Paul Tofts – Most Cited Publications

(updated September 2005)
Up to date information can be obtained from the internet: ISI web of Science

A: Most cited first author papers

1. Measurement of the Blood-Brain Barrier permeability and leakage space using dynamic MR imaging - 1 Fundamental concepts.
PS Tofts and AG Kermode. Magnetic Resonance in Medicine 17:357-367 (1991). **[234 citations** 9.2005**]**

2. Estimating kinetic parameters from dynamic contrast-enhanced T_1-weighted MRI of a diffusable tracer: standardized quantities and symbols.
PS Tofts, G Brix, DL Buckley, JL Evelhoch, E Henderson, M Knopp, HBW Larsson, T-Y Lee, NA Mayr, GJM Parker, RE Port, J Taylor, RM Weisskoff. Journal of Magnetic Resonance Imaging 1999;10:223-232. Review.[**186 citations** 9.2005]

3. Modeling tracer kinetics in dynamic Gd-DTPA MR imaging.
PS Tofts. J Magnetic Resonance Imaging 7:91-101 (1997). [**147 citations** 9.2005]

4. Quantitative analysis of dynamic Gd-DTPA enhancement in breast tumors using a permeability model.
PS Tofts B Berkowitz and M Schnall. Magn Reson Med 33:564-568 (1995). [**126 citations** 9.2005]

5. Changes in brain phosphorus metabolites during the post natal development of the rat.
Paul Tofts and Susan Wray. J Physiol 359:417-429 (1985).). [**81 citations** 9.2005]

6. The distribution of induced currents in magnetic stimulation of the brain.
PS Tofts. Physics in Medicine and Biology 35:1119-1128 (1990). [**50 citations** 9.2005]

7. Standing waves in uniform water phantoms.
PS Tofts. J Magn Reson series B 104:143-147 (1994). [**34 citations** 9.2005]

8. Measurement of capillary permeability from the Gd enhancement curve - a comparison of bolus and constant infusion injection methods.
PS Tofts and B Berkowitz. Magnetic Resonance Imaging 12:81-91 (1994). [**29 citations** 9.2005]

9. Towards quantitative measurements of relaxation times and other parameters in the brain.
PS Tofts and EPGH du Boulay. Neuroradiology 32:407-415 (1990). [**26 citations** 9.2005]

10. Correction of nonuniformity in images of the spine and optic nerve from fixed receive-only surface coils at 1.5T.
PS Tofts, GJ Barker, AMK Simmons, D MacManus, J Thorpe, A Gass and DH Miller. J Comput Assist Tomogr 18:997-1003 (1994). [**25 citations** 9.2005]

B: Most cited co-author papers

1. The role of NMR imaging in the assessment of multiple sclerosis and 'isolated' neurological lesions: a quantitative study.
IEC Ormerod, DH Miller, WI McDonald, EPGH du Boulay, P Rudge, BE Kendell, IF Moseley, G Johnson, AM Halliday, F Scarivilli, **PS Tofts**, KJ Zilka. Brain 110:1579-1616 (1987). **[337 citations** 9.2005**]**

2. Serial proton magnetic resonance spectroscopy in acute multiple sclerosis lesions.
CA Davie, CP Hawkins, GJ Barker, A Brennan, **PS Tofts**, DH Miller, WI McDonald. Brain 117:49-58 (1994). **[313 citations** 9.2005**]**

3. Breakdown of the blood-brain barrier precedes symptoms and other MRI signs of new lesions in multiple sclerosis: pathogenetic and clinical implications.
AG Kermode, AJ Thompson, **PS Tofts**, DG MacManus, BE Kendall, DPE Kingsley, IF Moseley, P Rudge, WI McDonald. Brain 113:1477-1489 (1990). **[287 citations** 9.2005**]**

4. Correlation of Magnetisation Transfer Ratio with Clinical Disability in Multiple Sclerosis.
A Gass, GJ Barker, D Kidd, JW Thorpe, D MacManus, A Brennan, **PS Tofts**, AJ Thompson, WI McDonald and DH Miller. Annals of Neurology 36:62-67 (1994). [**259 citations** 9.2005]

5. Non-invasive investigation of cerebral metabolism in newborn infants by phosphorus nuclear magnetic resonance spectroscopy.
EB Cady, AM de L Costello, MJ Dawson, DT Delpy, PL Hope, EOR Reynolds, **PS Tofts**, DR Wilkie. Lancet (i) 1059-1062 (1983). [**251 citations** 9.2005]

6. Spinal cord atrophy and disability in multiple sclerosis: a new reproducible and sensitive MRI method with potential to monitor disease progression.
Losseff NA, Webb SL, O'Riordan JI, Page R, Wang L, Barker GJ, **Tofts PS**, McDonald WI, Miller DH, Thompson AJ. Brain 119:701-708 (1996). [**243 citations** 9.2005]

7. Measurement of the Blood-Brain Barrier permeability and leakage space using dynamic MR imaging - 1 Fundamental concepts.
PS Tofts and AG Kermode. Magnetic Resonance in Medicine 17:357-367 (1991). **[234 citations** 9.2005**]**

8. Persistent functional deficit in multiple sclerosis and autosomal dominant cerebellar ataxia is associated with axon loss.
CA Davie, GJ Barker, S.Webb, **PS Tofts**, AJ Thompson, AE Harding, WI McDonald, DH Miller. Brain 118:1583-1592 (1995). [**218 citations** 9.2005]

9. Cerebral energy metabolism studied with phosphorus NMR spectroscopy in normal and birth-asphyxiated infants.
PL Hope, AM de L Costello, EB Cady, DT Delpy, **PS Tofts**, A Chu, PA Hamilton, EOR Reynolds, DR Wilkie. Lancet 8399(ii): 366-370 (1984). [**193 citations** 9.2005]

10. Estimating kinetic parameters from dynamic contrast-enhanced T_1-weighted MRI of a diffusable tracer: standardized quantities and symbols.
PS Tofts, G Brix, DL Buckley, JL Evelhoch, E Henderson, M Knopp, HBW Larsson, T-Y Lee, NA Mayr, GJM Parker, RE Port, J Taylor, RM Weisskoff. Journal of Magnetic Resonance Imaging 1999;10:223-232. Review.[**186 citations** 9.2005]