

## New perspectives for demanding applications of Molecular Spectroscopy

Diego Sali<sup>1</sup>, P. Morini<sup>1</sup>,  
<sup>1</sup>*Bruker Italia S.r.l., Viale Vincenzo Lancetti, 43 20158 Milan, Italy*

Email: [diego.sali@bruker.com](mailto:diego.sali@bruker.com)

Molecular spectroscopy is an important analytical area with wide impact and extent. In this field, Raman and Infrared spectroscopies are powerful and complementary techniques, with an extensive use spanning from biomedical, pharmaceutical and material sciences, to name a few.

In last decades applications related to material sciences and basic research have become more and more demanding about several topics, like the possibility to probe the THz spectral range with accessible instrumentations or tools or to perform standard far field microspectroscopy down to the diffraction limit. Today all the latest technologies have been applied by Bruker to IR and Raman Spectrometers, and for the first time a hybrid technology is used into commercial spectrometer to cover a really broad spectral range from UV to sub-THz. The new CW technology will be presented, showing the unmatched performances for a benchtop spectrometer, based on FT technique.

Also new features related to  $\mu$ Raman and  $\mu$ FT-IR spectrometers will be shown as well.

