

Which institutions participate in e-conversion?

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80333 München
www.tum.de

Ludwig-Maximilians-Universität München

Geschwister-Scholl-Platz 1
80539 München
www.lmu.de

Max-Planck-Institut für Festkörperforschung

Heisenbergstr. 1
70569 Stuttgart
www.fkf.mpg.de

Max-Planck-Institut für Chemische Energiekonversion

Stiftstr. 34-36
45470 Mülheim an der Ruhr
www.cec.mpg.de

Max-Planck-Institut für Kohlenforschung

Kaiser-Wilhelm-Platz 1
45470 Mülheim an der Ruhr
www.kofo.mpg.de



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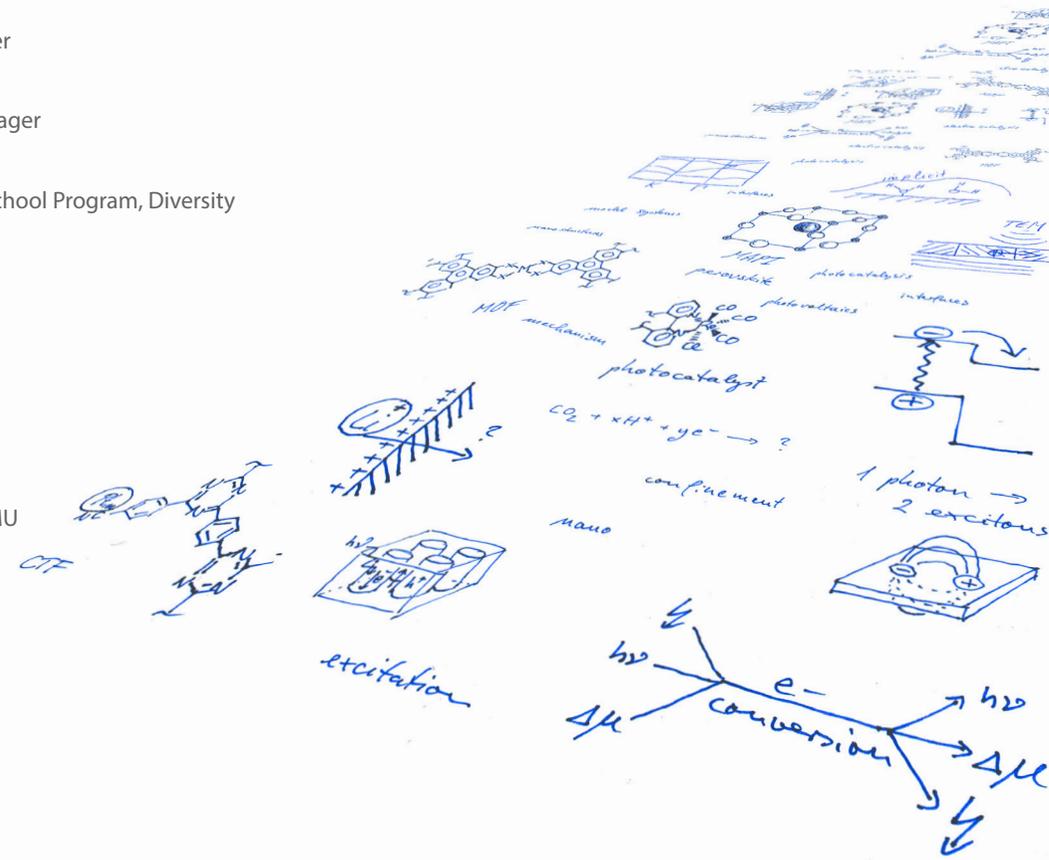
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e-conversion

Fundamentals of Energy Conversion Processes



A DFG Cluster of Excellence

What is e-conversion?

e-conversion is a Cluster of Excellence funded by the Deutsche Forschungsgemeinschaft (DFG, German Research Foundation) under Germany's Excellence Strategy since January 2019.



The cluster unites about 40 Principal Investigators and their research groups from the Munich area as well as from Max Planck Institutes in Stuttgart and Mülheim an der Ruhr. Together, the researchers investigate the fundamental processes involved in the conversion of renewable energies.

The e-conversion cluster provides an optimal environment for research at the highest level:

- a vivid network of highly qualified experts
- interdisciplinary collaboration of scientists from different research fields (chemistry, physics, biology)
- excellent laboratory infrastructure
- targeted promotion of young researchers
- international conferences and workshops
- programs to improve the compatibility of family and career
- various training programs and further education opportunities

What are we doing at e-conversion?

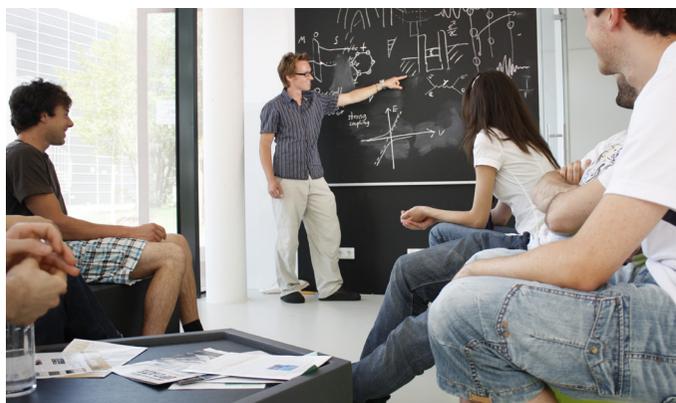
Our research focuses on the fundamental mechanisms of renewable energy conversion processes.

Whether it is photovoltaics, photocatalysis, or batteries, the interfaces between different materials always play a key role. The physical processes at interfaces can result in energy losses. Therefore, the design of the interfaces is crucial for the efficiency of energy conversion processes.



In our research projects we aim to answer the following questions:

- How to make solar cells even more efficient, cost effective and environmentally friendly?
- Is it possible to produce green fuels based on the model of photosynthesis?
- How to best reduce the loss of energy storage in batteries?
- Are we able to precisely design the ideal materials for energy conversion?
- Does the combination of organic and inorganic materials result in new functionalities?
- How can nanotechnology help us to improve energy conversion processes?



What does e-conversion offer me?

We invite you to participate in our research at the Cluster of Excellence e-conversion:

Get an exciting insight into the work of our scientists at events such as the Open Day of the Cluster or of Campus Garching or the Streetlife Festival in Munich.

e-conversion has several offers for pupils and highschool students. In consultation with the schools we organize workshops with hands-on experiments, lab tours and scientific talks. The cluster also contributes to the Girls' Day and arranges professional support for W-seminar projects.



You will find news on recent research results and information on several cluster activities on our website and in our newsletter (coming soon).

Are you interested in our school program or the newsletter, or do you need further information on the cluster and our research program? Please contact us, we are happy to help.

