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University studies

Biology / Diploma at University of Regensburg 1985-1989

Diploma thesis at the Institute of Microbiology: 1989-1990

“Physiology of aerobic and anaerobic degradation of aromatic compounds”

Doctoral work at the Institute of Microbiology: 1990-1993

“Anaerobic biotransformation of phenol to benzoate: Physiological and biochemical analysis of fermentative and methanogenic phenol degradation”

Dissertation: Degree of Dr. rer. nat. September 1993

Scientist at the Institute of Biology for Engineers and Biotechnology of wastewater (IBA), KIT Karlsruhe November 1993

Habilitation at IBA, KIT:

„Biological processes of solid and liquid waste during sustainable recycling management“

Teaching certificate: Biotechnological waste management February 2004

Professor at University of Applied Science Hochschule Emden Leer October 2012

Scientific Award of Lower Saxony 2017

Research Made in Lower Saxony October 2018

Research interests: Environmental microbiology with focus on community analysis and physiological characterization of bacterial population in aerobic and anaerobic wastewater and waste treatment processes, physiological and kinetic aspects of strictly anaerobic syntrophic propionate-oxidizing bacteria, antibiotic resistant faecal bacteria and pathogenic bacteria and antibiotic resistance distribution in sewage and aquatic environments, bioremediation and degradation of organic compounds (aromatic compounds, organo-metallic compounds) in natural and man-made ecosystems.

Scopus ID: 6603577866