

Review of: "Effective use of Waste Materials: A Case Study of Utilization of Fly Ash in Flexible Pavement Structures"

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Potential competing interests: No potential competing interests to declare.

The coherence between the title and the content of the work is lacking; while labeled as a review paper, the content resembles more of a case study. In a comprehensive review analysis, the paper should delve beyond mere enumeration of past research endeavors, instead providing succinct summaries of their findings while spotlighting lingering unresolved issues.

Notably absent is a thorough discussion regarding the optimal proportion of fly ash in asphalt pavement, a pivotal aspect deserving attention. I recommend that the authors incorporate insights on the reduction of the carbon footprint achievable through cement reduction.

To enhance the review's depth, inclusion of visual aids such as photographs and graphs showcasing results from prior studies in the literature would be advantageous. Furthermore, the integration of a summary table elucidating the diverse applications of fly ash would aid in synthesizing information for the reader.

Additionally, it is imperative to direct discussions towards experimental setups, testing methodologies, and inherent limitations of the research methodologies employed in the studies under review. Addressing these aspects would significantly bolster the paper's scholarly value and analytical rigor.