

# Infrared spectroscopic insight into solid-state transformations

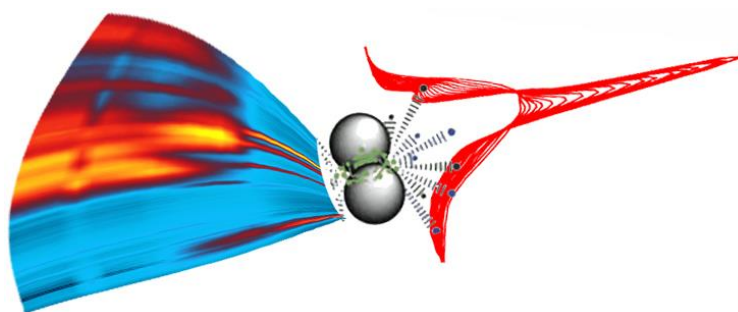
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Infrared spectroscopy provides a detailed insight into molecular background of various chemical systems. From the practical point of view, the technique is widespread, not expensive and easy to use. However, it is almost exclusively used just to obtain a basic information on the system under consideration within the materials science community. The purpose of this report is to illustrate the power of this technique on a few examples of solid-state chemical systems, including monitoring of the progress of mechanochemical preparations,[1,2] exfoliations, thermally induced decompositions,[1,3] gas sorption [3] and solid state diffusion-driven processes.[2,4]



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