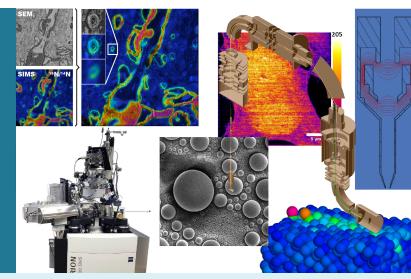
Advanced Instrumentation for Nano-Analytics



The Advanced inhormentation for Name Analysis (*) (ANIX) group focuses on the development of control, inclination and control and analysis of the inhormentation of an inhorment. The group's NAO activity covers fundamental investigations, inhorment development and application development of control, inclination and analysis of the inhormentation and multi-adolespies developed by ANIX as a control analysis of the inhormentation and analysis of the inhormentation and multi-adolespies developed by ANIX as a control analysis of the inhormentation and analysis of the inhormen

nano-anarysis in-situ process control for nano-fabrication neutral gas, plasma & liquid flow diagnostics



ur research activities are performed in cooperation with leading international instrument manufacturers and with research groups specialized in the relevant fields.

harged particle optics aser physics

instrument development and prototyping fincluding mechanics, electronics, software developmen

e development of innovative characterization tools is of paramount importance to

rvelopment of new hardware to improve following aspects of nano-analytics - Lateral resolution

volugiment of eventual recommendation and an extension of extension of

rstruments for correlative micr

strumentation for name-analytics orrelative methodologies and workflows in materials science and life scienc lata breatment and visualization for correlative microscopy

Data treatment and visualization for correlative microscopy Particle – matter interactions for ion microscopy

Experienced and multidisciplinary team Expertise covering the full spectrum re

red and multidisciplinary team covering the full spectrum required to turn innovative concepts and ideas into prototype instruments n collaborations with world-leading instrument manufacturers



quipment

ORION NanoFab HIM equipped with in-house developed SIMS, STIM, on Siches Scien Dunillanes equipped with in-house developed SIMS.

Thermo Fisher Scios DualBeam equipped with in-house developed SIMS Thermo Fisher Tecnal F20 TEM equipped with in-house developed SIMS Pronture MS for field portable and soare agents atlants

in house build He-STIM microscope for ion transmission studies (Galileo)
Test benches for charged particle optics instrumentation
specialized infrare how for roun representation and carmile transfer numerous

alised glove box for cryo preparation and sample transfer purposes type coherent Rayleigh Brillouin scattering laser (2.5 j/pulse, 10GHz chirp rate trans Proportite (1.8) of 1064 nm. 1.11 e653/hm).

Sirah Precision scan (200-900nm) Toptica FemtoFibre ultra 1050

leview papers and book chapters

ang Q. H.; Wirtz T. Highest resolution chemical imaging based on secondary ion mass spectrometry performed on the helium ion microscope. Rep. Prog. Phys. 2021, 84, 10591

10.1088/1361-6633/AC1E32
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Intr. T. Cowsett D. Philipp, P. SHIS on the Helium Ion Microscope: A Powerful Tool for High-Resolution High-Sensitivity Nano-Analytics. In Helium Ion Microscopy; Hawacek, G., Gilzhiluser, A., Eds.; Springer International Publishing Switzerland, 2016 to 1.0.1007/078-3.319-4.1500-0.13 Intr. T.: Philipp. P. Judonst. L. H.: Dowest. D.: Exwara. S. Hoth-Resolution High-Sensitivity Elemental Imaging by Secondary Ion Mass Selectrometry- From Traditional 20 and 30 Imaging to Certaildrew Microscopy. Nanotochnology 2015. 26 (43). 43-00.

Partenaires

ispace Europe, Luxembourg, Photonis, The Netherlands, RAITH, Surface Concept, Germany, Thermo Fisher, The Netherlands, Zeiss, Germany, Zeiss PCS, USA, zeroK, US

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