

STAFF PROFILE CONTENT BRIEF

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DESIGNATION

(LECTURER)

Title & Name: Dr Ntola

Qualification & Institution: PhD Chemistry UKZN

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Campus: Steve Biko

Area of Expertise: Catalysis, Heterogeneous catalysis, Material science, Electron microscopy, Paraffin oxidation.

Short Bio (limited to 1 paragraph): My research field is Catalysis, heterogeneous catalysis. The focus is mostly on in-depth characterization of heterogeneous catalysts, specifically metal oxides. Emphasis has been on the synthesis using novel techniques and characterization using XRD with Rietveld refinement and a significant focus on electron microscopy. This looks into the materials science aspect. Applications for these materials include oxidative dehydrogenation (ODH) of alkanes using molecular oxygen. I am also involved in the department as a Work intergraded learning (WIL) coordinator and a secretary of the chemistry department advisory board. My active engagement in the co-ordination of Work Integrated Learning with the Chemical & Allied Industries at a regional and national level also entails being a liaison between the University and the Chemical industry in South Africa, organizing and planning advisory board meetings, establishing new relations with industry and placing students in industry for the completion of their diplomas.

Academic Interests: Synthesis of heterogeneous catalysts, Materials science, Electron microscopy, XRD and Rietveld refinement, Paraffin oxidation. My teaching portfolio involves Analytical Chemistry I, Analytical Chemistry Practical III, Applied Inorganic Chemistry, Inorganic chemistry IV, and Inorganic chemistry V.

Research Links: ORCID – 0000-0002-8964-1984

Research gate: https://www.researchgate.net/profile/Pinkie_Sobantu