



- 1976-1983 Studies in chemistry, physical chemistry, technical chemistry and physics at Heidelberg University.
- 1980-1982 Participation in research projects at the Institute for Sediment Research, Heidelberg (Prof. G. Müller).
- 1984 Diploma, Chemistry (Laser-induced reactions between CH<sub>4</sub> and BCl<sub>3</sub>, Prof Schramm).
- 1984-1989 Dissertation, Institute for Physical Chemistry (Prof Schramm) and Institute for Hygiene (Prof Sonntag), University of Heidelberg (Formation of Disinfection By Products during preparation of water).
- 1990 Akademischer Rat, Institute for Hygiene.
- Since 1990 Head of Laboratory for Water Analysis and Hygiene
- 1991 Research visit at University of Würzburg (Prof. Henschler).
- 1992 Research visit at University of Regensburg (Prof Minuth).
- 1992 Akademischer Oberrat, Institute for Hygiene.
- 1992 – 2004 Lecturer at Bundesakademie für Wehrverwaltung und Wehrtechnik, Mannheim.
- 1993 Research visit at University of Marburg (Prof. Netter).
- 1995 Field study: Drinking Water Quality in N'Djamena, Chad.
- 1997 Research visit at MIT, Boston (Prof Thilly).
- 2000 Tutorial in Medical Education, Harvard University, Boston.
- Since 2000 Advisor of the International Department of HRK (German Rector's Conference).
- 2000 – 2008 Coordinator: HRK Environmental Research Project Montenegro/Albania
- 2002 – 2004 Coordinator: INTAS Project 1005; Russia/Kazakhstan/Austria/Germany
- Since 2002 Member: Pool Water Advisory Board; Ministry for Health, and German Environmental Protection Agency
- 2004 WHO Expert "Recreational Water".
- Since 2005 Vice-chairman, Pool Water Advisory Board, Ministry for Health and German Environmental Protection Agency
- 2006 Habilitation and Privatdozent for Environmental Hygiene
- 2008 Invitation to United Nations University, World Water Day 2008, International Network on Water, Environment and Health, Hamilton, Canada
- 2009 Academic Director, Department for Infectious Diseases, University of Heidelberg
- 2010 Field study: Drinking Water Quality in rural areas of Burkina Faso

**Research themes**

TiO<sub>2</sub> induced reactions for water and surface disinfection/sanitation. Water disinfection and chemistry of disinfectants. Mutagenic activity and immune toxicity of fine particles. Mutagenic activity of sediments and water samples. Sampling strategies for microbiological analysis and organic compounds.

**Publications and Patents**

52 peer reviewed papers, 1 book, 8 book chapters, 35 additional publications. One German patent for UV Technology. Two more patents pending.

Reviewer for several scientific journals, reviewer of research grants for several institutions. Associate Editor for Environmental Science and Pollution Research, member of the editorial board of "Chemosphere"

**Grants**

2 DFG, 8 Land Baden-Württemberg, 4 BMBF, 1 BMG, 2 Heidelberg University Hospital, 1 EU, 1 DVGW, 4 HRK, 2 ZIM, 1 UBA