

Tim Stait-Gardner

Book Chapter:

1. Yadav N, **Stait-Gardner T**, Price W, 2011, Hardware Considerations for Diffusion MRI in Diffusion MRI - Theory, Methods and Applications, D.K. Jones, Oxford, pp 171-181,
2. **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*, (C. Chmelik, N. Kanellopoulos, J. Kärger, and D. Theodorou, Eds.), Leipzig University Press. pp. 183-204. ISBN: 978-3-86583-387-7. (Invited chapter).

Publications:

1. Hora, H., Castillo, R., Chan, W.-K., Collins, M., **Stait-Gardner, T.** (2001) Laser produced pair production in vacuum and Hawking-Unruh radiation *Proceedings of SPIE - The International Society for Optical Engineering* 4424, pp. 528-532
2. Hora, H., Osman, F., Castillo, R., Collins, M., **Stait-Gardner, T.**, Chan, W.-K., Hölss, M., Scheid, W., Wang, J.-X., Ho, Y.-K. (2002) Laser-generated pair production and Hawking-Unruh radiation *Laser and Particle Beams* 20 (1), pp. 79-86
3. **Stait-Gardner, T.**, Castillo, R. (2006) Difference between Hawking and Unruh radiation derived from studies about pair production by lasers in vacuum *Laser and Particle Beams* 24 (4), pp. 579-603
4. Zheng, G., **Stait-Gardner, T.**, Anil Kumar, P.G., Torres, A.M., Price, W.S. (2008) PGSTE-WATERGATE: An STE-based PGSE NMR sequence with excellent solvent suppression *Journal of Magnetic Resonance* 191 (1), pp. 159-163
5. **Stait-Gardner, T.**, Anil Kumar, P.G., Price, W.S. (2008) Steady state effects in PGSE NMR diffusion experiments *Chemical Physics Letters* 462 (4-6), pp. 331-336
6. **Stait-Gardner T**, Willis S, Yadav N, Zheng G, Price W, (2009), NMR Diffusion Measurements of Complex Systems, *Diffusion Fundamentals*, vol 15, pp 1-22
7. **Stait-Gardner, T.**, Price, W.S. (2010) A physical interpretation of product operator terms *Concepts in Magnetic Resonance Part A: Bridging Education and Research* 34 (6), pp. 322-356
8. Price W, **Stait-Gardner T**, Torres A, Zheng G, 2010, Developements in NMR Diffusion Measurements and q-space Imaging, *Chinese Journal of Magnetic Resonance*, vol 27, no. 3, pp 267-288
9. Ghadirian, B., **Stait-Gardner, T.**, Castillo, R., Price, W.S. (2010) Modeling diffusion in restricted systems using the heat kernel expansion *Journal of Chemical Physics* 132 (23), art. no. 234108

10. Sims, A.M., **Stait-Gardner, T.**, Fong, L., Morley, J.W., Price, W.S., Hoffman, M., Simmons, A., Schindhelm, K. (2010) Elastic and viscoelastic properties of porcine subdermal fat using MRI and inverse FEA *Biomechanics and Modeling in Mechanobiology* 9 (6), pp. 703-711
11. Ghadirian B, **Stait-Gardner T**, Hennessy A, Price W, (2011), Energy Dissipation in Porous Media for Equilibrium and Nonequilibrium Translational Motions, *Diffusion Fundamentals*, vol 15, no. 1, pp 1-21