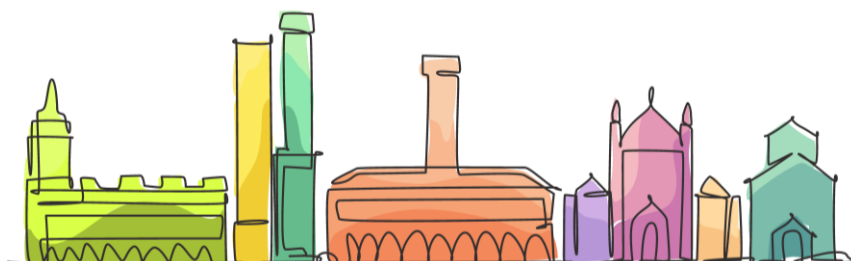


XII Workshop GC-CS
Gruppo Interdivisionale di Green Chemistry - Chimica Sostenibile
Bologna, 3-4 Luglio 2025



- 3 Luglio 2025 -

8.45-9.15

REGISTRAZIONE

9.15-9.30

APERTURA DEI LAVORI & SALUTI ISTITUZIONALI

C. Samorì, M. L. Focarete, L. Giorgini

9.30-10.00

PREMIO ALLA RICERCA (SENIOR) - Fabrizio Cavani

Università di Bologna

I tried to be a "green" Industrial Chemist

Chairperson: A. Salvini, C. Antonetti

10.00-10.20

ChemSusChem LECTURE - Daily Rodríguez-Padrón

Università Ca' Foscari-Venezia

Upcycling of chitin to cross-coupling catalysts: tailored supports and opportunities in mechanochemistry

Chairperson: G. Grillo, G. Fiorani

	Comunicazioni orali (OR) - SUSTAINABLE MATERIALS <i>Chairperson: G. Fiorani, M. Fagnoni</i>
10:20 - 10:30	OR-1 Lorella Izzo, <i>Università degli Studi dell'Insubria</i> Sustainable ABA copolymers: tuning thermal and mechanical properties by chemical composition
10:30 - 10:40	OR-2 Arianna De Santis, <i>Politecnico di Milano</i> From water to oil resistance: exploring the potential of cellulose nanofibers-based coating agents

XII Workshop GC-CS
Gruppo Interdivisionale di Green Chemistry - Chimica Sostenibile
Bologna, 3-4 Luglio 2025

10:40 - 10:50	OR-3 Gloria Nicastro, <i>Politecnico di Milano</i> The ESCAPE model application approach for the eco-design of cellulose nanocrystals
10:50 - 11:00	OR-4 Emanuele Viganò, <i>Mare SpA</i> Sustainability and Paper Production

11.00-11.30

COFFEE BREAK & POSTER SESSION

11.30-11.50

PREMIO CINZIA CHIAPPE - Massimo Melchiorre

Università degli Studi di Napoli Federico II

Sustainable Solvents and Chemicals: Synthesis and Applications In
Catalysis, Storage Energy Devices, and Cultural Heritage

Chairperson: A. Salvini, C. Punta

Flash presentations (FL)

Chairperson: T. Tabanelli, A. Quintavalla

11.50-11.53	FL-1 Andrei Paraschiv, <i>Università di Torino</i> Microwave-Enhanced, Additive-Free C-H Amination of Benzoxazoles Catalysed by supported Copper
11.53-11.56	FL-2 Laura Riva, <i>Politecnico di Milano</i> Turning textile waste into high-performance nanostructured cellulose-based aerogels for clean water
11.56-11.59	FL-3 Andrea Piazzzi, <i>Università di Bologna</i> Efficient ruthenium-catalyzed Guerbet reaction for the upgrading of Bioethanol to Higher Alcohols: a sustainable approach to biofuel production
11.59-12.02	FL-4 Giacomo Trapasso, <i>Università Ca' Foscari- Venezia</i> Propargyl Derivatives of Isosorbide and Its Epimers: Novel Monomers for Thiol-Yne Polymerization

XII Workshop GC-CS
Gruppo Interdivisionale di Green Chemistry - Chimica Sostenibile
Bologna, 3-4 Luglio 2025

Comunicazioni orali (OR) – LIFE CYCLE ASSESSMENT <i>Chairperson: C. Punta, C. Antonetti</i>	
12.05-12.15	OR-5 Andrei Ungureanu, <i>Università di Modena e Reggio Emilia</i> Life Cycle Assessment (LCA) of Ceramic Pigments: The Case of CoAl_2O_4
12.15-12.25	OR-6 Francesco Brenda, <i>Università di Bologna</i> Analisi del ciclo di vita di un processo innovativo per la produzione di ammoniaca mediante riduzione elettrochimica di nitrati in soluzione acquosa
12.25-12.35	OR-7 Davide Cattelani, <i>Università di Modena e Reggio Emilia</i> Life Cycle Assessment (LCA) of Curcumin-stabilized Silver Nanoparticles (Cur-AgNPs)

