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Peer Review

Review of: "A Comprehensive Review of Surface-Modified Adsorbents for Improving Per- and Polyfluoroalkyl Substances (PFAS) Removal: Materials, Mechanisms, and Regeneration Strategies"

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Reviewer Report

The manuscript presents a timely and comprehensive review of surface-modified adsorbents for PFAS removal. The topic is important, and the manuscript is generally well-organized with useful summary tables and discussions on adsorption mechanisms and regeneration strategies.

I have a few suggestions for improvement:

1. The review is informative but largely descriptive. A more critical comparison of the advantages and limitations of different adsorbent modification strategies would strengthen the manuscript.
2. The authors may consider including some additional recent publications on PFAS adsorption and remediation to further update the literature coverage.
3. More discussion on practical application challenges, such as performance in real water systems, scalability, and regeneration efficiency, would enhance the impact of the review.
4. The manuscript would benefit from minor language editing to improve readability.
5. The graphical abstract appears slightly blurred and should be checked to improve image quality and clarity.

Recommendation: Minor Revision

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The manuscript addresses an important topic and provides valuable information for researchers in the field. After addressing the comments above, it would be suitable for publication.

Declarations

Potential competing interests: No potential competing interests to declare.