

## Samuel I. Mutinda

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### Educational Background

2014-Present: Chemistry PhD Student at Wayne State University, Detroit-Michigan, US.A.  
Advisor – Professor Stephanie Brock.

2011-2013: Master of Science in Chemistry at Youngstown State University, Youngstown-Ohio, U.S.A.  
Advisor – Professor Ruigang Wang.  
Thesis title: Hydrothermal synthesis of shape/size-controlled cerium-based Oxides.  
Date of completion: August 12<sup>th</sup> 2013.

2003-2007: Bachelor of Science in Chemistry at the University of E.A. Baraton, Eldoret, Kenya.

### Research Experience

- Synthesis and characterization of transition metal phosphides for energy and catalysis applications.
- Synthesis and characterization of cerium-based metal oxides for three-way catalytic converters.

### Publications

- Wang, R.; Mutinda, S. I.; Fang M. One-pot hydrothermal synthesis and high temperature thermal stability of  $Ce_xZr_{1-x}O_2$  nanocrystals. *RSC Adv.* 2013, 3, 19508-19514.
- Wang, R. G.; Sama, V.; Li, D. Q.; Mutinda, S. I. Hydrothermal Synthesis of Rare-Earth Oxide Nanocatalysts for Automotive Exhaust Clean-Up. *Adv. Mat. Res.* 2012, 512-515, 1624-1629.
- Wang, R.; Mutinda, S. I. The dynamic shape of ceria nanoparticles. *Chem.Phys.Letters.* 2011, 517, 4-6, 186-189.

### Previous Academic Awards

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| 2017-2018 | A recipient of Thomas C. Rumble graduate fellowship for the 2017-2018 academic year at Wayne State University, USA.                |
| 2016-2017 | A recipient of the Herbert K. Livingston award for excellence as a teaching assistant in Chemistry at Wayne State University, USA. |
| 2012-2013 | A recipient of Dr. James. A. Reeder scholarship for the 2012-2013 academic year at Youngstown State University, USA.               |
| 2006-2009 | Awarded eight dean`s list certificates of academic achievement at the University of Eastern Africa, Baraton, Kenya.                |

### Professional Memberships

- 2016-Present: Full member of NOBCCChE
- 2014-Present: Full member of the American Chemical Society.