



Press release, June 2021

CHARISMA advancements

On 11-12 May CHARISMA successfully held their 6 month-Consortium Meeting virtually. The project partners presented an overview of the actual developments. The project is currently in the preparation phase to implement the Raman-based harmonisation tools and procedures developed in CHARISMA in three industrial case studies:

- Nanomaterials Synthesis
- Security Nanomarkers
- Food Safety and Traceability

We therefore expect the lab-style Raman set-up and hardware, software and optical probes ready by end of this year to demonstrate in M24.

For this, a list of key parameters and samples, as well as a data structure for harmonised Raman data have already been defined to support CHARISMA's objective to propose several protocols to standardise the way Raman spectra are generated and used in a broad number of industrial applications. This will allow us to quantitatively compare Raman spectra of a given sample regardless of whether this is acquired with a handheld or a high-end Raman system. This harmonization will be instrumental to ensure the one-material/one-characterization paradigm necessary for, e.g., nanosafety assessment.

Meet the team

In this edition, we would like to introduce you to:



Miguel A. Bañares, PhD Chemistry, Research Full Professor, CSIC

Miguel is the Project Coordinator of CHARISMA . He is based at the ICP (Institute for Catalysis and Petrochemistry) at CSIC and brings not only his passion about Raman spectroscopy, but also his vast experience on advanced Raman

characterisation during in situ and operando conditions to the CHARISMA project. He is an expert in operando Raman spectroscopy (the term operando was coined by this group back in 2000) for characterization of functional materials when environmental conditions change (hydration, reduction, oxidation, catalytic reaction) to assess structure-performance relationships at a molecular scale.

As Project Coordinator, Miguel also leads WP1 (Scientific Management) within CHARISMA.

More project updates can be found on www.h2020charisma.eu and you can follow us on Twitter @h2020charisma

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