

GREEN IUPAC 2026

September 8-12
Lisbon, Portugal

11th IUPAC International Conference on Green Chemistry

CONFERENCE PROGRAMME



NOVA SCHOOL OF
SCIENCE & TECHNOLOGY



<https://www.greeniupac2026.org/>





GREEN IUPAC 2026

11th IUPAC International Conference on Green Chemistry
ICGC

Sept. 8-12, Lisbon, Portugal

LISBON

WELCOMES YOU

Welcome to the City of Light and Discovery!

Lisbon is Portugal's stunning, sun-kissed capital, famous for its historic yellow trams and seven scenic hills. Lisbon is the cradle of the Portuguese Age of Discovery, where historic caravels once set sail to chart unknown worlds.

Visitors are captivated by coastal views, beautiful Manueline architecture, Fado music and world-famous pastéis de nata.

Your journey starts here: vibrant, soulful, unforgettable...



SPONSORS & EXHIBITORS

Diamond



Gold



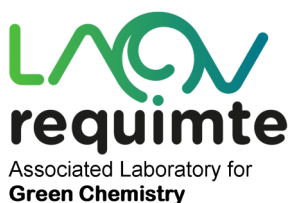
ELSEVIER

**Sumol Compal**
Vidas com mais sabor**FUNDAÇÃO
ORIENTE**

Silver

ORDEM DOS
ENGENHEIROS
TÉCNICOS

Institutional Support

UNIVERSIDADE
DE LISBOAFACULDADE DE
CIÊNCIAS E TECNOLOGIAUNIVERSIDADE NOVA
DE LISBOAAssociated Laboratory for
Green ChemistrySociedade Portuguesa
de Química

CONTENTS

Welcome to the 11th IUPAC ICGC	1
Committees	2
Opening Ceremony	
Green Chemistry: Science for Peace and Sustainability	5
Plenary Lectures	6
Keynote Lectures	7
Invited Lectures	10
General Information	11
Conference Venue Map	12
Information for Speakers, Poster Sessions & Session Chairs	13
Programme at a Glance	14
Detailed Programme	17
• Lectures and Oral Communications	18
• Poster Communications	34



FACULDADE DE
CIÊNCIAS E TECNOLOGIA

U LISBOA

UNIVERSIDADE
DE LISBOA



Sociedade Portuguesa
de Química

Dear friends and colleagues,

How can chemistry help build a more sustainable future? What innovations will drive the next generation of green technologies? And who will shape the solutions our planet urgently needs?

These are the questions that bring us together at **#GreenIUPAC2026**, the 11th edition of IUPAC International Conference on Green Chemistry, held from September 8 to 12, 2026, at the Rectorate of the NOVA University of Lisbon, Portugal.

Organised by the International Union of Pure and Applied Chemistry | IUPAC – Inter-divisional Committee on Green Chemistry for Sustainable Development | ICGCSD, the Portuguese Chemical Society | SPQ, the NOVA School of Science and Technology | NOVA FCT and the University of Lisbon | ULisboa, the conference will bring together a global community dedicated to advancing sustainable chemistry.

Because great science — and sustainable solutions — happen when people connect.

Join researchers, innovators, industry leaders, policymakers, and educators from around the world to share your work, exchange ideas, and spark new collaborations. With inspiring plenary and invited lectures, #GreenIUPAC2026 will provide a stimulating and friendly environment where discussions on green chemistry and sustainable innovation continue well beyond the lecture hall.

The conference aims to foster dialogue and collaboration across disciplines and sectors, promoting the principles of green chemistry while contributing to the United Nations Sustainable Development Goals.

Building on the success of previous editions, #GreenIUPAC2026 will serve as a dynamic forum to explore cutting-edge developments in sustainable chemistry.

Looking forward to greeting you all in Lisbon!



Ana Aguiar-Ricardo (Chair)

NOVA School of Science and Technology,
NOVA FCT, Lisboa, Portugal



Carlos Afonso (Chair)

Faculdade de Farmácia, Universidade de
Lisboa | FF UL, Lisboa, Portugal

COMMITTEES

CONFERENCE CHAIRS



Ana Aguiar-Ricardo (Chair)

NOVA School of Science and Technology
NOVA FCT, Lisboa, Portugal



Carlos Afonso (Chair)

Faculdade de Farmácia, Universidade de Lisboa
FF UL, Lisboa, Portugal

LOCAL ORGANIZING COMMITTEE

- **Ana Aguiar-Ricardo**, Chair, NOVA FCT, Portugal
- **Carlos Afonso**, Chair, FF UL, Portugal
- **Luis Branco**, NOVA FCT, Portugal
- **Teresa Casimiro**, NOVA FCT, Portugal
- **Jaime Coelho**, FC UL, Portugal
- **Isabel Esteves**, NOVA FCT, Portugal
- **José Esperança**, NOVA FCT, Portugal
- **Ana Luisa Fernando**, NOVA FCT, Portugal
- **José Nuno Canongia Lopes**, IST, Portugal
- **Luisa Maia**, NOVA FCT, Portugal
- **Maria Manuel Marques**, NOVA FCT, Portugal
- **Ana Nunes**, NOVA FCT, Portugal

INTERNATIONAL ADVISORY BOARD

- **Buxing Han**, Chair of the International Advisory Board, University of Chinese Academy of Sciences, China
- **Florent Allais**, Université Paris-Saclay, AgroParisTech, France
- **Fabio Aricò**, Ca' Foscari University, Italy
- **Christopher Brett**, University of Coimbra, Portugal
- **Anthony Burke**, University of Coimbra, Portugal
- **James H. Clark**, University of York, UK
- **Sylvia Draper**, Trinity College Dublin, Ireland
- **Modou Fall**, University Cheikh Anta Diop of Dakar, Senegal
- **Jonathan Forman**, Pacific Northwest National Laboratory (PNNL), USA
- **Mary Garson**, University of Queensland, Australia
- **Jyoti Giri**, Tribhuvan University, Nepal
- **Mirabbos Hojamberdiev**, University of Southern Denmark, Denmark
- **Philip Jessop**, Queen's University, Canada
- **Joon Ching Juan**, University Malaya, Malaysia
- **Nadia G. Kandile**, Ain Shams University, Egypt
- **Liliana Mammino**, University of Venda, South Africa
- **Sadhna Mathura**, University of the Witwatersrand, South Africa
- **Nuno Maulide**, University of Vienna, Austria
- **Claudio Mota**, Universidade Federal do Rio de Janeiro, Brazil
- **Amélia Pilar Rauter**, Faculdade de Ciências, Universidade de Lisboa, Portugal
- **Slavica Razic**, University of Belgrade, Serbia
- **Michelle Rogers**, Cargill, USA
- **Supawan Tantayanon**, Chulalongkorn University, Thailand
- **Natalia Tarasova**, University of Chemical Technology of Russia, Russia
- **Aurelia Visa**, Coriolan Drăgulescu Institute of Chemistry of Romanian Academy, Romania
- **Jane Wissinger**, University of Minnesota, USA

LOCAL HOST COMMITTEE

- Vusala Aliyeva, IST, Portugal
- Sara de Oliveira Antunes, FFUL, Portugal
- Afonso Bernardes, NOVA FCT, Portugal
- Bernardo Braga, NOVA FCT, Portugal
- Carolina Catarino, FFUL, Portugal
- Catarina Cipriano, NOVA FCT, Portugal
- Mariana Costa, NOVA FCT, Portugal
- Beatriz Dedeiras, NOVA FCT, Portugal
- Rita Felisberto, FFUL, Portugal
- Tiago Ferreira, IST, Portugal
- Sunny Freitas, NOVA FCT, Portugal
- Ismayil Garazade, IST, Portugal
- Bruna Filipa Guerreiro, FFUL, Portugal
- Ricardo Hipólito, NOVA FCT, Portugal
- João Jorge, FFUL, Portugal
- Cátia Alexandra Josué, FFUL, Portugal
- Joana Lopes, NOVA FCT, Portugal
- Diogo Loureiro, NOVA FCT, Portugal
- Rita Lucas, NOVA FCT, Portugal
- André Vicente Peralta, FFUL, Portugal
- Luís Pereira, NOVA FCT, Portugal
- Leonardo Pirvu, NOVA FCT, Portugal
- Helena Ramos, FFUL, Portugal
- Ana Rita Reis, NOVA FCT, Portugal
- Luís Ribeiro, NOVA FCT, Portugal
- Gabriel Rocha, NOVA FCT, Portugal
- Alexandra Tchudova, NOVA FCT, Portugal
- Afonso Sobral Verde, FFUL, Portugal
- Nuno Viduedo, NOVA FCT, Portugal
- Herivelto Muctaro Vieira, FFUL, Portugal

OPENING CEREMONY

GREEN CHEMISTRY: SCIENCE FOR PEACE AND SUSTAINABILITY



Paul Anastas
Yale School of the Environment,
USA



Mary Garson
The University of Queensland,
Australia



Buxing Han
University of Chinese Academy of
Sciences, China



Javier García Martínez
University of Alicante,
Spain



Martyn Poliakoff
University of Nottingham,
UK



Omar M. Yaghi
**2025 Nobel Prize in
Chemistry**
Tsinghua University, China



Moderator:
Ana Aguiar-Ricardo
NOVA School of Science and
Technology, NOVA FCT,
Portugal

PLENARY LECTURES



Morten Peter Meldal
2022 Nobel Prize in Chemistry
University of Copenhagen, Denmark



Omar M. Yaghi
2025 Nobel Prize in Chemistry
Tsinghua University, China



Mathias Beller
Leibniz Institute for Catalysis,
University of Rostock, Germany



João Crespo
LAQV REQUIMTE, NOVA FCT,
Portugal



Hajime Ito
Hokkaido University,
Japan



Walter Leitner
Max Planck Institute for
Chemical Energy Conversion,
Germany



Qin Li
Griffith University,
Australia



Zhimin Liu
Chinese Academy of Sciences,
China



Thalappil Pradeep
Indian Institute of Technology
Madras, India

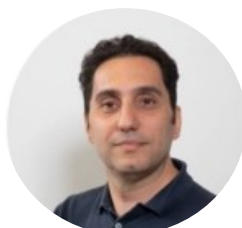


Lourdes Vega
Khalifa University,
UAE

KEYNOTE LECTURES



Florent Allais
Université Paris-Saclay, AgroParis-Tech, France



Fabio Aricò
Ca' Foscari University of Venice, Italy



Annemie Bogaerts
University of Antwerp, Belgium



Christopher Brett
University of Coimbra, Portugal



Antonio Burtoloso
Institute of Chemistry of São Carlos, University of São Paulo, Brazil



Owen Catchpole
Callaghan Innovation and Bioeconomy Science Institute, New Zealand



Margarida Costa Gomes
Ecole Normale Supérieure de Lyon, France



Jan Deska
Helsinki Institute of Sustainability Science (HELSUS), Finland



Ana Rita Duarte
LAQV REQUIMTE, NOVA FCT, Portugal



Jairton Dupont
Federal University of Rio Grande do Sul, Brazil



Joaquim Faria
University of Porto, Portugal



Michael George
School of Chemistry, University of Nottingham, UK

KEYNOTE LECTURES



Youssef Habibi
University Mohammed VI
Polytechnic, Morocco



Martin Hayes
AstraZeneca,
Sweden



Mirabbos Hojamberdiev
University of Southern Denmark,
Denmark



Joon Ching Juan
Universiti Malaya,
Malaysia



Francesca Kerton
Memorial University of
Newfoundland, Canada



Arjan Kleij
Institute of Chemical Research of
Catalonia, Spain



Kevin Lam
The University of Greenwich,
UK



Pedro Lozano
Universidad de Murcia,
Spain



Isabel Marrucho
CQE, IST,
Portugal



Li Peng
Xiamen University,
China



Eduarda Pereira
University of Aveiro,
Portugal



Clara Pereira
LAQV REQUIMTE, University of
Porto, Portugal

KEYNOTE LECTURES



Elena Poverenov
The Volcani Institute,
Israel



Fabrice Robvieux
dsm-firmenich,
Switzerland



Tiago Rodrigues
University of Lisbon,
Portugal



Rodrigo de Souza
Federal University of Rio de Janeiro,
Brazil



Chiharu Tokoro
Waseda University,
Japan



Konstantinos Triantafyllidis
King Fahd University of Petroleum
and Minerals, Saudi Arabia



Jane Wissinger
University of Minnesota,
USA



Shuliang Yang
Xiamen University,
China



Vânia Zuin Zeidler
Leuphana University of Lüneburg,
Germany

INVITED LECTURES

**Stephen Matlin**

IGHI, Imperial College London, UK

**Amy Cannon**

Beyond Benign, USA

**Mihaela Florea**National Institute of Materials
Physics, Romania**Rui Galhano dos Santos**

CERENA, IST, Portugal

**Susana Gaudêncio**

UCIBIO/i4HB, NOVA FCT, Portugal

**Rafael Gomes**

FFUL, Portugal

**Kjell Jorner**

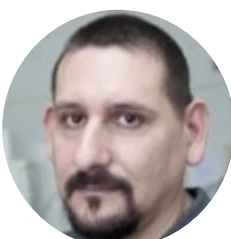
ETH Zurich, Switzerland

**Rui Loureiro**

Hovione, Portugal

**Vesna Najdanovic**

Aston University, UK

**Luisa Neves**LAQV REQUIMTE, NOVA FCT,
Portugal**Antonio Patti**School of Chemistry, Monash Uni-
versity, Australia**Andreia Peixoto**LAQV REQUIMTE, University of
Porto, Portugal**Svilen Simeonov**Bulgarian Academy of
Sciences, Bulgaria**Aurelia Visa**"Coriolan Dragulescu" Institute of
Chemistry, Romania**Yanfei Zhao**Institute of Chemistry, Chinese
Academy of Sciences, China



GENERAL INFORMATION

Conference Date and Venue

Date: September 8-12, 2026

Venue: Rectorate building of NOVA University of Lisbon

Coordinates: +38.73387 -9.16262

Campus de Campolide, 1099-085 Lisboa, Portugal

Website: <https://www.greeniupac2026.org/venue>

On-site Registration Secretariat

The Registration Secretariat will be located at the Rectorate and will be operating on the following schedule:

Tuesday September 8: 2:00 p.m. - 7:00 p.m.

Wednesday September 9: 8:00 a.m. - 7:00 p.m.

Thursday September 10: 8:00 a.m. - 7:00 p.m.

Friday September 11: 8:00 a.m. - 6:00 p.m.

Coffee Breaks & Lunches

Coffee Breaks & buffet Lunches (at the Rectorate) will be offered to all registered participants, according to the time schedule announced in the Scientific Programme.

Conference Badges and Banquet Voucher

It is essential that all participants always wear their personal badge in the Conference area, as it is the official entrance pass to scientific sessions, Coffee Breaks and Lunches. The badge is also mandatory for the Welcome Session and the Social Excursion. The Banquet voucher is mandatory to attend the Conference Dinner.

Conference Language

The 11th IUPAC ICGC official language is English.

Certificate of Attendance

A Certificate of Attendance will be sent after the Conference via e-mail to all registered participants attending the conference.

Scientific presentations & PC reception

The Conference rooms offer full audio-visual equipment. Presentations must be downloaded (room PC with Windows/Microsoft Office; only HDMI) at least during the previous coffee/lunch break to the scheduled presentation time. For the first presentations of the day (mornings), if possible, download them on the previous day. Please check for further information at the reception desk on arrival.

Posters

Posters will be presented on three poster sessions, one on each day of the conference.

Internet Access

Free Wi-Fi available in all areas. Please be advised that mobile signal reception inside the NOVA Rectorate building is limited (only "NOS" clients have good signal).

Social Events

Welcome/Opening Ceremony on September 8 at 4:05 p.m. – 7:00 p.m. and held at the Rectorate building.

Social Culture Tour on September 12. Check the Congress Secretariat for more information.

Conference Banquet on September 10 at 8:00 p.m. at Estufa Fria, Lisbon (Parque Eduardo VII, 1070-099 Lisboa). Coordinates: +38.72868 -9.15190

Mobility

In addition to the available public transport options (bus, metro, train, tram), ride-hailing app services (TVDE) or taxis can also be used. Additional travel options are detailed at www.metrolisboa.pt/en/buy. For more information about Lisbon visit www.visitlisboa.com and <https://www.greeniupac2026.org/venue>

Insurance & Liability

The Organizers accept no liability for any personal injury, loss or damage of property, or additional expenses during the conference or as a result of delays, strikes or any other circumstance. Participants are requested to make their own arrangements with respect to health and travel insurance.

First Aid and Emergency

If you need first aid, please contact the registration desk. Dial 112 for direct emergency medical assistance.

Conference Prohibition

The followings are prohibited in all conference rooms: smoking, audio/visual recording of presentations, distribution of unapproved materials.

Congress Secretariat

Organization Committee: Programme / Abstracts

E-mail: GreenIUPAC2026@gmail.com

SPQ secretariat: Invoices and Payments

E-mail: secretariado@spq.pt

CONFERENCE VENUE MAP



Rectorate building of NOVA University of Lisbon



NOVA School of Law



Campolide Campus



Conference Rooms:

NOVA Rectorate:

Auditorium (Aud A/B)

NOVA School of Law:

Amphitheatre A

Rooms 3, 5 and 7 (ground floor)





INFORMATION FOR SPEAKERS, POSTER PRESENTATIONS & SESSION CHAIRS

For Speakers (Plenary, Keynote, Invited, Oral)

Format: 16:9 PPT or PDF formats are recommended.

Presentation Duration:

Plenary (PL): 40 min | Keynote (KN): 25 min | Invited (IL): 15 min, all with 5 min for Q&A. Oral (OC): 12 min with 3 min for Q&A. Shotgun (SG): 5 min without Q&A.

Strict respect for the time assigned to all communications is mandatory and will be enforced by the session chair.

File submission: Staff or volunteers are available on-site to assist you to upload your slides to the room laptop. All speakers are kindly requested to deliver their presentation till 8:30 am of the presenting day. For the first presentations of the day (mornings), please deliver them by the end of the previous day. Please check for further information at the reception desk on arrival.

Q&A minutes of your presentation: 3-5 min at the end of your talk. Session chair will moderate the Q&A.

