

Changes made:

No alterations to the text, data collected or analyses conducted in the studies this thesis have been made.

1. Font of body text changed from Times New Roman, 12pt, to Courier new, 11pt.
2. Header Fonts changed from Times New Roman to Sawadsee.
3. The names of Jennifer Kim, Frederick Gibson and Ngozi Agbo have been added to the acknowledgments.
4. Figure 1-1 has been enlarged.
5. Chapter 2, which is an adaptation from a paper published in the Journal of the American Chemical Society, was missing a supplemental figure. This figure has been included in on page 62 (figure S.5).
6. The Table of Figures has been modified to reflect the change in (4).
7. After the addition of figure S.5, page values were shifted. The Table of Contents was updated to reflect this change.
8. Formatting of figures (axis fonts, caption fonts and line widths) in chapter 3 have been updated.