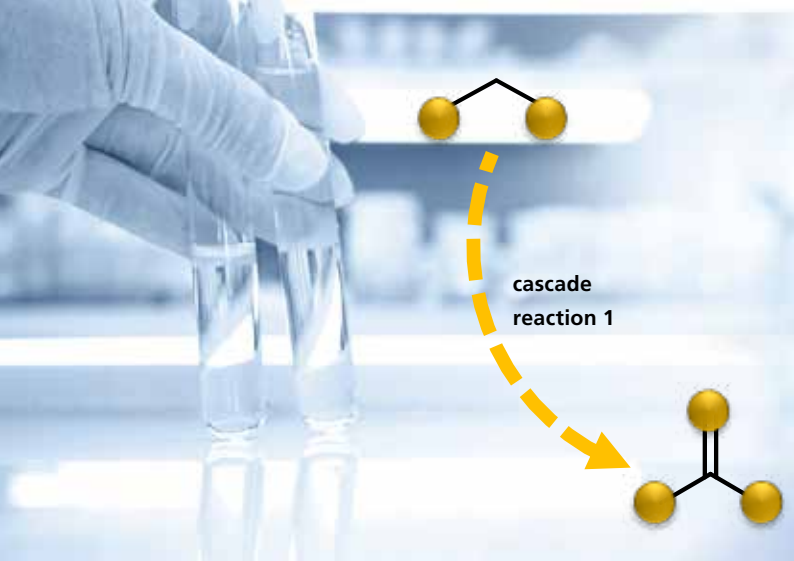


Cascade reactions for the continuous synthesis of fine chemicals

Technology and process development



Do you want to significantly optimize your production costs for the synthesis of fine chemicals and their purity at the same time? Are you looking for an innovative technology that enables synthesis processes based on the principles of Green Chemistry?

We can offer you the right solution ...

Cascade reactions for the heterogeneously catalyzed synthesis of chiral fine chemicals in a continuously operated reactor system!

The advantages of our approach

- Hardly any changeover times
- Cost savings due to mild reaction conditions
- Better process control through micro process engineering and flow chemistry methods
- Less effort in the downstream process due to heterogeneous catalysis
- Higher yield and better selectivity
- Use of sustainable components with simultaneous minimization of precious metals



Learn more about our technology

Online workshop free of charge on January 26, 2023

Register now on our website:
www.cascade-reactions.de

Our service offer

We offer developments and feasibility studies in the following areas:

- Material development and upscaling in the field of catalysts
- Reactor development for cascade processes
- Plant and process development

Who we are ...

This innovative technology is based on the vision, collaboration and expertise of four Fraunhofer institutes:

Fraunhofer IMM	Microprocess engineering, flow chemistry
Fraunhofer ISC	Particle technology
Fraunhofer IME	Customized biocatalysts
Fraunhofer IGB	Surface technology

Get in contact with us ...

Dr. Michaela Müller

Head of Innovation Field Functional Surfaces and Materials

Phone +49 711 970-4140

michaela.mueller@igb.fraunhofer.de

Fraunhofer IGB | Nobelstrasse 12 | 70569 Stuttgart | Germany

Dr. Thomas Rehm

Senior Scientist

Phone +49 6131 990-195

thomas.rehm@imm.fraunhofer.de

Fraunhofer IMM | Carl-Zeiss-Str. 18–20 | 55129 Mainz | Germany