

NMR Crystallography: A Perspective

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Solid-state NMR methods lead to a variety of structural information in various materials. These can be of use in both periodic and amorphous materials. Structural information can be obtained in terms of NMR parameters such as distances, coupling constants, bond angles, and torsion angles. A variety of NMR-active nuclei have been targeted in the field of NMR crystallography yielding insights in materials ranging from zeolites, polymers, to catalysts. Both spins-1/2 and quadrupolar spin nuclei have been the subjects of investigation. The talk will give an overview of the NMR methods used in the area of NMR crystallography together with some select applications.

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