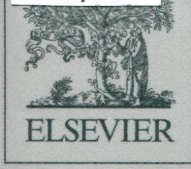
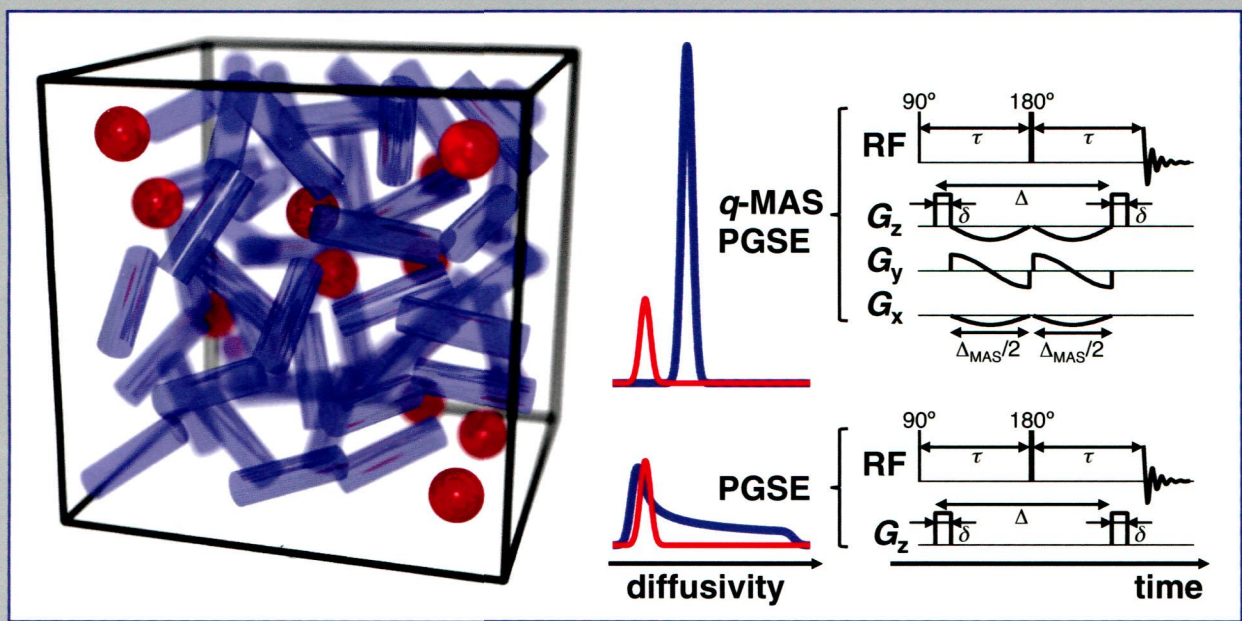


174
Y80/mr



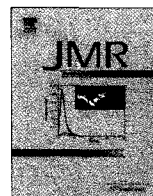
JMR

Journal of Magnetic Resonance



As opposed to standard PGSE, the new q-MAS PGSE pulse sequence by Eriksson et al gives a diffusion weighting that depends solely on the trace of the local diffusion tensor. The observed pore water diffusivity is thus independent of orientation, yielding narrow distributions even for an ensemble of randomly oriented non-spherical cells such as axons.

Editor: Lucio Frydman



Volume 226, January 2013

CONTENTS

COVER ARTICLE

- 13 **Isotropic diffusion weighting in PGSE NMR by magic-angle spinning of the q -vector**
Stefanie Eriksson, Samo Lasic, Daniel Topgaard

REGULAR ARTICLES

- 1 **^2H - ^{13}C HETCOR MAS NMR for indirect detection of ^2H quadrupole patterns and spin-lattice relaxation rates**
Xiangyan Shi, Jeffery L. Yarger, Gregory P. Holland
- 19 **Constant-time chemical-shift selective imaging**
Marianne Giesecke, Sergey V. Dvinskikh, István Furó
- 22 **Multidimensional excitation pulses based on spatiotemporal encoding concepts**
Jean-Nicolas Dumez, Lucio Frydman
- 35 **Using spin-label W-band EPR to study membrane fluidity profiles in samples of small volume**
Laxman Mainali, James S. Hyde, Witold K. Subczynski
- 45 **Longitudinal NMR parameter measurements of Japanese pear fruit during the growing process using a mobile magnetic resonance imaging system**
Yuto Geya, Takeshi Kimura, Hirotaka Fujisaki, Yasuhiko Terada, Katsumi Kose, Tomoyuki Haishi, Hiroshi Gemma, Yoshihiko Sekozawa
- 52 **Full relaxation matrix analysis of apparent cross-correlated relaxation rates in four-spin systems**
Beat Vögeli
- 64 **Rotor design for high pressure magic angle spinning nuclear magnetic resonance**
Romulus V.F. Turcu, David W. Hoyt, Kevin M. Rosso, Jesse A. Sears, John S. Loring, Andrew R. Felmy, Jian Zhi Hu
- 70 **Flanged-edge transverse gradient coil design for a hybrid LINAC-MRI system**
Limei Liu, Hector Sanchez-Lopez, Feng Liu, Stuart Crozier
- 79 **Improved encoding pulses for Bloch-Siegert B_1^+ mapping**
Marcin Jankiewicz, John C. Gore, William A. Grissom
- 93 **Metabold: A graphical user interface package for assignment of ^1H NMR spectra of bodyfluids and tissues**
Neil MacKinnon, Bagganahalli S. Somashekar, Pratima Tripathi, Wencheng Ge, Thekkelnaycke M. Rajendiran, Arul M. Chinnaiyan, Ayyalusamy Ramamoorthy
- 100 **Solid state nuclear magnetic resonance with magic-angle spinning and dynamic nuclear polarization below 25 K**
Kent R. Thurber, Alexey Potapov, Wai-Ming Yau, Robert Tycko

COMMUNICATION

- 88 **Robust and efficient ^{19}F heteronuclear dipolar decoupling using refocused continuous-wave rf irradiation**
Joachim M. Vinther, Navin Khaneja, Niels Chr. Nielsen