



Contribution ID: 112

Type: **Poster Presentation**

DRS, XRD and SEM studies of the effects of metal dopants (Pt, Au and Pd) on the structural and optical properties of TiO₂.

Wednesday, 13 July 2011 17:00 (2 hours)

Titania is a cheap and nontoxic polymorphic material of current interest for a variety of technological applications like in gas sensing and photovoltaic cells. Generally, TiO₂, with a band gap of 3.2 eV, can only be excited by a small UV fraction of solar light, which accounts for only 3-5

Level (Hons, MSc, PhD, other)?

MSc

Consider for a student award (Yes / No)?

No

Would you like to submit a short paper for the Conference Proceedings (Yes / No)?

Yes

Primary authors: Prof. RAMMUTLA, Erasmus Koena (University of Limpopo); Mr MOLOANTOA, Jacob Ramodika (University of Limpopo)

Co-authors: Dr ERASMUS, Rudolph (University of the Witwatersrand); Prof. HILLIE, Thembela (CSIR); Dr MOSUANG, Thuto (University of Limpopo)

Presenter: Mr MOLOANTOA, Jacob Ramodika (University of Limpopo)

Session Classification: Poster1

Track Classification: Track A - Condensed Matter Physics and Material Science