**COVER LETTER**

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[ *April, 27 2023*]

Dear,

I/We wish to submit an original research article entitled “[Development of a mercury (Hg) sensor with carbon electrode-based voltammetry method from used Tire Waste (TW)]” for consideration by SINERGI.

We confirm that this work is original and has not been published elsewhere, nor is it currently under consideration for publication elsewhere. We promise not to withdraw this article after it has been processed by the Editorial Team. If there is a withdrawal, we are willing to pay a penalty of USD 150 (IDR 2000K) to the SINERGI Editorial Team.

In this paper, I/we report on / show that:

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| Field | : |  Chemistry |
| Topic | : | mercury (Hg) sensor |
| Brief Background | : | Carbon-based sensors are currently being developed in the field of voltammetry. Used tire waste (UWT) was chosen as a carbon source for the manufacture of electrodes used to detect heavy metals such as mercury. |
| Research Problem | : | Chamber used to collect soot is not optimal |
| Overview of Method | : | Cyclic Voltammetry |
| Significant finding | : | *The t-test results of the two Hg measurement methods at a significance level (α) of 5% obtained tcount* < *ttable* (6.037 < 2.262)*,* which shows that there is no significant difference between the two methods of measuring Hg concentrations for river water*.* |

We have no conflicts of interest to disclose.

Thank you for your consideration of this manuscript. Sincerely,

[*Baihaqi*]

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**AUTHORSHIP STATEMENT**

I/We wish to submit an original research article entitled “[***title of article***]” for consideration by SINERGI.

All persons who meet authorship criteria are listed as authors, and all authors certify that they have participated sufficiently in work to take public responsibility for the content, including participation in the concept, design, analysis, writing, or revision of the manuscript.

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