

Scanning Electron Microscopy (SEM)



FE-SEM SU-70 (Hitachi)
SEM+EDS+EBSD

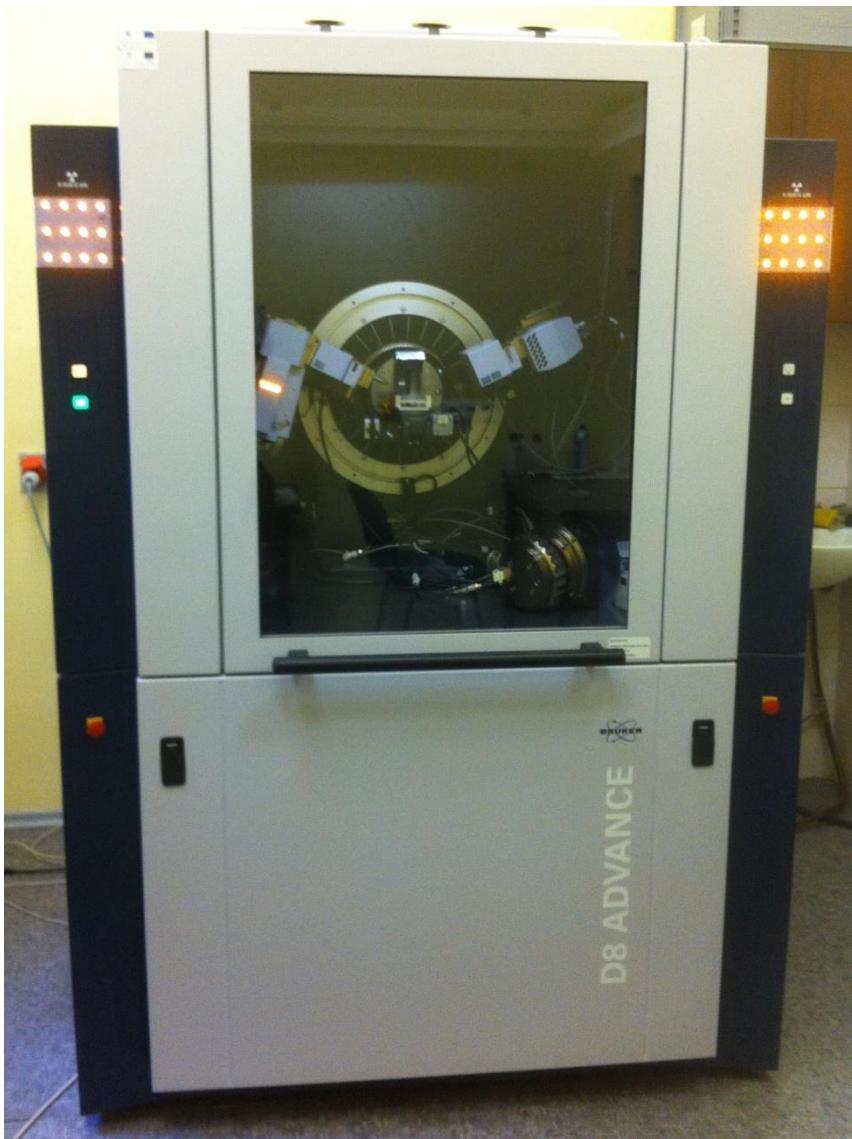


Tabletop SEM
TM3000 (Hitachi)
SEM+EDS

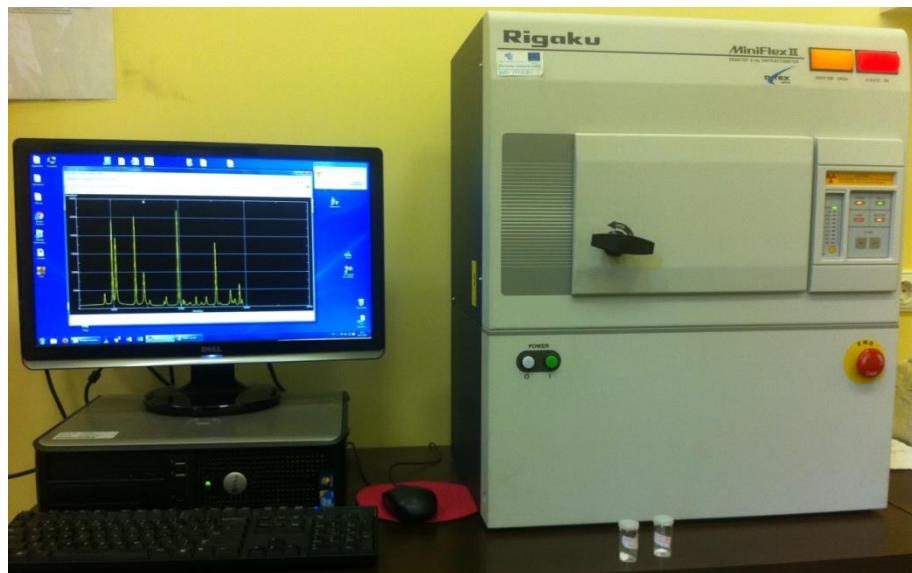


Turbo-sputter Quorum Q150T ES

