

## NMISA Bibliography

### 2007

W.M. Van Wyngaardt and B.R.S. Simpson, *Further investigations of a simple counting technique for measuring mixtures of two pure  $\beta$ -emitting radionuclides*. ICRM 2007 International Conference on Radionuclide Metrology and its Applications, Cape Town, South Africa, September 2007 (accepted for oral presentation).

B.R.S. Simpson and W.M. Van Wyngaardt, *Absolute activity of  $^{133}\text{Ba}$  by liquid scintillation coincidence counting using the  $4\pi(e,x)$ - $\gamma$  extrapolation technique*. ICRM 2007 International Conference on Radionuclide Metrology and its Applications, Cape Town, South Africa, September 2007 (accepted for oral presentation).

### 2006

W.M. Van Wyngaardt and B.R.S. Simpson, *Absolute activity measurement of the electron-capture-based radionuclides  $^{139}\text{Ce}$ ,  $^{125}\text{I}$ ,  $^{192}\text{Ir}$  and  $^{65}\text{Zn}$  by liquid scintillation coincidence counting*. Appl. Radiat. Isot. 64 (2006) 1454.

B.R.S. Simpson and W.M. Van Wyngaardt, *Activity measurements of the high-energy pure  $\beta$ -emitters  $^{89}\text{Sr}$  and  $^{90}\text{Y}$  by the TDCR efficiency calculation technique*. Appl. Radiat. Isot. 64 (2006) 1481.

P. Cassette, G.H. Ahn, T. Alitzoglou, I. Aubineau-Lanière, F. Bochud, E. Garcia Torano, A. Grau Carles, A. Grau Malonda, K. Kossert, K.B. Lee, J.P. Laedermann, B.R.S. Simpson, W.M. van Wyngaardt, B.E. Zimmerman, *Comparison of calculated spectra for the interaction of photons in a liquid scintillator. Example of  $^{54}\text{Mn}$  835 keV emission*. Appl. Radiat. Isot. 64 (2006) 1471.

A.C. Razdolescu, R. Broda, P. Cassette, B.R.S. Simpson, W.M. Van Wyngaardt, *The IFIN-HH triple coincidence liquid scintillation counter*. Appl. Radiat. Isot. 64 (2006) 1510.

W.M. Van Wyngaardt and B.R.S. Simpson, *A simple counting technique for measuring mixtures of two pure  $\beta$ -emitting radionuclides*. Nuclear Instruments and Methods in Physics Research A 564 (2006) 339-346.

B.R.S. Simpson and W.M. Van Wyngaardt, *Activity measurement of phosphorus-32 in the presence of pure beta-emitting impurities*. South African Journal of Science, July/August 2006 – Vol. 102, No. 7 / 8.

### 2005

L. Mo, B. Avci, D. James, B. Simpson, W.M. van Wyngaardt, J.T. Cessna and C. Baldock, *Development of activity standard for  $^{90}\text{Y}$  microspheres*. Appl. Radiat. Isot. 63 (2005) 193.

W.M. van Wyngaardt and B.R.S. Simpson, *Preparation and use of standards for a comparison exercise among users of  $^{131}\text{I}$  capsules in South Africa*. Physica Medica Vol. XXI, N. 3 (2005) 101.

2004

B.R.S. Simpson and W.M. Morris, *The standardization of  $^{33}\text{P}$  by the TDCR efficiency calculation technique*. Appl. Radiat. Isot. 60 (2004) 465.

B.R.S. Simpson and W.M. Morris, *Direct activity determination of  $^{54}\text{Mn}$  and  $^{65}\text{Zn}$  by a non-extrapolation liquid scintillation method*. Appl. Radiat. Isot. 60 (2004) 475.

W.M. Morris and B.R.S. Simpson, *Preparation of solid water-equivalent radioactive standards*. Appl. Radiat. Isot. 60 (2004) 557.

2003

G. Ratel, C. Michotte, B.R.S. Simpson and A. Iglicki, *Activity measurements of the radionuclide  $^{60}\text{Co}$  for the CSIR-NML and the CNEA in the BIPM comparison BIPM.RI(II)-K1.Co-60*. Metrologia 40 No. 1A (Technical Supplement 2003) 06010.

2002

B.R.S. Simpson, *Radioactivity standardization in South Africa*. Appl. Radiat. Isot. 56 (2002) 301-305.

2000

B.R.S. Simpson and T.P. Ntsoane, *Decay scheme of  $^{67}\text{Ga}$* . Appl. Radiat. Isot. 52 (2000) 551.