REVIEWER REPORT:

The authors were designed the amine based chelating polymeric adsorbent for for Cu(II) ion removal as an effective adsorbent from wastewater samples. The authors were designed the work nicely based on the adsorption methods. However, several points are important to be addressed before going to possible publication in this journal.

1. Abstract: This section is completely different than the Introduction section. The main findings with important opinions are acceptable. The authors need to consider these points in the revision stage.

According to the suggestions, we have modified abstract and introduction. All modifications in manuscript are highlighted yellow.

2. The English language need to check carefully in the revision stage because of careless mistake in several positions.

We hired the English translator for the language and grammar issues.

3. The Figures quality needs to be improved. Some figures are not visible at all. The authors need to pay attention in the revision stage.

The Figures quality is improved.

4. References: There are many references are not adjacent with this study. The authors need to take note in the revision stage and cite relevant references including high impact journal to make the manuscript in broad range readers. Also the numbers of reference need to be extended.

The number of reference is extended from 22 to 53.

5. Introduction: The novelty is not accurate at all. Why the authors designed such ligand based adsorbent comparing with the reported divers different materials? Recently, the different functionalized nanomaterials were prepared for divers ions removal such as Chemical Engineering Journal, 291 (2016) 128–137; Chemical Engineering Journal, 300 (2016) 264–272; Chemical Engineering Journal, 288 (2016) 368–376; Chemical Engineering Journal, 271 (2015) 155–163; Journal of Industrial and Engineering Chemistry 20 (2014) 3493-3501; Chemical Engineering Journal, 307 (2017) 456–465; Chemical Engineering Journal, 303 (2016) 539–546; Chemical Engineering Journal, 289 (2016) 65–73; Journal of Hazardous Materials, 278 (2014) 227–235; Chemical Engineering Journal, 242 (2014) 127–135. The authors need to take note of the above references in the revised manuscript.

In the introduction we added the discussion and references about the all suggested studies concerning the different functionalized nanomaterials that have been prepared for diverse heavy metal ion removal.

6.The Cu(II) ion was removed based on the stable complexation mechanism according to the ligand functionality as reported by Chemical Engineering Journal, 307 (2017) 85–94; Chemical Engineering Journal, 279 (2015) 639–647; Chemical Engineering Journal, 266 (2015) 368–375; Sensors and Actuators B: Chemical, 206 (2015) 692–700; Sensors and Actuators B: Chemical, 203 (2014) 71–80; Journal of Industrial and Engineering Chemistry, 20 (2014) 2332–2340; Chemical Engineering Journal, 221 (2013) 322–330; Chemical Engineering Journal, 222 (2013) 67–76; Chemical Engineering Journal, 236 (2014) 100–109; Microporous and Mesoporous Materials, 166 (2013) 195–205; Analyst, 137 (2012) 5278–5290. The authors need to take note these references in the revision stage.

In the introduction we added the discussion and references about the all suggested studies concerning the Cu(II) ion removal based on the stable complexation mechanism.

7. In the results and discussions part, the authors only presented the experimental results simply. More detailed mechanism analyses are needed to explain why the present material is excellent and how it works.

The results were supplemented with data from crystal structures extracted from CSD and the more detailed stability analysis of possible enOH and detaOH complex isomers.