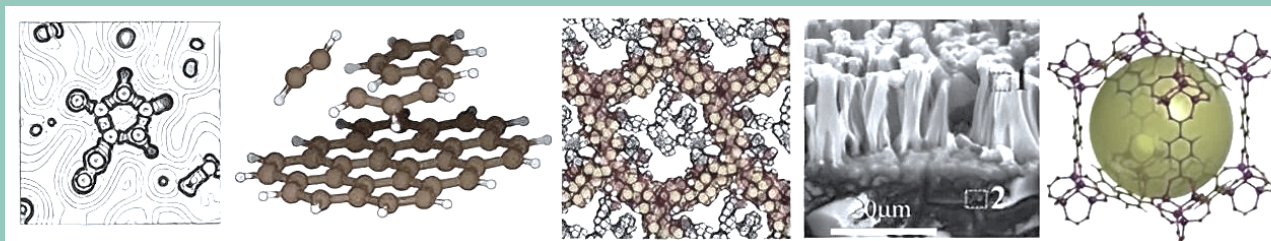




UNIVERSITÀ
DI TORINO



PhD Programme in Chemical and Materials Sciences

PhD Days 2025

XXXVIII Cycle

February 5th & 12th 2025



Programme



February 5th 09:00-16:00 | PhD Presentations – Session #01

Department of Biotechnology - Aula Copernico | Via Nizza 52, Torino

Time		Name	Title
09:00	09:30	Alex Affricano	Development of Mass Spectrometry based methods for bioactive molecule characterization
09:30	10:00	Ali Mukhtiar	Electrochemical degradation of xenobiotics on BDD electrodes
10:00	10:30	Niccolò Bancone	Adsorption and reactivity on interstellar refractory materials: A Quantum-mechanical study
10:30	11:00	Coffee break	
11:00	11:30	Vittorio Bariosco	Adsorption and reactivity of molecules with 3rd period elements on interstellar grains: a quantum mechanical approach
11:30	12:00	Ettore Bianco	Environmental impact and Innovative production strategies of new fuels
12:00	12:30	Davide Mitoli	Anharmonicity in Lattice Dynamics and Vibrational Spectroscopies: Development of Algorithms in the CRYSTAL Code
Time		Name	Title
14:00	14:30	Filippo Bodo	Local Mode Analysis on Solid State Systems
14:30	15:00	Martina Fresia	Biological imaging: the need of fluorescence
15:00	15:30	Beatrice Garetto	Understanding C-H oxidation reaction in light alkanes through X-Ray Absorption Spectroscopy of various porous inorganic materials
15:30	16:00	Cecilia Gomiero	Evaluation of pad surface after dyno testing and temperature wear, with focus on PM10 and PM2.5 release



To those who cannot attend in person, the PhD Days will be also available remotely through Webex at:

<https://unito.webex.com/meet/bartolomeo.civalleri>



Programme



February 12th 9:00-17:30 | PhD Presentations – Session #02

Department of Chemistry - Aula Cannizzaro | Via P. Giuria 7, Torino

Time		Name	Title
09:00	09:30	Eisuke Comas Iwasita	Novel synthetic uses for homologating agents
09:30	10:00	Annalisa Ferrarotti	Additive Manufacturing technology: from the solidification processes of alloys to the post-processing solutions
10:00	10:30	Paolo Lazzarini	Characterization and optimization of catalysts based on supported metal nanoparticles: a multi-technique approach
10:30	11:00	Coffee break	
11:00	11:30	Matteo Marafante	Thermodynamic study of first-row transition metal ions complexes of biomedical interests
11:30	12:00	Laura Bonometti	Electron correlation methods for sustainable energy solutions
12:00	12:30	Alberto Nardi	Building-up Molecular Complexity with Homologation Chemistry: New Concepts and Applications
Time		Name	Title
14:00	14:30	Chiara Passet	Materials and coatings for the safety and reliability of pharmaceutical glass packaging
14:30	15:00	Mara Putzu	Development of analytical traceable methods for the quantification of microplastics in complex food matrices
15:00	15:30	Filippo Vernile	Corrosion from biofuel: an automotive issues
15:30	16:00	Coffee break	
16:00	16:30	Herald Paja	Optimizing the properties of metal-organic coordination polymers through an ab-initio computational approach and machine learning techniques
16:30	17:00	Chiara Reviglio	Luminescent metal complexes of Earth-abundant elements for sustainable energy
17:00	17:30	Edoardo Bracciotti	Development of heterogeneous catalysts for CO ₂ conversion in e-fuels



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4-11 febbraio 2025



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Technology

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Mathematics