Details

Dresden Center for Nanoanalysis (DCN)

The Dresden Center for Nanoanalysis (DCN) is an interdisciplinary technology platform of Technische Universität Dresden (TUD) and the Center for Advancing Electronics Dresden (cfaed). Core competences are the development, optimisation and application of imaging techniques in the field of nanoscale materials analysis and the analysis of kinetic processes in materials and structures down to the atomic scale. For the analysis of whole devices, high-resolution 3D X-Ray tomography can be applied.

Address: Helmholtzstraße 18
01069 Dresden
Sachsen
Deutschland
To website

Host Institution

Technische Universität Dresden
01062 Dresden
Sachsen
Deutschland
http://www.tu-dresden.de
Center for Advancing Electronics Dresden (cfaed)
Würzburger Straße 46
01187 Dresden
Sachsen
Deutschland
http://www.cfaed.tu-dresden.de

Scientific Domain

Primary Subjects:
- Materials Science and Engineering

Secondary Subjects:
- Chemistry
- Physics
- Mechanical and Industrial Engineering

Category

Micro- and Nanotechnology facilities

Scientific Services

The Dresden Center for Nanoanalysis (DCN) performs electron and X-Ray microscopic service work for TUD-internal and external costumers. Three experienced scientists and engineers are responsible for the service work with competences in (high resolution) TEM and STEM, analytical techniques (EDX, EELS), electron diffraction, scanning electron microscopy (SEM), sample preparation, electron and X-Ray tomography and nanostructuring with focused ion beams. Data evaluation and reports can be provided on request. User regulations and fees are posted on the DCN website.

Scientific Equipment

- FEI Helios 660 with FIB
- Gemini 500 with EDX/EBSD
- Xradia Versa 520

Keywords

- Scanning electron microscopy (SEM)
- Electron diffraction
- Scanning transmission electron microscopy (STEM)
- Transmission electron microscopy (TEM)
- Semiconductors
- X-Ray tomography
- Focussed ion beam (FIB)

Networks

Dresden concept
http://www.dresden-concept.de

Users per annum

Internal Users: 9
External Users in total: 27
External Users: 15
External Users in the EU: 7
External Users outside of EU: 5

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