CatchBio

Catalysing the biobased future

2006-2016

CatchBio

Biomass

Feedstock: lignocellulose, oils and proteins

Sufficient food for everyone

Biorefinery

clean

selective

efficiënt

Homogeneous and Heterogeneous Catalysis

Products

Energy, chemicals & materials for everyone

Research clusters

CatchBio

Partners

CatchBio

Academic partners:

Universiteit Utrecht

FOOD & BIOBASED RESEARCH WAGENINGEN UR

TU Delft

University of Twente The Netherlands

TU/e Technische Universiteit Eindhoven University of Technology
Where innovation starts

Universiteit van Amsterdam

university of groningen

Universiteit Leiden

Radboud University Nijmegen

ECN

Industrial partners:

ALBEMARLE®

DSM

avantium

MSD

BASF
The Chemical Company

sabic

DOW®

Shell Global Solutions

sasol
reaching new frontiers

VibSpec
training, consultancy and software for infrared & raman spectroscopy

Hybrid Catalysis

CatchBio's innovation scheme

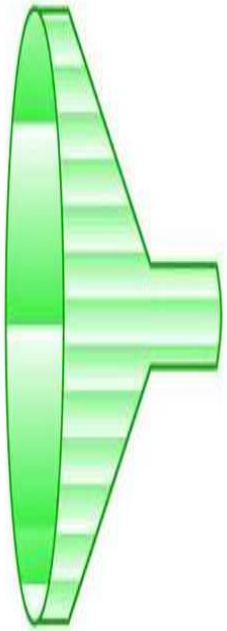
CatchBio

Phase 1 + 2

Phase 3

Phase 4

- sugars
- (hemi)cellulose
- lignin, humines
- vegetable oils
- proteins



- Catalytic pyrolysis
- Lignin
- Carbohydrates
- Fine-Pharma

Hand-over to industry

Broad scientific basis on multiple feeds

Promising leads continued

Additional

CatchBio

Phase 1+2

Broad scientific basis on multiple feeds

Phase 3

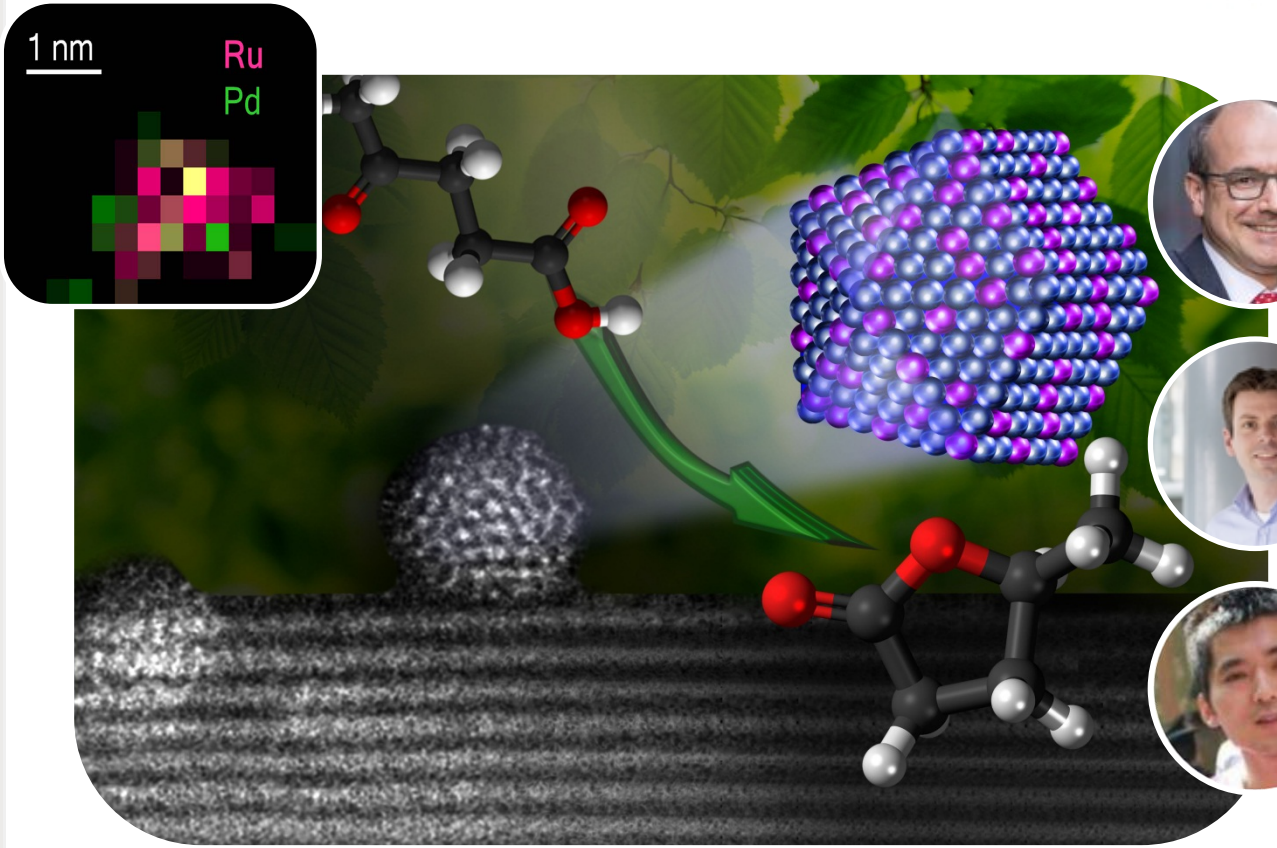
Promising leads continued

Phase 4

High impact projects further explored by additional industrial commitment

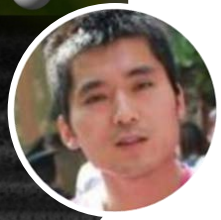
Project highlights: New catalysts

CatchBio



B.M. Weckhuysen

P.C.A. Bruijnincx



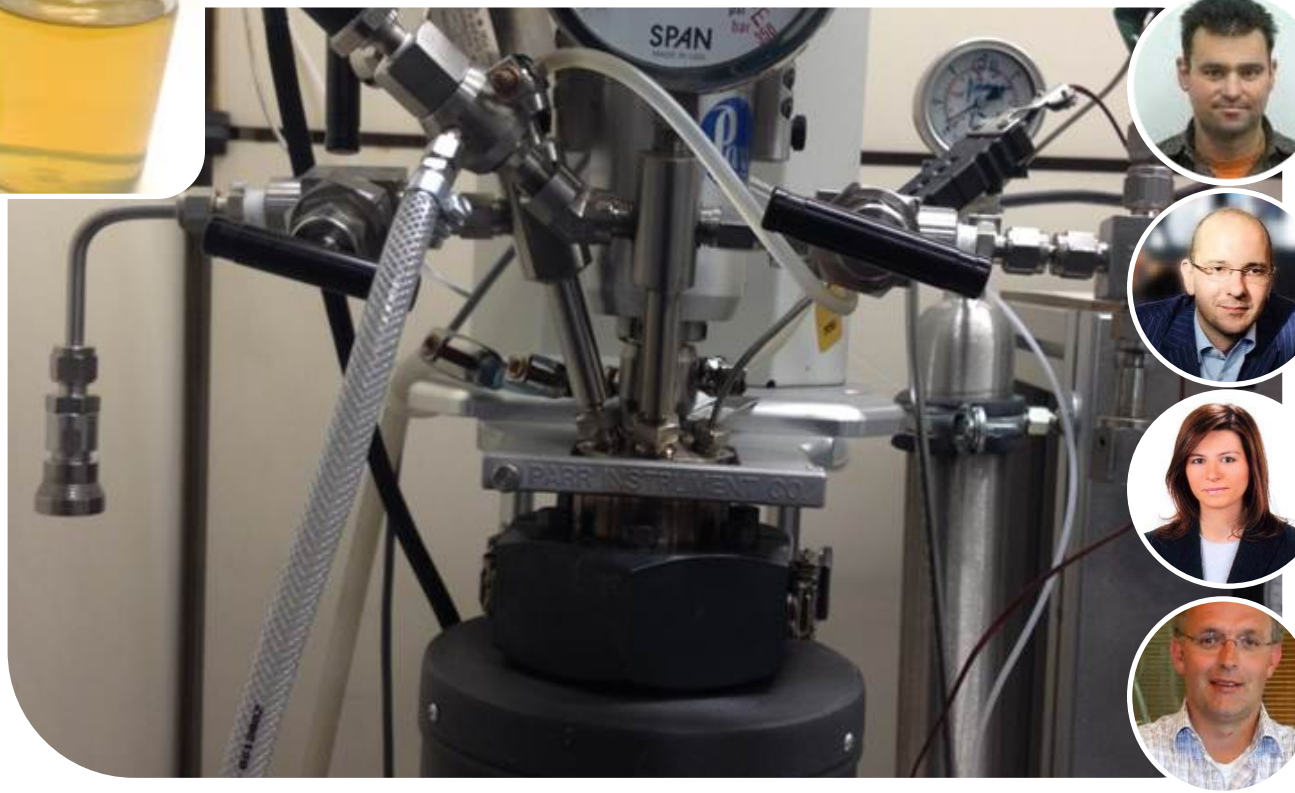
W. Luo

New catalyst processes biomass into valuable building blocks faster and more efficiently

