ramla Khiari	Effect of drying methods and pretreatments on the carbohydrate profile of Pingo de Mel figs
CBF - D4 - P06	Malgorzata Starowicz	The Effect of Processing Technology on the Content of Acrylamide, Amino Acids, and Reactive Dicarbonyl Compounds Formed During Bread Baking
CBF - D4 - P07	Aziziyan Fatemeh	Mining for Novel Tryptophanase A: extremophilic organisms <i>Ardenticatena maritima</i> and <i>Haloarcula japonica</i> as alternative to <i>E. Coli</i> in the synthesis of tryptophan analogues
CBF - D4 - P08	Sobhi Khaled	Implementation and Optimization of automated computer processing tools for a bi-instrumental Systematic Toxicological Analysis strategy using HPLC-DAD and GC-MS
CBF - D4 - P09	Schäfer Evelin	Membrane organoid chips for programmable growth of stem cells
CBF - D4 - P10	Gawor Andrzej	Proteomics in the Multi-Omics Era: A Key to Safer Drugs and Deeper Disease Insights
CBF - D4 - P11	Bulska Ewa	PATHFOOD: From Soil to Health. Analytical Chemistry Driving Selenium-Enriched Functional Foods
CBF - D4 - P12	Hanschen Franziska	Identification of Isothiocyanate-Hydrolase Candidate Proteins by in silico Modelling

Posters		
CBF - D4 - P13	João António	Click! Bioconjugate! Release!: A Unified Diazaborine Platform for Stimuli-Responsive Therapeutics
CCS - D4 - P04	Sukserm Supichcha	Modification of Ni/Al ₂ O ₃ catalysts by incorporating graphitic carbon quantum dots (CQDs) for selective CO ₂ hydrogenation to CO
CCS - D4 - P07	Yogendra Kumar	Sustainable synthesis of 2,4,6-trisubstituted pyridines using surface-modified PET@UiO-66 vials
CCS - D4 - P18	Farhan Arshad	Bubbles Templated Porous CeSe ₂ /Co ₃ Se ₄ Heterostructures Supported on Ni Foam for CO ₂ -free Selective Methanol Oxidation to Enhance Green Hydrogen Production
CCS - D4 - P22	Sreenidhi M Varma	4,4'-oxybis-benzoic acid-based Pristine MOFs as reusable, heterogeneous catalyst for Hydrogenation Reactions
CCS - D4 - P25	Bastian Schaal	Dehydrogenation of Methanol to Methyl Formate using CuO/CuAl ₂ O ₄ /Al ₂ O ₃ -catalysts
EES - D4 - F02	Monir Mohammad	A Systematic Computational Screening for Discovery of Low-Cost, Sustainable Thermochemical Heat Storage Materials
EES - D4 - F03	Rita Veloso	Presodiation as a key strategy for stabilizing sodium-ion batteries
EES - D4 - F04	Bonitz Lena	Polyhalite Stability in Salt Solutions at 25 °C : A Long-Term Investigation
EES - D4 - F05	Faria Joaquim	Light-matter interactions in carbon nitride-based photocatalysis
EES - D4 - F06	Buchinger Richard	Enhancing Faradaic Efficiency in Electrochemical CO ₂ reduction via Fermentation-derived Acid Intermediates
EES - D4 - F10	Ramackers Augustin	Bimetallic Anionic Organic Frameworks with Solid-State Cation Conduction for Charge Storage Applications
EES - D4 - F11	Alessandra Imbrogno	Green and Wearable Energy Storage: Fully Sustainable Solid-State Supercapacitors Using Pectin Derived Laser okInduced Graphene and Pectin Electrolyte Systems
EES - D4- P01	Emilia Kazek	Treatment of poly(vinyl chloride) and study of its pyrolysis outcomes
EES - D4- P00	Safyan Akram Khan	High Performance Steam Methane Reforming via Tuned Metal Support Interactions in NiMg-Yb ₂ O ₃ sesquioxide: Activity, Stability, and Coke Resistance
EES - D4 - P03	Hagen Fiebig	Phase Stability and Thermodynamic Properties of Magnesium Carbonates in Salt Solutions
EES - D4- P04	Smain Camilia Nafissa	Removal of metallic fragments from waste generated during photovoltaic cell manufacturing

