

La
Recherche
à l'**Université**

**XTH EDITION OF THE
FRANCO-ITALIAN
CHEMISTRY DAYS 2022**

**Tuesday 26 april
Wednesday April 27
8:30 • 18:30**

Rooms Colbert et Raimu 1

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Palais Neptune • Toulon

**14^{es} Journées
scientifiques**

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26

Tuesday

April 2022

- 8:15 Welcoming of the participants
- 8:45 Opening of the day - welcome speech
- 9:00 **Uwe MEIERHENRICH, Univ. Côte d'Azur**
3D Presentation: ESA's Mission Rosetta-Philae - the search for organic molecules on a comet
- 9:40 **Piero UGLIENGO, Univ. Turin**
From Astrochemistry to Prebiotic Chemistry through the Eyes of Computer Molecular Modeling
- 10:20 Presentation of the Youth Club of the SCF and SCI
- 10:30 **Coffee break and posters session**
- SESSION 1: room Colbert**
Organic and bio-organic chemistry
- 11:15 **Federica MINUTO, Univ. Genova**
A novel photoinduced multicomponent reaction to β -Lactams: Ketene 3-Component Staudinger Reaction (K-3CSR)
- 11:30 **Manuel BARDAY, Univ. Aix-Marseille, ISM2**
NHC-catalysed atroposelective desymmetrisation of maleimides: complete control towards highly functionalised heterocycles.
- 11:45 **Mariacristina FAILLA, Univ. Turin**
Metallo- β -Lactamases inhibitors: new tools against Bacterial Multidrug Resistance
- 12:00 **Iryna SHCHEHOLEVA, Univ. Côte d'Azur, ICN**
Diversity-oriented synthesis of small molecules applied to the discovery of new inhibitors of oncogenic miRNAs production
- 12:15 **Francesconi VALERIA, Univ. Genova**
Multitarget agents in Alzheimer's disease: development of xanthenone-based derivatives

SESSION 2: room Raimu 1**Chemistry of materials and environmental chemistry**

11:15

Lorenzo FENOCCHIO, Univ. Genova

High Entropy Alloys (HEAs): Thermodynamic Simulations for High-Temperature Applications

11:30

Marta MENEGHELLO, Univ. Aix-Marseille, BIP

Electrochemical studies of CO₂-reducing metalloenzymes

11:45

David Javier CASTRO RODRIGUEZ, Politecnico di Torino

Experimental Array to Evaluate Different Operative Parameters in Bioremediation of Hydrocarbon-Polluted Soil

12:00

Christian CRAVOTTO, Univ. Avignon

Higher yield and polyphenol content in olive pomace oil extracted using 2-methyloxolane

12:15

Giovanni PAMPARARO, Univ. Genova

Cu-SiO₂ catalysts made by Aerosol Assisted Sol-gel method as promising materials for ethanol non oxidative dehydrogenation

12:30

Buffet and posters session**SESSION 1: room Colbert****Organic and bio-organic chemistry**

13:45

Enzo VAIEDELICH, Univ. Aix-Marseille, ICR

Shifting-nitroxides as the new Overhauser-enhanced MRI probes for in-vivo evaluation using enzymatic activities.

14:00

Tullio CROVETTO, Univ. Genova

Synthesis of new solid state-fluorescent furo[2,3-c]isoquinolines via Ugi reaction and subsequent Pd-catalyzed transformations

14:15

Guillaume LESEIGNEUR, Univ. Côte d'Azur, ICN

The Stereochemistry of Isoprenoid Hydrocarbons as Molecular Fossils: Implications for the Search of Extinct Life on Mars

14:30

Dinesh DHUMAL, Univ. Aix-Marseille, Cinam

Dynamic self-assembling supramolecular dendrimer nanosystems as potent antibacterial candidates against drug-resistant bacteria and biofilm

14:45

Arthur GAUCHERAND, Univ. Aix-Marseille, ISM2

Simultaneous Control of Central and Helical Stereogenic Elements on Small Molecules

15:00

Arthur GAUCHERAND, Univ. Aix-Marseille, ISM2**Marta GALLO**, Univ. Turin

Vitamin D3: three possible strategies for its topical delivery

15:15

Tereza HORACKOVA, Univ. Aix-Marseille, Cinam

Towards a new generation of (di-)zwitterionic quinones and macrocycles

15:30

Nicolas GIACOLETTO, Univ. Aix-Marseille, ICR

Coumarin-Based Oxime Esters: New photoinitiators for visible light photopolymerization

SESSION 2: room Raimu 1

Chemistry of materials and environmental chemistry

13:45

Ashwini Reddy NALLAYAGARI, Univ. Aix-Marseille, Madirel

Role of carbon quantum dots and anion exchange ionomer as a multiphase electrode for the oxygen reduction reaction

14:00

Nicolò GHIBAUDO, Univ. Genova

Application of a D-Optimal Design of experiments to a photocatalytic pilot plant for environmental issues.