For Poster Presenters

Size: A0 portrait-oriented.

Location: at the respective area (numbers can be found in the Abstract Book).

Setup: Posters must be displayed in the designated poster area no later than 8:30 a.m. on the day of the session to which they are assigned. Posters should be removed no later than 7:00 p.m. on the same day, after the poster session has ended. Posters remaining after this time will be removed and discarded by the Conference Organising Committee.

Session time: presenters are required to be available for discussion during designated poster session time.

For Session Chairs

Before the session:

Arrive at the session room early to meet the presenters and review the session Schedule. Staff or volunteers will be available to assist you with technical setup.

During the session:

Introduce each speaker with a brief overview, including name, affiliation, and talk title. Monitor the time strictly to ensure all presentations stay on Schedule. Facilitate the Q&A session (3-5 min), guiding audience members to ask concise and relevant questions.

Technical issues:

In the event of technical problems, immediately notify technical staff on-site for assistance.

NOTATION TO READ THE SCIENTIFIC SCHEDULE

Topics code

Green Synthesis, Catalysis & Green Solvents - **green**

Green Chemical Engineering & Technology - **yellow**

Carbon Dioxide Utilization - **pink**

Bioeconomy - **light blue**

Green Energy - **grey**

Green Chemistry Education - **light orange**

AI in Green Chemistry - **blue**

Presentation code

PL: Plenary speaker

KN: Keynote speaker

IL: Invited speaker

OC: Oral communication

SG: Shotgun/short oral presentation

P: Poster

PROGRAMME at a GLANCE

Day 1, Tuesday, September 8 Rectorate of NOVA University of Lisbon						
14:00 - 16:05	Registration					
16:05 - 17:10	Welcome Reception					
17:10 - 19:00	Opening Ceremony Green Chemistry: Science for Peace and Sustainability Round Table: Paul Anastas, Mary Garson, Buxing Han, Javier García Martínez, Martyn Poliakoff, Omar M. Yaghi					
Day 2, Wednesday, September 9						
08:00 - 08:30	Registration					
08:30 - 09:15	PL 1 - Omar M. Yaghi Rectorate Auditorium Chair - Paul Anastas					
Room	Rectorate Auditorium	Law - Amphitheatre	Law - Room 3	Law - Room 5	Law - Room 7	Law - Room 123
09:15 - 09:30						
09:30 - 09:45	KN1 - Annemie Bogaerts	KN2 - Jairton Dupont	KN3 - Eduarda Pereira	KN4 - Fabio Aricò	KN5 - Li Peng	KN6 - Mirabbos Hojamberdiev
09:45 - 10:00						
10 :00- 10:15	OC1-Santiago Aparicio	OC3-García-Ríos	OC5-Hisao Hori	OC7-Tonelli Alessia	OC9-Dechao Chen	OC11-Alexander Olaeta
10:15 - 10:30	OC2-Fouzia Malik	OC4-Andreia Farinha	OC6-Olga Pantić	OC8-Cassiem Joseph	OC10-Marta Romeralo	OC12-Alex Palma-Cando
10:30 - 10:45	Coffee Break					
10:45 - 11:00						
11:00 - 11:30	PL 2 - Qin Li Rectorate Auditorium Chair - Buxing Han					
11:30 - 11:45						
11:45 - 12:00						
12:00 - 12:15	OC13-Ricardo Chagas	OC15-Bruno Henriques	OC17-Javier Lodeiro	OC19-Andrzej Adamski	OC21-Nekane Nieto	OC23-Isabel Ribau
12:15 - 12:30	OC14-Francesca Buco	OC16-Carla Portugal	OC18-Ana Gonçalves	OC20-Stefania Albonetti	OC22-Maryam Khatibi	OC24-Juliana Vidal
12:30 - 14:00	Lunch					
14:00 - 14:30	PL 3 - Walter Leitner Rectorate Auditorium Chair - Jairton Dupont					
14:30 - 14:45						
14:45 - 15:00	(14:45-14:52) Editorial Session - WILEY - ChemSusChem - Halgard Staesche					
15:00 - 15:15	KN7 - Arjan Kleij	KN8 - Pedro Lozano	KN9 - Fabrice Robvieux	KN10 - Rodrigo de Souza	KN11 - Florent Allais	KN12 - Vania Zuin Zeidler
15:15 - 15:30						
15:30 - 15:50	IL1 - Stephen Matlin	IL2 - Luísa Neves	IL3 - Andreia Peixoto	IL4 - Svilen Simeonov	IL5 - Rui Galhano	IL6 - Amy Cannon
15:50 - 16:05	OC25-Giulia Licini	OC26-Maria Arena	OC27-Krishna Sharma	OC28-Junji Ichikawa	OC29-Giorgio Capaldi	OC30-David Laviska
16:05 - 16:25	SG1-3	SG4-6	SG7-9	SG10-12	SG13-15	SG16-18
16:25 - 17:10	Poster Session (1) Coffee Break					
17:10 - 17:40						
17:40 - 17:55	PL 4 - Hajime Ito Rectorate Auditorium Chair - Javier Martinez					
17:55 - 18:25						
18:25 - 19:00	(18:25-18h40) Reaxys - Marta Da Pian (18:40-18:47) Editorial Session - Nature Reviews Chemistry - Stephanie Greed					
20:00 - 22:00						



Day 3, Thursday, September 10						
08:00 - 08:30	Registration					
08:30 - 09:15	PL 5 - Lourdes Vega Rectorate Auditorium Chair - Margarida Costa Gomes					
Room	Rectorate Auditorium	Law - Amphitheatre	Law - Room 3	Law - Room 5	Law - Room 7	Law - Room 123
09:15 - 09:30						
09:30 - 09:45	KN13 - Youssef Habibi	KN14 - Jan Deska	KN15 - Michael George	KN16 - Isabel Marrucho	KN17 - Christopher Brett	KN18 - Jane Wissinger
09:45 - 10:00						
10:00 - 10:15	OC31-Natércia Teixeira	OC33-Yoichi Yamada	OC35-Nadia Marino	OC37-Seongryeong Kim	OC39-Rodrigo Colhe	OC41-Marta Pineiro
10:15 - 10:30	OC32- Kemeç Aslan	OC34-Nicolo Allasia	OC36-Vittorio Marsala	OC38-Hannah Stieber	OC40-Davide Gentile	OC42-Liliana Mammino
10:30 - 10:45	Coffee Break					
10:45 - 11:00						
11:00 - 11:30	KN19 - Elena Poverenov	KN20 - Margarida Costa Gomes	KN21 - Shuliang Yang	KN22 - Joaquim Faria	KN23 - Antonio Burtoloso	KN24 - Owen Catchpole
11:30 - 11:45	OC43-Roberta Del Sole	OC47-Tu Wei Han	OC51-Octavian Pavel	OC55-Rui Ribeiro	OC59-Raffaele Cucciniello	OC63-C. Capacchione
11:45 - 12:00	OC44-Mariya Shamzhy	OC48-Belén Altava	OC52-Mert Can Ince	OC56-Asier Barredo	OC60-Filipa Siopa	OC64-Liang Zhao-Xun
12:00 - 12:15	OC45-Giovanni Berluti	OC49-Karolina Ledwa	OC53-Alina Skorynina	OC57-Jan Janesch	OC61-Giovanni Poli	OC65-Matthew Lui
12:15 - 12:30	OC46-S. Thiyagarajan	OC50-Margarita Popova	OC54-João Vale	OC58-Luis Silva	OC62-Ahmed Tarchoun	OC66-Joana Leal
12:30 - 14:00	Conference Photo / Lunch					
14:00 - 14:30	PL 6 - Thalappil Pradeep Rectorate Auditorium Chair - Chris Brett					
14:30 - 14:45						
14:45 - 15:00	(14:45-14:52) Editorial Session - Thieme - SCNOW (Sustainability & Circularity NOW) - Fadwa Hawar					
15:00 - 15:15	KN25 - Francesca Kerton	KN26 - Kevin Lam	KN27 - Chiharu Tokoro	KN28 - Konstantinos Triantafyllidis	KN29 - Martin Hayes	KN30 - Tiago Rodrigues
15:15 - 15:30						
15:30 - 15:50	IL7 - S. Gaudêncio	IL8 - Mihaela Florea	IL9 - Rui Loureiro	IL10 - Rafael Gomes	IL11 - Aurelia Visa	IL12 - Kjell Jorner
15:50 - 16:05	OC67-Debora Nabarlantz	OC68-Claudio Almeida	OC69-Isabel Martins	OC70-Mª João Queiroz	OC71-Mark Distefano	OC72-Thomas Logothetis
16:05 - 16:25	SG19-21	SG22-24	SG25-27	SG28-30	SG31-33	SG34-36
16:25 - 17:10	Poster Session (2) Coffee Break					
17:10 - 17:40						
17:40 - 17:55	PL 7 - Mathias Beller Rectorate Auditorium Chair - Arjan Kleij					
17:55 - 18:25						
18:25 - 19:00						
20:00 - 22:00	Conference Dinner					

Day 4, Friday, September 11

08:00 - 08:30						
08:30 - 09:15	PL 8 - Zhimin Liu Rectorate Auditorium Chair - Jane Wissinger					
09:15 - 09:30	(9:15-9:22) Editorial Session - RSC Sustainability - Alexandre John					
Room	Rectorate Auditorium	Law - Amphitheatre	Law - Room 3	Law - Room 5	Law - Room 7	
09:30 - 09:45	KN31 - Clara Pereira	KN32 - Ana Rita Duarte	KN33 - Joon Ching Juan	OC82-Ana Bruno	Workshop IUPAC/ICGCSD Initiatives	Jane Wissinger
09:45 - 10:00				OC83-Leonardo Colelli		Fabio Aricò
10:00 - 10:15	OC73-Tianshu Ge	OC76-Jan Weigand	OC79-Michael Schnürch	OC84-Clemens Wöllhaf		Aurelia Visa
10:15 - 10:30	OC74-Avner Rothschild	OC77-Luis Cruz	OC80-Patrycja Żak	OC85-Snehasis Dutta		Juliana Vidal
10:30 - 10:45	OC75-Maria Sequeira	OC78-Jaroslav Aubrecht	OC81-Miguel Garcia	OC86-Barbara Cruz		Panel Discussion
10:45 - 11:00	SG37-39	SG40-42	SG43-45	SG46-48		
11:00 - 11:30	Poster Session (3) Coffee Break					
11:30 - 11:45						
11:45 - 12:00						
12:00 - 12:15						
12:15 - 12:30						
12:30 - 14:00	Lunch					
14:00 - 14:30	PL 9 - Morten Peter Meldal (ONLINE) Rectorate Auditorium Chair - Mary Garson					
14:30 - 14:45						
14:45 - 15:00	(14:45-14:52) Editorial Session - Elsevier - Sustainable Chemistry & Pharmacy - Fábio Aricò					
Room	Rectorate Auditorium	Law - Amphitheatre	Law - Room 3	Law - Room 5	Law - Room 7	Law - Room 123
15:00 - 15:15	OC87-Anna Gólkowska	OC89-Nuno Candeias	OC91-Grace Fernandez	OC94-N. Plankensteiner	OC97-Christopher Kozak	OC99-Mohamed Keshawy
15:15 - 15:30	OC88-Kerem Kaya	OC90-Bao Nguyen	OC92-Sadhna Mathura	OC95-M.Bourguignon	OC98-Diana Pinto	OC100-Yuanshuai Liu
15:30 - 15:50	IL13 - V. Najdanovic	IL14 - Yanfei Zhao	OC93-F.E.N. Lahfaidh	OC96-Minji Kang	IL15 - Antonio Patti	OC101-Tiago Silva
15:50 - 16:05	Coffee Break					
16:05 - 16:25						
16:25 - 17:10	PL10 - João Paulo Crespo Rectorate Auditorium Chair - Joaquim Faria					
17:10 - 17:40	Closing session					
17:40 - 17:55						
17:55 - 18:25						
18:25 - 19:00						
20:00 - 22:00						

Day 5, Saturday, September 12

08:30 - 17:55	Social Programme
---------------	-------------------------



GREEN IUPAC 2026

11th IUPAC International Conference on Green Chemistry
ICGC

Sept. 8-12, Lisbon, Portugal

DETAILED PROGRAMME



LECTURES AND ORAL COMMUNICATIONS

Day 1, Tuesday, September 8 | Rectorate of NOVA University of Lisbon

14:00 – 16:05 **Registration**

16:05 – 17:10 **Welcome Reception**

Room: Rectorate Hall

17:10 – 19:00 **Opening Ceremony**

Moderator: Ana Aguiar-Ricardo

Green Chemistry: Science for Peace and Sustainability

Round Table: Paul Anastas, Mary Garson, Buxing Han, Javier García Martínez, Martyn Poliakoff, Omar M. Yaghi

Day 2, Wednesday, September 9

8:00 – 8:30 **Registration**

Room: Rectorate Hall

8:30 – 9:15 **Plenary Lecture - PL 1**

Room: Rectorate Auditorium (Aud A/B)

Omar M. Yaghi

Chair: Paul Anastas

From Scarcity to Abundance

9:30 – 10:30

Room: Rectorate Auditorium (Aud A/B)

Topic: AI in Green Chemistry

Chair: Kjell Jorner

KN1 **Plasma Chemistry: Promising Tool for Electrifying Chemical Reactions**

Annemie Bogaerts

OC1 **Deep Eutectic Solvents for a Sustainable Chemical Future: From Molecular Design to Industrial Applications**

Sergio de la Huerta, María A. Escobedo, Alberto Gutiérrez, Valentín Díez, Sara Santamaria, Alba Pérez, Alberto Gutiérrez, Pedro A. Marcos, Alfredo Bol, S. Aparicio

OC2 **Earth-Abundant Aluminum Formate (Alf) as a Sustainable Decarbonization Solution: A Multiscale Computational Study using DFT, MD and MC Simulations**

F. Malik, H. Naaz

9:30 – 10:30

Room: School of Law - Amphitheatre A

Topic: Green Synthesis, Catalysis & Green Solvents

Chair: Aurelia Visa

KN2 **Artificial Photosynthesis Mediated by Ionic Liquids**

Jairton Dupont

OC3 **A Greener Path to Syngas by RWGS with Imidazolium-Based Ionic Liquids as Recyclable Reaction Media**

P. H. García-Ríos, S. Koranchalil, M. Nielsen, A. Riisager

OC4 **NADES as Sustainable Extraction Media for Environmental Samples**

M. Rodrigues, J. Vrouwenvelder, Geert-Jan Witkamp, Susana Carvalho, Andreia Farinha

9:30 – 10:30

Room: School of Law - Room 3

Topic: Green Chemical Engineering & Technology

Chair: José Nuno Canongia Lopes

KN3 **Sustainable Water Treatment in Healthcare: Green Chemistry for Gadolinium Remediation using Magnetic Nanoparticles**

E. Pereira, D. Tavares, J. Sousa, R. Freitas, B. Henriques, T. Trindade, R. Fernandes, J. Rocha

OC5 **Efficient Mineralization of Fluoropolymers using Subcritical Water**

H. Hori, J. Hamaura, H. Saito, A. Manseri, B. Ameduri

OC6 **Eco-Friendly Nanocellulose Modification Enhances Biobased Unsaturated Polyester Resin Performance**

O. Pantić, P. Spasojević, V. Panić, M. Marković, V. Pavlović, M. Nikolić, S. Savić

9:30 – 10:30

Room: School of Law - Room 5

Topic: Green Synthesis, Catalysis & Green Solvents

Chair: Giovanni Polli

KN4 **Green Design of Bio-Based Platform Chemicals via Organic Carbonate**

F. Aricò

OC7 **WO₃/SO₃H-C Catalysts for 5-HMF One-Pot Production**

A. Tonelli, S. Hermans

OC8 **Tunable Ruthenium Catalysts for Hydrogen Production from Formic Acid: Governing Reactivity through Ligand Architecture**

C. Joseph, J. Edor, R. Mphephu, T. Mphuti, P. Moyo, A. Swarts

9:30 – 10:30

Room: School of Law - Room 7

Topic: Green Synthesis, Catalysis & Green Solvents

Chair: Michael George

KN5 **Green Synthesis of Porous Materials and Their Application in Gold Recovery**

Li Peng

OC9 **Colloidal Synthesis of Photocatalytic Quantum Dots Heterostructure**

Dechao Chen, Qin Li

OC10 **Green Synthesis of Bio-Based Co-Polymers for Food Packaging Applications**

M. Pacheco-Romeralo, Y. Flores, E. Hernández-Martínez, A. Martínez de Ilarduya, C. Sammon, S. Torres-Giner

9:30 – 10:30

Room: School of Law - Room 123

Topic: Green Energy

Chair: Isabel Marrucho

KN6 **Synthesis, Structural Variations, and Solar Water Splitting Performance of Tantalum Oxynitride**

M. Hojamberdiev

OC11 **From Castor Oil to Sodium-Ion Batteries: Sustainable PA11-Based Hybrid Membranes for Energy Storage**

A. Mirandona-Olaeta, A. Fidalgo-Marijuan, I. Ruiz de Larramendi

OC12 **Electropolymerized Donor-Acceptor Polymer Films for Porous Energy Materials**

A. Palma-Cando, F. Niebisch, I. Rendón-Enríquez, G. Brunklaus, K. Brinkmann, T. Riedl, U. Scherf

10:30 – 11:00

Coffee Break

Room: Rectorate Hall

11:00 – 11:45

Plenary Lecture - PL 2

Room: Rectorate Auditorium (Aud A/B)

Qin Li

Chair: Buxing Han

Sustainable Quantum Materials through the Lens of Carbon Dots

12:00 – 12:30

Room: Rectorate Auditorium (Aud A/B)

Topic: Green Synthesis, Catalysis & Green Solvents

Chair: Yanfei Zhao

- OC13 **Greener and Regioselective Strategies for the Functionalization of Cellulose into Dicarboxymethyl Derivatives**
J. Bernardino, L.M. Ferreira, [R. Chagas](#)

