

Raman microscope DXR



Technical description:

The DXR Raman microscope by Thermo Scientific, with a grating spectrometer and a CCD detector, enables the recording of spectra in the range of $50 \div 3300 \text{ cm}^{-1}$.

Equipment:

- Lasers: 780 nm (max. power 24mW) and 532nm (max. power 10mW)
- Optical reflected light microscope with objectives: 10x, 20x, 50x, 100x
- Confocal optical path to the spectrometer
- xyz stage

Trade name: Raman microscope DXR Thermo Scientific

More details: </equipment/mikroskop-ramana/>

Access type: External

Type of accreditation / certificate: Not applicable

Contact person: Bajda Tomasz

Contact person url: <https://skos.agh.edu.pl/osoba/tomasz-bajda-5644.html>

Responsible body: Wydziałowe Laboratorium Badań Fazowych, Strukturalnych, Teksturalnych i Geochemicznych

Group / laboratory / team: The Faculty Laboratory for Phase, Structural, Textural and Geochemical Studies

Last update date: June 1, 2023, 6:02 a.m.

Year of commissioning: 2012

IDUB research areas:

(PRA 5) Materials, technologies, and processes inspired by nature: biotechnology, bioinspirations in engineering and materials science, biosensors, bioenergetics, biocatalysis, biocomputers, and biocomputation

(PRA 7) Design, production, and testing of modern materials and the technologies of the future based on a multidisciplinary approach combining materials engineering with chemistry, physics, mathematics, and medicine

Research capabilities:

Testing of solid samples: minerals, rocks, sorbents, catalysts, etc..

Examination of solid, liquid and gaseous inclusions in mineral samples.

Conditions for providing infrastructure:

- according to the regulations listed on the laboratory's website: <http://wydzlab.agh.edu.pl/wp-content/uploads/2020/11/Regulamin-WLBFSTiG.pdf> - scientific and research cooperation with AGH units and other domestic and foreign scientific units - cooperation within the projects of NCN, NCBiR, cooperation with industry and under contracts