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Solid-state NMR (SSNMR) spectroscopy is a kind of nuclear magnetic resonance (NMR) spectroscopy, characterized by the presence of anisotropic (directionally dependent) interactions. Ultrafast laser spectroscopy is a spectroscopic technique that uses ultrashort pulse lasers for the study of dynamics on extremely short time scales (attoseconds to nanoseconds). The key features of both catalytic cycles are similar. Alkene coordination to the metal followed by insertion to yield an alkyl-metal complex and CO 'insertion' to yield an acyl-metal complex are common to both catalytic cycles. Cox IJ. Development and applications of in vivo clinical magnetic resonance spectroscopy. Prog in Biophys Mol Biol. 1996;65(1-2):45-81. Duncan JS., Understanding Nmr Spectroscopy Second Edition.

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