

Relevance of Synchrotron Radiation in Inorganic Medicinal Chemistry

Wednesday, 13 November 2019 10:05 (25 minutes)

Abstract

Relevance of Synchrotron Radiation in Inorganic Medicinal Chemistry

ODULARU, Ayodele Temidayo¹

Department of Chemistry, University of Fort Hare, Alice 5700, South Africa.

Corresponding Author: 201106223@ufh.ac.za/ayodeleodularu@gmail.com

This study entails how three synchrotron radiation spectroscopic techniques (infrared microspectroscopy, microprobe X-ray fluorescence imaging, and X-ray absorption spectroscopy) are useful instrumentations to medicinal inorganic chemists in order to solve inorganic medicinal chemistry challenges. The study focuses on cellular uptake circulation, conventional bio transformed conventional agents, and future therapeutic agents.

Keywords: Challenges in inorganic medicinal chemistry; synchrotron radiation spectroscopic techniques; therapeutic agents

References

1. Dillion, C. T. Synchrotron Radiation Spectroscopic Techniques as Tools for the Medicinal Chemist: Microprobe X-ray Fluorescence Imaging, X-Ry Absorption Spectroscopy, and Infrared Microspectroscopy. *Austral. J. Chem.* 2011, 65, 204-217.
2. Lin, J.; Lin, G.; Li, Y.; Gao, X.; Du, H.; Jia, C.; Lu, H.; Golka, K.; Shen, J. Assessment of Usefulness of Synchrotron Radiation Techniques to Determine Arsenic Species in Hair and Rice Grain Samples. *Excli. J.* 2017, 16, 25-34.
3. Hettiarachchi, G. M.; Donner, E.; Doelsch, E. Application of Synchrotron Radiation-Based Methods for Environmental Geochemistry: Introduction to the Special Section. *J. Environ. Qual.* 2017, 46, 1139-1145.

Primary author: Dr ODULARU, Ayodele Temidayo (University of Fort Hare)

Presenter: Dr ODULARU, Ayodele Temidayo (University of Fort Hare)

Session Classification: Parallel-Chemistry and Materials

Track Classification: BioScience