

Clathrate hydrate sensing using terahertz spectroscopy

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A method for detection and identification of clathrate hydrate based on the technique of terahertz time-domain spectroscopy is presented. This relatively new technology promises to be the first portable far-infrared spectrometer, providing a means for real-time spectroscopic measurements over a broad bandwidth up to several THz. In this study preliminary results of THz analysis of THF hydrates with various gases are presented.