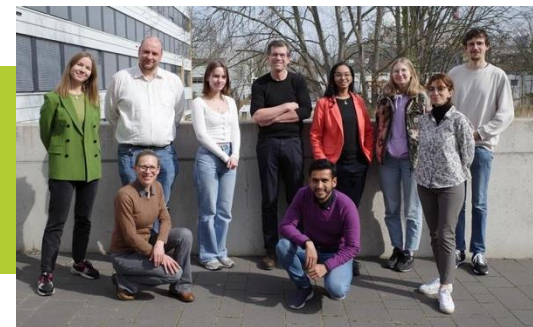
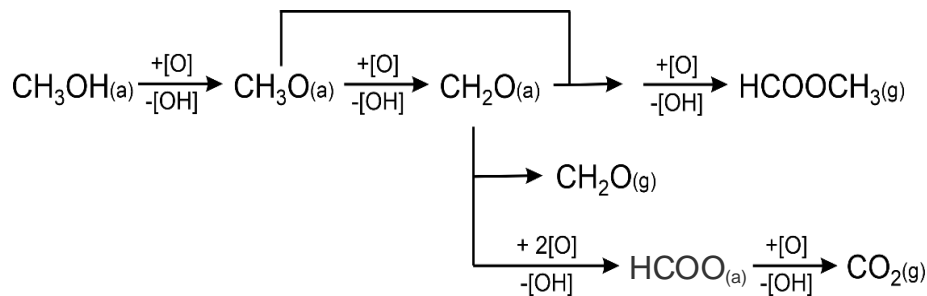
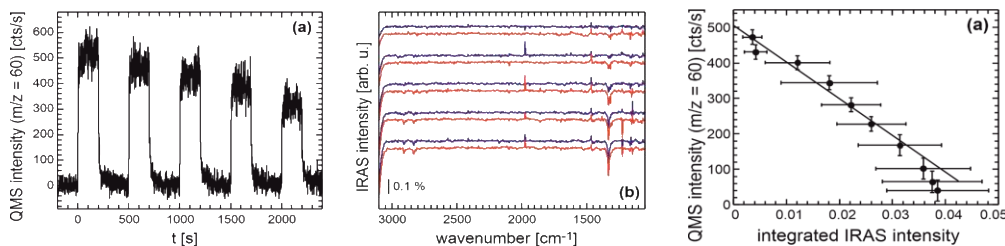


AG Risse/ Surface Chemistry/ heterogeneous catalysis



Model catalysis in Ultrahigh vacuum:

Partial oxidation chemistry on Au surfaces

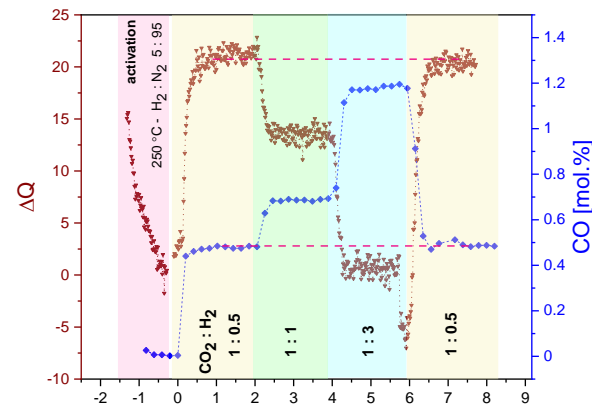


aim: gain insight into reaction mechanisms at the atomic scale

methodology: combination of reaction kinetics with spectroscopic techniques

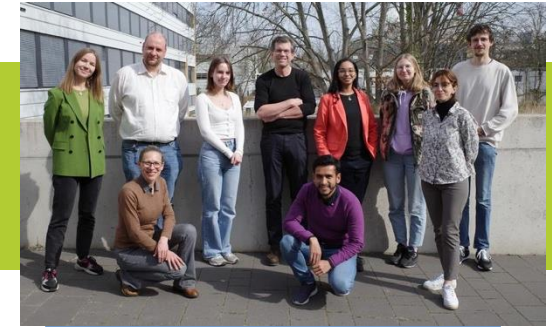
In-situ/operando characterization of solid catalysts for gas phase catalysis

