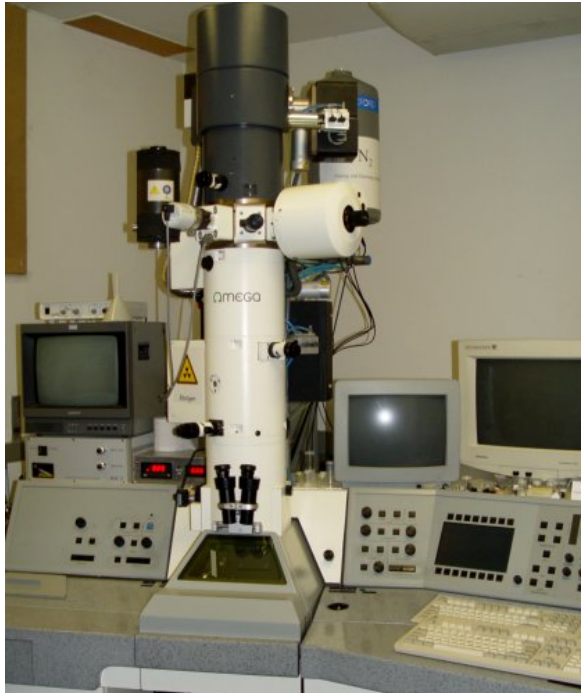


Methods, IMC, Mülhaupt

<p style="text-align: center;">Transmission Electron Microscope (TEM)</p>	<p>Model: Zeiss LEO 912 Omega Unit and Room: ZfN, Albertstraße 23, back building, basement, room nr. 8 Responsible: Dr. Ralf Thomann Further information: http://www.fmf.uni-freiburg.de/service/dienstleistungen/mikroskopie/index_html</p>	
<p>Short Description:</p> <p>TEM machine with an acceleration voltage of 120 kV, equipped with EELS, ESI, TED and Cryo-TEM possibilities.</p>	<p>Picture of the Equipment</p>	
<p>Available Experiments/Techniques:</p> <p>Transmission electron microscopy on a broad variety of samples, e.g. polymers, nanoparticles, biological samples etc. Elemental analysis via Energy Filtered Transmission Electron Microscopy (EELS and ESI). Possibility for cryo measurements, down to -170°C and Electron Diffraction Measurements (TED). Best resolution for "typical samples" about 0.7 nm.</p>		
<p>Special Equipment:</p>		
<p>Sample preparation equipment</p>		
<p>Measurements on the equipment are currently done by:</p>	<p><input type="checkbox"/> Students <input type="checkbox"/> Students after Introduction <input type="checkbox"/> Students after extensive training <input checked="" type="checkbox"/> Trained scientific service personal</p>	
<p>Recent Publications, where this instrument was important (optional): Give citation</p>	<p>Macromolecular Rapid Communications (2009), Volume 30, Issue 4-5, Pages 316-327 / Nano Letters (2009), 9(2), 514-518</p>	
<p>Typical problems that may be solved with this instrument:</p>	<p><i>Morphological characterization</i> <i>Particle analysis</i> <i>Elemental analysis</i> <i>Diffraction analysis of crystalline samples</i></p>	