

XI WORKSHOP NAZIONALE Green Chemistry – Chimica Sostenibile

Torino
24-25 Ottobre 2024

PROGRAMMA GIOVEDÌ 24 OTTOBRE 2024

8:30 – 9:00

REGISTRAZIONE

9:00 – 9:20

APERTURA LAVORI - SALUTI ISTITUZIONALI

Chairperson: **G. Licini, G. Grillo, G. Cravotto**

Chairperson: **L. Travaglini, M. Manzoli**

9:20 – 9:50

KN-1 Prof.ssa Michela SIGNORETTO, Università Ca' Foscari Venezia

Pyrolysis: A Key Value for the Circular Economy

9:50 – 10:10

CHEMSUSCHEM Lecture Prof. Gianvito VILÉ, Politecnico di Milano

Comunicazioni orali (OR)

Chairperson: **G. Cravotto, A. Salvini**

10:10 - 10:20	OR-1 William BERTOLUZZO, Università degli Studi di Padova Aerobic C-C bond cleavage of 1,2-diols: photoactivated vanadium-driven catalysis
10:20 - 10:30	OR-2 Graziano DI CARMINE, Università di Ferrara Merging Heterogeneous Photo- and Organo- Catalysis in continuous flow for Cross Dehydrogenative Coupling (CDC) between Glycine Derivatives and Ketones
10:30 - 10:40	OR-3 Matteo CORRADINI, Università di Bologna Ru/Pd catalytic system for the reductive amination of furfural
10:40 - 10:50	OR-4 Daniele ZUCCACCIA, Università di Udine Synthesis and application in catalysis of Ru complexes via mechanochemistry route
10:50 - 11:00	OR-5 Domenico LICURSI, Università di Pisa Pyrolysis of Posidonia Oceanica balls: A comparative evaluation of conventional and microwave-assisted approaches

11:00 - 11:30

COFFEE BREAK - POSTER SESSION

Comunicazioni orali (OR)

Chairperson: **E. Calcio Gaudino, F. Zaccheria**

11:30 - 11:40	OR-6 Fabio BUCCIOL, Università di Torino Solventless synthesis of novel non-ionic bio-based surfactants exploiting glycerol carbonate
11:40 - 11:50	OR-7 Silvia RIZZO, Università di Bologna A Sustainable Chemo Enzymatic Approach to the Synthesis of Liraglutide
11:50 - 12:00	OR-8 Alexandra JOREA, Università degli Studi di Pavia Valorisation of platform chemicals from biopolymers through Hydrogen Atom Transfer (HAT) photocatalysis

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12:00 - 12:30 **KN-ELSEVIER Dr.ssa Marta DA PIAN, Elsevier B.V**

Comunicazioni orali (OR)

Chairperson: **M. Fagnoni, A. Massi**

12:30 - 12:40	OR-9 Salvatore PRINCIOTTO, Università degli Studi di Milano Chemo-enzymatic synthesis of vorinostat
12:40 - 12:50	OR-10 Massimo CARRARO, Università degli Studi di Sassari Adding Value to Renewable Resources: 3 Stories
	Sessione Flash (FL)
12:50 - 12:53	FL-1 Clelia AIMONE, Università di Torino Chestnut Wood Valorization: A Green Strategy for Extraction, Fractionation, and Biopolymer Design (Poster P-1)
12:53 - 12:56	FL-2 Chiara BRUSCHETTA, Università di Torino Ultrasound-Assisted Procedure for the Preparation of Ru- and Pd-Iron Oxide Catalysts (Poster P-2)
12:56 - 12:59	FL-3 Camilla CALLEGARI, Università di Pavia Carbon nitride materials as sustainable photocatalysts in C-H bonds functionalization processes (Poster P-3)
12:59 - 13:02	FL-4 Laura PALOMBI, Università degli studi dell'Aquila Electrocatalytic activation of acetone cyanohydrin with hydrogen evolution: synthesis of β -cyano ketones and α -aminonitriles (Poster P-4)
13:02 - 13:05	FL-5 Alireza SAFDARI, Università degli Studi di Milano Flotation Technique for Recycling Black Mass from Spent Lithium-ion Batteries (Poster P-5)
13:05 - 13:08	FL-6 Federica TUFANO, Università degli Studi di Salerno Sustainable Polymers obtained by Schiff Base-Based Zn and Mg Complexes (Poster P-6)

13:10 - 14:30

LUNCH BREAK - POSTER SESSION

Chairperson: **C. Samori, G. Grillo**

14:30 - 15:00

KN-2 Prof. Fabrizio PASSARINI, Università di Bologna
Life Cycle Perspective Supporting Green Chemistry

