After getting his PhD at the RWTH Aachen in 2004, Gerald Pintsuk worked as Post-Doc at Forschungszentrum Jülich on nuclear fusion related topics as well as on material characterization topics for applications dealing with extreme environments and loading conditions. In 2012, he became the head of the High Temperature Materials Laboratory at Forschungszentrum Jülich operating world-wide unique testing facilities, focusing on characterization of the performance and damage analyses of non-irradiated and irradiated plasma facing materials and components when exposed to high heat fluxes. Via acting as Group Leader for the High Heat Flux Materials sub-project from 2014 to 2016, he took over the role of Project Leader for the Work Package Materials since 2017 covering topics from material design interface via structural, high heat flux and functional material development, characterization, and qualification to irradiation modelling.