Universiteit Utrecht

Project highlights: Lignin treatment

CatchBio



E.J.M. Hensen

E. Pidko

B. Guvenatam

H.J. Heeres

Lewis-acid catalyzed depolymerization of Protobind lignin in supercritical water and ethanol

TU/e Technische Universiteit Eindhoven University of Technology

Where innovation starts

Project highlights: Sustainable building blocks

CatchBio

E. Bouwman

S. Raoufmaghaddam

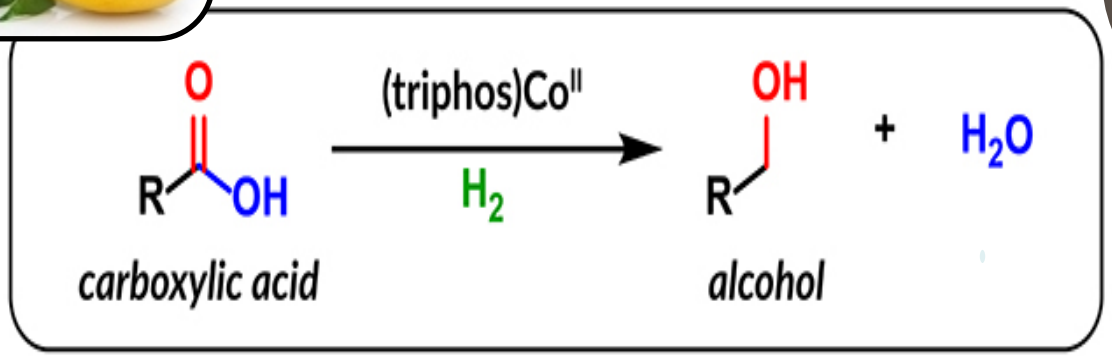
Y. Gloaguen

Catalytic Conversion of gamma-Valerolactone to epsilon-Caprolactam: Towards Nylon from Renewable Feedstock

Universiteit Leiden

Project highlights: Clean conversion method

CatchBio



Hydrogenation of carboxylic acids with a homogeneous cobalt catalyst

C. Elsevier

B. de Bruin

J.I. van der Vlugt

T. Korstanje

UNIVERSITY OF AMSTERDAM

(Inter)national positioning

CatchBio

Professional development and training

CatchBio

Communication and visibility

CatchBio

Biannual newsletter

Avantium and Danone Research sign partnership for development PEF bottles

CatchBio partner Avantium has entered into a Joint Development Agreement with Danone Research for the development of PEF bottles for Danone. "This agreement is a fantastic step forward on our path to commercialize PEF bottles," says Avantium's CEO Tom van Aken. » read more

Avantium and Coca-Cola sign agreem

Avantium and The Coca signed a partnership ag generation 100% plant partners will further co technology for producin milestones include the s pilot plant, officially ope Geleen. » read more

Xander Nijhu ChemCatChe

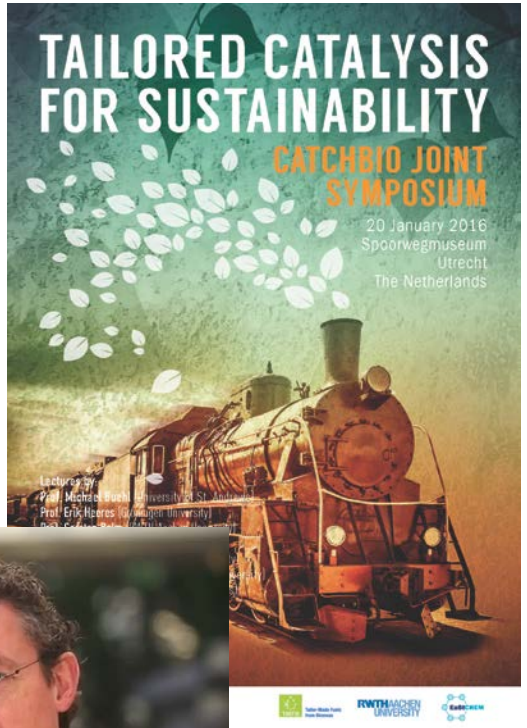
In the January issue of researcher Xander Nijh improvement on the tra method used to prepare more

Finished proj

The first four CatchBio finalized. Read more ab projects 'Physical chem conversion', 'Catalytic h

Themed edition ChemSusChem

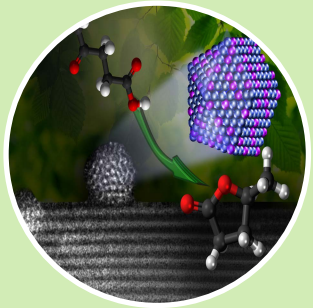
Annual open symposia



Movies

www.catchbio.com

CatchBio's signature



Scientific output of excellent quality and high industrial relevance

Training of new generation catalysis researchers

Important (inter)national platform function