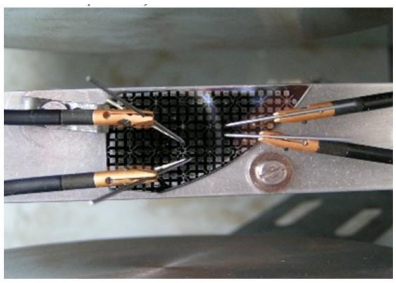
Our services

Electrical measurement of thin films and devices



YOUR NEEDS

- Measurement of the electrical resistance (thin films from 1 nanometer to 1 micrometer)
- Measurement of the electrical resistance under unidirectional or rotating magnetic fields from 0 to 9 Tesla
- Measurement of the electrical resistance using 2 or 4 probes method
- Measurement on a chip or with tips
- Measurement of electrical impedance up to 40 GHz
- Measurement of DC and AC electrical impedance from 10K to 350K
- Measurement of the electrical resistance from 300K to 1000K
- Measurement of a DC electrical resistance of values between few mW and 1 GW
- Connection with a network of national and European magnetometry centers

RELATED SKILLS

- Ferromagnetic resonance measurements (FMR)
- Measurement of magnetic properties
- Growth of nanomaterials
- Chemical characterization (Spectroscopies, etc.)
- Structural characterization:
  - Electron microscopy
  - X-ray diffraction
  - AFM

OUR SOLUTIONS

- Provide our skills and tools to support you in your innovation process
- Measurements under various conditions (temperature, pressure, magnetic field)
- Use our instrument park
- Offers eligible for Research Tax Credit

OUR REFERENCES

KEYWORDS

Electrical Measurement, Under-Peak Station, Giant Magnetoresistance (GMR), Tunnel Magnetoresistance (TMR), FMR, Hall Effect

CONTACT

- Contact the research group:

michel.hehn@univ-lorraine.fr

+33 3 72 74 25 69

- Contact the technology transfer office (TTO):

ijl-tto@univ-lorraine.fr

+33 3 72 74 26 04