- OC14 **Mild Chemical Recycling of PLA: Hydrolytic Depolymerisation Enabled by Metal Carbonates**
[F. Buco](#), C. Moreno-Marrodàn, F. Brandi, L. de Chiara, F. Real-Fernandez, F. Liguori and P. Barbaro

12:00 – 12:30

Room: School of Law - Amphitheatre A

Topic: Green Chemical Engineering & Technology

Chair: Rui Loureiro

- OC15 **Selective Biosorption of Yttrium and Europium from Mercury-Contaminated Water using Encapsulated Macroalgae**
Thiago Silva, Thainara Viana, Nicole Ferreira, Eduarda Pereira, Gil Gonçalves, [Bruno Henriques](#)

- OC16 **Sustainable Olefin Metathesis using Spectroscopic Monitoring and Organic Solvent Nanofiltration**
S. Tela, A. Szymczyk, J. G. Crespo, [C. A. M. Portugal](#)

12:00 – 12:30

Room: School of Law - Room 3

Topic: Green Chemical Engineering & Technology

Chair: Ana Luisa Fernando

- OC17 **Adenosine Monophosphate as a Versatile Biomolecular Tool for Greener Synthesis of Plasmonic Nanomaterials**
[J. Fernández-Lodeiro](#), A. Fernández-Lodeiro, C. Fernández-Lodeiro, J. Pérez-Juste, I. Pastoriza-Santos, S. Graña, T. Fernández-Cabada, S. Tanco, F. Novio, Julia Lorenzo, C. Lodeiro

- OC18 **Integrated Biomass Mapping for Wildfire Prevention and Sustainable Bio-Oil Conversion**
[Ana R.P. Gonçalves](#), Rui Galhano Dos Santos, Gabriel Goyanes, Vasco Miranda, Manuel Ribeiro

12:00 – 12:30

Room: School of Law - Room 5

Topic: Carbon Dioxide Utilization

Chair: Ana Nunes

- OC19 **Catalytic Valorization of Carbon Dioxide – New Pathways Towards Sustainability**
A. Proszowska, P. Rybowicz, Y. Vitushynska, T. Polczyk, A. Łamacz, [A. Adamski](#)

- OC20 **Simultaneous Waste Remediation and Carbon Capture Via CO₂ Mineralization Over Industrial Basic Wastes**
A. Allegri, A. Catalano, A. de Angelis, E. Roccaro, M. C. Bignozzi, [S. Albonetti](#)

12:00 – 12:30

Room: School of Law - Room 7

Topic: Green Energy

Chair: José Esperança

- OC21 **Green Binder-Solvent Systems for Iron Prussian Blue Anodes in Aqueous Sodium-Ion Batteries**
[N. Nieto](#), M. Gonzalez, I. Irizar, M. Navarro-Segarra, V. Palomares, J.P. Esquivel

- OC22 **Non Thermal Plasma Assisted Catalytic CO₂ Valorisation to Methanol**
[M. Khatibi](#), A. Osatiashtiani, P. T. Williams

12:00 – 12:30

Room: School of Law - Room 123

Topic: Green Chemical Education

Chair: Amy Cannon

- OC23 **Engaging High School Students through Implications Systems Thinking Approach in Chemistry**
[I. Ribau](#)

- OC24 **Driving Systemic Change through Global Networks: The Green Chemistry Commitment Program**
[J. L. Vidal](#), M. P. Duarte, O. Villanueva, A. S. Cannon



GREEN IUPAC 2026

11th IUPAC International Conference on Green Chemistry
ICGC

Sept. 8-12, Lisbon, Portugal

12:30 – 14:00 **Lunch** Room: Rectorate Hall

14:00 – 14:45 **Plenary Lecture - PL 3** Room: Rectorate Auditorium (Aud A/B)

Walter Leitner Chair: Jairton Dupont
Catalysis for a Sustainable Energy-Chemistry Nexus: From Molecules to Systems

14:45 – 14:52 **Editorial Session - WILEY - ChemSusChem**, Halgard Staesche

15:00 – 16:25 Room: Rectorate Auditorium (Aud A/B)

Topic: Green Synthesis, Catalysis & Green Solvents Chair: Fábio Aricò

Catalytic Upcycling of Carbon Renewables
KN7 Wangyu Shi, Chenyang Chang, Carles Bo, Chang Qiao, Yue Ren, Leticia Peña Carrodegua, Stephanie G. E. Amos and Arjan W. Kleij

Chemistry for Sustainability – From Systems Thinking to Material Stewardship
IL1 Stephen A. Matlin

Photocatalytic Lignin Oxidative Valorization
OC25 W. Bertoluzzo, F. Sanz Azcona, L. Orian, G. Licini

Multifunctional Catalysts for the Continuous-Flow Valorization of Butanol Toward High-Value Chemicals and Jet-Fuel Precursors
SG1 M. Pagliara, G. Squadrani, A. Gagliardi, G. Balestra, F. Cavani, T. Tabanelli

Microwave Enhanced Michael Addition as a Sustainable Route to Levoglucosenone Based Amphiphiles
SG2 M.J. Calandri, B. Benedetti, L. Charrier, D. O. Abranches, J. R. Sherwood, G. O. Lloyd, J. A. P. Coutinho, C. R. McElroy, A. Pellis

Bio-Adipic Acid Production from the Hydrogenation of Muconic Acid on Biocarbon Supported Ni Catalysts
SG3 J. Lozano, B. Khezri, Y. Cesteros

15:00 – 16:25 Room: School of Law - Amphitheatre A

Topic: Green Chemical Engineering & Technology Chair: Eduarda Pereira

Sustainable Depolymerization of Polyurethane Foam Waste in Ionic Liquids
KN8 P. Lozano, R. Villa, F. Velasco, M. Nuño, C. Sotillo, S. Nieto, M. Macia, J. Dupont, E. Garcia-Verdugo

Mixed Matrix Composite Membranes Design using Direct Spray-Coating Technique
IL2 P. Ortiz-Albo, J. Tinevez, I. Kumakiri, J. Crespo, L.A. Neves

Reducing Fluorinated Greenhouse Gas Emissions through Advanced Recovery Systems at the CERN LHC Experiments
OC26 M. C. Arena, A. Bouzaiene, R. Guida, B. Mandelli, G. Rigoletti

Self-Dispersible MDO/Crotonate Based Degradable Polymers using MPEG Macromonomers for Stabilization
SG4 A. Marchand, A. Barquero, H. Sardon, J. Leiza

Design of Hydrophobic DES for Critical Metal Recycling
SG5 Maísa S. Pinheiro, Felipe Olea, João A. P. Coutinho, Nicolas Schaeffer

Sustainable Thermochromic Materials for Smart Sensing Applications
SG6 I. R. Silva, B. D. D. Cruz, N. Pereira, L. C. Fernandes, C.R. Tubio, M. Tariq, J. M. S. S. Esperança, G. Botelho, S. Lanceros-Méndez, D. M. Correia

15:00 – 16:25

Room: School of Law - Room 3

Topic: Green Synthesis, Catalysis & Green Solvents

Chair: Martin Hayes

- KN9 **From Pine to Perfume: Sustainability-Driven Perfumery Ingredient Innovation**
Fabrice Robvieux
- IL3 **Green Extraction of Propolis for Sustainable Preservation of Artisanal Cheeses**
Artem Drogalin, Aritson Tolentino, Paula Rodrigues, M. Natália D.S. Cordeiro, Miguel Vilas-Boas, João Reis, Soraia I. Falção, Andreia F. Peixoto
- OC27 **Enabling Greener Routes to Pharmaceutically Important Reactions through Solvent Replacement and Recycling**
K. Sharma
- SG7 **Aiming for the SAN: Process Optimization of the Dissolution-Based Recycling of ABS**
V. de Paula, C. F. Araújo, P. S. S. Lacerda, F. H. B. Sosa, A. M. Ferreira, A. F. Sousa
- SG8 **From Single-Circuit to Dual-Circuit COFs: Boron-Hydroxyl Microenvironment Engineering for Efficient Photocatalytic H₂O₂ Production**
Ran Sun, Renxi Zhang, Andrew E. H. Wheatley
- SG9 **Oxygen Vacancy-Driven Oxidative Esterification of HMF over Au/La Catalysts**
A. Bueno, N. Viar, I. Gandarias, J.M. Requies

15:00 – 16:25

Room: School of Law - Room 5

Topic: Green Synthesis, Catalysis & Green Solvents

Chair: Shuliang Yang

- KN10 **Coupling Flow Chemistry and Biocatalysis for Greener Manufacturing**
R. O. M. A. de Souza
- IL4 **From Biorenewables to Bioactive Molecules and Drugs**
Svilen P. Simeonov
- OC28 **Upcycling of HFOS into Value-Added Products: Construction of 2-CF₃- and 3-CF₃-Indoles**
J. Ichikawa, S. Mizuno, F. Yotsume, A. Saitoh, Y. Ishibashi, Y. Obitsu, T. Ueji, M. Inoue, R. Kasahara, H. Min, T. Fujita
- SG10 **Optimising the Effectiveness of Zinc Oxide Nanoparticles in Sunscreen**
M. Mohebimorad, A.F. Patti, A.M. Funston, J.C. Warner, T.W. Turney
- SG11 **Shrimp Shell Valorisation: An Integrated Biorefinery Approach to Bioactives and (Electro)Catalysts**
Inês S. Marques, Andreia F. Peixoto, Diana M. Fernandes
- SG12 **Sustainable Mechanosynthesis of Metal Oxide Photocatalysts for the Removal of Organic Dye Pollutants**
E. Yucel, M. Ersoz

15:00 – 16:25

Room: School of Law - Room 7

Topic: Bioeconomy

Chair: Antonio Patti

- KN11 **Integrating Green Chemistry, Biotechnology and Downstream Processing for Biomass Valorisation**
F. Allais
- IL5 **Green Thermochemical Routes for Sustainable Resource Valorisation**
Raquel Gonçalves, Yasmine Andrade, Sila Ozkan, Salma Dehhaoui, Maria Sousa, Raquel Pereira, Joana Madeira, Tânia Frade, Laura Ferreira, R. Galhano dos Santos
- OC29 **Development of a New Green Metric: The Sustainable Impact for Extraction (Six Score)**
G. Capaldi, G. Grillo, C. Aimone, G. Mongardi, E. Calcio Gaudino, G. Cravotto
- SG13 **Green Solvent Screening for Broccoli Leaf Phenolics and Flavonoids Extraction**
R. Carvalho, A. Sunna

SG14 Sustainability Assessment of Acid-Based Demineralization of Insect Residues for Chitin Production using the Path2Green Framework

L. Mersmann, V. G. L. Souza, A. Paiva, A.L. Fernando

SG15 Upcycling Fruit Processing Co-Products into Functional Foods: A Circular Bioeconomy Approach to Product Development and Stability

R. Nunes da Silva, I. Alves, M. J. Alegria, A. Fernandes, I. Fernandes, N. Mateus, V. de Freitas

15:00 – 16:25

Room: School of Law - Room 123

Topic: Green Chemical Education

Chair: Teresa Casimiro

KN12 Contribution of the “Sustainable Sciences: Resources, Materials and Chemistry” Master Programme Towards a Better Future

V. G. Zuin Zeidler

IL6 From Professional Development to Peer Mentoring: Empowering Educators to Teach and Practice Green Chemistry

A. S. Cannon, J. L. Vidal, J. W. Moir, M. S. Hensley, O. Villaneuva

OC30 Modernizing Chemistry Curricula: Spotlight on Green Chemistry and Systems Thinking

L. Gilbert, D. A. Laviska

SG16 Combination of Analytical Separation Methods for the Qualification and Quantification of Humins Produced During the Dehydration of Sugars to 5-HMF

Marwa Charaf, Agnès Le Masle, Kim Larmier, Paul Hazemann, Damien Hudebine

SG17 Chemical Characterization of Bio-Oil Obtained from the Micro-Pyrolysis of Corn Cob Residues

Tuğçe Demir, Dayane M. Santos, Jaderson K. Schneider, Rui G. dos Santos, Elina B. Caramão

SG18 Environmentally Conscious Energy Storage Devices from Marine-Derived Materials

A. Ugalde, M. Navarro-Segarra, J.P. Esquivel

16:25 – 17:40

Room: Rectorate Hall

Poster Session 1 | Coffee Break

17:40 – 18:25 **Plenary Lecture - PL 4**

Room: Rectorate Auditorium (Aud A/B)

Hajime Ito
Mechanochemical Organic Synthesis for Sustainable Chemistry: Emerging Strategies and Future Directions

Chair: Javier Martínez

18:25 – 18:40 **Reaxys**, Marta Da Pian

18:40 – 18:47 **Editorial Session - Nature Reviews Chemistry**, Stephanie Greed

Day 3, Thursday, September 10

8:00 – 8:30 **Registration**

Room: Rectorate Hall

8:30 – 9:15 **Plenary Lecture - PL 5**

Room: Rectorate Auditorium (Aud A/B)

Lourdes F. Vega
From Molecules to Infrastructure: A Green Chemistry Framework for Clean Energy and Large-Scale CCUS

Chair: Margarida Costa Gomes

9:30 – 10:30

Room: Rectorate Auditorium (Aud A/B)

Topic: Green Chemical Engineering & Technology

Chair: Pedro Lozano

- KN13 **Sustainable Materials from Waste: A Green Chemistry Approach**
Youssef Habibi
- OC31 **Agro-Food Wastes as Eco-Innovative Solutions for Natural Dyeing Solutions for the 21st Textile Industry**
N. Teixeira, M. Pinho, N. Mateus, V. Freitas
- OC32 **Valorization of Olive Branch-Based Cellulose Nanofibers in SA:YG/MOF Hydrogel Composites for Sustainable Agriculture**
S. Kemeç Aslan, D. Ünlü

9:30 – 10:30

Room: School of Law - Amphitheatre A

Topic: Green Synthesis, Catalysis & Green Solvents

Chair: Antonio Burtoloso

- KN14 **Tunable Enzyme Cascades: A Modular Biocatalytic Platform for the Valorization of Biorefinery Furans**
J. Deska
- OC33 **Upcycling Pom (Polyoxomethylene) By Poly(M-Phenolsulphonic Acid Catalyst) PAFR II at PPM Levels**
Yoichi M. A. Yamada
- OC34 **Accessible and Green Wet Impregnation Routes to Earth-Abundant Single-Atom Catalysts**
N. Allasia, A. Moutsiou, M. C. Ince, G. Vilé

9:30 – 10:30

Room: School of Law - Room 3

Topic: Green Synthesis, Catalysis & Green Solvents

Chair: Stephen Matlin

- KN15 **Challenges for Scalable Continuous Thermal, Photochemical and Electrochemical Reactions**
Michael W. George
- OC35 **Shining Light through Darkness: Unveiling a Novel Class of Resorcinarene-Based Deep Eutectic Solvents Via PXRD-Guided Mechanochemistry**
N. Marino, A. Paparella, V. Iuliano, C. Gaeta, C. Talotta
- OC36 **Do We Really Need Three Days for Silica Nanospheres? Toward a Greener and Time-Efficient Synthesis**
V. Marsala, N. Heydari, L. Fusaro, C. Aprile

9:30 – 10:30

Room: School of Law - Room 5

Topic: Green Energy

Chair: Mirabbos Hojamberdiev

- KN16 **From Deep Eutectic Solvents to Biomass-Derived Leaching Systems: Towards Green Solvent Engineering for Sustainable Battery Recycling**
M. Awais, B. C. Jesus, M. Berrettoni, M. Fattobene, M. J. N. Correia, I. M. Marrucho
- OC37 **Selective Lithium Extraction from Spent Cathode Via Reagent-Free Mechanochemical Reaction**
Seongryeong Kim, Haesung Jung
- OC38 **Scale-Up of a Tandem Process for CO₂-Based E-Fuel Synthesis - From Batch to Continuous Operation**
Hannah Stieber, Stephan Popp, Walter Leitner, Gonzalo Prieto, Andreas J. Vorholt

9:30 – 10:30

Room: School of Law - Room 7

Topic: Green Synthesis, Catalysis & Green Solvents

Chair: Kevin Lam

- KN17 **Brilliant Cresyl Blue Electropolymerization in Deep Eutectic Solvents for Copper Corrosion Inhibition**
C.M.A. Brett, J.M.S. Almeida, A.-M. Chiorcea-Paquim
- OC39 **Lanthanides Extraction using Hydrophobic Eutectic Solvents: Influence of Hydrogen-Bond Donors**
R. Colhe, A. Tropes, M. Pinheiro, F. Olea, I. Vaz, J. Coutinho, N. Schaeffer

