Inventory of experimental and theoretical resources available for NanoSpace COST Action	
Country:	Spain
Name of Institution/Laboratory:	INAMAT-Public University of Navarra (UPNa)
Contact information (name, e-mail):	Manuel Algarra (manuel.algarra@unavarra.es)
Website:	
Short description **(max 0.5 page)** of available techniques (experiment or theory): If appropriate, please include 1 picture/figure and caption highlighting resources.	We are a research group based in UPNa. Usually, we are users of XPS spectroscopy and FE-SEM microscopy analysis together the University of Málaga.
Sample/target description (e.g. gas, clusters, solid,…):	The samples must be solid
How to access to experimental/computational resources (e.g. through collaboration, user facility proposal calls,….):	In the same group we have a Professor who is expert in high level computational calculations
References **(max 5)**:	**1.** JUAN SOTO MARTIN; MANUEL ALGARRA GONZALEZ; DANIEL PELÁEZ RUIZ. Nitrene formation is the first step of the thermal and photochemical decomposition reactions of organic azides. Physical Chemistry Chemical Physics. 24 (2022) 5109 - 5115. (**Computational**) **2.** R-machado, Thales; S-da Silva, Jussara; R. -miranda, Renata; Zucolotto, Valtencir; S. -li, Máximo; MARIA DEL VALLE MARTINEZ DE YUSO GARCIA; Guerrero-gonzalez, Juan Jose; Lv-rosa, Ieda; Longo, Elson; MANUEL ALGARRA GONZALEZ. Amorphous calcium phosphate nanoparticles allow fingerprint detection via self-activated luminescence. Chemical Engineering Journal. 443 (2022) 136443. (**Spectroscopy: XPS and fluorescence**). **3.** MANUEL ALGARRA GONZALEZ; Nunes, Nadia; Popovic, Iva; Abreu, Elder; Maciel, Dina; Rodrigues, Joao; JUAN SOTO MARTIN; Petkovic, Marijana. Detection of Ru potential metallodrug in human urine by MALDI-TOF mass spectrometry: Validation and options to enhance the sensitivity. Talanta. 222 (2021) 121551 (**MALDI-TOF, Computational**)

	4. MANUEL ALGARRA GONZALEZ; MARIA DEL VALLE MARTINEZ DE YUSO GARCIA. Estimation of carbon dots amelioration of copper toxicity in maize studied by synchrotron radiation-FTIR. Colloids and Surfaces B: Biointerfaces. 204 (2021) 111828. (**Synchrotron FTIR Spectroscopy**). **1.** JUAN SOTO MARTIN; MANUEL ALGARRA GONZALEZ. Electronic Structure of Nitrobenzene: A Benchmark Example of the Accuracy of the Multi-State CASPT2 Theory. Journal of Physical Chemistry Part A: Molecules, Spectroscopy, Kinetics, Environment and General Theory. 125 (2021) 9431 - 9437. (**Computational**).