15:00 - 15:20

**Premio alla Ricerca (Junior) Dr.ssa Emilia PAONE, Università degli Studi
Mediterranea di Reggio Calabria**

Catalyze Sustainability: A Meaningful Journey to a Brighter Future

Comunicazioni orali (OR)

Chairperson: **C. Capacchione, S. Tabasso**

15:20 - 15:30	OR-11 Venanzio RAGLIONE, ISM - Consiglio Nazionale delle Ricerche (CNR) Greener Synthetic Strategy for New Triarylamine Derivatives for Optoelectronic Applications
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15:30 - 15:40	OR-12 Vincenzo RUSSO , <i>Università degli Studi di Napoli Federico II</i> Condensation of ethyl levulinate with phenol on Amberlyst-15
15:40 - 15:50	OR-13 Francesca ANNUNZIATA , <i>Università degli Studi di Milano</i> Chemo-enzymatic sustainable flow synthesis of biologically active nature-inspired carbonates and carbamates
15:50 - 16:00	OR-14 Mattea Carmen CASTROVILLI , <i>CNR-Istituto di Struttura della Materia</i> Electrospray deposition: a green technique to fabricate low-cost and eco-friendly biosensors
16:00 - 16:10	OR-15 Noemi COLOZZA , <i>ISM-CNR</i> Electrospray deposition as a green methodology to produce electrochemical sensors for pollutant monitoring
16:10 - 16:20	OR-16 Sara FULIGNATI , <i>Università di Pisa</i> Complete exploitation of defatted <i>Cynara cardunculus</i> L. through an innovative biorefinery approach
16:20 - 16:30	OR-17 Federica PALMERI , <i>La Sapienza Università di Roma</i> One-Pot Synthesis of Water-Soluble Metallophthalocyanines for Eco-Friendly Sensing Applications
16:30 - 16:40	OR-18 Sveva PELLICCIA , <i>Università di Napoli Federico II</i> Ecosustainable syntheses of pharmaceutical relevant compounds via multicomponent reactions
16:40 - 16:50	OR-19 Carlo PUNTA , <i>Politecnico di Milano</i> Cellulose-based eco-safe nanostructured materials for water treatment

17:00 - 18:00

COFFEE BREAK - POSTER SESSION

18:00 - 19:00

ASSEMBLEA SOCI GC-CS

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PROGRAMMA venerdì 25 OTTOBRE 2024

08:50 - 09:00

APERTURA LAVORI

Chairperson: G. Licini, D. Zuccaccia

09:00 - 09:30

KN-3 Prof. Vito CAPRIATI, Università di Bari
Harnessing the Weirdness of Water and Deep Eutectic Solvents for a Sustainable Future and Reaction Discovery

Comunicazioni orali (OR)

09:30 - 09:40	OR-20 Elza BONTEMPI, Università Degli Studi di Brescia Sustainability evaluation to support green chemistry and eco-design
09:40 - 09:50	OR-21 Federico LOCARDI, Università di Genova Colloidal nanocrystals synthesized in green solvent
09:50 - 10:00	OR-22 Andrea MEZZETTA, Consorzio INSTM Reactive Deep Eutectic Solvents (ReDESS) in the preparation of new generation of pyrrolidinone-based solvents
10:00 - 10:10	OR-23 Stefano NEJROTTI, Università di Torino Improving sustainability in the construction of conjugated molecular scaffolds: ionic liquids and (waste)water as solvents
10:10 - 10:20	OR-24 Monica RIGOLETTO, Università di Torino Cellulose fibres from soybean hulls: efficiency and sustainability of different isolation methods
10:20 - 10:30	OR-25 Gabriele VIADA, Università di Torino BHET-based prepolymers: advancing the sustainability of polyurethane resins
10:30 - 10:40	OR-26 Federico VERDINI, Università di Torino Dual-Action Approach for Wastewater Purification: Synergistic Impact of Hydrodynamic Cavitation and Electrical Discharge (Cold) Plasma
10:40 - 10:50	OR-27 Marco NICOSIA, Università di Bologna Effect of activation conditions on properties of biomass derived biochar for H ₂ storage
10:50 - 11:00	OR-28 Alessia GIORDANA, Università di Torino Hydroxyapatite from Eggshells: A Green Approach to Nanofertilizers

