

Materials Center Leoben (MCL) - with a staff of 180 highly specialized employees - supports numerous companies in the production sector developing high-performance materials, manufacturing processes and products. MCL designs specific computer-aided technologies in order to accelerate innovation processes in manufacturing companies as well as to support the digitalization of the value chain and products. MCL's portfolio includes cooperative research and development projects with international and national partners from the production and research sectors as well as several consulting, laboratory and simulation services in materials science.

To strengthen our team, we are looking for someone with the following qualifications and responsibilities:

PostDoc position

Design and characterization of Ba-based lead-free perovskites

Reference-no.: MCL_194

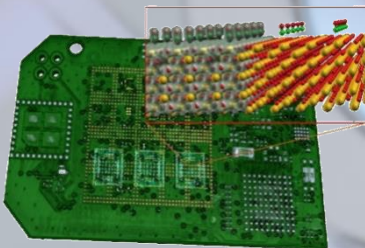
Relaxor ferroelectrics - Local structure analysis – Electrical properties

These topics inspire you? Are you already familiar with them? Then you are the right person for this position!

What are we looking for?

- *PhD in materials science, chemistry, physics, electrical engineering*
- *Preferably 2-3 years professional experience in a scientific group on perovskite dielectrics or similar*
- *Strong knowledge basis on perovskite dielectrics, especially BaTiO₃-based solid solutions*
- *Expertise in electrical characterization, ceramic processing, Raman spectroscopy, diffraction analysis methods and data analysis (e.g. Rietveld refinement, Pair Distribution Function analysis) desired*
- *Scientific curiosity, team skills, self-initiative, mentoring skills*
- *Good oral and written communication skills in English; knowledge of German language desired*

Be involved in a thriving, well-recognized research group on perovskites and energy materials, within a worldwide scientific network!



Your tasks?

- *Studying the effect of local (atomic) structure on the electrical properties of Ba-based dielectrics*
- *Validation of ab-initio and molecular dynamics simulations by experimental data*
- *Supporting the team with own expertise, mentoring students*
- *Applying for funded research projects*
- *Dissemination of scientific results in papers and at conferences*

Our offer:

An employment with start in June 2021 and a (min.) gross monthly salary of € 3.200,--. Overpayment dependent on your professional qualification and experience possible.

Please send your complete application documents (until April 30th, 2021) by post or email. We are looking forward to knowing you!



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