

A portrait of Professor Christoph Müller, a man with glasses and a light blue button-down shirt, standing with his arms crossed in a laboratory setting. The background shows various pieces of scientific equipment and shelving.

**Professor Christoph Müller**

«The key elements for success are dedication to the problem and team spirit. And if an idea that seemed great doesn't work out, stay cool and think about alternatives.»

# Energy Science and Engineering

## Institute of Energy Technology

We research novel approaches for a more efficient and sustainable production of fuels, electricity and chemicals. Our laboratory offers a unique environment for the synthesis and in-situ/operando characterization of new catalysts and CO<sub>2</sub> sorbents. We also work with highly advanced experimental and numerical tools to gain a better understanding of complex phenomena occurring in granular systems.

### Focus

- Carbon dioxide capture
- Catalysis
- Experimental granular physics
- Numerical modelling of granular flows

### Tools and methods

- X-ray diffraction, X-ray absorption spectroscopy
- Infrared and raman spectroscopy
- Magnetic resonance and high speed camera imaging
- (Photo)electrochemistry
- Thermogravimetry and material synthesis

Further details online:

[www.es.e.mavt.ethz.ch](http://www.es.e.mavt.ethz.ch)

