

Review of: "Evaluation of Ambient Air Quality Levels at Various Locations within Lead City University, Ibadan"

Muhayatun Santoso¹

¹ National Research and Innovation Agency (BRIN)

Potential competing interests: No potential competing interests to declare.

This manuscript still needs improvement, including the following:

In the abstract, we recommend replacing the site numbers 13, 1, 6 with the site names, e.g., Dumpsite, etc. This is because in the results chapter, the site numbers are not used, and the site names are written directly.

In the abstract, PM data is written. Does the PM data refer to PM_{2.5}? If so, it should be written as PM_{2.5}. For the high PM_{2.5} data (436.1), it is necessary to explain what the cause is.

In the introduction, there has been some discussion of parameters that are not part of this study (such as O₃, Pb, VOCs); it would be better to have a focus on the parameters that are part of this study.

The title of each table should be placed above the table.

In the methodology, sampling sites must be well described (preferably in figures), including the location of each site or as in Figure 1, which is provided with the location of each of the sites.

Add information on various activities around each site. This will help in the interpretation of the results obtained.

In the Methodology, it is necessary to explain the principle of the T-201 detector used to measure each parameter, including measuring PM for PM_{2.5}.

Quality control, including equipment calibration, is very important in producing valid data, so this needs to be explained in more detail, including whether collocation has ever been performed with a reference method.

In terms of frequency and duration of sampling, it is necessary to explain how long it takes for each measurement of each parameter, including repetition, as well as information on the sampling period.

For setting up the detector, it shall be explained at what height.

The titles of Table 2 and Table 3 should be more concise and directly describe the content of the table. For example, Table 2: Average temperature and relative humidity in 10 indoor locations within the Lead City University, Ibadan.

In Table 2, writing units for temperature must follow the standards. When writing the results of average temperature and RH in Table 2, it is best to include the standard deviation. The same should be done for Table 3.

The Figure title is placed below the Figure, so the caption above the Figure should be deleted.

For Figures 2 and 3, it is recommended to use 2 scales (on the left and right Y-axis) for the Temp (left) and RH (right) scales, respectively.

For Figure 4 and Figure 5, it is recommended to use 2 scales (on the left and right Y-axis), each for ppm and ug/m3 units. For better visualization, you can also use a logarithmic scale.

Because the presentation of results does not use location numbers, it is best not to use them in discussions.

The list of references should be consolidated into a single list.