

Publications of Professor William S Price –

Current July 2009

- Books
- Book Chapters
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BOOKS

1. **Price, W.S.** (2009) *NMR Studies of Translational Motion*, Cambridge University Press. ISBN- 13: 9780521806961 In Press.

BOOK CHAPTERS

1. **Price, W.S.** (1996) Gradient NMR. In: *Annual Reports on NMR Spectroscopy*, (G. A. Webb, Ed.), Academic Press. **32**, pp. 51-142. (**Invited review chapter**).

2. **Price, W.S.** (1998) NMR imaging. In: *Annual Reports on NMR Spectroscopy*, (G. A. Webb, Ed.), Academic Press. **35**, pp. 139-216. (**Invited review chapter**).

3. **Price, W.S.**, Tsuchiya, F. and Arata, Y. (1999) Protein aggregation studies using PFG NMR diffusion measurements. In: *Advances in Magnetic Resonance in Food Science*, (P. S. Belton, B. P. Hills and G. A. Webb, Eds.), Royal Society of Chemistry. pp. 35-42.

4. **Price, W.S.** (1999) Water signal suppression in NMR spectroscopy. In: *Annual Reports on NMR Spectroscopy*, (G. A. Webb, Ed.), Academic Press. **38**, pp. 289-354. (**Invited review chapter**).

5. Ishikawa, M., Ide, H., **Price, W.S.**, Arata, Y. and Kitashima, T. (1999) Freezing behaviors in plant tissues as visualized by NMR microscopy and their regulatory mechanisms. In: *Cryopreservation of Tropical Plant Germplasm. Current Research Progress and Application*, (F. Engelmann and H. Takagi, Eds.), IPGRI. pp. 22-35.

6. **Price, W.S.** (2000) Probing molecular dynamics in biochemical and chemical systems using pulsed field gradient NMR diffusion measurements. In: *New Advances in Analytical Chemistry*, (Atta-ur-Rahman, Ed.), Harwood Academic Publishers. Vol. I, pp. 31-72. (**Invited review chapter**).

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9. **Price, W.S.** (2002) Diffusion-based studies of aggregation, binding, and conformation of biomolecules: Theory and practice. In: *Encyclopedia of Nuclear Magnetic Resonance*, (D. M. Grant and R. K. Harris, Eds.), Wiley. Vol. **9**. pp. 364-374. (**Invited review chapter**).
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11. **Price, W.S.** (2005) Applications of Pulsed Gradient Spin-Echo NMR Diffusion Measurements to Solution Dynamics and Organization. In: *Diffusion Fundamentals: Basic Principles of Theory, Experiment and Applications*, (J. Kärger, F. Grinberg, and P. Heitjans, Eds.), Leipzig University Press. pp. 490-508. (**Invited chapter**).
12. **Price, W.S.** (2006) NMR diffusometry. In: *Modern Magnetic Resonance*, (G. A. Webb, Ed.), Springer. pp. 105-111 ISBN: 1402038941. (**Invited review chapter**).
13. Yadav, N. and **Price, W.S.** (2007) Effects of Polydispersity on PGSE NMR Coherence Features. In: *Diffusion Fundamentals II*, (S. Brandani, C. Chmelik, J. Kärger, and R. Volpe, Eds.), Leipzig University Press. pp. 40-51. (**Invited chapter**).
14. Reddy, N., Wilson, M.A., Kannangara, G.S.K., **Price, W.S.** and Lee, G.S.H. (2008) Forensic Applications of NMR Imaging and Solid State NMR Spectroscopy. In: *Forensic Photography and Imaging (International Forensic Science and Investigation)* (G. Porter, Ed.) CRC Press. ISBN: 0849331471. In press.
15. Yadav, N.N., Stait-Gardner, T. and **Price, W.S.** (2008) Hardware considerations for Diffusion MRI. In: *Diffusion MRI* (D. Jones, Ed.), Oxford University Press. In Press (16 Oct 2008). (**Invited chapter**).
16. Stait-Gardner, T., Willis, S.A., Yadav, N.N., Zheng, G. and **Price, W.S.** (2009) NMR Diffusion Measurements of Complex Systems. In: *Diffusion Fundamentals III*, (S. Brandani, C. Chmelik, J. Kärger, and R. Volpe, Eds.), Leipzig University Press. pp. (**Invited chapter**). In press.

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2. **Price, W.S.**, Kuchel, P.W., and Cornell, B.A. (1989) Microviscosity of human erythrocytes studied with hypophosphite and ³¹P NMR. *Biophys. Chem.* **33**, 205-215.
3. **Price, W.S.**, Roufogalis, B.D., and Kuchel, P.W. (1989) A simple and inexpensive method for preparing erythrocyte membranes by filtration through a hollow-fibre system. *Anal. Biochem.* **179**, 190-193.

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