

JOURNAL OF MAGNETIC RESONANCE

CONTENTS

Volume 161, Number 1, March 2003

REGULAR ARTICLES

- 1 **Parametric and non-parametric statistical analysis of DT-MRI data**
Sinisa Pajevic and Peter J. Basser
- 15 **Single excitation multiple image RARE (SEMI-RARE): ultra-fast imaging of static and flowing systems**
A.J. Sederman, M.D. Mantle, and L.F. Gladden
- 25 **Multi-exponential analysis of magnitude MR images using a quantitative multispectral edge-preserving filter**
Jean-Marie Bonny, Odile Boespflug-Tanguly, Michel Zanca, and Jean-Pierre Renou
- 35 **Powder pattern recoupling at 10 kHz spinning speed applied to cellulose**
R. Witter, St. Hesse, and U. Sternberg
- 43 **Multiple-quantum magic-angle spinning spectroscopy using nonlinear sampling**
David Rovnyak, Claudiu Filip, Boris Itin, Alan S. Stern, Gerhard Wagner, Robert G. Griffin, and Jeffrey C. Hoch
- 56 **Selective polarization inversion of protons in rotating solids**
Gil Goobes, Elena Vinogradov, and Shimon Vega
- 64 **Hydration-optimized oriented phospholipid bilayer samples for solid-state NMR structural studies of membrane proteins**
Francesca M. Marassi and Kevin J. Crowell
- 70 **Flow encoded NMR spectroscopy for quantification of metabolite flow in intact plants**
Michael Szimtenings, Silvia Olt, and Axel Haase
- 77 **Magnetically aligned phospholipid bilayers in weak magnetic fields: optimization, mechanism, and advantages for X-band EPR studies**
Thomas B. Cardon, Elvis K. Tiburu, and Gary A. Lorigan
- 91 **Using NMR to study full intact wine bottles**
A.J. Weekley, P. Bruins, M. Sisto, and M.P. Augustine
- 99 **Calculation of electric fields induced by body and head motion in high-field MRI**
Feng Liu, Huawei Zhao, and Stuart Crozier
- 108 **Detection of acoustic waves by NMR using a radiofrequency field gradient**
Guillaume Madelin, Nathalie Baril, Czeslaw J. Lewa, Jean-Michel Franconi, Paul Canioni, Eric Thiaudiére, and Jacques D. de Certaines
- 112 **Applications of fast diffusion measurement using Difftrain**
C. Buckley, K.G. Hollingsworth, A.J. Sederman, D.J. Holland, M.L. Johns, and L.F. Gladden

COMMUNICATION

- 118 **Protein dynamics using frequency-dependent order parameters from analysis of NMR relaxation data**
Djaudat Idiyatullin, Vladimir A. Daragan, and Kevin H. Mayo

Abstracting and indexing coverage for the *Journal of Magnetic Resonance* includes Adonis UK, Chemical Abstracts, INSPEC UK, ISI's Science Citation Index, and Index Medicus (MEDLINE)