OC40	Smart Materials for Dirty Waters: Reversible Aerogels Unlock Closed-Loop Heavy Metal Remediation for Catalytic Applications <u>D. Gentile</u> , M. Galimberti, V. Barbera	
9:30 – 10:30		Room: School of Law - Room 123
Topic: Green Chemical Education		Chair: Vânia Zuin
KN18	Strategies and Tools for Achieving Quality Education (SDG 4) Through Green and Sustainable Chemistry Curriculum Reform <u>Jane E. Wissinger</u>	
OC41	Integrating Sustainable Multistep Synthesis and Mechanochemistry into Undergraduate Green Chemistry Education Mariana Peixoto, Teresa M. V. D. Pinho e Melo, <u>Marta Pineiro</u>	
OC42	Green Chemistry as a Central Area for Sustainability-Related Cross-Disciplinary and Multidisciplinary Networks <u>L. Mammino</u>	
10:30 – 11:00 Coffee Break		Room: Rectorate Hall
11:00 – 12:30		Room: Rectorate Auditorium (Aud A/B)
Topic: Green Synthesis, Catalysis & Green Solvents		Chair: Mihaela Florea
KN19	New Biodegradable Materials Based on Nature-Sourced Polysaccharides <u>Elena Poverenov</u>	
OC43	Green Biocomposite Nanoparticles as Catalysts for Pollutants Degradation in Water <u>R. Del Sole</u> , L. Mergola, A. Serra, A. Buccolieri, D. Manno	
OC44	Atomic-Scale Manipulation of Zeolites for Sustainable Applications J. Zhang, S. Abdi, E. Shamma, M. Opanasenko, <u>M. Shamzhy</u>	
OC45	From Renewable FDCA-Derived Cyclic Carbonates to Non-Isocyanate Polyurethane and Applications <u>G. Berluti</u> , A. Gomez, H. Sardon, C. Jehanno	
OC46	From Residues to Resources: High-Value Furan Building Blocks from Pentose Sugars <u>Shanmugam Thiagarajan</u> , Carlo Angelici, Daan S. van Es, Gert-Jan M. Gruter	
11:00 – 12:30		Room: School of Law - Amphitheatre A
Topic: Carbon Dioxide Utilization		Chair: Luisa Neves
KN20	Phosphonium Porous Ionic Liquids Designed for Efficient Carbon Capture and Conversion Frederik Philippi, <u>Margarida Costa Gomes</u>	
OC47	Electrolytic CO₂ Mineralization with Desalination Brine: Advancing Sustainable Carbon Utilization <u>Wei Han Tu</u> , Ger Hui Chan, Shao Ing Wong, Wei Ping Chan, Grzegorz Lisak	
OC48	Hybrid MOF–Macrocyclic Catalysts for CO₂ Valorization J. E. Sánchez-Velandia, J. Chiva, F. Esteve, F. Garcia-Cirujano, <u>B. Altava</u> , E. Garcia-Verdugo	
OC49	Tuning CO₂ Hydrogenation Selectivity on Ru Via Hierarchical Alumina Support Design <u>K. Ledwa</u> , A. Pawluk, M. Lippel Gothe, M. Pawlyta, M. Ptak, M. Grodzicki, P. Vidinha, L. Kępiński	
OC50	3D Printed Zeolite Composites as Highly-Effective Materials for CO₂ Capture and Methanation <u>M. Popova</u> , G. Theochari, S. Boycheva, N. Marinkov, D. Kovacheva	
11:00 – 12:30		Room: School of Law - Room 3
Topic: Green Synthesis, Catalysis & Green Solvents		Chair: Konstantinos Triantafyllidis
KN21	Green Construction and Applications of High-Performance Nanocatalysts <u>Shuliang Yang</u>	

- OC51 **Single-Atom Mxenes as Versatile Catalysts for Cinnamaldehyde Transformations**
B. Cojocaru, O.D. Pavel, D.G. Popescu, V.I. Parvulescu, A. Primo, H. Garcia
- OC52 **Sustainability and Economic Boundaries of Micellar Catalysis in Fine Chemical Synthesis**
M. C. Ince, G. Vilé
- OC53 **Low-Temperature Acetylene Hydrogenation over Palladium-MOF Catalyst**
A. Skorynina, M. Zhao, L. Simonelli, P. Concepcion
- OC54 **Photocatalytic Synthesis of Indoles**
Gonçalo Vilela, João R. Vale, Carlos. A. M. Afonso

11:00 – 12:30

Room: School of Law - Room 5

Topic: Green Chemical Engineering & Technology

Chair: Carlos Afonso

- KN22 **From Light-Matter Interactions to Biohybrid Functionality: Carbon Based Photocatalysts for Sustainable Energy, Environment, and Health**
Maria J. Sampaio, Joana C. Lopes, Cláudia G. Silva, Fani Sousa, Joaquim L. Faria
- OC55 **3D Printing of ZIF-8 for Ethane/Ethylene Separation**
G. Rincon, J. E. Sosa, H. Ortega-Ortiz, J. Carrillo, D. A. Nabarlantz, L. M. Esteves, L. Neves, J. P. B. Mota, R. P. P. L. Ribeiro
- OC56 **Sustainable Catalytic Production of Bio-Based 1,5-Pentanediol and its Use in Furanic Polymers**
A. Barredo, A. Valle, J.M. Requies, M.S. Alam, A. Sangroniz, I. Agirre, I. Gandarias
- OC57 **Chemical Upcycling of Used Cooking Oil to Green Polymers for Composites and Adhesives**
J. Janesch, J. Ralph Martin, M. Holzinger, T. Willim, W. Gindl-Altmutter, T. Rosenau
- OC58 **Development of MOF-Derived Materials Towards Sustainable Processes**
Luís Cunha-Silva, Salette S. Balula

11:00 – 12:30

Room: School of Law - Room 7

Topic: Green Synthesis, Catalysis & Green Solvents

Chair: Svilen Simeonov

- KN23 **New Polymers and Furan Derivatives from CMF**
Antonio C. B. Burtoloso
- OC59 **ZIF-8 Synthesis in Bio-Based Organic Carbonates and End-Of-Life Applications in Water Treatment**
S. Villahu, A. Sessa, P. Prete, R. Sportiello, F. Rossi, I. Lagzi, R. Cucciniello
- OC60 **A Novel in-Situ Derivatization and Isolation Strategy for Natural Products**
M. A. G. Fortunato, J. Silva, C. Alves, F. Siopa, C. A. M. Afonso
- OC61 **C-H Activation: First CH/CX Pd-Catalysed Coupling from Terpenes**
M. Di Matteo, T. Crovetto, L. F. Veios, G. Poli, A. Pradal
- OC62 **Ecofriendly Isolation and Characterization of Cellulose from Algerian Arundo Donax L. Via a Totally Chlorine-Free Multistep Process**
Ahmed Fouzi Tarchoun, Djalal Trache, Amir Abdelaziz

11:00 – 12:30

Room: School of Law - Room 123

Topic: Bioeconomy

Chair: Francesca Kerton

- KN24 **Green Processing Technologies in New Zealand's Bioeconomy**
O. Catchpole, J. Morel, T. Moreno, A. Mackenzie, S. Tallon, S. Marshall
- OC63 **Synthesis of Tailored Biocompatible Block Polyesters by Means of [OSSO]-Type Catalysts**
Carmine Capacchione, Sara Esposito, Assunta D'Amato, Antonio Buonerba, Naym Blal, Daniela Guarnieri
- OC64 **Diazo-Forming Enzymes – Catalytic Mechanism and Biocatalytic Applications**
Zhao-Xun Liang

OC65 **Closing the Loop with Insects: Key Transformations and Sustainable Solvent Applications**
Q. Tao, X. Wang, F. Nunes Henriques, H. Ma, R. Du, C. M. Leong, M. Y. Lui

OC66 **Microalgae – A Blue Perspective of Green Chemistry**
J. F. Leal, G. Bombo, M. L. S. Cristiano

12:30 – 14:00 **Conference Photo | Lunch** Room: Rectorate Hall

14:00 – 14:45 **Plenary Lecture - PL 6** Room: Rectorate Auditorium (Aud A/B)

Thalappil Pradeep Chair: Christopher Brett
The Unfinished Science of Water: From Clean Water to Microdroplets and Ice

14:45 – 14:52 **Editorial Session - Thieme - SCNOW (Sustainability & Circularity NOW)**, Fadwa Hawar

15:00 – 16:25 Room: Rectorate Auditorium (Aud A/B)

Topic: Bioeconomy Chair: Owen Catchpole

KN25 **Seafood By-Products as Feedstocks for a Blue Circular Bio-Economy**
F. M. Kerton

IL7 **From Sediment to Maritime Coatings: Harnessing the Sustainable and Circular Potential of Marine-Derived Actinomyces**
S. P. Gaudêncio

OC67 **Advancing Circular Resources Management: Experimental Evaluation of Nutrient Recovery Technologies from Wastewater**
V. Quintero-Prada, M. Combariza, H. Escalante, L. Castro, M. E. Suárez-Ojeda, D. Nabarlatz

SG19 **Green Surface-Engineered Nanocellulose from Raphia Farinifera Inflorescence for Mechanistic Control of Interfacial Chemistry in Sustainable Water Treatment**
E. Agboeze, I. P. Udezo, H. O. Agboeze, V. A. Ofordile

SG20 **Sequential and Simultaneous Extraction of Phenolic Compounds and Biopolymers from Sargassum Muticum using Alternative Solvents**
Bárbara C. Jesus, Maria Miquel-Gonzalez, Alice Martins, Isabel M. Marrucho

SG21 **Green Adsorbents for Sustainable Water Remediation: MOF-Derived Porous Carbons and Waste-Derived Chars**
D. S. S. Flores, C. M. R. Almeida, A. F. Peixoto, C. M. Granadeiro

15:00 – 16:25 Room: School of Law - Amphitheatre A

Topic: Green Synthesis, Catalysis & Green Solvents Chair: Jaime Coelho

KN26 **Power Without Peril Electrosynthetic Access to Highly Reactive Intermediates**
Kevin Lam

IL8 **Toward a More Sustainable Production of Biopet: Terephthalic Acid Synthesis from Renewable Resources**
M. Florea

OC68 **Effect of the Synthesis Parameters on the Sustainable Production of Pet-Based Aerogels**
C. M. R. Almeida, P. C. Fernandes, B. Jorge, T. Cardoso, D. Gonçalves, P. N. Simões, A. C. Fonseca, L. Durães

SG22 **Biomass-Derived Wood Fibre-Iron Complex in Green Visible Light-Assisted Water Pollutant Remediation**
Gabriela A. Corrêa, Mário M.Q. Simões, Susana L.H. Rebelo

SG23 **Electrochemical Lactonization of Ketones Enabled by Anodic Oxidation of Benzoates**
Duarte B. Clemente, Jaime A.S. Coelho

SG24 **Effect of Polyol-Based Biosolvents on Laccase-Driven Depolymerization of Poly(Vinyl Alcohol)**
Mariana I. S. Aguiar, Daniela L. Espínola, Maria Inês C. Santos, João A. P. Coutinho, Ana P. M. Tavares, Frederik R. Wurm, Andreia F. Sousa, and Ana M. Ferreira

15:00 – 16:25

Room: School of Law - Room 3

Topic: Green Chemical Engineering & Technology

Chair: Youssef Habibi

- KN27 **Interface-Selective Disassembly of Multi-Material Assemblies Via Electrical Pulse Stimulation for Inner-Loop Circular Economy**
C. Tokoro
- IL9 **From Molecules to Particles: An Integrated Approach to Decarbonize Pharmaceutical Development**
F. Ataíde, R. Loureiro, R. Mendonça, C. Moura
- OC69 **Sustainable Valorisation of Chestnut Shells Through Green Extraction**
J. Lains, B. Ferrás, Y. Manrique, M. F. Barreiro, M. M. Dias, R. J. Santos, A. Ribeiro, I. M. Martins
- SG25 **Shaping ZIF-8 in Chitosan – In-Situ Growth and Powder Dispersion for Enhanced CO₂ Capture**
Thiago O. Carvalho, Tiago J. Ferreira, Joana Pais, A. B. Paninho, A. V. M. Nunes, José M.S.S. Esperança, Isabel A.A.C. Esteves
- SG26 **Continuous Flow Synthesis of Primaquine Diphosphate an Anti-Malarial Drug**
F. M. Akwi, P. Watts
- SG27 **Zero-Carbon Seawater Desalination with Electricity Cogeneration Via Process Intensification and Genetic Algorithm Optimisation**
R. Thakran, A. K. Jana

15:00 – 16:25

Room: School of Law - Room 5

Topic: Green Synthesis, Catalysis & Green Solvents

Chair: Rui Galhano

- KN28 **Catalytic Upgrading of Lignin to Chemicals and Fuels**
A. Margellou, P. Soldatos, C. Pappa, N. Siddiqui, A. Tanimu, K. Triantafyllidis
- IL10 **Hyperbaric Electrocyclization Reactions**
Rafael F.A. Gomes, Tiago Santos, Sabrina Cabral, Catarina Tchu Cipriano, Maria M. Marques, Carlos A.M. Afonso
- OC70 **Green C-H Activation Reactions for the Synthesis of Potential Bioactive Thienopyridinone Derivatives**
Juliana P. Sousa, Francisco Ribeiro, Maria-João R. P. Queiroz
- SG28 **Understanding the Presence of the Surface Coordinated Copper Hydrides for the Selective Hydrogenation of 5-Hydroxymethylfurfural**
Po-Wen Chung
- SG29 **Thianthrenium Salts Enable Broad-Scope C–H Carbonylation for Carbon Isotope Labeling**
Vitus J. Enemærke, Rasmus S. Grarup, Prof. Troels Skrydstrup
- SG30 **Biocatalytic Preparation of Esters Via Hemiacetal Oxidation: A Novel, Self-Sufficient and Industrially Viable Ester Production Route**
M. Zago, S. Ceccarossi, I. Serra, P. Branduardi

15:00 – 16:25

Room: School of Law - Room 7

Topic: Green Synthesis, Catalysis & Green Solvents

Chair: Rodrigo de Souza

- KN29 **Collaborative Innovation in Biocatalysis for Green and Sustainable Chemistry**
Martin A. Hayes
- IL11 **Exploring Green-Synthesized Metal–Organic Frameworks for Lead and Phenol Removal from Water**
M. Iosivoni, A. Popa, L. Lupa, B. Maranescu, N. Plesu, A. Visa
- OC71 **Green Biocatalytic Protein Modification for Diagnostic and Therapeutic Applications**
S. Venkatachalapathy, Y. Wang, Y. Zhang, M. Rashidian, C. R. Wagner, M. D. Distefano
- SG31 **Photocatalytic Hydrogels Derived from Food Waste for the Removal of Organic Contaminants**
B. Cerea, A. Gianoncelli, G. Ribaudo, I. Vassalini, I. Alessandri

SG32 **Polymer Film / Nanomaterial Modified Electrodes by Electropolymerization in Ternary Deep Eutectic Solvents and Application**

J.M.S. Almeida, C.M.A. Brett

SG33 **Food-Inspired Oxidative Coupling of Caffeates: A New Tool for the Green Synthesis of Benzacridines**

R. Pereira, N. Mateus, V. Freitas

15:00 – 16:25

Room: School of Law - Room 123

Topic: AI in Green Chemistry | Green Chemistry Education

Chair: Jan Deska

KN30 **Machine Learning for Sustainable Chemical Sciences**

T. Rodrigues

IL12 **Computer-Aided Safe and Sustainable by Design**

Kjell Jorner

OC72 **Sustainability and Systems Thinking in the Laboratory Class**

Thomas A. Logothetis

SG34 **Smart and Sustainable Azetidine Synthesis: Integrating Flow Chemistry with Machine Learning**

J. Azuaje, F. Pereira, J. Antunes, L. Ferreira

SG35 **Green Chemistry and Teaching about Microplastics to Promote Ocean Literacy: Potencial Through the Steam Approach**

J.R.P.M. Barros, B.F. Barcellos, D.A. Garcia, V.R. Terra, D.R. Sena

SG36 **Homogeneous Co(II) Cryptates for Light-Driven CO₂ Transformation: Optimisation and Scale-Up**

R. T. Marques, S. Realista, R. G. Santos, P. N. Martinho

16:25 – 17:40

Room: Rectorate Hall

Poster Session 2 | Coffee Break

17:40 – 18:25 **Plenary Lecture - PL 7**

Room: Rectorate Auditorium (Aud A/B)

Matthias Beller
Beyond Fossils: Engineering a Sustainable Economy through Green Catalysis

Chair: Arjan Kleij

20:00 – 24:00 **Conference Dinner** at Estufa Fria (Lisbon)

Day 4, Friday, September 11

8:30 – 9:15 **Plenary Lecture - PL 8**

Room: Rectorate Auditorium (Aud A/B)

Zhimin Liu
Upcycling of Plastic Waste into Chemicals

Chair: Jane Wissinger

9:15 – 9:22 **Editorial Session - RSC Sustainability**, Alexandre John

9:30 – 11:00

Room: Rectorate Auditorium (Aud A/B)

Topic: Green Energy

Chair: Maria Manuel Marques

KN31 **Sustainable Self-Chargeable Textile Energy Technologies Powered by Multifunctional Building Blocks**

Clara R. Pereira

- OC73 **Photothermal Supported Amine Adsorbents for CPVT-Driven Direct Air Capture Regeneration**
Yaohui Feng, Yingjie Huo, Wentao Xie, [Tianshu Ge](#)
- OC74 **Bromide-Mediated Electrolysis Enables Green Hydrogen and Oxoacid Production**
Guilin Ruan, Avihay Ben-Shitrit, Sabrina Spatari, [Avner Rothschild](#)
- OC75 **Phase Equilibrium Studies for Sustainable Efficient Sub-Zero Thermal Energy Storage**
[Maria C.M. Sequeira](#), Timur Nikitin, Fernando J.P. Caetano, Hermínio P. Diogo, João M.N.A. Fareira, Rui Fausto
- SG37 **Benzyltoluene Hydrogenation Under Offshore Conditions in a Trickle Bed Reactor**
[B. Subasi](#), A. Bösmann, P. Wasserscheid
- SG38 **Tungsten Carbide-Based Catalysts for Hydrogen Evolution Reaction**
[E. Gallj](#), M. Delvecchio, S. Javaid, U. Iacobone, S. Patronelli, F. Bresciani, I. Vassalini
- SG39 **Phase-Tunable Electrolytes Based on Ionic Hydrophobic Eutectic Systems for Supercapacitors**
[I. G. Silva](#), M. F. Montemor, I. Marrucho

9:30 – 11:00

Room: School of Law - Amphitheatre A

Topic: Green Synthesis, Catalysis & Green Solvents

Chair: Vesna Najdanovic

- KN32 **Paving New Avenues for Eutectic Systems in Chemical Industry**
[Ana Rita C. Duarte](#)
- OC76 **Closing the Loop in Phosphorus Chemistry: Redox-Neutral Pathways from Phosphate Feedstocks**
Kai Schwedtmann, Marco Wenzel, Tobias Schneider, [Jan J. Weigand](#)
- OC77 **Boronic Acid-Functionalized Multilayered Biomembranes for Ph-Driven Binding and Release of Catechol-Rich Anthocyanins**
[L. Cruz](#), M. Cunha, V. de Freitas
- OC78 **Sustainable Cu-Catalysts for Ester Hydrogenolysis: From Conventional to Mechanochemical Approach**
[J. Aubrecht](#), K. Nderitu, S. Saha, M. Daturi, D. Kubička
- SG40 **Sustainable Ethylbenzene Synthesis Via in Situ Hydrogen-Driven Styrene Hydrogenation**
[P. Kumar](#), U.L. Stangar
- SG41 **Cyclohexanone Oxidation with Acid-Functionalised SBA-15 Catalysts for Sustainable Adipic Acid Obtention**
[L. Arrieche-Hernández](#), J. Granados-Reyes, Y. Cesteros
- SG42 **Making the Elusive Tangible: Long-Lived Benzyl Cations Stabilized in Zeolites**
[Francesco Orlando](#), Raúl Pérez-Ruiz, German Sastre, Antonio Leyva-Pérez

