

Klaus Bretterbauer received his M.Sc. degree in 2006 and obtained his doctorate in technical chemistry at the Johannes Kepler University Linz in 2010, on the synthesis and characterization of novel methylmelamine derivatives applicable in polymerization, polyaddition, and serving as advanced synthesis building blocks. In the following postdoctoral employment, he developed his first research group working on synthesizing and testing nanoparticle immobilized polyolefin stabilizers. From 2014 on, he broadened his expertise in international project management and the development of medical devices at Profactor GmbH and Greiner Bio-One. Since 2019, he has been appointed as an assistant professor at the Johannes Kepler University Linz, leading a polymer synthesis and material science research group. Currently, he is engaged in the synthesis, characterization, and application-related testing of charged brush polymers. The structurally tailored polyelectrolytes are optimized to their structure-property relationship, finding use in battery applications and artificial signal transmission.