

Reviewing manuscript

Title : photocatalytic detoxification of chlorobenzene in aqueous solution

Recommendations:

The report is rejected according to the following notes:

1) In the introduction Part:

- a. Number of references mentioned in this part did not exist within the reference list.
- b. The introduction is not suitable to this important title although there are many references present in the literature about this subject didn't mention here.
- c. The author gave only general information about the uses of chlorobenzene which is well known.

2) In the experimental and discussion part:

- a. The FT-IR used in this study cannot identify or detect the type and percentage of elements in the compounds; instead he must use Atomic Absorption or other technique to identify the elements.
- b. In page (3) The spectra of FT-IR for the two ashes do not appear any peaks belong to the functional groups which are discussed in page(4).
- c. As we see in the preparation of standard solution the author used chlorobenzene-ethanol solution but in this technique the presence of alcohol stop the degradation process.
- d. The author does not mention the range and the results of pH additions, in addition did not discuss why the neutral pH suitable in this process.
- e. I did not see the type of Sunlight apparatus and the temperature effect used in this study.
- f. The mean properties to the ash used as adsorbent are the particle size and surface area which are not present in the study.
- g. The absence of wavelength measurements in this process which is very important.
- h. The study of the mechanism of photo degradation not exist in any part of the study.
- i. The author consider the same mechanisms for all compounds used in this process and this theoretically not true because the properties of ashes differs from semiconductors.

3) In conclusion part:

- a. In item-3 , the author mentioned the addition of H_2O_2 to the solution but did not give any result in the study.**
- b. In item-4 ,the result of degradation is 89% but in abstract the maximum percentage was 46% for TiO_2 and for Ashes is 26%.**

Note: Anonymous Reviewer