9:30 – 11:00

Room: School of Law - Room 3

Topic: Green Synthesis, Catalysis & Green Solvents

Chair: Li Peng

- KN33 **Reinventing Hierarchical Zeolite Y Catalysts for Redefining Sustainable Biofuel Production**
M.Y. Choo, E.P. Ng, [J.C. Juan](#)
- OC79 **Exploring the Potential of Solvent Free Synthesis Via Mechanochemistry**
[M. Schnürch](#)
- OC80 **Ball Milling as a Green and Efficient Method for Nucleophile-Heteroallene Coupling**
[P. Žak](#), K. Hanek, N. Pietras, B. Kaczmarek, D. Frąckowiak
- OC81 **Semi-Hydrogenation of Internal Alkynes by Unconventional Methods and Application to Pheromone Synthesis**
[Miquel Molina-García](#), Francesco Orlando, Judit Oliver-Meseguer, Marta Mon, Jordi Aragón, Antonio Leyva-Pérez
- SG43 **Hypervalent Iodine-Mediated Synthesis of Sulfones using Organozinc Pivalates and Sulfinates Salts**
[José C. Cunha](#), Gabriel G. Rocha, Stefan Bräse, M. Manuel B. Marques

SG44 **A Green Approach to 2-Arylquinolines Via Palladium-Catalysed C–H Activation**
Nuno Viduedo, Leonardo Pirvu, Ângelo Alves, Fábio Santos, M. Manuel B. Marques

SG45 **Single-Amine CO₂ Hydrogenation to Formic Acid: Process Simplification with NBIM and Heterogeneous Ru Catalysis**
Jiseong Baek, Hongjin Park, Sungho Yoon

9:30 – 11:00

Room: School of Law - Room 5

Topic: Green Chemical Engineering & Technology

Chair: Luis Branco

OC82 **Valorization of Pine-Derived By-Products: Is Turpentine a Sustainable Herbicide?**
C. Lopes, S. Marcano, S. M. Cardoso, S. Silva, S. M. Bruno

OC83 **Process Analysis and Modelling of Sustainable In-Situ Oxygen Extraction from Lunar Regolith**
L. Colelli, N. Verdone, C. Bassano, G. Vilardi

OC84 **Inductively Heatable Catalysts for Ammonia Synthesis**
C. Wöllhaf, O. Kröcher

OC85 **Bayesian Parameter Estimation in Microkinetic Modeling of Anisole Hydrogenation over Ni/Al₂O₃ Catalysts**
Snehasis Dutta, Dmitry Yu. Murzin, David Kubička

OC86 **Nature-Derived Materials for Soil Moisture Sensing: A Green Chemistry Approach to Agriculture 4.0**
B.D.D. Cruz, A.S. Castro, N. Pereira, C.R. Tubio, M. Tariq, J.M.S.S. Esperança, P. M. Martins, S. Lanceros-Méndez, D. M. Correia

SG46 **Natural Solvents for Sustainable Polypropylene Recycling: Dissolution-Precipitation**
S. C. Aparício, I. Pires, M. Silaco, R. Galhano dos Santos, I. M. Marrucho

SG47 **Process Development for Hydrogen Production from Ammonia Decomposition at High Pressures**
P.C.C Araújo, J. E. C. Savoia, A. Y. Fernández, M. Rosset, R. M. B. Alves, C. A. O. Nascimento

SG48 **Design and Development of Multifunctional Materials for CO₂ Capture and Valorization**
B. Rocano-Merchan, A. Centeno-Pedrazo, J. Perez-Arce, Zoraida Freixa, E. J. Garcia-Suarez

11:00 – 12:30

Room: Rectorate Hall

Poster Session 3 | Coffee Break

12:30 – 14:00

Lunch

Room: Rectorate Hall

14:00 – 14:45

Plenary Lecture - PL 9

Room: Rectorate Auditorium (Aud A/B)

Morten Meldal, D. A. Wellings, J. D. Wade

Chair: Mary Garson

Green Aqueous Solid Phase Peptide Synthesis Approaches

14:45 – 14:52

Editorial session - Elsevier - Sustainable Chemistry & Pharmacy, Fábio Aricò

15:00 – 15:50

Room: Rectorate Auditorium (Aud A/B)

Topic: Green Synthesis, Catalysis & Green Solvents

Chair: Rafael Gomes

OC87 **Green Chemistry in API Synthesis: A Case Study of Twin-Screw Extrusion for Continuous API Manufacturing**
A. Gołkowska, Z. Łukasiuk, A. Kosierb, H. Czapor-Irزابek, M. Nowak, B. Karolewicz

OC88 **Light-Driven "On-Demand Synthesis" of N/Br-Codoped Polymeric Carbon Dots at Ambient Temperature as Green Dual-Mode Photoinitiators**
G.Karakus, K.Kaya

IL13 **Biorenewable Solvents for Sustainable Chemical Processes**
V. Najdanović-Višak

15:00 – 15:50

Room: School of Law - Amphitheatre A

Topic: Green Synthesis, Catalysis & Green Solvents

Chair: Andreia Peixoto

OC89 **Generation of Carbon-Centred Radicals for Giese Reaction**Nuno R. CandeiasOC90 **Holistic Sustainable Syntheses with Readily Available Surfactants and Data Science**M. J. Anderson, H. Basiri, S. Boobier, T. P. Carton, K. Foote, A. McCorry, J. Mottram, R. Napier, J. Odger, K. Sharma, I. W. Ashworth, J. Blacker, T. Hunter, N. Kapur, M. J. Waring, S. L. Warriner, M. H. Wright, B. N. NguyenIL14 **Ionic Liquid-Catalyzed Valorization of Renewable Carbon Resources into Chemicals**Yanfei Zhao

15:00 – 15:50

Room: School of Law - Room 3

Topic: Green Chemical Engineering & Technology

Chair: Ana Rita Duarte

OC91 **Development and Validation of a Simplified HPLC-UV Method for Confirmatory Analysis of Antibiotic Degradation Via e-Beam Irradiation**G. R. Fernandez, J. P. Lazarte, T. G. Angeles, A. K. Gallardo, B. J. Barba, J. MadridOC92 **Repurposing Metabolic Waste: Preliminary Computational Insights into Metal Sequestration using Pyrrolic Biochromes**S. MathuraOC93 **Designing Recyclable Bio-Based Epoxy-Acid Thermosets for Sustainable Adhesive Applications**F.E.N. Lahfaidh, N. Guigo

15:00 – 15:50

Room: School of Law - Room 5

Topic: Carbon Dioxide Utilization

Chair: Isabel Esteves

OC94 **CO₂ Electrolysis Utilizing CO₂-Captured from Flue Gas to Close the Carbon Loop in the Steel Industry and Beyond**N. Plankensteiner, N. Rauch, S. Bönsch, A. Seebacher, I. KoflerOC95 **Towards a New Generation of Polyurethane Foams Enabled by CO₂ Based Cyclic Carbonates**M. Bourguignon, B. Grignard, C. DetrembleurOC96 **Methyl Formate Synthesis Via Ru-Based Heterogeneous Catalysis and Reactive Distillation**Minji Kang, Sungho Yoon

15:00 – 15:50

Room: School of Law - Room 7

Topic: Bioeconomy

Chair: Florent Allais

OC97 **Synthesis of Renewable Non-Isocyanate Polyurethanes from Algae Oil and its Fatty Acid Methyl Esters**C. M. KozakOC98 **Lipophilic Composition of Prunus Lusitanica by GC-MS: Nutritional Quality and High-Value Metabolites**N. C. P. Rodrigues, M. A. F. Faustino, D. C. G. A. PintoIL15 **Green & Sustainable Chemistry for Maximising Agricultural Productivity**Antonio F Patti, Alessia Belgi, Eram Shaik, Andrea Robinson, Amit Arora

15:00 – 15:50

Room: School of Law - Room 123

Topic: Multidisciplinary

Chair: Susana Gaudêncio

OC99 **Green Synthesis of a Bio-Based Guar-Gum Crosslinked Polymer Composite for Active Packing Applications**Mohamed Keshawy, Ahmed E. Elhassany, Manar El-Sayed Abdel-Raouf



GREEN IUPAC 2026

11th IUPAC International Conference on Green Chemistry
ICGC

Sept. 8-12, Lisbon, Portugal

OC100 **Zeolite Catalyst Design for Lignin Valorization**
Lu Lin, Ping He, Yuanshuai Liu

OC101 **Valorisation of *Salicornia Sp.* as a Sustainable Source of Polysaccharides for Bio-Based Materials**
I. Meirinho, A.C. Carvalho, I. Martins, C. Nunes, R.L. Reis, T.H. Silva

15:50 – 16:25	Coffee Break	Room: Rectorate Hall
16:25 – 17:10	Plenary Lecture - PL 10	Room: Rectorate Auditorium (Aud A/B)
João G. Crespo Membrane Engineering: What Else?		Chair: Joaquim Faria
17:10 – 17:55	Closing Session	Room: Rectorate Auditorium (Aud A/B)

POSTER COMMUNICATIONS

Day 2, Wednesday, September 9 | Rectorate of NOVA University of Lisbon

Room: Rectorate Hall

Topic: Green Synthesis, Catalysis & Green Solvents

- P1-1 **Multifunctional Catalysts for the Continuous-Flow Valorization of Butanol Toward High-Value Chemicals and Jet-Fuel Precursors**
M. Pagliara, G. Squadrani, A. Gagliardi, G. Balestra, F. Cavani, T. Tabanelli
- P1-2 **Microwave Enhanced Michael Addition as a Sustainable Route to Levoglucosenone Based Amphiphiles**
M.J. Calandri, B. Benedetti, L. Charrier, D. O. Abranches, J. R. Sherwood, G. O. Lloyd, J. A. P. Coutinho, C. R. McElroy, A. Pellis
- P1-3 **Bio-Adipic Acid Production from the Hydrogenation of Muconic Acid on Biocarbon Supported Ni Catalysts**
J. Lozano, B. Khezri, Y. Cesteros
- P1-4 **Aiming for the SAN: Process Optimization of the Dissolution-Based Recycling of ABS**
V. de Paula, C. F. Araújo, P. S. S. Lacerda, F. H. B. Sosa, A. M. Ferreira, A. F. Sousa
- P1-5 **From Single-Circuit to Dual-Circuit COFs: Boron-Hydroxyl Microenvironment Engineering for Efficient Photocatalytic H₂O₂ Production**
Ran Sun, Renxi Zhang, Andrew E. H. Wheatley
- P1-6 **Oxygen Vacancy-Driven Oxidative Esterification of HMF over Au/La Catalysts**
A. Bueno, N. Viar, I. Gandarias, J.M. Requies
- P1-7 **Optimising the Effectiveness of Zinc Oxide Nanoparticles in Sunscreen**
M. Mohebbimorad, A.F. Patti, A.M. Funston, J.C. Warner, T.W. Turney
- P1-8 **Shrimp Shell Valorisation: An Integrated Biorefinery Approach to Bioactives and (Electro)Catalysts**
Inês S. Marques, Andreia F. Peixoto, Diana M. Fernandes
- P1-9 **Sustainable Mechanosynthesis of Metal Oxide Photocatalysts for the Removal of Organic Dye Pollutants**
E. Yucel, M. Ersoz
- P1-10 **Feed Temperature and Mixing Time Influence in Aqueous Spray-Drying Synthesized UiO-66-NH₂ MOF**
A. E. Kurtz, A. Wolosiuk, A. V. Bordon, M. V. Lombardo
- P1-11 **Green Hydrothermal Conversion of Cellulose into Carbon Quantum Dots for Metal Ion Detection**
A. S. Gomes, J. D. F. Dias, N. Alves, G. Dognani, C. J. L. Constantino
- P1-12 **Mechanochemical Ammonia Decomposition at Room Temperature for Hydrogen Production**
Seungwoo Choi, Woojin Choi, Yule Kim, Seunghyeon Kim, Man-seog Chun, Chul Hee Cho, Jong-Beom Baek
- P1-13 **Green Sonochemical Bioengineering of Basil-Derived Titanium Dioxide Nanoparticles for Selective Anti-cancer Activity**
Sherif A. Fahmy, Nada K. Sedky, Noha K. Mahdy, Nour M. Abdel-kader, Manal M. M. Abdelhady, Mohamad Maged, Aya L. Allam, Mohammad Y. Alfaifi, Samir N. Shamma, Hatem A. F. M. Hassan
- P1-14 **Electrochemical Deoxygenation of Vicinal Diols Towards Olefins**
Besir Krasniqi, Tim Devogel, Matteo Murineddu, Wim Dehaen
- P1-15 **Mechanistic Insight to Access New Isomannide-Derived Platform Chemicals Via Bayesian Optimization**
E. De Mol, S. Ghysels, F. Ronsse, T. Heugebaert, S. Mangelinckx
- P1-16 **Sustainable Antibiotic Recovery: Optimising Ethyl Lactate and Choline-Based Aqueous Biphasic Systems for Environmental Protection**
Marion Engole, Patricia Thornley, Vesna Najdanovic-Visak

Day 2, Wednesday, September 9 | Rectorate of NOVA University of Lisbon

Room: Rectorate Hall

Topic: Green Synthesis, Catalysis & Green Solvents

- P1-17 **Sustainable Synthesis of Fluorogenic Probes using Catalysts Derived from Waste**
S. D. James, C. Langley, T. Bond and J. D. E. T. Wilton-Ely
- P1-18 **Greener Synthesis of Agrochemicals using Palladium Recovered from Waste**
H. Wang, S. M. McCarthy, J. Cañón Gómez, D. C. Braddock, J. D. E. T. Wilton-Ely
- P1-19 **Ecological Compositions for the Detection and Decontamination of Hazardous Toxic Substances**
N. Petrea, R.E. Ginghină, L. Rece, R.A. Petrescu, M. Florea, V. Istrate, A. Pop, M. Istrate, V. Șomoghi
- P1-20 **Synthesis and Transformation of Iodinated Ferrocene Ketones**
Madani Hedidi, William Erb, Florence Mongin
- P1-21 **Small Changes, Greener Outcomes: Sustainable Synthesis of Quaternary Ammonium Salts**
A. Pomykała, J. Feder-Kubis
- P1-22 **CFD Simulation of a Lab-Scale Packed Bed Reactor for In-Situ Catalytic Fast Pyrolysis of Biomass: Velocity, Pressure, Concentration and Temperature Profiles**
V. Natale, S. Kamenos, E. Harkou, P. Adamou, M. Goula, N. Charisiou, G. Manos, A. Constantinou
- P1-23 **Antibacterial and Antioxidant Properties of Humic Acid-Derived with Metal Nanoparticles**
I. Gurgenzidze, S. Khutsishvili, L. Gogiashvili, O. Dzimistarishvili, G. Tatishvili
- P1-24 **Sustainable Synthesis of a Zn-Triazole MOF and Its PVDF Composite for Efficient CO₂ Capture**
A. Rigamonti, J. Perego, C. X. Bezuidenhout, S. Piva, E. Montanari, A. Comotti, S. Bracco
- P1-25 **Towards Sustainable Recovery of Phenolic Antioxidants from Rose Hips: Green Solvents and Assisted Extraction Techniques**
K. Rafińska, H. Kaczowska, M. Pestriakova, J. Wólkiewicz, A. Krakowska-Sieprawska, P. Fijałkowski, Z. Rafiński, P.
- P1-26 **From Cyrenetm to Novel Molecular Fragments: Developing a Diverse Library of Bio-Based Scaffolds**
Bettina Rávai, Dávid Dorián Németh, Miklós Nyerges, Lukas Rycek, András Kotschy
- P1-27 **Bienzymatic Dynamic Kinetic Resolution of Secondary Alcohols by Esterification/Racemization in Water**
Aleksandra Rudzka, Tamara Reiter, Wolfgang Kroutil, Paweł Borowiecki
- P1-28 **Obtaining High-Value Bioactive Compounds from Agroindustrial Waste using Green Technology**
S. Alfaro Araya, M. Jarpa-Parra, Y. Rivas Tiznao, E. Castro Inostroza
- P1-29 **Copper-Catalyzed Alkyl-Alkoxylation of Aurones using Bis(Silyl)Peroxides as Safer Radical Precursors**
João P. Castro, Magne O. Sydnæs, Nuno R. Candeias
- P1-30 **Lignin-Derived Plasticizers via Enzyme-Catalyzed Esterification**
A. Zogu, L. Trullemans, R. Vroemans, T. Çalik, T. Hendrickx, G. Preegel, I. Scodeller, D. Cappoen, B. Maes, B. Sels
- P1-31 **Advancing Triphos-Ruthenium Catalysed C–O Bond Disconnection in Thermoset Epoxy Resins**
C. M. Kristensen, G. M. F. Batista, M. Carvalho, A. Ahrens, G. W. Amarante, T. Skrydstrup
- P1-32 **Umpolung Nitrogen Transfer: Advancing the Synthetic Utility of Hypervalent Iodine(III) Reagents**
Beatriz Dedeiras, Jaime A. S. Coelho, M. Manuel B. Marques
- P1-33 **Two Piles of Waste, Many Solutions: From Landfill to Value Added Materials**
C. W. Schmitt, S. Yousefshahi, A. Mach, Z. Schweiger, E. Pohl, V. Berner, T. Sehn, M. Jungbluth, P. Théato
- P1-34 **Insights into the Electrochemical Reactions of Aryl Ketones**
C. M. Catarino, C. M. Monteiro, J. A. S. Coelho
- P1-35 **Mg(H₂O)₆²⁺ as the Catalyst in Fenton Like Reaction: A Green Strategy for Pollutant Removal**
Anushka Lucas, Haya Kornweitz, Dan Meyerstein, Yael Albo

