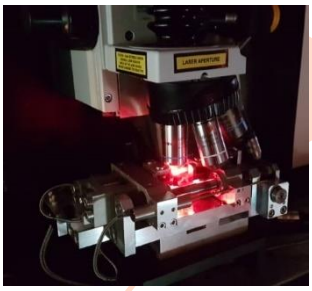
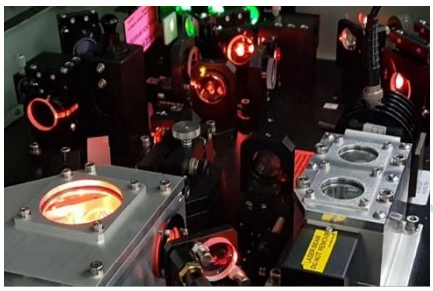
OUR SERVICES

Spectroscopies UV-Visible-nIR, Infrared FTIR, Raman & Brillouin





YOUR NEEDS

- Characterization of the optical properties of your materials
- Structural characterization and physico-chemical analysis through the study of vibration bands at different wavelengths
- Expertise and knowledge in the field of vibrational spectroscopy

RELATED SKILLS

- Magnetic properties characterization
- Electrical and thermal properties characterization
- Structural characterization:
  - Electron microscopy (SEM – TEM)
  - X-ray diffraction
  - Atomic force microscopy (AFM)

OUR SOLUTIONS

- Qualitative and semi-quantitative analyzes of the optical properties of your materials (solids, liquids) by spectroscopy(%R, %T, %T,α_s, ε…).
- UV Visible-nIR spectrometer (range: 175 – 3300 nm)
- Infrared spectrometer (range: 350 – 4000 cm^{-1})
- Raman spectrometer (range: 50 – 4000 cm^{-1})
- Brillouin spectrometer (range: $3.3.10^{-2}$ – 6,7 cm^{-1})
- Brillouin spectrometer under magnetic field (2T)
- Measurement can be done in temperature (4K – 1474K)

OUR REFERENCES

BASF The Chemical Company

VIESMANN

fives

SAINT-GOBAIN

ArcelorMittal

KEYWORDS

Vibrational spectroscopy, optics, lasers, UV-Visible-near infrared, Infrared, Raman, Brillouin, optical and structural characterizations

CONTACT

- Contact the research group:

Sebastien.hupont@univ-lorraine.fr

+33 3 72 74 25 25

- Contact the technology transfer office (TTO):

ijl-tto@univ-lorraine.fr

+33 3 72 74 26 04