Flash presentations (FL) <i>Chairperson: C. Samorì, R. Mazzoni</i>	
12.35-12.38	FL-5 Ilaria Bertuol, <i>Università Ca' Foscari- Venezia</i> Metal-Free Graphitic Carbon Nitride/Carbon-Dots Composites: Unveiling Mechanochemical Synthesis Opportunities
12.38-12.41	FL-6 Marco Brocchi, <i>Università di Bologna</i> New insights into the key role of the thermal treatment of V/P/O catalysts for the selective oxidation of butane to maleic anhydride
12.41-12.44	FL-7 Laura Tedesco, <i>Università di Torino</i> Redesigning lignin-derived surfactants: from waste to health
12.44-12.47	FL-8 Salem Ghribi, <i>ISSMC-CNR</i> Functionalized Calcium Phosphate Nanoparticles for Sustainable Phosphorus and Nitrogen Delivery in Agriculture

12.50-14.30

PRANZO & POSTER SESSION

14.30-15.00

KN1- Federica Zaccheria

CNR-SCITEC

Unlocking the potential of oleochemistry in biorefinery development

Chairperson: A. Salvini, M. Fagnoni

XII Workshop GC-CS
Gruppo Interdivisionale di Green Chemistry - Chimica Sostenibile
Bologna, 3-4 Luglio 2025

	Comunicazioni orali (OR) – BIOMASS VALORIZATION <i>Chairperson: C. Antonetti, R. Mazzoni</i>
15.00-15.10	OR-8 Carlotta Valle, <i>Università di Torino</i> Cascade Valorization of Enological Waste
15.10-15.20	OR-9 Clelia Aimone, <i>Università di Torino</i> Green Extraction of Ginger's Polyphenols under Hybrid Techniques and Biphase NaDES
15.20-15.30	OR-10 Michele Iafisco, <i>ISSMC-CNR</i> Simultaneous extraction of calcium phosphates and collagen from fish processing by-products and their application in cosmetics
15.30-15.40	OR-11 Natasha Bizzotto, <i>Università di Bologna</i> Development of new materials based on cutin and bacterial polyhydroxyalkanoates
15.40-15.50	OR-12 Mariangela Novello, <i>Università della Calabria</i> Experimental Study and Hill-Based Kinetic Modelling on Beeswax Dispersion in Hydrophobic DESs
15.50-16.00	OR-13 Stefano Nejrotti, <i>ISSMC-CNR</i> Glycerol-derived solvents as non-innocent reaction media for additive-free Pd- and Au-catalysed transformations

16.00-16.30

COFFEE BREAK & POSTER SESSION

16.30-16.50

PREMIO CINZIA CHIAPPE - Federico Verdini

Università di Torino

New Hybrid Technologies for Chemical Process Intensification

Chairperson: A. Salvini, S. Perathoner

	Comunicazioni orali (OR) – SUSTAINABLE PROCESSES <i>Chairperson: G. Grillo, T. Tabanelli</i>
16.50-17.00	OR-14 Davide Dalla Torre, <i>Università Ca' Foscari – Venezia</i> A new approach to the etherification of bio-based furanic compounds

XII Workshop GC-CS
Gruppo Interdivisionale di Green Chemistry - Chimica Sostenibile
Bologna, 3-4 Luglio 2025

17.00-17.10	OR-15 Talha Munir, <i>Università di Udine</i> Mechanochemistry: A New doorway for Rapid, Greener and Efficient Synthesis and Catalysis
17.10-17.20	OR-16 Debora Pratesi, <i>Università di Firenze</i> Solvent-free 1,3-dipolar cycloadditions: exploring a more sustainable synthesis of glycomimetics
17.20-17.30	OR-17 Fabio Trigatti, <i>Università di Trieste</i> Sustainable Mechanochemical Oxidation Of Benzylic Alcohols
17.30-17.40	OR-18 William Bertoluzzo, <i>Università di Padova</i> Lignin extraction from wood sawdust: batch vs cyclic approach
17.40-17.50	OR-19 Valeria Maria Pappalardo, <i>CNR SCITEC</i> Catalytic lipophilization of natural antioxidants
17.50-18.00	OR-20 Tito Zanetta, <i>Vinavil SpA</i> Vinavil's approach to sustainability