X-Ray Diffraction(XRD)

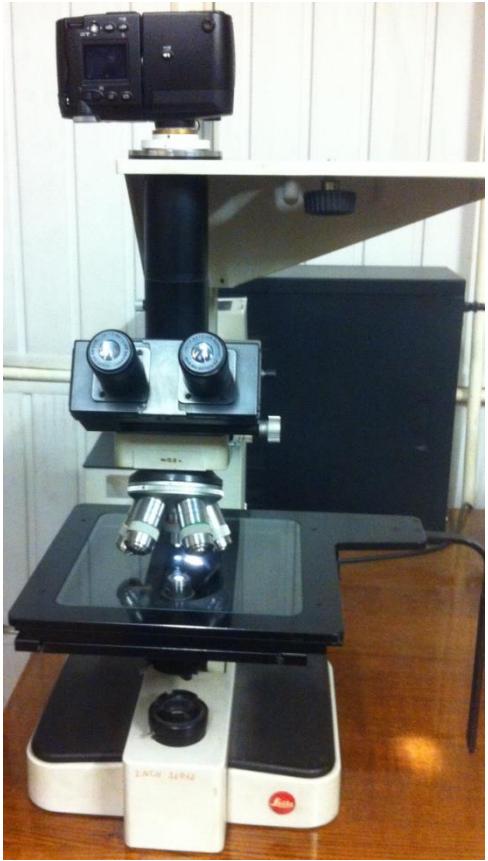


D8 Advance(Bruker)
XRD, XRR, Texture, High-T XRD



Tabletop XRD MiniFlex II (Rigaku)

Optical Microscopy and Elipsometry



Optical microscope (Leitz)



Optical microscope BX51
(Olympus)

