



RHODES UNIVERSITY, GRAHAMSTOWN, SOUTH AFRICA

STUDENT INFORMATION



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EDUCATION DETAILS:

PhD (Chemistry) current - Rhodes University, Makhanda, South Africa
MSc (Chemistry) 2023 – Rhodes University, Makhanda, South Africa
BSc Honours (Chemistry) 2020 – University of Fort Hare, South Africa
BSc (Chemistry & Biochemistry) 2019 – University of Fort Hare, South Africa

RESEARCH TITLE/PROJECT:

Electrochemical biosensors for cancer biomarkers

PUBLICATIONS:

1. Lunathi Ncwane, Lekhetho S. Mpeta and Tebello Nyokong

Electrocatalytic activity of benzothiazole substituted cobalt phthalocyanine in the presence of detonation nanodiamonds

Diamond and Related Materials 129 (2022), 109319 (1-10)

<https://doi.org/10.1016/j.diamond.2022.109319>

2. Lunathi Ncwane, Lekhetho S. Mpeta, Tebello Nyokong

Effect of detonation nanodiamonds on the electrocatalytic activity of asymmetric cobalt phthalocyanine: Covalent versus non-covalent linking

Electroanalysis 35 (2023), e202200541 (1-16)

<https://doi.org/10.1002/elan.202200541>

3. Lunathi Ncwane, Philani Mashazi, Tebello Nyokong

Phthalocyanine based metal organic frameworks for electrochemical detection of human epidermal growth factor receptor 2

Bioelectrochemistry 265 (2025), 108966 (1-9)

<https://doi.org/10.1016/j.bioelechem.2025.108966>

CONFERENCES/WORKSHOPS:

11th Nanosciences Young Researchers' Symposium (NYRS – 2023)

Nelson Mandela University, 7 Sept 2023

Poster Presentation

L Ncwane, LS Mpeta, T Nyokong

Effect of detonation nanodiamonds on the electrocatalytic activity of asymmetric cobalt phthalocyanine: covalent versus non-covalent linking