

SEBASTIAN

Bold

Research Area Manager (Hydrogen)



AT THE CHAIR ...

...I'm responsible for

Research Area
Management Hydrogen &
Chemistry

Thematically I deal with

hydrogen: production, storage, transport & use. In addition chem. Reactors & Catalysis

The goal of my research is to

develop necessary technologies for the hydrogen economy

For this I particularly work with

many employees from different areas of AM

This is the advantage of my research:

Reduction of CO₂ emissions, e.g. of the steel industry.
Cost reduction of electrolyzers

However, it is also possible to transfer the results to these industries:

Mobility, e.g. automotive industry (fuel cells)
Chemical industry

This is the impact of my research on the future:

Contribution to the design of a climate-neutral economy & society

MY MOTIVATION

That's what I studied:

Chemistry

For this reason, I decided to go for Additive Manufacturing:

Interest in new subject area & exciting AM opportunities in H₂/chemistry.

I am especially excited about these AM-possibilities:

Design freedom & multi-material application/functionalization

I am glad about these opportunities at the DAP Chair:

Multidisciplinary work and applied research

In my dissertation I dealt with this topic:

Spectroscopic investigation of photoelectrochemical systems for the generation of hydrogen.

EITHER ... OR?

Film or series?

Film

Coffee or tea?

Tea

Sunshine or snow?

Sunshine

Chocolate or chips?

Chocolate

City or village?

City

Elevator or stairs?

Stairs