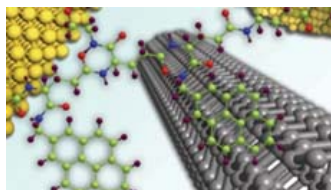
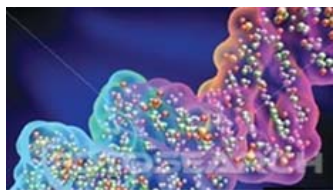


PhD Programme in Chemical and Materials Sciences

PhD Days 2023

February 7th & 23th, 2023 - Department of Chemistry - Aula Magna



The students of the XXXVI Cycle of the PhD Programme in Chemistry and Materials Sciences present their research activities.

Programme

7 February 2023			
Time		Name	Title
9:00	9:30	Sodupe Mariona	<i>The role of computational chemistry in today's chemical research</i>
9:30	10:00	Bravetti Federica	<i>Computational and experimental method for crystal structure determination: CSP, SSNMR and powder XRD</i>
10:00	10:30	Asteggiano Alberto	<i>Extraction and analytical techniques for the characterization, quantification, and valorization of plant metabolites by mass spectrometry</i>
		<i>Coffee break</i>	
11:00	11:30	Naveed Ahmed	<i>Abatement of pollutants from water via photodegradation/adsorption processes</i>
11:30	12:00	Centrella Barbara	<i>Design and synthesis of copper complexes and possible application for redox chemistry in MOFs</i>
12:00	12:30	Ricchebuono Alberto	<i>Surface phenomena at supported metal nanoparticles: an integrated experimental and theoretical approach</i>
		<i>Lunch Break</i>	
14:00	14:30	Ferri Davide	<i>Watching catalysts at work in a liquid environment</i>
14:30	15:00	Deplano Gabriele	<i>Cu-based catalysts for C-H bond activation</i>
15:00	15:30	Rosso Francesca	<i>Ti-zeolite catalysts for partial oxidation reactions</i>
		<i>Coffee break</i>	
16:00	16:30	Perrero Jessica	<i>Phenomena at Interstellar Core and Mantle Grains: A Quantum Mechanical Approach</i>
16:30	17:00	Mecarelli Enrica	<i>Characterization and quantification of biomarkers via chromatography-mass spectrometry</i>
17:00	17:30	Nannuzzi Chiara	<i>Surface properties and characterization of VOx/TiO2 based catalysts for NH3-SCR reaction</i>
17:30	18:00	Deninno Gianluca	<i>Characterization of materials and surfaces through ISO-25178 morphological parameters</i>

23 February 2023			
Time		Name	Title
9:00	9:30	Gebert Annett	<i>New Ti alloys for biomedical applications: advanced processing, microstructure and surface property design</i>
9:30	10:00	Alessio Andrea	<i>High-brilliance X-ray techniques for oxide functionalization and characterization</i>
10:00	10:30	Castiglione Davide	<i>Building-up Molecular Complexity with Homologation Chemistry: New Concepts and Applications</i>
		<i>Coffee break</i>	
11:00	11:30	Tiwari Kirti	<i>Design of antimicrobial mechanism of metallic patterned hydrophobic surfaces produced by dealloying and plastic flow deformation of metallic glasses</i>
11:30	12:00	Zarate Ana	<i>Innovative materials for emerging photovoltaics</i>
12:00	12:30	Zollo Alessia	<i>New approaches for in-door air purification based on visible-light photocatalysis</i>
		<i>Lunch break</i>	
14:00	14:30	Langer Thierry	<i>3D Pharmacophores: Versatile Tools for Computer-Assisted Molecular Design</i>
14:30	15:00	Lanfranco Alberto	<i>Synthesis and Applications of Functionalised Carboranes for the Treatment of Mesothelioma and Diffused Thoracic Tumours</i>
15:00	15:30	Ribaldone Chiara	<i>Study and Implementation of Molecular Dynamic based algorithm in the quantum mechanical ab initio CRYSTAL code</i>
		<i>Coffee break</i>	
16:00	16:30	Dereje Degnet	<i>Synthesis and characterization of NIR fluorescent nanocarriers for photodynamic therapy</i>
16:30	17:00	Difalco Alessandro	<i>Synthesis and characterization of Heusler alloys for thermoelectric and spintronic applications</i>
17:00	17:30	Molokova Anastasia	<i>Elucidating the deactivation pathways of Cu-zeolite-based industrial DeNOx catalysts</i>
17:30	18:00	Rocca Riccardo	<i>Computational study of chemical-physical properties of materials for Li-ion batteries</i>