

REGULAR ARTICLES

- 1 Single point measurements of magnetic field gradient waveform**
David J. Goodyear, Maurice Shea, Steven D. Beyea, Nadim J. Shah, and Bruce J. Balcom
- 8 Application of optimal control theory to the design of broadband excitation pulses for high-resolution NMR**
Thomas E. Skinner, Timo O. Reiss, Burkhard Luy, Navin Khaneja, and Steffen J. Glaser
- 16 A PGSE study of propane gas flow through model porous bead packs**
S.L. Codd and S.A. Altobelli
- 23 Simplified model and stabilization of SSFP sequences**
Patrick Le Roux
- 38 Two-dimensional imaging with a single-sided NMR probe**
F. Casanova and B. Blümich
- 46 Separated local field spectroscopy of columnar and nematic liquid crystals**
Sergey V. Dvinskikh, Herbert Zimmermann, Arnold Maliniak, and Dick Sandström
- 56 Fast multi-dimensional Hadamard spectroscopy**
Ēriks Kupčē and Ray Freeman
- 64 Efficient 5QMAS NMR of spin-5/2 nuclei: use of fast amplitude-modulated radio-frequency pulses and cogwheel phase cycling**
Thomas Bräuniger, Kevin J. Pike, Robin K. Harris, and P.K. Madhu
- 73 Slice-selective *J*-coupled coherence transfer using symmetric linear phase pulses: applications to localized GABA spectroscopy**
Jun Shen
- 81 CPMG relaxation by diffusion with constant magnetic field gradient in a restricted geometry: numerical simulation and application**
Gigi Q. Zhang and George J. Hirasaki
- 92 JE-TROSY: combined *J*- and TROSY-spectroscopy for the measurement of one-bond couplings in macromolecules**
Burkhard Luy and John P. Marino
- 99 Hole-burning diffusion measurements in high magnetic field gradients**
E.E. Sigmund and W.P. Halperin
- 105 Experimental aspects of proton NMR spectroscopy in solids using phase-modulated homonuclear dipolar decoupling**
Anne Lesage, Dimitris Sakellariou, Sabine Hediger, Bénédicte Eléna, Patrick Charmont, Stefan Steuernagel, and Lyndon Emsley
- 114 Determination of three-bond scalar coupling between $^{13}\text{C}'$ and $^1\text{H}^\alpha$ in proteins using an iHN(CA), CO(α/β -J-COHA) experiment**
Perttu Permi

Continued

- 121 SNR-optimality of sum-of-squares reconstruction for phased-array magnetic resonance imaging**
Erik G. Larsson, Deniz Erdogmus, Rui Yan, Jose C. Principe, and Jeffrey R. Fitzsimmons
- 124 Effects of pH and molecular charge on dipolar coupling interactions of solutes in skeletal muscle observed by DQF, ^1H NMR spectroscopy**
I. Asllani, E. Shankland, T. Pratum, and M. Kushmerick
- 133 Analytical description of GMAX-induced magnetization**
João Teles and Alberto Tannús
- 139 Processing DOSY spectra using the regularized resolvent transform**
Geoffrey S. Armstrong, Nikolaus M. Loening, Joseph E. Curtis, A.J. Shaka, and Vladimir A. Mandelshtam
- 149 Sensitivity-enhanced phase-corrected ultra-slow magic angle turning using multiple-echo data acquisition**
Jian Zhi Hu and Robert A. Wind
- 163 Measurement of ^{15}N chemical shift anisotropy in a protein dissolved in a dilute liquid crystalline medium with the application of magic angle sample spinning**
Jun-ichi Kurita, Hideto Shimahara, Naoko Utsunomiya-Tate, and Shin-ichi Tate
- 174 Solution-state dynamics of sugar-connected spin probes in sucrose solution as studied by multiband (L-, X-, and W-band) electron paramagnetic resonance**
Kôichi Fukui, Tomohiro Ito, Mika Tada, Masaaki Aoyama, Shingo Sato, Jun-ichi Onodera, and Hiroaki Ohya
- 182 REDOR with a relative full-echo reference**
Anil K. Mehta, Lynette Cegelski, Robert D. O'Connor, and Jacob Schaefer
- COMMUNICATIONS**
- 188 Rotational-echo double resonance of uniformly labeled ^{13}C clusters**
Anil K. Mehta and Jacob Schaefer
- 192 PowerSlicing**
Søren Balling Engelsen and Rasmus Bro