

The Leibniz Institute for Catalysis (LIKAT) is one of the leading European Research Centres in the field of catalysis. Major goals of our scientific work are the elaboration of knowledge in basic research in all areas of catalysis as well as the transfer of results into technical applications.

A PhD position

is available for three years at the Leibniz-Institut für Katalyse e. V. an der Universität Rostock (LIKAT) in the Department „Catalytic In situ-Studies“.

The topic comprises “Mechanistic studies of the selective oxidation of low olefins by CO₂ using spectroscopic in situ techniques”. The use of CO₂ as oxidizing feedstock for producing valuable chemicals is a future challenge, since it would help to reduce environmental problems. However, so far, catalysts able to activate the highly stable CO₂ molecule are hardly available.

In this PhD project, which is part of a network comprising partners from industry and different universities, novel catalysts for the activation of CO₂ shall be developed. Their interaction with CO₂ olefins shall be studied using a toolbox of in situ-techniques such as FTIR, Raman, UV-vis and EPR spectroscopy.

We are searching for a highly motivated, hard working candidate who is able to promote the project with own ideas.

To apply, please send a CV (including the names of 2 potential references) with a cover letter by e-mail to

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