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Research Interests: solution state nuclear magnetic resonance spectroscopy of small molecules



The explosive growth of NMR spectroscopy during the last five decades is reflected in the vast number of applications. Nowadays, NMR spectroscopy represents the most versatile and informative technique for the elucidation of structures, dynamics and kinetics in solution. However, this rapid development means that only a fraction of the analytical potential offered by modern NMR spectroscopy is usually exploited by the research chemists. My role is to maintain the NMR facility in St Andrews and cooperate with various researchers within the School of Chemistry, the Centre of Bimolecular Sciences and Sasol Technology Research Laboratory. Thus, I participate in various scientific projects as a NMR specialist and try to encourage research chemists and students to utilise modern NMR techniques.



RECENT PUBLICATIONS

1. A Comparative Assessment of the Effect of the Lewis Acidity of the Central Tin Atom on Intramolecular Coordination of (3-Methoxypropyl)stannanes. T. Lébl, P. Zoufalá, C. Brun *Eur. J. Inorg. Chem.* 2005, 2536-2544.
2. Monomeric Triorganotin(IV) Fluorides Containing a C,N-Chelating Ligand. J. Bareš, P. Novák, M. Nádvorník, R. Jambor, T. Lébl, I. Císařová, A. Růžička, J. Holeček *Organometallics* 2004, **23**, 2967-2971.
3. Kinetics of the Protodestannylation of Substituted Vinylstannanes. Dymák, J. Holeček T. Lébl *Main Group Met. Chem.*, 2004, **27**, 33-50.
4. Synthesis, structural study, in vitro antitumour and trypanocidal activity of tetrakis(3-methoxypropyl)- tin and (3-methoxypropyl)tin chlorides. T. Lébl, A. Smička, J. Brus, C. Bruhn *Eur. J. Inorg. Chem.*, 2003, 143-148.
5. Reinvestigation of reaction of (2-ethoxyvinyl)stannanes with acetyl bromide. T. Lébl, J. Holeček, M. Dymák, D. Steinborn *Collect. Czech. Chem. Commun.*, 2002, **67**, 587-591.
6. Synthesis, Characterisation and Reactivity of 2-Functionalised vinylstannanes. T. Lébl, D. Steinborn, J. Holeček, M. Dymak *J. Organomet. Chem.*, 2001, **625**, 86-94.