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PhD 1998 at the Institute of Physical Chemistry of the University of Erlangen; post doc in biophysics and biochemistry at the University Frankfurt and at the UIUC Illinois; 2000-2004 assistant professor at the University of Frankfurt and since 2006 full professor at the University of Strasbourg, head of vibrational spectroscopy and bioelectrochemistry group.

Main research interests include the study of questions from the molecular bioenergetics field on the structure, function and dynamics of the biomolecules. We combine the development and application of infrared spectroscopies, photo- and electrochemistry. Currently a special focus is given on far infrared spectroscopy with conventional and synchrotron light sources and on this basis on the study of the potential of the interaction of large hydrogen bonding networks for the enzymes mechanism.