Day 2, Wednesday, September 9 | Rectorate of NOVA University of Lisbon

Room: Rectorate Hall

Topic: Green Synthesis, Catalysis & Green Solvents

- P1-36 **Beyond Alkyl Chains: Design of Fluorescent Biphenyl-Based Choline Sails with Tunable Micellization Behavior**
Amna A. Al-Farsi, Imran Khan, Wajdi Zoghaib
- P1-37 **Gallium-Magnesium Liquid Metal Alloys as Earth Abundant Catalysts for Selective Ester Synthesis**
A. Peiris, T. Daeneke, S. Maniam, K. Chiang, P. Perlmutter
- P1-38 **Integration of BOPHY and BODIPY into Porphyrin-Based Conjugated Microporous Polymers for Photocatalytic Applications**
Gi Hyeok Park, Chang Yeon Lee
- P1-39 **LMCT-Driven Photocatalysis in M(IV) Porphyrinic MOFs for Sustainable Visible-Light C–H Functionalization**
Tra Phuong Trinh, Chang Yeon Lee
- P1-40 **Synthesis and UV Stability of Magnesium-Based Functional Materials**
M. Iosivoni, N. Plesu, A. Visa
- P1-41 **Transformation of PET-Derived 1,4-Benzenedimethanol to Make Useful Alcohols**
Chandrika Ghosh, Amit Kumar
- P1-42 **Design of Novel Pathways for Production of High Value-Added Chemicals in Multi-Enzyme Cascades**
Yingjie Pan, Annette Taylor, Christoph Flamm
- P1-43 **Green Synthesis of Biohybrid Metal-Free Carbon Nitride Photocatalysts for Pharmaceutical Removal**
D. Aydin, S. Kisaalioğlu, M. Ersoz
- P1-44 **Sustainable Recovery of Polyphenols from Alperujo Via Ultrasound-Assisted Extraction**
V. Aldabalde, P. Camaño, G. Rodríguez, L. Gioia, P. Rodríguez, G. Blanco, C. Dauber, I. Vieitez
- P1-45 **Amorphous LiN_xH_y Boosts Low-Temperature Ammonia Decomposition over the Co/MgO Catalyst**
Peijie Han, Ning Yan
- P1-46 **Dimethyl Isosorbide: A Renewable Solvent for Sustainable Drug Discovery Chemistry**
Alexandre Froidbise, Julien Malassis, Kim Spielmann
- P1-47 **Cyclopentenones-Based Scaffolds Enable a New Macrocyclization Strategy for Antimicrobial Peptides**
Inês M. F. Santos, Tiago M. P. Santos, Bruna F. L. Guerreiro, Ana M. Madureira, Carlos M. A. Afonso, Pedro M. P. Góis, Rafael F. A. Gomes

Topic: Green Chemical Engineering & Technology

- P1-48 **The Progress of Research and Industrial Demonstration on Biorefinery of Lipids**
Liu Dehua
- P1-49 **Self-Dispersible MDO/Crotonate Based Degradable Polymers using MPEG Macromonomers for Stabilization**
A. Marchand, A. Barquero, H. Sardon, J. Leiza
- P1-50 **Design of Hydrophobic DES for Critical Metal Recycling**
Maísa S. Pinheiro, Felipe Olea, João A. P. Coutinho, Nicolas Schaeffer
- P1-51 **Sustainable Thermochromic Materials for Smart Sensing Applications**
I. R. Silva, B. D. D. Cruz, N. Pereira, L. C. Fernandes, C.R. Tubio, M. Tariq, J. M. S. S. Esperança, G. Botelho, S. Lan-
- P1-52 **Valorization of Black Soldier Fly Exuviae for Chitosan Production and Bio-Based Film Development**
E. G. S. Silva, A. Bettencourt, I. Ribeiro, A. L. Fernando

Day 2, Wednesday, September 9 | Rectorate of NOVA University of Lisbon

Room: Rectorate Hall

Topic: Green Chemical Engineering & Technology

- P1-53 **Supercritical CO₂-Assisted Development of an Affinity Polymer for Curcumin Delivery**
R. Lucas, R. Viveiros, T. Casimiro
- P1-54 **Dual Functional Polymerizable Deep Eutectic Solvents for Lignocellulose Nanofibrillation and 3D Printing**
U.A. Weerasinghe, D. Kai
- P1-55 **Designable Ionic Systems for Green Chemical Engineering: From Bioactive Ionic Compounds to Multifunctional Materials and Formulations**
A. Pomykała, J. Feder-Kubis
- P1-56 **Blueflow: Harnessing Marine Innovation for Production with Continuous Flow**
Pedro M. P. Veas, Raquel M. Durão, Carlos A. M. Afonso, Pedro A. S. B. Lima
- P1-57 **CFD Modelling of Babassu Coconuts in a Bubbling Fluidised Bed Reactor**
S. Kamenos, V. Natale, E. Harkou, P. Adamou, L. Voltolini, R. Wojciechszak, S. Panagi, L. Jasiunas, N. Dimitratos, G. Manos, A. Konstantinou
- P1-58 **Optimization of Natural Pigment Production in Microalgae: an Integrated Approach for Sustainable Industrial Applications**
F. Amorim, R. Mamede, E. Simões, C. Nunes, J. Nunes
- P1-59 **Green Stabilizers for Nitrocellulose Matrices: Evaluation of their Stabilizing Potential**
Diego A. F. Prestes, Fernando Hallwass, Emanuel P. de Araujo, Fernando C. Peixoto
- P1-60 **EPR Insight into Radical-Mediated PFAS Degradation on Ti₆O₁₁ Electrodes**
A. Jevremović, M. Ranković, N. Gavrilov, Đ. Nakarada, M. Mojović, M. Milojević-Rakić
- P1-61 **Green Solvent-Based Recovery of Base Oils from Hazardous Lubricant Waste Streams**
C.I.A.V. Santos, L.M. Gando-Ferreira
- P1-62 **Development of Circular Bio-Based Adsorbents for Phosphate Removal from Wastewater**
A. P. Soares, P. Llopart-Roca, B. Bayarri, A. F. Peixoto, C. Sans
- P1-63 **Sustainable Enzymatic Hydrolysis of Black Soldier Fly Larvae: A Route to Bioactive Hydrolysates**
A.J.R. Bernardes, R.R. Fantatto, D. Murta, M.S. Diniz, L.C. Branco
- P1-64 **Role of Al-Induced Deposition Layer on Nanofiltration Membrane in Enhancing Selective Lithium Recovery from Spent LIB Leachate**
Sinwoo Lee, Haesung Jung
- P1-65 **Selective Lithium Recovery from Spent LiFePO₄ Cathodes using a CO₂-H₂O₂ System**
Junyoung Kwak, Haesung Jung
- P1-66 **Antifungal Activity Study of the Plant Extract-Based Microemulsions against *F. Oxysporum f. sp. Lycopersici***
S. Jalbă, I. Lung, M.-L. Soran, V. Todiraş, C. L. Văcar, T. Erhan, O. Oprea, A. Stegarescu
- P1-67 **Optimization of Plant Extract Microemulsions for Pest and Disease Management Via Multi-Criteria Analysis**
V. Todiraş, M.-L. Soran, S. Jalba, T. Erhan, I. Lung, O. Oprea, A. Stegarescu, S. Pintea
- P1-68 **Power2ValueChemicals – Integrated Process Development for Evaluating Electrolytically Produced CO from CO₂ for Industrial Applications**
L. Steinwachs, A. J. Vorholt, W. Leitner
- P1-69 **Investigate and Phase Evolution of MnO₂ under Environmentally Redox Conditions**
Sunghoon Son, Haesung Jung

Day 2, Wednesday, September 9 | Rectorate of NOVA University of Lisbon**Room: Rectorate Hall****Topic: Green Chemical Engineering & Technology**

- P1-70 **Recycling Li-Ion Cathodes: Formic Acid Leaching Assisted by Waste Anode Copper**
Ueslei G. Favero, Lunna C. Silva, A. C. A. Rocha, Thiago G. S. Zanotti, Fábio Á. Rodrigues, Ana M. Ferreira, Maria C. Hespanhol
- P1-71 **Electrochemical Analytical Investigation of the Corrosion Inhibition Efficiency of Choline-Based Green Ionic Liquids in Protecting Mild Steel Structures**
Isehaq Al-Nafai, Aya Al Balushi, Al Abrar Al Mahrouqi

Topic: Carbon Dioxide Utilization

- P1-72 **Azirine-Based CO₂ Fixation En Route to New Oxazol(On)Es**
F. Vanhecke, C. Stevens, M. D'hooghe
- P1-73 **Role of Chalcogen&Halogen Bonds in Cu(II)-Catalyzed Cycloaddition of CO₂ with Epoxides**
Vusala A. Aliyeva, Ana V. M. Nunes, Luísa M. D. R. S. Martins, Vânia André
- P1-74 **Pilot Scale Testing of CO₂ Adsorption Capture: Experimental Results and Importance of Scale Up Trials**
Deveen Victor, Borlee Jean
- P1-75 **Carbon Nitride Frameworks Hosting Earth-Abundant Single-Atom Catalysts for CO₂ Reduction to Formate**
R. P. das Chagas, A. F. A. da Mata, I. R. S. de Menezes, I. F. Teixeira, J. L. S. Milani
- P1-76 **Anionic Ag₄ Nanoclusters for Sustainable Electrochemical CO₂ Reduction in Pure Water**
Minyoung Park, Hongmae Heo, Dongil Lee
- P1-77 **Performance Study of a PVT-Heat Pump Driven Direct Air Capture System**
Quanwen Pan, Zongjun Zhou, Yilin Ruan, Yaohui Feng, Wentao Xie, Tianshu Ge

Topic: Green Energy

- P1-78 **Combination of Analytical Separation Methods for the Qualification and Quantification of Humins Produced During the Dehydration of Sugars to 5-HMF**
Marwa Charaf, Agnès Le Masle, Kim Larmier, Paul Hazemann, Damien Hudebine
- P1-79 **Chemical Characterization of Bio-Oil Obtained from the Micro-Pyrolysis of Corn Cob Residues**
Tuğçe Demir, Dayane M. Santos, Jaderson K. Schneider, Rui G. dos Santos, Elina B. Caramão
- P1-80 **Environmentally Conscious Energy Storage Devices from Marine-Derived Materials**
A. Ugalde, M. Navarro-Segarra, J.P. Esquivel
- P1-81 **Dopant Effects in Hydrogen Evolution Catalysis by Metal-Doped MAg₂₄ Nanoclusters in Acidic and Alkaline Media**
J. Shin, H. Yi, D. Lee
- P1-82 **Assessing the Performance of Deep Eutectic Solvents on Biomass Liquefaction**
Raquel Pereira, R. Galhano dos Santos, Raquel Gonçalves, Yasmine Andrade, I. M. Marrucho
- P1-83 **Influence of the Alkaline Electrolyte Composition on Ammonia Oxidation Reaction with Pt/Pt-Rh Electrodes**
T. S. V. Lima, A. C. Oliveira, B. Silva, C. A. O. Nascimento, L. A. F. Romero

Topic: Bioeconomy

- P1-84 **Green Solvent Screening for Broccoli Leaf Phenolics and Flavonoids Extraction**
R. Carvalho, A. Sunna
- P1-85 **Sustainability Assessment of Acid-Based Demineralization of Insect Residues for Chitin Production using the Path2Green Framework**
L. Mersmann, V. G. L. Souza, A. Paiva, A.L. Fernando

Day 2, Wednesday, September 9 | Rectorate of NOVA University of Lisbon

Room: Rectorate Hall

Topic: Bioeconomy

- P1-86 **Upcycling Fruit Processing Co-Products into Functional Foods: A Circular Bioeconomy Approach to Product Development and Stability**
R. Nunes da Silva, I. Alves, M. J. Alegria, A. Fernandes, I. Fernandes, N. Mateus, V. de Freitas
- P1-87 **Selecting Bio-Based Polymers for Sustainable Personalised Eyewear: A Multi-Technique Characterisation Study**
A. Brito, T. Nikitin, R. Fausto, B. Carvalho, J. Teixeira, B. Santos, J. Lourenço, E. Silvestre, S. Fautino, P. Ramos, J. Araújo, T. Encarnação
- P1-88 **Study of the Chemical Profile of the Alga *Rugulopteryx Okamurae***
Ana M. Faisca Phillips, Patrícia Máximo, Paula S. Branco, Luísa M. Ferreira, Ana Lourenço, Pedro Lima, Diego O. Hartmann, Patrícia Sequeira
- P1-89 **Microalgal Exopolysaccharides as Renewable Building Blocks for Sustainable Biopolymer Films**
C. Dias, A. L. Fernando
- P1-90 **Lignocellulosic Nanomaterials for Sustainable Biocomposite Films: Processing Strategies and Functional Performance**
C. Dias, Lisa Mersmann, Muhammad Aqeel, Carolina Rodrigues, A. L. Fernando

Topic: Green Chemistry Education

- P1-91 **GREENCHEMAFRICA: Africa Joining the Move of the Global Mission for Sustainability**
Youssef Habibi
- P1-92 **Development of the EQQ Framework: An Integrated Assessment Framework for Green Chemistry**
Quang Canh Dinh
- P1-93 **A Chemistry Education for Marine Microplastic Research: Preliminary Findings from Mozambique**
Alfredo Pedro Mabica, José Luís Araújo, Ana Aguiar-Ricardo, M. Amparo F. Faustino

Day 2, Wednesday, September 9 | Rectorate of NOVA University of Lisbon

Room: Rectorate Hall

Topic: Green Synthesis, Catalysis & Green Solvents

- P2-1 **Biomass-Derived Wood Fibre-Iron Complex in Green Visible Light-Assisted Water Pollutant Remediation**
Gabriela A. Corrêa, Mário M.Q. Simões, Susana L.H. Rebelo
- P2-2 **Electrochemical Lactonization of Ketones Enabled by Anodic Oxidation of Benzoates**
Duarte B. Clemente, Jaime A.S. Coelho
- P2-3 **Effect of Polyol-Based Biosolvents on Laccase-Driven Depolymerization of Poly(Vinyl Alcohol)**
Mariana I. S. Aguiar, Daniela L. Espínola, Maria Inês C. Santos, João A. P. Coutinho, Ana P. M. Tavares, Frederik R. Wurm, Andreia F. Sousa, and Ana M. Ferreira
- P2-4 **Understanding the Presence of the Surface Coordinated Copper Hydrides for the Selective Hydrogenation of 5-Hydroxymethylfurfural**
Po-Wen Chung
- P2-5 **Thianthrenium Salts Enable Broad-Scope C–H Carbonylation for Carbon Isotope Labeling**
Vitus J. Enemærke, Rasmus S. Grarup, Prof. Troels Skrydstrup
- P2-6 **Biocatalytic Preparation of Esters Via Hemiacetal Oxidation: A Novel, Self-Sufficient and Industrially Viable Ester Production Route**
M. Zago, S. Ceccarossi, I. Serra, P. Branduardi

Day 3, Thursday, September 10 | Rectorate of NOVA University of Lisbon**Room: Rectorate Hall****Topic: Green Synthesis, Catalysis & Green Solvents**

- P2-7 **Photocatalytic Hydrogels Derived from Food Waste for the Removal of Organic Contaminants**
B. Cerea, A. Gianoncelli, G. Ribaudo, I. Vassalini, I. Alessandri
- P2-8 **Polymer Film / Nanomaterial Modified Electrodes by Electropolymerization in Ternary Deep Eutectic Solvents and Application**
J.M.S. Almeida, C.M.A. Brett
- P2-9 **Food-Inspired Oxidative Coupling of Caffeates: A New Tool for the Green Synthesis of Benzacridines**
R. Pereira, N. Mateus, V. Freitas
- P2-10 **The Ion Behavior and Storage Mechanism of 2D MnO₃ Layer Structure in an Air-Stable Hydrated Eutectic Electrolyte for Aluminum-Ion Energy Storage**
F. H. Hsu, S. Y. Hsu, K. T. Lu, J. M. Chen
- P2-11 **Ultrafast Bromide-Free Mechanochemical TEMPO Oxidation of Cellulose**
Nashwa L. Attallah, Yao Yu, Valentina Guccini, Isaac Miranda Valdez, Eero Kontturi, Sandra Kaabel
- P2-12 **Photochemical Valorization of Lignin**
L. Cid Gomes, A. Riddell, H. M. Khalid, D. Bernin
- P2-13 **Direct Access to Primary Amines Via Electrophilic Amination Mediated by Hypervalent Iodine Reagents**
Gabriel G. Rocha, José C. Cunha, Catarina Cipriano, Rafael Gomez, Fábio Santos, Stefan Bräse, M. Manuel B. Marques
- P2-14 **Sustainable Design of Photoactive Metal Complexes for Low-Toxicity Therapeutic Applications**
E. Wiczorek-Szweda, E. Ewert, I. Pospieszna-Markiewicz, M. Fik-Jaskółka
- P2-15 **Extraction of Nitrosoamines by Stir Bar Sorptive Extraction with Natural Deep Eutectic Solvent**
R. Halko, L. Mikulcová, I. Boháčová, M. Kaykhaii
- P2-16 **In-Syringe Rapid Synergistic Mixed Micelle Cloud Point Extraction as "Smart" Extraction for Determination of Copper in Pharmaceutical Preparative**
M. Mihályová, A. Gajdošová, J. Šandrejová
- P2-17 **The Influence of DES on the Esterification of Levulinic Acid Catalysed by Biomass Porous Carbon**
I. Matos, M. Bernardo, M.E. Zakrzewska, N. Lapa
- P2-18 **Low Temperature Phase-Separating Hydro-Alcoholic Depolymerisation of Polyurethanes**
A. S. Sarala, G. Rossignolo, T. Andersen, J. G. Brøgger, B. S. Donslund, T. Skrydstrup
- P2-19 **Biopolymers from Different Species of Boraginaceae Family and their Synthetic Analogue**
M. Merlani, L. Amiranashvili, L. Gogilashvili, V. Barbakadze, N. Sukhishvili, K. Mulkijanyan
- P2-20 **Enabling High-Turnover Methanol-to-Syngas Reforming**
Andreas Bonde, Gabriel M. F. Batista, Michal Gurský, Troels Skrydstrup
- P2-21 **Multicomponent Reactions for Sustainable Chemistry**
G. Bosica
- P2-22 **Evaluation of Catalytic Sulfoxidation Reactions for Obtaining Sulfonyl and Sulfinyl Containing Compounds**
Noémi Deak, Gabriela Nemeş
- P2-23 **Unified Photochemical Approach to C(sp³) Chlorinated Compounds from Cyclopropanes, Olefins, and C-H Bonds using Willgerodt-Type Reagents**
Tin V. T. Nguyen, Jerome Waser
- P2-24 **Sustainable Microwave-Assisted Hydrothermal Conversion of Biomass Residues into Bio-Oil and High-Performance Carbon Materials**
Tânia Frade, Laura Ferreira, Diogo Amaro, Rui Galhano dos Santos

