



PR. PRISCILLA BAKER

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INVITED BY

LPPI LABORATORY

LABORATORY OF PHYSICO-CHEMISTRY
OF POLYMERS AND INTERFACES

Currently Priscilla BAKER is full Professor in the Department of Chemistry, co-leader of SensorLab (42 registered post graduate students 2011), deputy HOD (Chemistry), chairperson of Electrochemistry division of SACI and SACI council member (2006-) as well as vice chairperson of Division 1 (Analytical) of International Society for Electrochemistry (ISE, 2013).

CURRENT RESEARCH INTERESTS

- ▶ SensorLab (Chemistry department, UWC) focuses on fundamental and applied electrodynamics of materials and sensors. Contribution and expertise in the ongoing search for smart materials centres around the introduction of AC voltammetric techniques and advanced analytical procedures for in situ characterisation and analysis of materials.

EDUCATION

- ▶ 2004: Doctoral degree University of Stellenbosch, South Africa.
- ▶ November 2003: She joined the University of the Western Cape (UWC).

THREE MOST RECENT HIGH IMPACT PUBLICATIONS

- ▶ Faiza J. Iftikhar, Priscilla G.L Baker, Abdul M. Baleg, Peter M. Ndangili, Stephen N. Mailu, Emmanuel I. Iwuoha (2011) Modulation of the interfacial electrochemistry of surfactant-functionalised polypyrrole chemical sensor systems, *Electrochimica Acta*, 56 (14) 2011, 5214-5221.
- ▶ Vivian D. van Wyk, Priscilla, G.L. Baker, Tesfaye Waryo, Emmanuel I. Iwuoha, Electrochemical evaluation of a novel BDD material for application as potential electrochemical capacitor material. *Analytical letters* 44(11), 2011, 2005-2018.
- ▶ Development of a tyrosinase biosensor on a novel Polyaniline-Polyvinyl Sulphonate Composite Film modified Boron-Doped Diamond (BDD) electrode. Zelo Mangombo, Priscilla Baker, Emmanuel Iwuoha, David Key. *Microchimica Acta* Vol 170 (3-4), 267-273, May 2010.

AWARDS & RECOGNITION

- ▶ 2006- current: Chairperson: Electrochemistry division of South African Chemical Institute
- ▶ 2008: Guest Editor, *Electrochimica Acta* (Elsevier) 55 (14); 30 May 2010
- ▶ 2009: Keynote lecture, SMCBS'2009, Poland 6-10 November 2010
- ▶ 2010: Keynote lecture, Analitika 2010, 4-9 December 2010, Stellenbosch
- ▶ 2011: Guest Editor, *Analytical Letters*, Volume 44 (11), June 2011.
- ▶ 2012: Vice chairperson Analytical division (ISE)