

Volume 25  
Numbers 1–3  
January  
2004

# Solid State Nuclear Magnetic Resonance

An International Journal

Special Issue: 31st Congress Ampere, Magnetic Resonance  
and Related Phenomena, July 14–19, 2002, Adam  
Mickiewicz University, Poznan, Poland

Guest Editors: Stefan Jurga and Narcyz Pislewski

## Contents

Molecular dynamics in solid pyridoxine as studied by $^1\text{H}$ NMR <i>S. Główkowski, B. Peplińska, and S. Jurga</i>	1
Dynamic aspect of bacteriorhodopsin as a typical membrane protein as revealed by site-directed solid-state $^{13}\text{C}$ NMR <i>Hazime Saitō, Satoru Yamaguchi, Hideyasu Okuda, Aya Shiraishi, and Satoru Tuzi</i>	5
Calculation of dipolar correlation function in solids with internal mobility <i>P. Bilski, M. Olszewski, N.A. Sergeev, and J. Wąsicki</i>	15
NMR and inelastic incoherent neutron scattering (IINS) studies of monohydroxy-17 and -21-substituted derivatives of progesterone <i>A. Szyczewski, K. Hołderna-Natkaniec, and I. Natkaniec</i>	21
Visualization of transport: NMR microscopy experiments with model objects for porous media with pore sizes down to 50 $\mu\text{m}$ <i>Elke Kossel, Markus Weber, and Rainer Kimmich</i>	28
The swelling properties of hydroxypropyl methyl cellulose loaded with tetracycline hydrochloride: magnetic resonance imaging study <i>Joanna Kowalcuk, Jadwiga Tritt-Goc, and Narcyz Piślewski</i>	35
NMR study of molecular dynamics in selected hydrophilic polymers <i>Adam Rachocki, Jadwiga Tritt-Goc, and Narcyz Piślewski</i>	42
Proton longitudinal NMR relaxation of poly( <i>p</i> -phenylene sulfide) in the laboratory and the rotating frames reference <i>J. Jurga, A. Woźniak-Braszak, Z. Fojud, and K. Jurga</i>	47
Investigation of metabolic changes in irradiated rat brain tissue by means of $^1\text{H}$ NMR in vitro relaxation study <i>Maria Sokół, Waldemar M. Przybyszewski, and Bożena Matlaś</i>	53
Comparative experimental analysis of composite pulses in $^{14}\text{N}$ NQR <i>V.T. Mikhaltsevitch, T.N. Rudakov, J.H. Flexman, P.A. Hayes, and W.P. Chisholm</i>	61
NMR relaxation dispersion of vulcanized natural rubber <i>Sobiroh Kariyo and Siegfried Stapf</i>	64



0926-2040(200401)25:1-3;1-U