Day 3, Thursday, September 10 | Rectorate of NOVA University of Lisbon

Room: Rectorate Hall

Topic: Green Synthesis, Catalysis & Green Solvents

- P2-25 **Modulating Nucleic Acids Solubilization and Stabilization with Tailored Non-Conventional Solvents**
Bruna F. L. Guerreiro, Rafaela A. L. Silva, Andreia A. Rosatella, Carlos A. M. Afonso
- P2-26 **Bio-Oils from Food Waste: Turning Waste into Sustainable Solutions**
Joana Madeira, Raquel Gonçalves, Maria Sousa, Tânia Frade, R. Galhano dos Santos
- P2-27 **Synthesis of Cellulose Methacrylate and its Use for Artificial Lung Applications**
S. Ximenes, V. Teixeira, T. Fruleux, J. Wang, C. Vallejo-Giraldo, M. Biggs, R. Chagas, L.M. Ferreira
- P2-28 **Natural Products Derivatives for the Treatment of Parkinson's Disease**
R. D. Felisberto, C. A. Montargil, M. A. G. Fortunato, F. Siopa, C. A. M. Afonso
- P2-29 **Green Access to Trans-2,4,5-Triamino-Cyclopent-2-Enones from Biomass-Derived Furans**
A. S. G. M. Verde, T. M. P. Santos, S. M. E. Cabral, R. F. A. Gomes, C. A. M. Afonso
- P2-30 **Photoinduced 1,3-Dipolar Cycloaddition on Bicyclic Aziridines Towards the Synthesis of New Pyrazolines**
Mariana C. Monteiro, Sara O. Antunes, Filipa Siopa, Carlos A. M. Afonso
- P2-31 **Structural and Surface Engineering of PtCo Nanowires for Enhanced Durability in Oxygen Reduction Reaction**
Daeun Kim, Sang-Il Choi
- P2-32 **Boosting Acidic Hydrogen Evolution Kinetics through Tensile Strain on Pt(111)**
Selim Park, Sang-Il Choi
- P2-33 **Dynamic Surface Transformation of Ruthenium Carbide During Hydrogen Evolution Reaction Promotes Activity and Stability in Acidic Media**
Saehyun Park, Sang-Il Choi
- P2-34 **Vertical-β-NiOOH on Fe-Doped (111)-Faceted Ni Nanoplates for Highly Durable Oxygen Evolution**
Gwanho Lee, Sang-Il Choi
- P2-35 **Stereoselective Electrochemical 1,4-Dicyanation of Abietanes**
Inês S. Martins, Jaime A. S. Coelho, Carlos A. M. Afonso
- P2-36 **Photochemical Oxidation of Enaminones**
A. Peralta, J. R. Vale, R. Gomes, C. A. M. Afonso
- P2-37 **Selective Allylic Oxidation of Cyclohexene and Ionone for the Production of Fine Chemicals**
S. Thomas, A. Neri, M. Offidani, T. Tabanelli, F. Cavani
- P2-38 **Bile Acid Valorization through Bacterial Biotransformation: A Circular Economy Approach**
V. Scorza, C. Garcia, V. Giorgi Dilacio
- P2-39 **Synthesis of Sustainable Binders for Agglomeration in Cork from Renewable Raw Materials**
Luciana Barbosa da Silva, Raquel Pereira, R. Galhano dos Santos
- P2-40 **Upcycling Coffee Waste: Supercritical CO₂ Extraction**
G. Moroni, F. Aurum, J. Ruef, M. Pignitter, K. Bica-Schröder
- P2-41 **Cannabidiol Biotransformation as a Green Strategy for Developing Antibiofilm Agents**
V. Giorgi, S. Raffaelli, S. Alborés, S. Fernández, C. García, P. Rodríguez Bonnacerrere
- P2-42 **Valorization of Rice Husks through Functionalization with Eutectic Mixture**
G. A. Nogueira, H. W. Ferreira, H. N. Miyazaki, J.O. Fernandes, S. C. Cunha, M. H. Gonzalez
- P2-43 **Systematic Functionalization of Silk Sericin Via Acetylation: A Design of Experiments Approach Toward Sustainable Biomaterials**
Rony Aad, Luca Leuzzi, Diletta Ami, Greta Bianchi, Marco Mangiagalli, Antonino Natalello, Laura Cipolla, Simone Vesentini

Day 3, Thursday, September 10 | Rectorate of NOVA University of Lisbon

Room: Rectorate Hall

Topic: Green Synthesis, Catalysis & Green Solvents

- P2-44 **Ionic and Non-Ionic Porous Organic Materials for Advanced Water Purification**
Sunny K. S. Freitas, Leticia R. C. Corrêa, Maria João Nunes, Pierre M. Esteves, Luis C. Branco
- P2-45 **Intensification of Supercritical CO₂ Extraction of Lipids from Insect Meal: Extraction Performance and Process Efficiency**
J.M. Lopes, A. B. Paninho, M. José, B. Monteiro, P. Simões, A. I. Aguiar-Ricardo, T. Casimiro, A. V. M. Nunes, L. C. Branco
- P2-46 **MW Irradiation and Flow Chemistry Approaches for a More Efficient Synthesis of 2H-Aminochromenes**
M. I. L. Soares, G. F. M. Mourinho, J. Macedo, T. M. V. D. Pinho e Melo
- P2-47 **Synthesis of 5-Bromopyrrole-2-Carboxylate Towards the Total Synthesis of (-)-Agelastatin A**
João Jorge, João R. Vale, Carlos. A. M. Afonso
- P2-48 **Exploration of N-Terminal Functionalization of Peptides through Photocatalytic Processes**
Helena S. Ramos, Tiago M. P. Santos, Rafael F. A. Gomes, Carlos A. M. Afonso
- P2-49 **A Hybrid Electrolyte Strategy Enabling Water-Derived Protons in Li-Mediated Ammonia Synthesis**
Hyung Chul Yoon, Kim, Jae Hyung, Baek, Jiyeon, Shim, Joonmok, Kim, Sun Hyung

Topic: Green Chemical Engineering & Technology

- P2-50 **Supercritical Water Liquefaction of Mixed Plastic Waste Contaminated with PET: Influence on Yields and Product Composition**
M. Mathew, M.A. Nahil, C. Querton, P.T. Williams
- P2-51 **Valorisation of Coffee Silverskin using Subcritical Water Extraction**
B. Monteiro, A. Paiva, P. Simões
- P2-52 **GC-MS Based Chemical Profiling of Portuguese *Cistus Spp.* and Assessment of Bioactivity**
Carolina Nunes, Eliana F. C. Simões, Rafael Mamede, Sofia Santos, Carlos A. M. Afonso, Artur M. S. Silva, João Nunes
- P2-53 **Molecular Engineering of Carbazolophane Donors Derived from PCP Scaffolds for TADF Applications**
Jasmin Seibert, Somayeh Asgharnasl, Stefan Bräse
- P2-54 **Conjugation Tuning of Porphyrin Linkers for Green Photoactive MOFS**
M. Najafi, S. Bräse
- P2-55 **Design and Optimization of Aqueous Two-Phase Systems for Biotechnological Applications and Waste Valorization**
Nuria Mouronte, M^a Salomé Álvarez, M^a Asunción Longo, Francisco J Deive, Ana Rodríguez
- P2-56 **Impregnating Ionic Liquids into a MOF: Cationic and Anionic Effects and Impact on Sorbent Properties**
T. J. Ferreira, C. Cabral, L. M. Esteves, T. O. Carvalho, J. Pais, L. P. C. Silva, P. M. Reis, J. M. S. S. Esperança, I. A. A. C. Esteves
- P2-57 **PVDF Dissolution by Bio-Based Solvents for Improved Lithium-Ion Battery Recycling**
B. Bengui, F.H.B. Sosa, J.A.P. Coutinho, N. Schaeffer
- P2-58 **Tailoring Iron Oxides by Surfactant-Assisted Pechini Route with Application in Pollutants Detection**
J. C. S. Cardoso, G. H da Silva, E. A. de Almeida, G. T. Tractz
- P2-59 **Sustainable Approaches to Tear Biofluid Analysis by LC-MS/MS**
M. Costa, J. P. Noronha, O. Flores, L. C. Branco, M. João Nunes
- P2-60 **pH-Responsive Delivery of Tyrosol using Molecularly Imprinted Polymers Prepared in Supercritical CO₂**
R. Hipólito, F. Teixeira, A.V.M. Nunes, R. Viveiros, T. Casimiro

Day 3, Thursday, September 10 | Rectorate of NOVA University of Lisbon

Room: Rectorate Hall

Topic: Green Chemical Engineering & Technology

- P2-61 **Sustainable Xylanase Production through Valorization of Olive Oil By-Product**
L. Gioia, C. Barrera, A. Larocca, G. Blanco, C. Dauber, V. Aldabalde, I. Vieitez, P. Rodríguez
- P2-62 **Balancing Adsorption Efficiency and Sustainability: A Green Metrics Approach to Selecting Biochar for Deferiprone Removal**
James Phil Flores, Apichat Imyim
- P2-63 **Biooxidation of Graphite Foil with White-Rot Fungi**
Wojciech Dunaj, Stanislaw. Dunaj
- P2-64 **Waste Tire Pyrolysis as an Integrated Carbon Recovery Route: Direct CO₂ Emissions from Energy Fractions and Carbon Retention in Recovered Carbon Black**
A. O. Goulart, P. H. P. T. Porto, P. C. C Araújo, C. A. O. Nascimento
- P2-65 **Porous Carbon Materials Derived from Invasive Seaweeds as Efficient Recovery Agents for Neodymium**
M. Bernardo, M. Stasi, C. Rodrigues, I. Matos, L. Branco, N. Lapa, A. Martins, C. Alves
- P2-66 **Green Fabrication of Chitosan-Based Microcapsule Structures for Sustainable Material Applications**
Sujin Ryu
- P2-67 **Lignin Upcycling on Biodegradable Composites for Food Packaging**
M. Cabaco, C. Costa, F. Magalhães, A. Rodrigues
- P2-68 **Development of Sustainable Bio-Based Microcapsules for Textile Functionalization**
A. Silva, A. Rodrigues, I. Martins
- P2-69 **Shaping ZIF-8 in Chitosan – In-Situ Growth and Powder Dispersion for Enhanced CO₂ Capture**
Thiago O. Carvalho, Tiago J. Ferreira, Joana Pais, A. B. Paninho, A. V. M. Nunes, José M.S.S. Esperança, Isabel
- P2-70 **Continuous Flow Synthesis of Primaquine Diphosphate an Anti-Malarial Drug**
F. M. Akwi, P. Watts
- P2-71 **Zero-Carbon Seawater Desalination with Electricity Cogeneration Via Process Intensification and Genetic Algorithm Optimisation**
R. Thakran, A. K. Jana

Topic: Carbon Dioxide Utilization

- P2-72 **Homogeneous Co(II) Cryptates for Light-Driven CO₂ Transformation: Optimisation and Scale-Up**
R. T. Marques, S. Realista, R. G. Santos, P. N. Martinho
- P2-73 **CO₂ Hydrogenation to Formic Acid Assisted by Mn Catalysts**
L. Pereira, S. Friães, A.V.M. Nunes, L.B. Maia, B. Royo, L.C. Branco
- P2-74 **Fe₃O₄ Enhances Chain Elongation from CO₂ and H₂**
Nikash Naorem, Shashidhar Thatikonda
- P2-75 **Ferrihydrite-Based Catalysts for Synthetic Wax Production Via Fischer-Tropsch Synthesis**
G. B. Rhim, K. W. Kim, Y. E. Kim, C. Choe, H. S. Lee, M. H. Youn, D. H. Chun
- P2-76 **Interfacial Mechanism of CO₂ Electroreduction on Cu/Zn-Modified Electrodes Investigated by EIS-DRT Analysis**
D. Montini, I. Vassalini, I. Alessandri
- P2-77 **Study and Development of Innovative Processes and Materials for the synthesis of Hydrogen Carriers from CO₂**
Gaetano Maria D'Onofrio, Jacopo De Maron, Francesco Basile, Rosanna Viscardi

Day 3, Thursday, September 10 | Rectorate of NOVA University of Lisbon

Room: Rectorate Hall

Topic: Green Energy

- P2-78 **Mesoporous TiO₂ as Support for Co-Ce PROX Catalysts**
S. Todorova, J.-L. Blin, B. Lebeau, B. Grahovski, H. Kolev, D. Filkova, L. Vidal, L. Michelin, Z. Geshkova
- P2-79 **Scanning Electrochemical Microscopy: In Operando Analysis of Electrocatalytic, Bio-Interfacial, and Gas-Evolving Surfaces**
Hyun S. Ahn
- P2-80 **Selective Leaching of Li-Ion Battery Metal Scrap without External Reducing Agents**
Jaeyeong Heo, Haesung Jung
- P2-81 **Four-Component Nickel-Based Catalyst for Efficient Hydrolysis of Sodium Borohydride**
G. Valeckytė, Z. Sukackienė, J. Vaičiūnienė, L. Tamašauskaitė-Tamašiūnaitė, E. Norkus

Topic: Bioeconomy

- P2-82 **Green Surface-Engineered Nanocellulose from *Raphia Farinifera* Inflorescence for Mechanistic Control of Interfacial Chemistry in Sustainable Water Treatment**
E. Agboeze, I. P. Udeozo, H. O. Agboeze, V. A. Ofordile
- P2-83 **Sequential and Simultaneous Extraction of Phenolic Compounds and Biopolymers from *Sargassum Muticum* using Alternative Solvents**
Bárbara C. Jesus, Maria Miquel-Gonzalez, Alice Martins, Isabel M. Marrucho
- P2-84 **Green Adsorbents for Sustainable Water Remediation: MOF-Derived Porous Carbons and Waste-Derived Chars**
D. S. S. Flores, C. M. R. Almeida, A. F. Peixoto, C. M. Granadeiro
- P2-85 **Sustainable Extraction and Phytochemical Characterization of Bioactive Compounds from *Marrubium Deserti* for Pharmaceutical Applications**
S. Boutebba, C. Manceri, Y. Meraihi
- P2-86 **Sustainable Synthesis of Artificial Humic Substances from Biomass for Environmental Remediation**
K. Pakzad, A. Volikov, M. Antonietti

Topic: AI in Green Chemistry

- P2-87 **Smart and Sustainable Azetidine Synthesis: Integrating Flow Chemistry with Machine Learning**
J. Azuaje, F. Pereira, J. Antunes, L. Ferreira

Topic: Green Chemistry Education

- P2-88 **Green Chemistry and Teaching about Microplastics to Promote Ocean Literacy: Potential through the Steam Approach**
J.R.P.M. Barros, B.F. Barcellos, D.A. Garcia, V.R. Terra, D.R. Sena
- P2-89 **Advancing Green Chemistry through AI-Driven Synthesis Planning and Data-Enabled Insights**
M. Da Pian, A. S. Helmy, M. Stella
- P2-90 **Educating Green Chemistry Leaders: Integrating Education, Research, and Innovation for Global Impact**
Muhammad Farooq Zia, Marko. D. Mihovilovic

Day 4, Friday, September 11 | Rectorate of NOVA University of Lisbon

Room: Rectorate Hall

Topic: Green Synthesis, Catalysis & Green Solvents

- P3-1 **Sustainable Ethylbenzene Synthesis Via in Situ Hydrogen-Driven Styrene Hydrogenation**
P. Kumar, U.L. Stangar
- P3-2 **Cyclohexanone Oxidation with Acid-Functionalised SBA-15 Catalysts for Sustainable Adipic Acid Obtain-**
tion
L. Arrieche-Hernández, J. Granados-Reyes, Y. Cesteros
- P3-3 **Making the Elusive Tangible: Long-Lived Benzyl Cations Stabilized in Zeolites**
Francesco Orlando, Raúl Pérez-Ruíz, German Sastre, Antonio Leyva-Pérez
- P3-4 **Hypervalent Iodine-Mediated Synthesis of Sulfones using Organozinc Pivalates and Sulfinate Salts**
José C. Cunha, Gabriel G. Rocha, Stefan Bräse, M. Manuel B. Marques
- P3-5 **A Green Approach to 2-Arylquinolines Via Palladium-Catalysed C-H Activation**
Nuno Viduedo, Leonardo Pirvu, Ângelo Alves, Fábio Santos, M. Manuel B. Marques
- P3-6 **Synthesis, Physical Properties and Hydrolytic Degradation of Novel Biobased Poly(Hexamethylene Fu-**
randicarboxylate-Co-Oxalate) Copolyesters
Zhaobin Qiu
- P3-7 **Cobalt-Catalyzed C-H Activation/Annulation of a Benzothiophene Amide With Alkynes in γ -**
Valerolactone
Juliana P. Sousa, Maria-João R. P. Queiroz
- P3-8 **NaY Zeolite-Supported Pd(II) for Green Sonogashira Coupling of Heteroaryl Halides in Eucalyptol**
Francisco Ribeiro, António M. Fonseca, P. Parpot, Isabel C. Neves, Maria-João R. P. Queiroz
- P3-9 **Sustainable Polyester Plastic Chemical Transformation and Valorisation**
H. Araújo, Z. Petrovski, Diana Tomázio, Luís C. Branco, N. Lapa
- P3-10 **Sustainable Hydrotrope-Based Extraction of Artemisinin from *Artemisia Annua***
I.W. Cordova, A.M. Ferreira, M.S. Ferreira, N. Papaiconomou, O. Ferreira, S.P. Pinho, J.A.P. Coutinho
- P3-11 **Greener Synthesis to Enhance the Competitiveness of New Antifouling Additives as Sustainable Alterna-**
tives to Toxic Biocides in Marine Coatings: Supporting SDG 14
M. Correia-da-Silva, B. Loureiro, R. Ribeiro, S. Cravo, Frederico Maia
- P3-12 **Metal-Free Carbon Nitride for Enhanced Continuous-Flow Vicinal Halotrifluoromethylation of Vinyl**
Compounds
Shilpa Palit, Gianvito Vilé
- P3-13 **Parametrisation of the Oxidation of Acetol using Green Chemistry Principles**
I. Prediger, M. Al Akrami, M. Schmeide, C. Albers, J. Witzorke, S. Schwarze, N. Kulak
- P3-14 **Thermoelectrochemistry-Enabled Phase and Morphology Control of Metal Phosphide**
Hyokyum Ahn, Yunwoo Nam, Taeyeon Kang, Hyun S. Ahn
- P3-15 **Grinding and Flowing with Nitroso- and Azoalkenes**
Bruna D. P. Costa, João C. S. Simões, Marta Pineiro, Teresa M. V. D. Pinho e Melo
- P3-16 **Synthesis of 2D π -d Conjugated Conductive Thin-Film MOF via Electrochemical Anodic Deposition**
T. Kumar, F. Keshavarz, E. Repo, P. Macchi, N. Rezaei
- P3-17 **N-Heterocycle Formation Via Yn(Di)Amide Reactivity**
Ana R. Reis, Edward A. Anderson, Maria Manuel B. Marques
- P3-18 **Exploring Titania-Based Photocatalysts for Hydrogen Generation Via Glycerol and Ammonia Photorefor-**
ming
Lisa Della Vecchia, Giulia Toro, Cristiana Cesari, Jacopo De Maron, Francesco Basile