Posters		
EES - D4- P05	Tia Ansell	Identifying complexing agents for the selective binding of Pb ²⁺ released during perovskite solar cell degradation
EES - D4- P06	Timothy Vadas	Comparison of hydrogel coated ion selective solid-state electrodes for nitrate measurements in soil
EES - D4- P07	Sharad Kumar Sachan	Monoatomic copper-anchored UiO-66-NH ₂ as a mechanistically defined Lewis acid catalyst for CO ₂ cycloaddition and enantioselective Strecker synthesis
EES - D4- P08	Bezayet Tesfaye	Scale-up, shaping, and catalytic performance of MIL-100(Fe) in propane oxidation
EES - D4- P09	Cláudia Lopes	Clay-based platforms for REE recovery: selective adsorption, regeneration and magnetic separation
EES - D4- P10	Jose Luis Diaz De Tuesta	Activated carbon production from exhaustive olive pomace: simulation process and autothermal pyrolysis
EES - D4- P11	Arda Altan	Synthesis and Characterization of Lithium Metal Phosphates in Various Solvents
EES - D4- P12	Anamika Res. Scholar, Chemical Engg. & Tech., IIT(BHU)	Integrated zeolite membrane and Cu-ZnO-Al ₂ O ₃ catalyst for intensified CO ₂ -to-methanol conversion
EES - D4- P13	William De Rezende Locatel	Kinetic Analysis and Multiscale Hydrolysis of Reinforced PET and PBT Plastics: Innovative Process Configurations for Enhanced Monomer Recovery
EES - D4- P15	Naimat Ullah	Electroreduction of CO ₂ to C ₁ and C ₂ products on Dual Active Sites
EES - D4- P15	Nag Abhijit	Efficient Dissolution and Selective Recovery of Gold from Electronic Waste Using a Recyclable Ionic Medium
EES - D4- P16	Jayasekara Neranjan	Comparative Assessment of Microplastic Accumulation in Upper Catena Fisheries of the Kothmale Reservoir, Sri Lanka
EES - D4- P17	Chun Sangeun	Tailored-Shell Hollow TiO ₂ Spheres with Reduced Tortuosity for Fast-Charging Anode
EES - D4- P18	Tayyab Muhammad	Regulating redox sites for photocatalytic phenylcarbinol conversion and H ₂ production on lattice-matched Schottky junction
EES - D4- P19	Holthuijsen Matthijs	Revealing battery interface chemistry with spectroscopy
EES - D4- P20	Bayazit Şahika Sena	Investigation of MOF Derived NASICONs for Capacitive Deionization Application
EES - D4- P21	Nikiforov Vladimir	Proposal for restriction on difluoromethylene substances aka “universal PFAS restriction”: chemical analysis

Posters		
EES - D4- P22	Kim Do Hwan	Electronic Structure Engineering via Atomic W Doping in NiO/Cr ₂ S ₃ Nanotube Heterostructures for Enhanced Overall Water Splitting
EES - D4- P23	Kerkez Kuyumcu Özge	Ti/Fe-Based MOF Photocatalysts for Efficient Solar-Driven Dye Removal
EES - D4- P24	Mihet Maria	Fine-tuning the Supercapacitor's performance with EPR spectroscopy
EES - D4- P25	Aydın Yasar Andelib	Valorisation of waste tea leaves and egg shells in carbon nanodot synthesis
EES - D4- P26	Pigot Corentin	Bioinspired catalysts for photoelectrochemical solar energy conversion
EES - D4- P27	Ferraz Gabriel	Atmospheric microplastics in a Brazilian elementary school and true-to-life PET-associated internalization and mitochondrial dysfunction in lung-relevant models
EES - D4- P28	Napier Rachel	Optimising reaction efficiency with surfactants
EES - D4- P29	Chen Qi	Revealing the Extraction and Coordination Behavior of Novel Cyclohexyl o-oxydiamides ligand toward Pu(IV)
EES - D4- P30	Yan Taihong	Selective Extraction of Plutonium(IV) by Novel Diphenylpyridine Diamide Extractants