18.00-19.00 ASSEMBLEA DEL GRUPPO INTERDIVISIONALE GC-CS

19.00-21.00 APERITIVO & POSTER SESSION



ALMA MATER STUDIORUM
UNIVERSITÀ DI BOLOGNA

DIPARTIMENTO
DI CHIMICA
"GIACOMO CIAMICIAN"

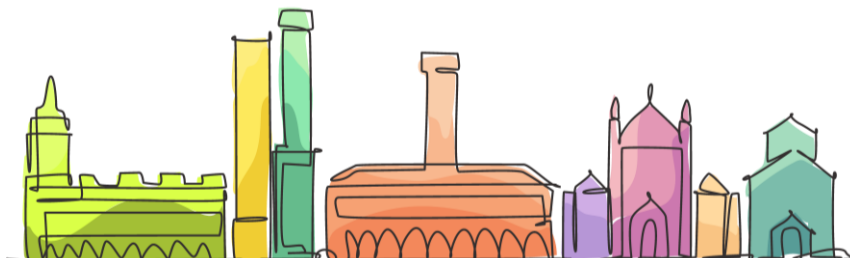


ALMA MATER STUDIORUM
UNIVERSITÀ DI BOLOGNA

DIPARTIMENTO
DI CHIMICA INDUSTRIALE
"TOSO MONTANARI"



XII Workshop GC-CS
Gruppo Interdivisionale di Green Chemistry - Chimica Sostenibile
Bologna, 3-4 Luglio 2025



- 4 Luglio 2025 -

9.15-9.30

REGISTRAZIONE & APERTURA DEI LAVORI

A. Salvini

9.30-10.00

KN2- Emilio Tagliavini

Università di Bologna

The Case of CO₂-Switchable Solvents. Extractions, Separations, Reactions

Chairperson: G. Grillo, P. Galletti

	Comunicazioni orali (OR) - CATALYSTS FOR SUSTAINABLE PROCESSES <i>Chairperson: S. Perathoner, A. Quintavalla</i>
10.00-10.10	OR-21 Lorenzo Poletti, <i>Università di Ferrara</i> Design of a Photo-Catalyzed Strategy for the Synthesis of C-Glycosides via Giese Reaction with Karady-Beckwith Dehydroalanine and Bisphosphonate Alkene
10.10-10.20	OR-22 Sam Thomas, <i>Università di Bologna</i> Improved Reductive Catalytic Fractionation of Lignocellulosic Biomass through the Application of a Recyclable Magnetic Catalyst
10.20-10.30	OR-23 Giuseppe Salierno, <i>Università di Bologna</i> Investigating the mechanism of reductive catalytic fractionation with alternative magnetic catalysts: a model molecule approach
10.30-10.40	OR-24 Elena Cassera, <i>Università di Pavia</i> Tetrabutylammonium Hexatungstate as an Efficient Photocatalyst for the Sustainable Decarboxylative Functionalization of Acids

XII Workshop GC-CS
Gruppo Interdivisionale di Green Chemistry - Chimica Sostenibile
Bologna, 3-4 Luglio 2025

10.40-10.50	OR-25 Antonio Buonerba, <i>Università di Salerno</i> Metal nanoparticles supported by nanoporous polymer matrix for highly efficient and selective production of hydrogen via formic acid decomposition
-------------	--

10.50-11.10	PREMIO ALLA RICERCA (JUNIOR) – Andrea Mezzetta <i>Università di Pisa</i> An insight into the relationship between deep eutectic solvents and ionic liquids for sustainable applications <i>Chairperson: A. Salvini, G. Grillo</i>
-------------	--

11.10-11.40	COFFEE BREAK & POSTER SESSION
-------------	-------------------------------

	Comunicazioni orali (OR) – SUSTAINABLE MATERIALS <i>Chairperson: C. Punta, P. Galletti</i>
11.40-11.50	OR-26 Pietro Caboni, <i>Università degli Studi di Cagliari</i> Oxidized Thiourea Derivatives: Uncovering New Frontiers with Resonant Acoustic Mixing (RAM)
11.50-12.00	OR-27 Sveva Pelliccia, <i>Università degli Studi di Napoli Federico II</i> Novel Captopril-inspired broad-spectrum metallo beta-lactamase inhibitors using sustainable Joullie'-Ugi and continuous flow implementation
12.00-12.10	OR-28 Chiara Bersani, <i>Università Ca' Foscari – Venezia</i> Bio-Sourced Nitrogen-doped graphitic Carbon Quantum Dots (N-gCQDs) as Additives for Dendrite-Free Zinc Batteries
12.10-12.20	OR-29 Francesco Della Monica, <i>Università degli Studi dell'Insubria</i> Low Molecular Weight Polyesters From 4-Vinyl Guaiacol
12.20-12.30	OR-30 Sara Pavone, <i>Università di Firenze</i> Eco-Friendly Farming via Automated Iminosugar Syntheses: Next-Generation Agrochemicals
12.30-12.40	OR-31 Tommaso Fonderico, <i>Università di Bologna</i>

