

## **Solid State NMR Techniques Applicable to Material Science Research**

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Solid state NMR techniques has been applied to a variety of materials such as polymers, ceramics, semiconductors, high Tc superconductors, and metals to probe three dimensional electronic and molecular structures as well as dynamic properties. One of the strengths of solid state NMR is that no long range order in the sample is required. High selectivity by the chosen nuclear to observe and a wide range of correlation time observable are also merits of the solid state NMR.

In the talk, some research results of solid state NMR study applied to materials such as polymers, inorganic complex compounds, semiconductors, and metal particle catalysts will be presented. In addition, summary of modern solid state NMR techniques applicable to material Science research will be given.