11:00 - 11:30

COFFEE BREAK

Chairperson: E. Bontempi, S. Protti

11:30 - 11:40	OR-29 Ilenia GRIMALDI, Università degli Studi di Salerno Isoselective Polymerization of 1-Vinylcyclohexene and (S)-4-Isopropenyl-1-Vinylcyclohexene
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11:40 - 11:50	OR-30 Martina Letizia CONTENTE , <i>Università di Milano</i> Merging biocatalysis and flow chemistry for efficient, sustainable and productive processes
11:50 - 12:00	OR-31 Prisco PRETE , <i>Università degli Studi di Salerno</i> Green chemistry approaches within the wastewater treatment
12:00 - 12:10	OR-32 Daily RODRIGUEZ-PADRON , <i>Università Ca' Foscari di Venezia</i> Biomass-Derived Catalytic Architectures by Mechanochemical Extrusion
12:10 - 12:20	OR-33 Giulia ROMAGNOLI , <i>Università degli studi di Siena</i> From micellar catalysed Hydroformylation and Hydroaminomethylation to solid waste-based sustainable processes
12:20 - 12:30	OR-34 Maria Chiara CABUA , <i>Università degli Studi di Cagliari</i> Microcrystalline cellulose from Aloe plant waste: preparation, chemical functionalization and application in 3D printing
12:30 - 12:40	OR-35 Alice CAPPITTI , <i>Università degli Studi di Firenze</i> Biomass valorisation towards new materials

12:40 - 13:00

CHIUSURA LAVORI

POSTER

P-1 Clelia AIMONE , <i>Università di Torino</i> Chestnut Wood Valorization: A Green Strategy for Extraction, Fractionation, and Biopolymer Design
P-2 Chiara BRUSCHETTA , <i>Università di Torino</i> Ultrasound-Assisted Procedure for the Preparation of Ru- and Pd-Iron Oxide Catalysts
P-3 Camilla CALLEGARI , <i>Università di Pavia</i> Carbon nitride materials as sustainable photocatalysts in C-H bonds functionalization processes
P-4 Laura PALOMBI , <i>Università degli studi dell'Aquila</i> Electrocatalytic activation of acetone cyanohydrin with hydrogen evolution: synthesis of β -cyano ketones and α -aminonitriles
P-5 Alireza SAFDARI , <i>Università degli Studi di Milano</i> Flotation Technique for Recycling Black Mass from Spent Lithium-ion Batteries
P-6 Federica TUFANO , <i>Università degli Studi di Salerno</i> Sustainable Polymers obtained by Schiff Base-Based Zn and Mg Complexes
P-7 Claudia ANTONETTI , <i>Università di Pisa</i> Renewable diphenolic acid synthesis in batch and continuous reactor: an eco-friendly substitute for bisphenol A
P-8 Giorgio Capaldi , <i>Università di Torino</i> PHENOCYCLES: Exploiting the Multifunctional Properties of Polyphenols from Waste to High Value Products



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P-9 Antonella Cartoni , <i>Università di Roma La Sapienza</i> GREEN TECHNOLOGY FOR LACTATE OXIDASE-BASED BIOSENSOR FABRICATION
P-10 Eleonora Conteroso , <i>Università del Piemonte Orientale</i> μ -FTIR reflectance spectroscopy coupled with multivariate analysis: rapid and robust method for identifying the extent of photodegradation on microplastics
P-11 Ilaria Di Stefano , <i>Università di Bologna</i> Solid Phase Peptide Synthesis using side-chain unprotected arginine and histidine, with Oxyma Pure/TBEC in green solvents
P-12 Sara ESPOSITO , <i>Università di Salerno</i> Synthesis of Block and Multi-Block Copolymers Based on Polyesters from ROCOP of Phthalic Anhydride and Epoxides from Renewable Sources
P-13 Alessandro MASSI , <i>Università di Ferrara</i> Organocatalytic Keratin Sponges for the Chemical Fixation of CO ₂ into Cyclic Carbonates
P-14 Michele OFFIDANI , <i>Università di Bologna</i> In-situ and ex-situ thermocatalytic pyrolysis of plastics: a comparison of two different approaches
P-15 Vanessa SPADAVECCHIA , <i>Università di Bologna</i> Natural urease inhibitors from lignocelluloses
P-16 Oscar TRENTIN , <i>Università di Venezia</i> Upcycling of chitin to cross-coupling catalysts: tailored supports and opportunities in mechanochemistry
P-17 Federica ZIMBARDI , <i>Università di Bologna</i> Green retrofitting of a vintage reaction: production of acetone from renewable sources via pyrolysis of acetates