14:15

Brahim AKHSASSI, Univ. Toulon, IM2NP

Photodegradation of organic pollutant rhodamine B by a zinc phosphate-based composite

14:30

Davide PALMA, Univ. Turin

Re-thinking the role of natural organic matter in water treatment processes

26

Tuesday

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14:45

Alessandro COSSARD, Univ. Turin

Topology of the Electron Density and of Its Laplacian from Periodic LCAO Calculations on f-Electron Material

15:00

Léo CHAUSSY, Univ. Aix-Marseille, ISM2

Benchmark on cobalt systems relevant for reactivity

15:15

Emanuele PRIOLA, Univ. Turin

Solid-state peculiarities and polymorphism in imidazo[1,5-]pyridine dyes

15:30

Marta CAMPOLUCCI, Univ. Genova

Mn – based Hybrid Metal Halides for Optoelectronic Applications

15:45

Coffee break and posters session

Room Colbert

16:30

Sylvain Marque, Univ. Aix-Marseille, ICR

Presentation IUPAC

Donation of the PhD thesis award

16:35

Enrico SARTORETTI, Politecnico di Torino

Doped ceria nanostructures for the oxidation of pollutants: investigations into the role of defect sites

17:05

Guillaume BARNOIN, Univ. Côte d'Azur, ICN

Intermolecular dark resonance energy transfer (DRET): Applications to the fluorogenic detection of nucleic acids

Invited speakers

17:30

Silvia BODOARDO, Univ. Turin

Post Li-ion and disruptive technologies for advanced and innovative batteries: what is Europe doing?

18:00

Jalila SIMAAN, Univ. Aix-Marseille

structure-function relationships in copper-containing enzymes: from fundamental studies to the development of bioinspired catalysts

27

Wednesday

April 2022

8:30 Welcoming of the participants

9:00 **Carla VILLA**, Univ. Gênes
Ecofriendly microwave extraction of agrofood waste for cosmetic and pharmaceutical applications

9:40 **Christine BRESSY**, Univ. Toulon, Mapiem
When chemistry deals with marine biofouling

10:20 **Coffee break and posters session**

SESSION 1: room Colbert
Organic and bio-organic chemistry

11:00 **Louise MITON**, Univ. Aix-Marseille, École Centrale
Anion- π interactions in confined space

11:15 **Milane SAIDAH**, Univ. Aix-Marseille, ISM2
Enantioselective construction of tetrasubstituted carboncenter.

11:30 **Alessio GIOVE**, Univ. Toulon, Mapiem
Synthesis of new selective monomers for the design of original Ni(II) and Co(II) ion imprinted polymers

11:45 **Emilie GENTILINI**, Univ. Côte d'Azur, ICN
Asymmetric Gold-Catalyzed Addition of Carbonyl Compounds on 1,6-Enynes

12:00 **Guillaume BRULAY**, Univ. Aix-Marseille, ICR
Synthesis and studies of SBA-15 materials functionalized with transient radical precursors.

12:15 **Xueyang LIU**, Univ. Aix-Marseille, ISM2
Indirect Enantiocontrol of Tertiary Alcohols and Quaternary Centers by Acylative Organocatalytic Kinetic Resolution

SESSION 2: room Raimu 1
Chemistry of materials and environmental chemistry

11:00 **Maria Alessia VECCHIO**, Univ. Genova
Strontium isotopic analysis of Antarctic snow samples by multi-collector inductively coupled plasma mass spectrometry

27

Wednesday

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11:15

Erika Michela DEMATTEIS, Univ. Turin

Mn-substituted TiFe alloys for large scale hydrogen storage: a neutron diffraction study

11:30

Sawssen SLIMANI, Univ. Genova

Interplay between magnetic anisotropy and interparticle interactions in crystalline-amorphous nanocomposite

11:45

Alessia GIORDANA, Univ. Turin

Biostimulant and biofertilizer from waste valorisation: the different behaviour of humic and fulvic acid on hydroxyapatite

12:00

Barbara BENEDETTI, Univ. Genova

Evaluation of polycyclic aromatic hydrocarbons contamination in botanical extracts for human consumption: development of a specific sample pre-treatment method followed by GC-MS analysis

12:15

Monica RIGOLETTO, Univ. Turin

Valorization of an agro-industrial waste: synthesis of soybean hulls derivatives-based hybrid materials for water purification

12:30

Buffet and posters session

13:30

Winner of the grand prizes

13:40

Pr. Philippe KNAUTH, Univ. Aix-Marseille, Madirel

Ion-conducting nanomaterials: a lot of movement in small domains

14:30

Paola RIVARO, Univ. Gênes

Variability in chemical properties of the Ross Sea (Antarctica) waters and links to climate change: the results of our observations from 90's to today

15:00

Poster awards

15:10

Closing Ceremony

La Recherche à l'Université



ORGANIZATION COMMITTEE

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