

Stage III (2019): Synthesis of metal complexes and metal-organic networks of MOF type

Expected vs Achieved results

Deadline: 31.12.2019



Expected Research Activities

Act 3.1 - Synthesis of metal complexes and metal-organic networks (MOFs): establishment of the experimental program; realization of syntheses according to experimental program; purification and structural characterization of reaction products by appropriate techniques; verifying reproducibility of syntheses and products can be found to be optimal.

Act 3.2 - MOFs evaluation: assessment of behavior in wet environment through water vapor sorption experiments combined with IR spectroscopy; estimation of porosity and BET surface for the compounds obtained; analyzing the results and identifying the conditions that allow obtaining the compounds with the highest porosity and the specific surface and the lowest water retention capacity; tests to identify applicative potential.

Act 3.3 - Reporting and dissemination activities: data centralization, interpretation and preparation for reporting, presentation at scientific events and publication