

HITEC Day

Title: Characterization of materials and devices

Date: 11. December 2019

Location: [Forschungszentrum Jülich](#) ► **Bld. 04.8, Room 365 (lecture hall)**

Part of the work at Jülich is the development of new materials as well as the use of new materials for energy applications. In these cases a detailed analysis of composition, the surface, modifications and changes within the materials (for example by aging) is necessary

You will learn about:

Basic information on the analytical techniques available at ZEA-3 including ICP-OES/-MS; SIMS, Atomprobe, XPS, Chemisorption and NMR. Requirements of samples as well as possibilities and limitations of the techniques will be discussed and the projects of the Ph.D. will be discussed with respect of possible contributions by the ZEA-3 techniques.

Contents:

Introduction into the analytical techniques and partial examples of contributions of analytics to the research in projects at Jülich

Who should attend:

HITEC Ph.D.-fellows;
Postgraduate-, Ph.D.- and postdoctoral fellows from the fields of energy and climate research

HITEC Days

HITEC Days are an inherent part of the graduate school Helmholtz Interdisciplinary Doctoral Training in Energy and Climate Research (HITEC). They devote a whole day to a method or a scientific topic with lectures and discussions. The methodological days serve to encourage scientific interdisciplinarity and will enable the PhD students to extend their range of methods with respect to their own scientific work. HITEC Days always end with a 'Get together', some snacks and drinks. HITEC Days are open for HITEC Ph.D. students and other interested young scientists.