

Advanced Electroanalytical Methods II
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Electrochemistry of Surface Confined Species

- The ideal case (Langmuir isotherm) and deviations
- Diffusion-reaction processes
- Bio-electrochemistry

Local Electrochemistry

- Electrochemistry at microelectrodes
- Scanning electrochemical microscopy
- Beyond classic scanning electrochemical microscopy

Electrochemistry at the Nanoscale

- Mass transport & kinetics at heterogeneous electrodes
- Applications of nanoparticle-modified electrodes
- Single-Nanoparticle Electrochemistry

Electrocatalysis – Theory and Application

- Electrocatalysis - theory and practice
- Methods in electrocatalysis research (DEMS, ICP-MS, FTIR, Raman, etc)
- Applications (Electrochemistry and Electrocatalysis of CO₂, O₂ and H₂)

Time: Thursday 10:00 - 12:00

First lecture: Thursday, 20.04.2017, 10 a.m.

Room: ND 5/99

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12. Apr. 2017

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