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Title:Visualization of Pharmaceutical Drug Molecules by Terahertz Chemical Imaging

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Abstract:Terahertz spectroscopy allows the detection and identification of various molecular networks of chemical bond interactions, including those of hydrogen bonds. In this article, we explain terahertz time-domain spectroscopy, the principles of terahertz chemical imaging, and a multicomponent quantitative analysis method for amino acids that can visualize pharmaceutical crystalline polymorphs as an example of this technology.

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