


<b>Title, Name and surname</b> Katarzyna Berent, PhD, assistant professor	
<b>Faculty and Department</b> Academic Centre for Materials and Nanotechnology	
<b>Keywords.</b> study of the influence of microstructure on the functional properties of materials, scanning electron microscopy (SEM), electron tomography using FIB-SEM, rapid prototyping, solid oxide fuel cells	
<b>Scientific profile.</b> My research interests are focused on studying the relationship between microstructure and the functional properties of materials. In my daily work, I use research techniques offered by the scanning electron microscope (SEM), i.e. EDS, EBSD, FIB-SEM, combining them with electrical and mechanical measurements of materials.	
<b>Exemplary thesis titles</b> <ul style="list-style-type: none"><li>- 3D reconstruction of the porous SOFC cathode using FIB-SEM tomography.</li><li>- Evaluating microstructure evolution in a SOFC electrode using SEM images and stereological calculations.</li></ul>	
<b>The form of conducting master's theses</b> Students participate in weekly meetings with the supervisor where the research progress and plans for the next week's are presented.	