PhD Student

Sol-gel synthesis and reliability of co-doped perovskite thin films for capacitor applications

Reference-n°.: MCL_187

Relaxor perovskites – sol-gel thin films – high energy density capacitors

These topics inspire you or you are already familiar with them?
Then you are the right person we are looking for!

What do we need?

- Academic degree (master equivalent) preferably chemistry or materials science
- Knowledge in sol-gel thin film synthesis
- Interest and experience in experimental techniques, in particular surface science methods
- Scientific curiosity, team skills, self-initiative
- Good oral and written communication skills in English

You will be involved in a cutting-edge ERC-funded project, together with a top worldwide network of scientific institutions and companies!

Your tasks?

- Design and processing of new lead-free perovskite compounds with high energy density for energy storage capacitors
- Study of electrical conduction at interfaces and its relation with defect distribution and residual stress
- Investigation of fatigue-driven failure mechanisms
- Participation to international cooperation
- Dissemination of results (international conferences, peer-reviewed articles)

Our offer:

An employment contract with start in January 2021 and a gross monthly salary of € 2928,92.
Please send your complete application documents by post/email until September 30th, 2020.
We would be pleased to get to know you!