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| Journal Name: | [Asian Journal of Physical and Chemical Sciences](http://www.sciencedomain.org/journal/56) |
| Manuscript Number: | **Ms\_**AJOPACS\_**136368** |
| Title of the Manuscript: | **An Introduction and Reexamination of Molecular Hypergraph and Molecular n-SuperHypergraph** |
| Type of the Article | **Original Research Article** |

**PART 1: Comments**

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|  | **Reviewer’s comment**  **Artificial Intelligence (AI) generated or assisted review comments are strictly prohibited during peer review.** | **Author’s Feedback** (It is mandatory that authors should write his/her  feedback here) |
| **Please write a few sentences regarding the importance of this manuscript for the scientific community. A minimum of 3-4 sentences may be required for this**  **part.** | This paper investigates the formalization, illustrative examples, and structural properties of molecular  hypergraphs and molecular superhypergraphs. Molecular graphs are often referred to as chemical graphs, and the study of chemical graphs has developed into an active area of research. Graphs are widely used in the field of chemistry to represent and analyze molecular structures. This paper investigates the construction and properties of molecular hypergraphs and molecular superhypergraphs, which are extensions of classical graph structures using hypergraph and superhypergraph frameworks. Several examples have been illustrated to explain different complex graph like Water Molecule and Benzene Molecule as Molecular Hypergraph; Ethanol and Acetic Acid  a Molecular 2-SuperHyperGraph; Ethyl Acetate as a Molecular 3-SuperHyperGraph etc. | Thank you for your feedback. |
| **Is the title of the article suitable?**  **(If not please suggest an alternative title)** | **Yes** | Thank you for your feedback. |
| **Is the abstract of the article comprehensive? Do you**  **suggest the addition (or deletion) of some points in this section? Please write your suggestions here.** | Yes, the abstract of the article is comprehensive. | Thank you for your feedback. |
| **Is the manuscript scientifically, correct? Please write**  **here.** | **Yes the manuscript is scientifically correct.** | Thank you for your feedback. |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.** | The reference list is more or less sufficient and updated. | Thank you for your feedback. |
| **Is the language/English quality of the article suitable**  **for scholarly communications?** | Yes, the language is suitable for **scholarly communications.** | Thank you for your feedback. |
| **Optional/General** comments | **The should provide the figures of Superhypergraph, Hypergraph, Molecular Graph, Molecular n- SuperHypergraph, Molecular HyperGraph to make the paper more effective.** | Thank you for your feedback.  Instead of drawing specific graph diagrams, I have clarified the examples already provided and added additional concrete examples for Hypergraphs and Molecular Hypergraphs.  Furthermore, to enhance understanding of the usefulness of these concepts, I have included summary tables.  \*I believe the graphs can be accurately constructed as long as they are drawn according to the given descriptions. |

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| **PART 2:** | | |
|  | **Reviewer’s comment** | **Author’s Feedback** (It is mandatory that authors should write his/her feedback here) |
| **Are there ethical issues in this manuscript?** | *(If yes, Kindly please write down the ethical issues here in details)* | Thank you for your feedback. |