1 REVIEWER 3

Firsts of all, we would like to tanks the referees for their constructive comments. We believe we have addressed them all and we include below the list of changes we have made.

This paper defines the concept of homogeneous symmetric congruent equivalent near-miss polyhedral cages 2 made out of P-gons.

- 1) *the main contribution and originality should be explained in more detail, which part of the proposal is new?*

  We have added a paragraph in the introduction to emphasise the novelty of the research.

- 2) *discussion of related works should be expanded with more recent works to help better situate the contribution. Add more paper from 2021 and 2022.*

  The concept of polyhedral cage is completely new and hence we have already cited all the papers related to it. We have added a section and a number of reference to the related topics of DNA origami, which are nano wire-mesh polyhedral structures made out of DNA strands, as well as the use of M-polynomials and topological indices in chemistry.

- 3) *Minor grammar and syntax issues need correction to enhance readability*

  We have proofed checked the entire manuscript and corrected a number of typos and spelling mistakes.

- 4)*the conclusions should be extended with more discussion of future works.*

  We have extended the conclusions as requested by the referee.

We believe we have addressed all the issues raised by the referee and that the paper is now suitable for publication.

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