

The MS “Occurrence, Composition, Sources, and Ecological-Health Risk Assessment of Polycyclic Aromatic Hydrocarbons in Chinese Water Bodies: A Review” is investigated PAHs compounds in China. The work is interesting but need major improvements. Below are my comments

- Please mention the full term “polycyclic aromatic hydrocarbons” only once, then use the abbreviation (PAHs) throughout the rest of the text.
- Lines 51–55 contain a very long sentence. Please consider breaking it into shorter, clearer sentences.
- In line 56, the use of "And" at the beginning of the sentence is not academic. Consider revising it.
- The novelty of the study is not clearly demonstrated. You need to differentiate your work more explicitly from the following studies:
  1. Yu, Haiyan, et al. "Polycyclic aromatic hydrocarbons in surface waters from the seven main river basins of China: Spatial distribution, source apportionment, and potential risk assessment." *Science of the Total Environment* 752 (2021): 141764.
  2. Wang, Weiwei, et al. "Current and future trends of low and high molecular weight polycyclic aromatic hydrocarbons in surface water and sediments of China: Insights from their long-term relationships between concentrations and emissions." *Environmental Science & Technology* 56.6 (2022): 3397–3406.
  3. Meng, Yuan, et al. "A review on occurrence and risk of polycyclic aromatic hydrocarbons (PAHs) in lakes of China." *Science of the Total Environment* 651 (2019): 2497–2506.
  4. Wang, Zijian, et al. "Spatiotemporal Distribution, Bioaccumulation, and Ecological and Human Health Risks of Polycyclic Aromatic Hydrocarbons in Surface Water: A Comprehensive Review." *Sustainability* 16.23 (2024): 10346.
  5. Wu, Yongfu, et al. "Pollution levels, characteristics, and sources of polycyclic aromatic hydrocarbons in atmospheric particulate matter across the Hu line in China: A review." *Environmental Chemistry Letters* 19.5 (2021): 3821–3836.
- Lines 201 to 212 require proper citation of the referenced studies.
- In the section Compositions of PAHs, please add the abbreviations of each PAH compound mentioned.
- There are other studies need to be cited also conducting on PAHs in different media not mentioned in the work for instance Process Safety and Environmental Protection (2025): 107371; Environmental Research 227 (2023): 115791 and Marine Pollution Bulletin 202 (2024): 116333.
- Please add a paragraph comparing the Chinese PAHs studies with relevant guidelines to assess whether the concentrations are high or low. Also, compare these results with international guidelines. Including figures is recommended.
- Please add figures showing PAH concentrations in different water bodies in China (e.g., rivers, lakes, etc.).

- Please also include a figure summarizing PAH concentrations in all the countries cited in this work, clearly indicating the contributors and referencing the relevant studies.
- In conclusion, I need to see figures to easy navigates