Day 4, Friday, September 11 | Rectorate of NOVA University of Lisbon

Room: Rectorate Hall

Topic: Green Synthesis, Catalysis & Green Solvents

- P3-19 **Flurbiprofen Ionic Liquids as a Green Strategy for Sustainable Transdermal Formulations**
K. Bilska, P. Ossowicz-Rupniewska
- P3-20 **Reverse Water–Gas Shift Reaction over $\text{Ru}_x\text{Co}_y\text{Ce}_{1-x-y}\text{O}_2$ Catalysts: Insights into Apparent Activation Energy and Enthalpy**
C. H. J. Franco, K. Ledwa
- P3-21 **N-Glycosylation Via Hypervalent Iodine**
C. Cipriano, Rafael F. A. Gomes, M. Manuel B. Marques
- P3-22 **Ionic Liquid Derivatives of Mefenamic Acid: A Green Strategy to Improve Drug Solubility and Skin Delivery**
K. Zyburtowicz-Ćwiartka, P. Ossowicz-Rupniewska
- P3-23 **Selective Electrochemical Bromination of Furans**
L. Van Coillie, D. Prusov, C. V. Stevens, T. S. A. Heugebaert
- P3-24 **Cyclodextrin-Based Supramolecular Deep Eutectic Solvents for Green Extraction of Phenolic Compounds from *Pinus Sylvestris* Needles**
A. Kalyniukova, V. Andruch
- P3-25 **Merging Light and Electricity: Electrophotocatalytic Heteroarylation of Pyrazoles**
J. De Ketelaere, V. Tormans, A. Bytyci, O. Van Hecke, T. S. A. Heugebaert
- P3-26 **Green Chemistry: New Catalytic Pathways with Phosphate-Zirconia Hybrid**
Salma Dehhaoui, R. Galhano dos Santos, Abdelkrim Chahine
- P3-27 **Turning Cork Industrial Waste into Low-Cost Effective Catalysts for Desulfurization of Fuels**
L. Dias, S. M. Bruno, F. Mirante, S. S. Balula
- P3-28 **Bio-Based Maleic Anhydride from 1-Butanol : Process Optimization and Reaction Scheme Investigation**
Marco Brocchi, Anna Gagliardi, Ludovica Conte, Annalisa Sacchetti, Gianluca Moroni, Carlotta Cortelli, Annamaria Catalano, Matteo Pompei, Tommaso Tabanelli, Fabrizio Cavani
- P3-29 **Exploring Metastable Fcc-Ru Via Surface-Heated Electrodeposition of Faceted Nanoseeds for Electrocatalytic Applications**
Taeyeon Kang, Hyun S. Ahn
- P3-30 **A Recyclable Heterogeneous Catalyst for the Chemo and Enantioselective Hydrogenation of C=C Bonds**
Nils H. Rendel, Himadri Sekhar Sasmal, Arne Nalop, Christian Gutheil, Lisa Schlichter, Felix Wessels, Frank Glorius
- P3-31 **Three-Component Cyclisation Enabled by Tripletsensitized Biradical Interception using Photocatalysis**
Madina Lenz, C. Stein, I. Dey, L. Schlosser, T. J. Schoffels, C. G. Daniliuc, F. Glorius
- P3-32 **Organic Carbonate Mediated Functionalization of Isosorbide and Its Epimers**
D. Dalla Torre, G. Trapasso, F. Aricò
- P3-33 **Green Hydrothermal Synthesis and Characterization of Magnetic Core-Shell Particles from Leaf Extracts of *Cinnamomum Camphora***
Chun-Rong Lin, Hsin-Yi Yeh, Chien-Chih Chen
- P3-34 **Eco-Friendly Synthesis of Ag-NPs On HOPG for Sustainable Applications: Experimental and Computational Studies**
B. Ocampo Cárdenas, G. Román, G. Dodero, E. Nosedá Grau, A. Díaz Compañy, S. Simonetti
- P3-35 **Collaborative Stereocontrol in Enantioselective Hydroarylation: A Sustainable Approach to Chiral Molecule Synthesis**
Xin Cui, Weinan Tan, Nguyen Tran, Binjita Pandey

Day 4, Friday, September 11 | Rectorate of NOVA University of Lisbon

Room: Rectorate Hall

Topic: Green Synthesis, Catalysis & Green Solvents

- P3-36 **Green Synthesis of 1,2,4-Triazole-Thioacetamide Derivatives and Their Antimicrobial Activity**
A. Šermukšnytė, K. Kantminienė, Maryna Stasevych, Olena Komarovska-Porokhnyavets, I. Tumosienė
- P3-37 **Cyclometalated Ruthenium(II) Catalysts for Ester Hydrogenation**
R. Sara, B. Maurizio, B. Arolla, Z. Daniele, B. Walter, B. Jonathan, G. Damian, Z. Antonio
- P3-38 **Synthesis and in Silico Testing of Novel Nitrogen-Rich Cantharidin Analogs Promoted by Ultra High Pressure**
Tiago M. P. Santos, Sabrina M. E. Cabral, Catarina I. B. Cipriano, Rafael F. A. Gomes, Carlos A. M. Afonso
- P3-39 **Mechanochemical Reactivity of Biomass-Derived Bis-Furans Toward Nitrosoalkene Cycloadditions**
Mariana Peixoto, Daniel-Almeida Santos, Teresa M. V. D. Pinho e Melo, Marta Pineiro
- P3-40 **Solvent-Free Tin(IV) Chloride-Catalyzed Strecker-Type Cyanation of Benzaldehyde Dimethyl Acetal: Mechanistic and Experimental Studies**
Ismayil M. Garazade, Armando J. L. Pombeiro, Maxim L. Kuznetsov
- P3-41 **Green Processing-Induced Development of In-Situ Generated PTFE Nanofibrils and Halloysite Nanoclays Delineated for PLA Foaming**
Silla George Raju, Ramin Hosseini-zhad, Andrzej Galeski
- P3-42 **High Pressure Torsion: A Green Solid State Strategy for Recycling Paper Based Polymer Composites**
Merin R. K. Emmanuel, Alina Vozniak, Ramin Hosseini-zhad, Joanna Zakrzewska, Alexander Straumal, Roman Kulagin, Iurii Vozniak

Topic: Green Chemical Engineering & Technology

- P3-43 **Natural Solvents for Sustainable Polypropylene Recycling: Dissolution-Precipitation**
S. C. Aparício, I. Pires, M. Silaco, R. Galhano dos Santos, I. M. Marrucho
- P3-44 **Process Development for Hydrogen Production from Ammonia Decomposition at High Pressures**
P. C. C. Araújo, J. E. C. Savoia, A. Y. Fernández, M. Rosset, R. M. B. Alves, C. A. O. Nascimento
- P3-45 **Physical and Chemical Recycling of Waste PET Fabrics for Closed-Loop Fiber-to-Fiber Recycling**
Jong Hyuk Bae, Dokun Kim, Wan-Gyu Hahm
- P3-46 **Sustainable Recovery of Battery-Grade Manganese Sulfate from Steelmaking Dust**
Wooseok Lee, Sinwoo Lee, Junyoung Kwak, Haesung Jung
- P3-47 **Osmium Complexation Analysis in Aquatic Samples by X-Ray Fluorescence, after Membrane Extraction**
Georgia Vlamaki, Nikolaos Kallithrakas-Kontos, Nikos Lydakis-Simantiris
- P3-48 **Determination of Iron by Pipette-Tip Micro-Solid Phase Extraction Followed by UV-Vis Detection**
Vivien Oltmanová, Serhii Zaruba, Vasil Andruch
- P3-49 **Bioelectrochemical Metal Recovery from Spent Lithium-Ion Battery Cathodes**
Yeonseo Jang, Sunghoon Son, Wooseok Lee, Sinwoo Lee, Haesung Jung
- P3-50 **Quantitative Spatial Resolution Framework for Scanning Electrochemical Microscopy Toward Reliable Catalytic Activity Mapping**
Haesung Oh, Geonwoo Park, Yeonsu Kim, Jongwon Kim, H. S. Ahn
- P3-51 **SESQUICHIC: Chicory Sesquiterpene Lactones as Biobased Insecticides**
Fre Van Daele, Willem Desmedt, Len Gruyaert, Katrijn Van Laere, Katarina Cankar, Dirk Bosch, Sven Mangelinckx
- P3-52 **The Visible Light Induced Antimicrobial Activity of TiO₂ Nanoparticles Anchored onto Cellulose Acetate Film Containing Galloyl Moiety**
I. S. Stefanović, J. V. Džunuzović, E. S. Džunuzović, T. Kovač, V. Nikšić, V. Lazić

Day 4, Friday, September 11 | Rectorate of NOVA University of Lisbon

Room: Rectorate Hall

Topic: Green Chemical Engineering & Technology

- P3-53 **Efficient Mineralization of Poly(Tetrafluoroethylene-Co-Hexafluoropropylene) Copolymer (FEP) using Subcritical Water**
H.Saito, H. Hori, A. Manseri, B. Ameduri
- P3-54 **Modification of Poly(Lactic Acid) Composites by Processing Technique**
Rina Ogawa, Hoang-Giang Dai Vo, Masayuki Yamaguchi
- P3-55 **Mechanochemical Recycling of Vanadium and Tungsten from Spent Selective Catalytic Reduction Catalysts**
Y. Gao, A. Sagar, F. Baum, A. Reyes, F. Kleitz, F. Schüth
- P3-56 **Adsorption and Recovery of Ni-Bipyridine Complexes from Spent Catalyst with XAD Resins**
H. Iwai, Y. Takaya, N. Yokota, Y. Takahashi, C. Tokoro
- P3-57 **Kinetic Modeling of Biotic Fe(II) Oxidation and Precipitation in Passive Treatment of Acid Mine Drainage**
A. Nagaoka, H. Iwai, Y. Masaki, T. Hamai, C. Tokoro
- P3-58 **Effective Removal of Dyes and Hazardous Chemicals from Decolorization Wastewater in Textile Recycling**
J. Y. Lim, W. Lee
- P3-59 **Tailored Electrochemical Systems for Real-Time Quantification of Hydrogen Peroxide Generated from Photoactive Organic Materials**
G. Park, C. Cabanetos, H. S. Ahn
- P3-60 **A Simple Water-Based Route for Fabric-to-Fibre Recycling of PBT/Cotton Textile Blends**
Simão V. Pandeirada, Paula S. S. Lacerda, Michael A. R. Meier, Andreia F. Sousa
- P3-61 **Mechanical and Optical Response of a Biodegradable Polyester Film Under Tensile Deformation**
Yuta Fukuda, Masayuki Yamaguchi
- P3-62 **Segregation Behavior of Poly(Vinyl Chloride) Plasticized with Acetyl Tributyl Citrate Under Temperature Gradient**
T.K.T. Huynh, M. Yamaguchi
- P3-63 **Rheological Modification of Biodegradable PHBHHX through Polymer Blending**
N. Tassakarn, M. Yamaguchi

Topic: Carbon Dioxide Utilization

- P3-64 **Single-Amine CO₂ Hydrogenation to Formic Acid: Process Simplification with NBIM and Heterogeneous Ru Catalysis**
Jiseong Baek, Hongjin Park, Sungho Yoon
- P3-65 **Design and Development of Multifunctional Materials for CO₂ Capture and Valorization**
B. Rocano-Merchan, A. Centeno-Pedrazo, J. Perez-Arce, Zoraida Freixa, E. J. Garcia-Suarez
- P3-66 **Na-Promoted LDH-Derived CuAl Catalysts for the Reverse Water-Gas Shift Reaction under Low-Temperature and High-Pressure Conditions**
M.H. Youn, K.W. Kim, G.B. Rhim, Y.E. Kim, C. Choe, H.S. Lee, D.H. Chun
- P3-67 **Polymer Binder-Controlled Microenvironments for CO₂ Reduction in Nickel Single-Atom Catalyst Layers**
Y. E. Kim, D. H. Chun, M. H. Youn, G. B. Rhim, K. Y. Kim, C. Choe, Y. E. Jeon
- P3-68 **Brønsted Acidity–Cracking Correlation in Fe/ZSM-5 Catalysts for Fischer–Tropsch Synthesis**
D. H. Chun, G. B. Rhim, K. W. Kim, Y. E. Kim, C. Choe, H. S. Lee, M. H. Youn
- P3-69 **Compositional Tuning of Exsolution-Derived Spinel Ni-Cu Catalysts for Enhanced CO Selectivity and Stability in RWGS Reaction**
Hyejeong Kim, Dong-Hyun Kim, Kyubock Lee

Day 4, Friday, September 11 | Rectorate of NOVA University of Lisbon

Room: Rectorate Hall

Topic: Carbon Dioxide Utilization

P3-70 **High-Performance Aminated Porous Polymer for Direct Air Capture and CO₂ Conversion**
A. Pal, Ö. Neli, J. Yuan

P3-71 **Dynamic Machine Learning Framework for CO₂-to-Methanol Catalyst Discovery**
Bogyeong Sa, SeHun Joo, Joon Hyun Baik

Topic: Green Energy

P3-72 **Benzyltoluene Hydrogenation Under Offshore Conditions in a Trickle Bed Reactor**
B. Subasi, A. Bösmann, P. Wasserscheid

P3-73 **Tungsten Carbide-Based Catalysts for Hydrogen Evolution Reaction**
E. Galli, M. Delvecchio, S. Javaid, U. Iacobone, S. Patronelli, F. Bresciani, I. Vassalini

P3-74 **Phase-Tunable Electrolytes Based on Ionic Hydrophobic Eutectic Systems for Supercapacitors**
I. G. Silva, M. F. Montemor, I. Marrucho

P3-75 **Characteristics of Biofuels Obtained from One-step Hydrothermal Reaction of Microalgae *C. Nibukawa***
H. Yamasaki, Y. Iwamoto, Y. Tanaka, H. Kawakami, M. Ohnuma, S. Murakami

Topic: Bioeconomy

P3-76 **Advances in Microencapsulation of Fertilizers: Enhancing Nutrient Efficiency and Sustainable Agriculture**
M. Ageel, V. Souza, A. L. Fernando

P3-77 **Energy Crops to Bioenergy, Biofuels and Bioproducts: What Are the Local Impacts?**
A. L. Fernando, C. Dias, C. Rodrigues, E. Alexopoulou

P3-78 **Chitosan Films Enriched with *Opuntia Ficus-Indica* Extract for Food Packaging Applications**
S. Santos, G. Pereira, A. Bursztein, V. Barros, C. Rodrigues, V.G.L. Souza, A.L. Fernando

Topic: AI in Green Chemistry

P3-79 **Research on AI in Green Chemistry and Environmental Governance**
Xueli Su

Topic: Green Chemistry Education

P3-80 **Integrating Sustainable Development Goals into Chemistry Laboratory Subjects**
A. Marchal Ingrain

P3-81 **Bridging the Gap: Science Outreach as a Pedagogical Strategy for Tackling Emerging Pollutants and Plastic Waste in Uruguay**
V. Aldabalde, P. Menéndez, D. González

P3-82 **Determination of Vitamin C Content in Various Fruit Juices using Iodometric Titration at Different Conditions**
Berrak Dafne Div, Ela Sağat, Sevinç Erdoğan

P3-83 Cancelled

P3-84 **Effect of Alkyl Chain Length in Imidazolium Ionic Liquids on the Thermoelectric Behavior of Polyaniline**
M. Kaufa, Z. Bekkar Djelloul Sayah, H. Châabane, M. A. Mokrani, A. Mekki, Y. C. Bourennane

P3-85 **Optimization of Preparation Parameters for the Synthesis of Activated Carbon from Agricultural Residues (Olive Stone)**
N. Yousfi, R. Cheddadi, M. A. Facih, H. Fettaka, S. Taazibt

NOTES

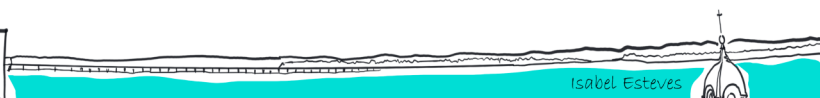


NOTES

GREEN IUPAC 2026

11th IUPAC International Conference on Green Chemistry
ICGC

Sept. 8-12, Lisbon, Portugal



©11th IUPAC International
Conference on Green Chemistry
<https://www.greeniupac2026.org/>



Contacts

Organization Committee: Programme / Abstracts
Email: GreenIUPAC2026@gmail.com