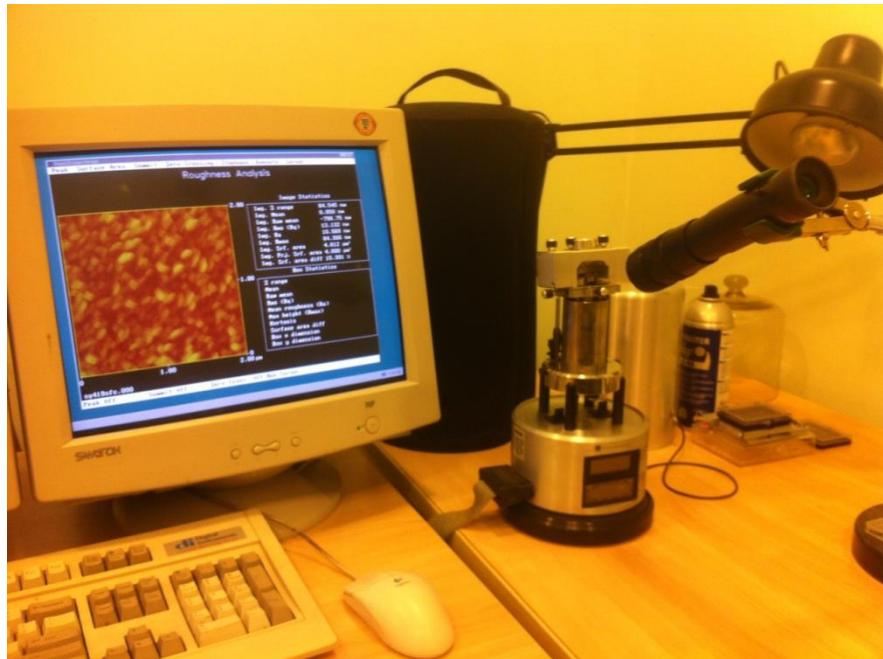


System ALPHA300 (WiTec)
Raman, AFM, and SNOM
imaging in a single
instrument



Woollam ellipsometer M-2000

Atomic Force Microscopy and Profilometry



Veeco Multimode SPM
AFM (contact and taping modes)
STM

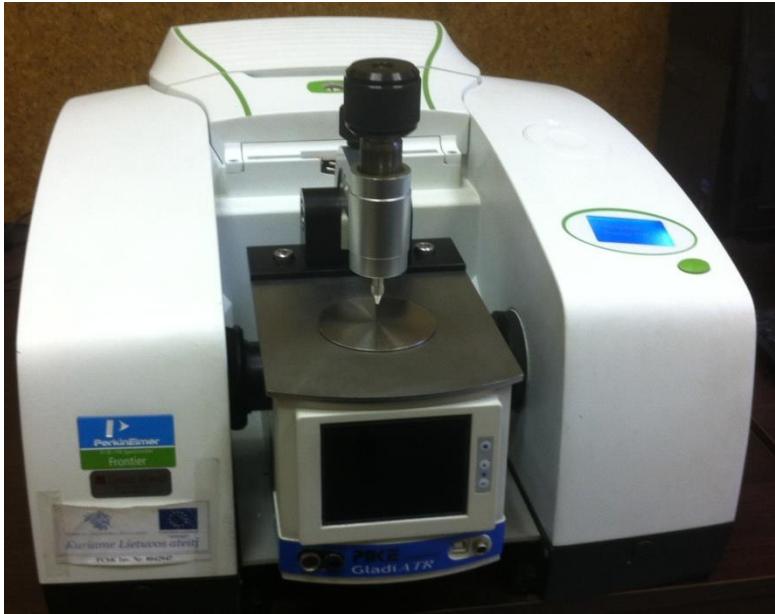


System ALPHA300 (WiTec)
Raman, AFM, and SNOM
imaging in a single
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Profilometer
Talystep
(Taylor-Hobson)

Spectroscopy



FT-IR spectrometer Frontier
(PerkinElmer)



UV-Vis Lambda 35 (PerkinElmer)



UV-Vis-mid-IR spectrometer Cary 5000 (Agilent)

Fluorescence spectrometry



Fluorescence spectrometer LS 55
(PerkinElmer)



Fluorescence spectrometer FLS 980
(Edinburgh Instruments)

Thermal analysis



Pyris 1 TGA + Clarus 600T GS/MS
(PerkinElmer)

