## Job posting

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### Title

Postdoctoral position
Solvothermal synthesis of oxides

### Institution

The Fritz Haber Institute of the Max Planck Society is located in the quiet south-west of Germany’s capital Berlin. The Department of Inorganic Chemistry at the Fritz Haber Institute provides a stimulating, international research environment for attainment of advanced academic qualification. Berlin is a large, cosmopolitan and tolerant city that offers you a wide variety of culture, art, music, and outdoor opportunities.

### Position

The postdoctoral position will be for 2 years with the option on extension and the opportunity for further qualification. The activities are involved in the collaboration of the Fritz-Haber-Institut with the UniSysCat - BASF - JointLab at the Technical University Berlin.

### Responsibilities

Complex mixed oxides are applied as catalysts in the functionalization of hydrocarbons with molecular oxygen. High selectivity in partial oxidation reactions contributes to improved utilization of natural resources, and to the reduction of CO2 emissions. The synthesis of the catalyst has a strong impact on catalyst performance.

In the project new synthesis strategies will be developed with the aim to prepare nano-structured mixed oxides with desired functional properties. Important materials’ requirements are phase purity and homogeneity. Solvothermal synthesis will be applied in batch or continuous mode. Our autoclaves are equipped with a number of probes and ports, which allow monitoring and control of the inorganic reaction in the autoclave. Other techniques of synthetic inorganic chemistry can also be applied.

### Requirements

We are looking for a highly motivated, creative inorganic chemist, who can work independently, and is able to adopt new methods, for example spectroscopic techniques and advanced methods of data analysis, quickly. Required qualifications include a PhD in chemistry or materials science. A strong proven research background in inorganic chemistry and heterogeneous catalysis is advantageous.
Please e-mail your application documents including curriculum vitae, list of publications, a description of research interest/plan, and the names and addresses of two referees to

Dr. Annette Trunschke
e-mail: trunschke@fhi-berlin.mpg.de

using the code word “Syn-Ox” in the subject heading at your earliest convenience, but not later than 25th January 2019.

The Max Planck Society aims to increase the participation of women in research. Therefore, applications by women are particularly welcome. Handicapped individuals are especially encouraged to apply. These applicants will be given priority in the case of same qualifications.

We handle applications electronically, observing the German data privacy laws. By sending the application, the applicant declares his or her consent.

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