

**Dr. MARZIO RANCAN**

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## **CURRENT POSITION AND EDUCATION**

**2015 – present:** Researcher at ICMATE-CNR, Italy

**2009 – 2015:** post docs at CNR and University of Padova

**2009** Ph.D. in Molecular Sciences, University of Padova, Supervisor Prof. E. Tondello.

**2007 – 2008** visiting scientist at the University of Manchester, Supervisor Prof. R.E.P. Winpenny.

**2005** Laurea degree in Chemistry with full marks (110/110), University of Padova.

## **SHORT DESCRIPTION OF THE SCIENTIFIC ACTIVITY**

He has acquired valuable expertise in synthetic inorganic and coordination chemistry as well as in the characterization of the materials. More recently, attention has been directed towards metal-supramolecular systems containing lanthanides to develop sensors for chiral chemical substrates and physical parameters (such as temperature), as well as for applications in the energy field. Synthetic work is always accompanied by a detailed investigation of composition, structure, morphology, and functionality through a multi-technique approach. In particular, over the years, he has acquired significant expertise in studying the property-structure relationship through single-crystal X-ray diffraction techniques (SCXRD), and in investigating the surfaces and interfaces of materials using X-ray photoelectron spectroscopy (XPS). Starting from 2022, he has held the position of facility manager for the new multi-technique platform at ICMATE-CNR, which is outfitted with XPS, UPS (ultraviolet photoelectron spectroscopy), REELS (Reflection electron energy loss spectroscopy), and ISS (ion scattering spectroscopy).

## **SCIENTIFIC COMPETENCES AND SKILLS**

- i) Synthesis: inorganic materials, coordination and metallo-supramolecular chemistry and inorganic-organic hybrid materials.
- ii) Characterization: XRD powder and single crystal, XPS, UPS, REELS, ISS (coupled to UV-Vis, FT-IR, mass spectrometry, and NMR).

## **PUBLICATIONS**

The full and updated list is available at <https://orcid.org/0000-0001-9967-5283>