EES - D4- P31	Wang Wentao	A Green and Efficient Aqueous LLPS Platform for Metal Ion Separation
EES - D4- P32	Wong Ping Keung	Green Extractive Desalination with Designer Green Solvents for Freshwater Production
EES - D4- P33	Shahid Ali	MXene-Promoted Ni-Based Bimetallic Catalysts on CeO ₂ -ZrO ₂ for Efficient Hydrogen Production via Steam Methane Reforming
EES - D4- P34	Daouia Ingrachen	Natural Algerian Diatomite as a Low-Cost Adsorbent for Bezacryl Yellow Dye Removal
EES - D4- P35	Elsayed Mohamed	Enhanced Photocatalytic Hydrogen Evolution via Broad Visible-Light Harvesting in g-C ₃ N ₄ /Polymer Heterostructures
EES - D4- P36	Alsultan Abdullah	Energy-Efficient and Sustainable Water Desalination Using Flow Electrode Deionization with Enhanced Charge and Ion Transfer
EES - D4- P37	Gilleece Grainne	Graphene Quantum Dot-Based Nanostructured Electrodes For Advanced Sodium Ion Batteries
EES - D4- P69	Bhatti Umair Hassan	Functionalized glucose-derived carbon spheres for low-temperature CO ₂ capture

Posters		
IM - D4 - F02	Maria Gutiérrez-Blanco	Molybdenum sulfide - chitosan hydrogels as model platforms for the delivery of Antibody-Drug Conjugates
IM - D4 - F04	Albert Serra Ramos	Electrospun TiO ₂ / BiOI heterostructured nanofibers for solar-driven water decontamination
IM - D4 - F05	Sama Al Jintan	Uncovering synthesis-structure-function relationships in ZnFe ₂ O ₄ @TiO ₂ Z-scheme photocatalysts
IM - D4 - P01	Ozmen Pinar	Enhancing the Flame Retardant Performance of Expandable Polystyrene Using Halogen-Free Additives and Synergists
IM - D4 - P02	Ös Muratcan	Two Salt-Surfactant Mesophases: Synthesis of Mesoporous MgM ₂ O ₄ (M=Mn, Fe and Co) Electrodes and Their Electrochemical Properties
IM - D4 - P03	Saka Ece Tugba	Calcene-Schiff Base Hybride Coated Titanium Surfaces With Light-Induced Antibacterial Activity
IM - D4 - P04	Diaz De Tuesta Jose Luis	Impact of PZA Incorporation on the thermal stability, carbon yield, and electrical conductivity of 3D-printed polymer-derived carbons
IM - D4 - P05	Delaney Colm	3D Printing of Nanocomposites-some assembly required
IM - D4 - P06	Salinas Soler Yolanda	Silica-based degradable micromotors with potential environmental and health impact
IM - D4 - P07	Abhijit Nag	Efficient Dissolution and Selective Recovery of Gold from Electronic Waste Using a Recyclable Ionic Medium
IM - D4 - P08	Ilma Amalina	Magnetically Induced Drug Release from Doxorubicin-Loaded Niosome Nanocarriers
IM - D4 - P09	Abdilla Roderick	Exploring composite hydrogel systems using solid state NMR
IM - D4 - P10	Marina Piacenti-Silva	A Multifunctional Nitrogen-Doped Magnetic Graphene Oxide Nanocomposite Prepared by One-Step Microwave-Assisted Synthesis
IM - D4 - P11	Faizah Altaf	Multifunctional Novel Materials for CO ₂ Capture and Nutrient Delivery: Advanced Soil Amendments to Enhance Soil Health and Crops Growth
IM - D4 - P22	Aad Rony	Systematic functionalization of silk sericin via acetylation: a design of experiments approach toward sustainable biomaterials
MDR - D4 - P01	Yong Rok Kwon	Molecular design of acrylic polymers for controlling the damping behavior of epoxy composites
MDR - D4 - P02	Ben Clarke	The Design & Synthesis of Fluorescent Self-Assembled Monolayers for Optical Applications

Posters		
MDR - D4 - P03	Arne Hendrickx	Synthesis and Evaluation of Boronate Precursors for Stable Astatine Radiopharmaceuticals.
