



 DAVID MUÑOZ-ROJAS

From France to Finland 

Project: **Novel AP-SALD approach**

Research topic: **Chemistry**

Finnish Institution: **Aalto University**

French Institution: **Grenoble INP, CNRS**

Dates of mobility: **28/08/2022 to 31/08/2022**

Program: **Maupertuis Programme**



PRESENTATION

[David Muñoz-Rojas](#) carried out his PhD research on the synthesis and characterization of new Ag-Cu oxides by soft chemistry methods (ICMAB-CSIC, 2004). Since then, he has been actively researching on novel functional materials for energy applications for over 15 years in internationally recognized laboratories ([ICMAB](#) and [ICN2](#), in Barcelona, [University of Cambridge](#) in UK, and [LRCS](#) and [LMGP](#) in France, where he is at present a permanent [CNRS](#) researcher) and has extensive experience on the development of cheap and scalable chemical synthetic approaches. He is one of the few specialists in the novel AP-SALD approach, which [he is currently developing in his group in LMGP](#), where he has used this new technique extensively to deposit protective oxide layers on Ag nanowire networks to have more stable transparent conductive materials with tuned optical and electronic properties. He is the coordinator of two French ANR projects and a European FET OPEN project.

ACTIVITIES IN FINLAND

During his visit, David Muñoz-Rojas visited [Maarit Karppinen's](#) group in the [Department of Chemistry and Materials Science](#) of [Aalto University](#). He participated in a group meeting with Prof. Karppinen's students and postdocs to have an overview of the research being carried in the group. He gave a seminar for the whole department on his research activities around the SALD Technique. David Muñoz-Rojas had a short discussion in which possible collaborative topics were identified. Then he had a visit to [BENEQ](#), a company commercializing ALD and SALD equipment. He was hosted by [Kalle Niiranen](#) (Technical sales manager) and [Dr. Philipp Maydannik](#) (Product manager – Spatial ALD), and discussed possible collaboration.