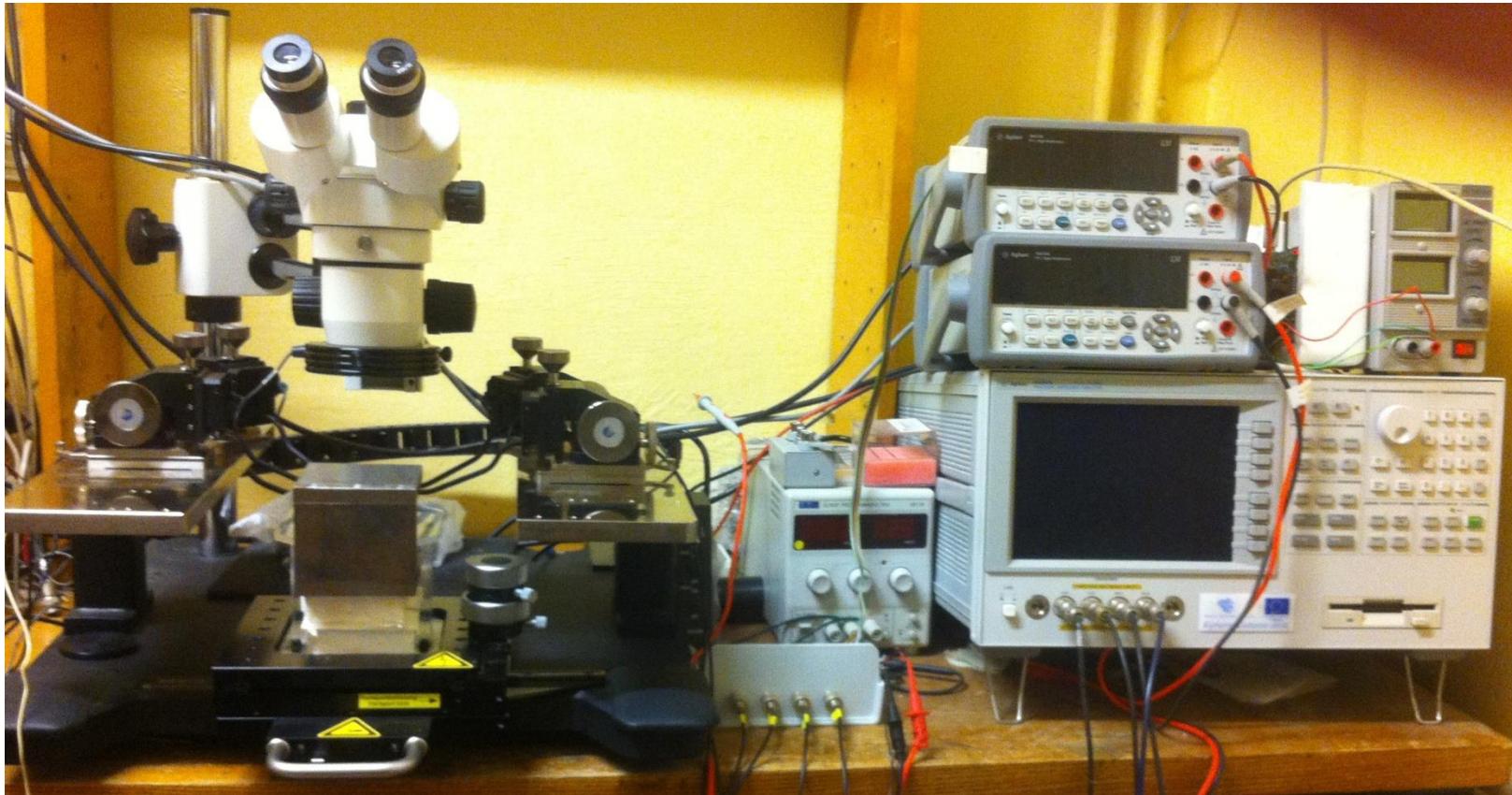


Differential Scanning Calorimeter DSC 8500
(PerkinElmer)

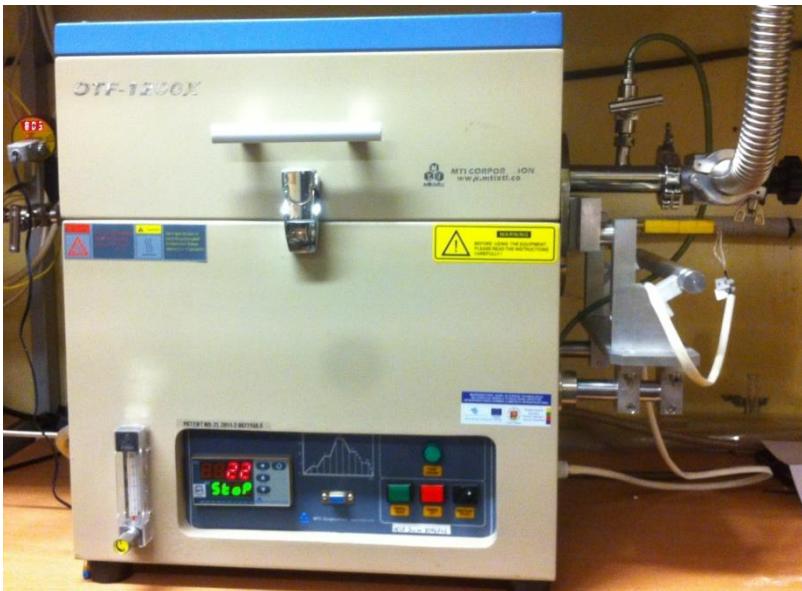


Simultaneous Thermal Analyzer STA 6000
TGA-DTA-DSC (PerkinElmer)

Electrical measurements (including Hall effect measurements)



Rapid thermal annealing (RTA) Inert atmosphere glove box



Compact RTP Furnace OTF-1200X
(MTI Corporation)



Glove box Jacomex GP(CONCEPT)-T2