



JOURNAL OF MAGNETIC RESONANCE

The official journal of the [International Society of Magnetic Resonance \(ISMAR\)](#)

AUTHOR INFORMATION PACK

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DESCRIPTION

The *Journal of Magnetic Resonance* presents original technical and scientific papers in all aspects of **magnetic resonance**, including **nuclear magnetic resonance spectroscopy** (NMR) of solids and liquids, electron spin/**paramagnetic resonance** (EPR), *in vivo* **magnetic resonance imaging** (MRI) and spectroscopy (MRS), **nuclear quadrupole resonance** (NQR) and magnetic resonance phenomena at nearly zero fields or in combination with optics. The *Journal's* main aims include deepening the physical principles underlying all these spectroscopies, publishing significant theoretical and experimental results leading to spectral and spatial progress in these areas, and opening new MR-based applications in chemistry, biology and medicine. The *Journal* also seeks descriptions of novel apparatuses, new experimental protocols, and new procedures of data analysis and interpretation - including computational and quantum-mechanical methods - capable of advancing MR spectroscopy and imaging.

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[1] R.L. Haner, W. Llanos, L. Mueller, Small volume flow probe for automated direct-injection NMR analysis: design and performance, *J. Magn. Reson.* 143 (2000) 69-78.

[2] R.R. Ernst, G. Bodenhausen, A. Wokaun, *Principles of Nuclear Magnetic Resonance in One and Two Dimensions*, Clarendon Press, Oxford, 1987.

[3] A. Bax, S. Grzesiek, Methodological advances in protein NMR, in: G.M. Clore, A.M. Gronenborn (Eds.), NMR of Proteins Macmillan, London, 1993, pp. 33-52.

[4] M. Oguro, S. Imahiro, S. Saito, T. Nakashizuka, Mortality data for Japanese oak wilt disease and surrounding forest compositions, Mendeley Data, v1, 2015. <http://dx.doi.org/10.17632/xwj98nb39r.1>

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