## 21st Century Nanoscience: A Handbook: Design Strategies for Synthesis and Fabrication (Volume 2)

## Electrocatalytic optically modulated green prepared nanoparticles

Xolile Fuku, and Mmalewane Modibedi

Council for Scientific and Industrial Research,

https://www.taylorfrancis.com/books/e/9780367341558/chapters/10.1201/9780367341558-8

## **Abstract**

Nanoscience has shown itself to be one of the most exciting areas in science, with experimental developments being driven by pressing demands for new technological applications. It is a highly multidisciplinary research field, and the experimental and theoretical challenges for researchers in different fields are substantial. Nowadays, scientists and research scholars have been developing new kinds of nanomaterials which could be used for forensic science, biology, electronic technology, environmental science, computer manufacturing, and sports facility production, as well as food industries. In 21 January 2000 California Institute of Technology, President Bill Clinton advocated nanotechnology development and raised it to the level of a federal initiative, officially referring to it as the National Nanotechnology Initiative (NNI). Nanoscience and nanotechnology are referred to as a type of applied science, studying the ability to observe, measure, manipulate, and manufacture materials at the nanometer scale (Rao et al. 2004).