

## Review of: "Critical Review on Carbon Nanomaterial Based Electrochemical Sensing of Dopamine the Vital Neurotransmitter"

Maryam Ghodrati<sup>1</sup>

1 Lorestan University, Iran, Islamic Republic of

Potential competing interests: No potential competing interests to declare.

Title: Critical Review on Carbon Nanomaterial Based Electrochemical Sensing of Dopamine the Vital Neurotransmitter

The authors provided an overview of the latest progress in the non-enzymatic electrochemical sensing of dopamine, specifically focusing on its integration with carbonaceous nanomaterials in electrodes.

The manuscript is interesting and well-written. But it still needs some corrections. I propose the following questions before it is acceptable.

- Q1. Please provide more explanations about the unique properties and characteristics of CNTs and graphene. I propose that the authors add some figures to show the structural features of CNTs and graphene.
- Q2. In part 4.1, the authors reported some examples of graphene and CNTs-based electrochemical sensors for dopamine. It would be better to have the examples with the figure so that the topic is more concrete for the readers. For example, show the designed sensor structure and add some of its results.
- Q3. Please explain the performance parameters of the sensor such as sensitivity, detection accuracy, figure of merit, etc., so that the issue becomes clearer for a non-expert reader.
- Q4. More detailed discussion about the potential and application of 2D materials should be mentioned, which highlights the practical applications of 2D materials.

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