

## CV Prof. Dr. Katja Bühler

Katja Bühler (H-index 20) studied Microbiology at the University Hamburg and made her phd at the Technical University Hamburg-Harburg. For her postdoc studies she went to the ETH Zurich to work with Prof. Bernard Witholt at the Institute of Biotechnology. After several years as a group leader at the Technical University Dortmund with Prof. Andreas Schmid, she moved to the Helmholtz Centre for Environmental Research, where she is heading the research group `Catalytic Biofilms` and is Professor for `Technology of Productive Biofilms` at the TU Dresden. For more than 15 years she is focussed on integrated biocatalyst and bioprocess development, exploring whole-cell biocatalysts in various formats for applications in the chemical industry. Microbial host systems mainly employed in her work are *E. coli*, *Pseudomonas*, and different cyanobacterial strains primarily *Synechocystis* sp. PCC6803 and *Tolypothrix* sp. The group developed novel, biofilm-based cultivation and reaction systems and established the reaction concept of catalytic biofilms in the research community.