XII Workshop GC-CS
Gruppo Interdivisionale di Green Chemistry - Chimica Sostenibile
Bologna, 3-4 Luglio 2025

	Valorisation of Spent Brewer's Yeast for the Development of Sustainable Bio-Composites Based on Poly(butylene succinate)
12.40-12.50	OR-32 Dario Corbisiero, <i>Università di Bologna</i> New Trends In Peptide Synthesis Using Side-Chain Unprotected Amino Acids

12.50-13.15

CHIUSURA DEI LAVORI

A. Salvini, C. Samorì



ALMA MATER STUDIORUM
UNIVERSITÀ DI BOLOGNA

DIPARTIMENTO
DI CHIMICA
"GIACOMO CIAMICIAN"



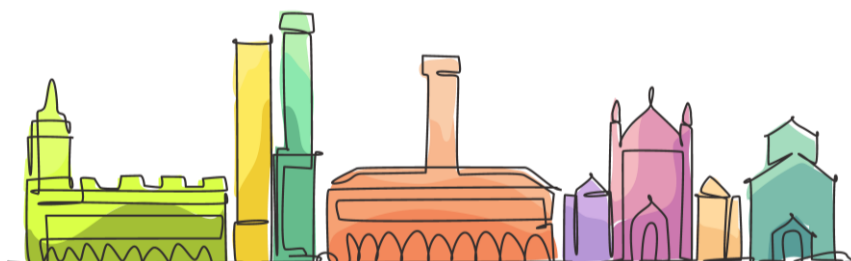
ALMA MATER STUDIORUM
UNIVERSITÀ DI BOLOGNA

DIPARTIMENTO
DI CHIMICA INDUSTRIALE
"TOSO MONTANARI"



MILESTONE
HELPING
CHEMISTS

XII Workshop GC-CS
Gruppo Interdivisionale di Green Chemistry - Chimica Sostenibile
Bologna, 3-4 Luglio 2025



- POSTER & FLASH COMMUNICATIONS-

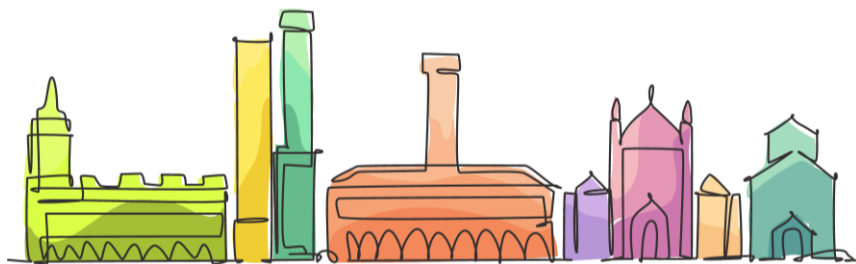
P1	Vanessa Spadavecchia <i>Università di Bologna</i>	NaDES as solvent for extraction of astaxanthin from the cyanobacterium <i>Synechococcus</i> sp. PCC 11901
P2	Oreste Piccolo <i>SCSOP</i>	Biphase catalysis: synthesis of fine chemicals
P3	Carmen Corea <i>Politecnico di Milano</i>	Spent Coffee Ground valorization: polyphenols and nanocellulose extraction
P4	Alice Cappitti <i>Università di Firenze</i>	From lignocellulosic biomass to biomaterials
P5	Arcangelo Comandè <i>Università della Calabria</i>	A new sustainable approach for the carbonylation of β -amino alcohols
P6	Maria Pagliara <i>Università di Bologna</i>	Ethanol to gasoline and sustainable aviation fuel precursors: an innovative cascade strategy over Zr-based multifunctional catalysts in the gas phase
P7	Paolo Freisa <i>Università di Torino</i>	What is hidden between amide-type solvents and acyl chlorides? Let's unveil it by NMR
P8	Haritha Kumari Arram <i>Università della Calabria</i>	Deep Eutectic Solvents as Green Solvents for Iodocyclization Reaction of 3-Alkynylthiophene-2-carboxamides
P9	Nicolò Desogus <i>Università di Torino</i>	Synergistic effects of Hydrodynamic Cavitation and Cold Plasma for the degradation of Emerging Organic Contaminants in water
P10	Pietro Rodolfo Natale <i>Università di Bologna</i>	Pilot scale PHA production, polymer extraction and drop-in chemical production by depolymerization

