



Glaser, Jameson publish article in 'ChemistrySelect'

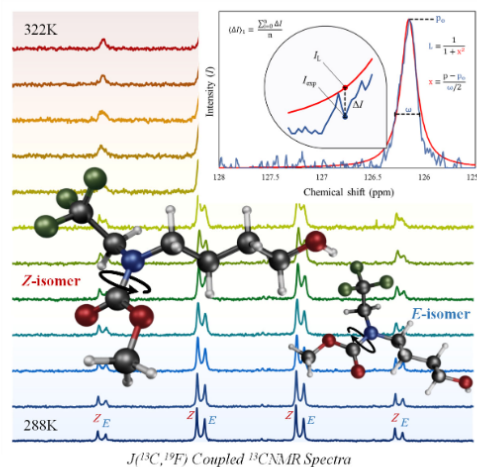
Posted by Kimber Crull

On May 7, 2024

Dr. Brian Jameson, a former Ph.D. student in chemistry, and [Dr. Rainer Glaser](#), professor of chemistry, published an article titled "[VT-NMR Analysis of Rotation-Inversion of N-\(4-hydroxybutyl\)-N-\(2,2,2-trifluoroethyl\) tert-butyl Carbamate: Utilizing the -CH₂CF₃ Appendage as a Reporter on E/Z-Isomerization](#)," in the *ChemistrySelect*, a journal for original authoritative cross-disciplinary research.

In this paper, the authors describe results of physical-organic studies by variable-temperature (VT) nuclear magnetic resonance (NMR) spectroscopy. The results present a contribution to the field of intramolecular dynamics and the electronic structures of carbamates and, more generally, the new methods for advanced line shape analysis present a major conceptual advance to the evaluation of VT-NMR studies.

The image shows J(¹³C,¹⁹F) coupled ¹³C NMR spectra as a function of temperature and the insert sets the stage for the innovative Lorentzian line shape analysis informed by data covering the entire temperature range.



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