MDR - D4 - P04	Hae Chan Kim	Ring-Opening Polymerization of δ -Tetradecalactone for Oil-Soluble Poly(ester) Lubricant Additives with Tunable Molecular Weight
MDR - D4 - P05	Sue Been Lee	Epoxy-terminated Polyurethanes as Effective Toughening Agents for Epoxy Molding Compounds
MDR - D4 - P06	Sun Ho Seok	Toughening Effect of Core-shell Impact Modifiers on Epoxy Resin Maintaining Thermal Stability
MDR - D4 - P07	Yuki Kurashige	Theoretical Design Principles for Spin-Selective Relaxation in Photoexcited Metal Complexes
MDR - D4 - P08	Min Jin Seong	Improving the Toughness of Electronic Adhesives through Epoxy-Acrylic Hybridization
MDR - D4 - P09	Vishakha Goyal	General and selective ruthenium-catalyzed hydrogenation of primary amides to primary amines under mild conditions
MDR - D4 - P10	Sean Betteridge	Structure Activity Relationship Directed Development of an Internal standard for an Electrochemical Fentanyl Detector.
MDR - D4 - P11	Ayşe Zeyneb Erten	Monomer structure and feed protocol effects on microstructure and processing of resorcinol based polyarylates
MDR - D4 - P12	Bert U.W. Maes	A Mechanochemical Kolbe-Schmitt reaction: Catechol Carboxylation Provides Building Blocks for Renewable Plasticizers
MDR - D4 - P13	Devendra Yadav	Two Electrons in a Li-S Cage: A Novel Lithium Cubic Electride - $[(tBu_2MeSiS)_6Li_8]^{2+ \cdot 2e-}$
MDR - D4 - P14	Zareen Khaleel	Expanding Drug-Relevant Chemical Space Through Pt-Au Bimetallic Catalysis
MDR - D4 - P16	Chojnacka Anna	Heck Coupling of 10,10'-Dibromo-9,9'-bianthracene with
MDR - D4 - P17	Lavoie Gino	Polymerizations Using Transition Metal Complexes of Monoanionic Bidentate Guanidine-Ethenolate, Phenolate, and Benzene Sulfonate Ligands
MDR - D4 - P18	Godinho Patrícia	Photoinduced Radical Cascade for the Synthesis of Enantiopure 2-Benzofuranyl C-Glycosides
MDR - D4 - P19	Kim Eunae	Synthesis of Mevalonate Derivatives via $LiNTf_2$ catalyzed Mukaiyama Aldol Reaction
MDR - D4 - P20	Lee Garyeong	Mild Radical Construction of Tricyclic Tetrazoles via In Situ Diazotization
MDR - D4 - P21	Nam Ha Yun	Nazarov Cyclization of α -SCF ₃ Vinyl (Hetero)aryl Ketones Enabled by Trifluoromethylthio Group



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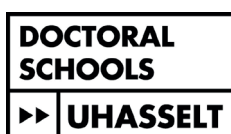
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