EPR-spectroscopy and MCPT



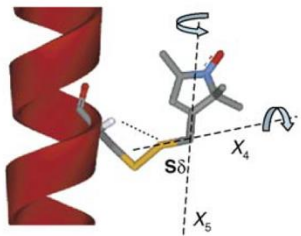
operando MCPT: r-WGS Cu/ZnO:Al

AG Risse/ Biophysical Chemistry

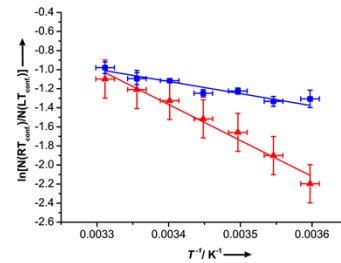
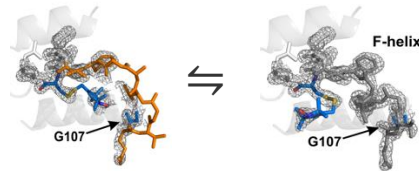


research topics: structure and dynamics of proteins

EPR spectroscopy/site directed spin labeling

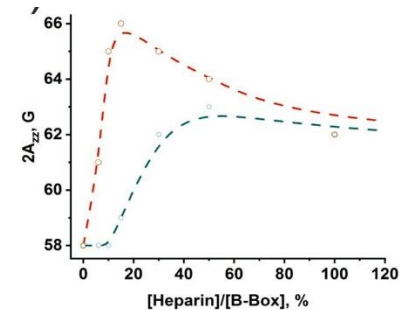
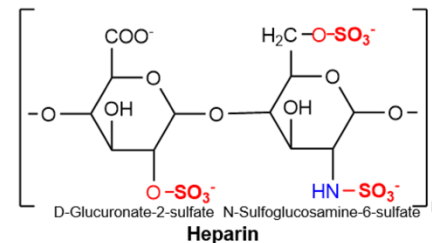
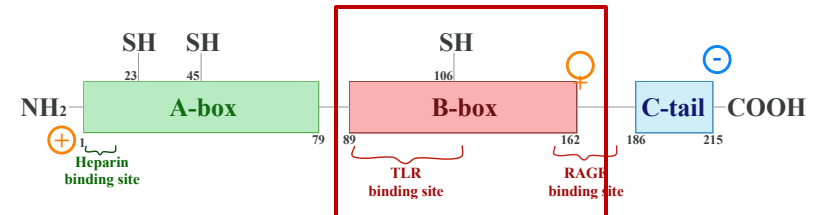


SDSL: selective coupling of a spin label to a side chain (typically a Cys residue)



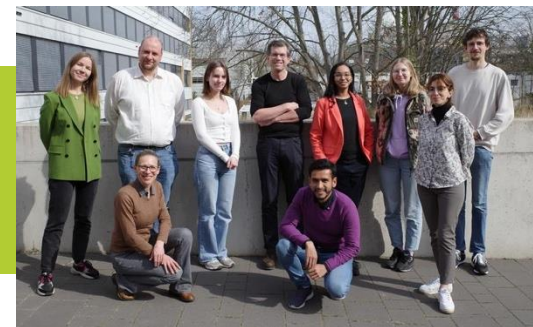
Equilibrium between two conformations of a protein

Example: within IRTG 2662
Interaction of HMGB1 with Heparin



aim: gain insight into structural changes of proteins associated with function
methodology: spectroscopic techniques (EPR, CD, Fluorescence spectroscopy etc.)

AG Risse



If you are interested in bachelor/master thesis or internships:

send an e-Mail to risse@chemie.fu-berlin.de to arrange for a personal meeting to discuss possible topics

Internships: we only offer internships worth 10 or 15 CP