

Giovedì 21 Settembre 2023
alle ore 10.30

presso AULA 2 dell'Edificio F
Area della Ricerca CNR di Firenze
Via Madonna del Piano 10, Sesto Fiorentino

il Dott. Rafael Emilio Rodríguez Lugo
ICCOM-CNR
Firenze, Italia

terrà il seguente seminario:

**"From coordination chemistry to (photo)catalysis: past, present
and future research interests"**

Si invitano tutti gli interessati a partecipare.

Dr. Claudio Sangregorio
Direttore ICCOM

Short Abstract:

A summary of my research activities within molecular inorganic chemistry will be presented, as a context to introduce my current and future research activities. The talk will cover aspects of organic chemistry (ligand design), coordination chemistry, small molecule activation, homogeneous catalysis and photocatalysis. Special emphasis will be placed on bio-based or bio-inspired ligand templates and transformations, aiming for environmentally friendly chemical transformations. At ICCOM-CNR it is foreseen to continue with the development of coordination compounds capable of engaging in the activation of small molecules and strong bonds, as well as participating in challenging chemical reactions as (pre)catalysts. It is expected to achieve such goals through close collaborations within the ICCOM, as well as with other institutions in Italy and abroad.

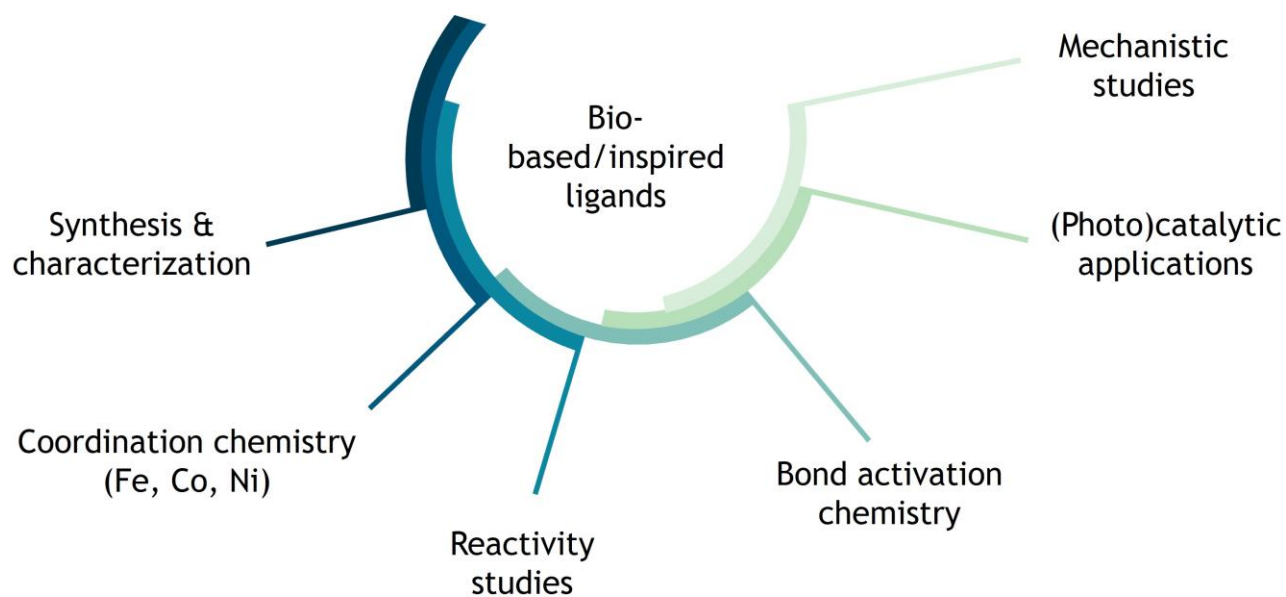


Figure: Generic representation of my research approach and interests

Biographic sketch

Born in Caracas (Venezuela) in 1986. Studied Chemistry at *Universidad Simón Bolívar* (Caracas, Venezuela) between 2003 and 2008. In 2009, joined the Research Group of Prof. Dr. Hansjörg Grützmacher at the ETH Zürich, to obtain the title of *Doktor der Wissenschaften* (Doctor of Sciences) in 2013. Between 2014 and 2016, he was a postdoctoral fellow at *Instituto Venezolano de Investigaciones Científicas* (Venezuela Institute for Scientific Research), where he was ranked as Associate Researcher from 2017 until 2022. Besides his role as Associate Researcher, he was also appointed as Aggregate Professor at *Universidad Simón Bolívar* (2015-2018), Academic Guest at ETH Zürich (2018-2019) and Georg Forster Experienced Fellow at University of Regensburg (2019-2023), sponsored by the Alexander von Humboldt Foundation. As of September 2023 he joined the ICCOM (*Firenze*) as *Ricercatore*.