XII Workshop GC-CS
Gruppo Interdivisionale di Green Chemistry - Chimica Sostenibile
Bologna, 3-4 Luglio 2025

P11	Giulio Casagrande <i>Università di Bologna</i>	Towards a more sustainable photocatalyzed α -arylation of amines
P12	Claudia Antonetti <i>Università di Pisa</i>	Use of Polyols for the Eco-Friendly Leather Tanning: A Sustainable Choice
P13	Jacopo Paini <i>CNR SCITEC</i>	A multi-stage biorefinery process for the valorization of green seaweed biomass
P14	Beniamino Guzzo <i>Università di Padova</i>	Selective C-C Bond Cleavage of α -Hydroxy Acids by V-aminotriphenolate complexes
P15	Erika Zamboni <i>Università di Bologna</i>	Eco-functional biocomposites: the utilization of chestnut shells in sustainable materials
P16	Simone Di Remigio <i>Università di Bologna</i>	Harnessing Electron Donor – Acceptor Complexes in the Enantioselective β -Alkylation of Aromatic Enals: a Sustainable Strong Oxidant-Free Approach
P17	Stefano Bianchi <i>Università di Bologna</i>	Innovative End-of-Life Strategies for Bioplastics: The Potential of Mechanical Recycling
P18	Barbara Lambiase <i>Università di Bologna</i>	Urea hydrolysis in batch reactors: preliminary optimisation of reaction setup and process conditions
P19	Cristina Leonelli <i>Università di Modena e Reggio Emilia</i>	Chemical technologies for increased sustainability in waste management
P20	Chiara Lenzi <i>Università di Bologna</i>	Homogeneous Ruthenium Catalysts in the Production of 2,5-Diformylfuran and Polyimines from HMF
P21	Anna Lisa Marzorati <i>Università di Bologna</i>	Deep Eutectic Solvents (DESs) as sustainable alternative electrolytes for Vanadium Redox Flow Batteries (VRFBs)
FL1	Andrei Paraschiv <i>Università di Torino</i>	Microwave-Enhanced, Additive-Free C-H Amination of Benzoxazoles Catalysed by supported Copper
FL2	Laura Riva <i>Politecnico di Milano</i>	Turning textile waste into high-performance nanostructured cellulose-based aerogels for clean water
FL3	Andrea Piazzini <i>Università di Bologna</i>	Efficient ruthenium-catalyzed Guerbet reaction for the upgrading of Bioethanol to Higher Alcohols: a sustainable approach to biofuel production

XII Workshop GC-CS
Gruppo Interdivisionale di Green Chemistry - Chimica Sostenibile
Bologna, 3-4 Luglio 2025

FL4	Giacomo Trapasso <i>Università Ca' Foscari-Venezia</i>	Propargyl Derivatives of Isosorbide and Its Epimers: Novel Monomers for Thiol-Yne Polymerization
FL5	Ilaria Bertuol <i>Università Ca' Foscari-Venezia</i>	Metal-Free Graphitic Carbon Nitride/Carbon-Dots Composites: Unveiling Mechanochemical Synthesis Opportunities
FL6	Marco Brocchi <i>Università di Bologna</i>	New insights into the key role of the thermal treatment of V/P/O catalysts for the selective oxidation of butane to maleic anhydride
FL7	Laura Tedesco <i>Università di Torino</i>	Redesigning lignin-derived surfactants: from waste to health
FL8	Salem Ghribi <i>ISSMC-CNR</i>	Functionalized Calcium Phosphate Nanoparticles for Sustainable Phosphorus and Nitrogen Delivery in Agriculture



XII Workshop GC-CS
Gruppo Interdivisionale di Green Chemistry - Chimica Sostenibile
Bologna, 3-4 Luglio 2025



ALMA MATER STUDIORUM
UNIVERSITÀ DI BOLOGNA

DIPARTIMENTO
DI CHIMICA
"GIACOMO CIAMICIAN"



ALMA MATER STUDIORUM
UNIVERSITÀ DI BOLOGNA

DIPARTIMENTO
DI CHIMICA INDUSTRIALE
"TOSO MONTANARI"



MILESTONE
H E L P I N G
C H E M I S T S