

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 paper is a comprehensive literature review of the use of fly ash as a cement replacement material for producing flexible pavement. I suggest that the authors may mention the reduction of the carbon footprint by reducing cement. Adding some photos and graphs of the results obtained by researchers in the literature may improve the review. Adding more references related to the use of cement-replaced materials and waste materials in concrete may enrich this review. I add here examples of my research papers related to the topic.

Saif, M.S., Shanour, Ali. S., Abdelaziz, G. E., Elsayad, H. I., Shaaban, I. G., Tayeh, B. A., Hammad, M. S. (2022), "Influence of blended powders on properties of Ultra-High Strength Fibre Reinforced Self-Compacting Concrete subjected to elevated temperatures," Case Studies in Construction Materials, Vol. 18, e01793<https://doi.org/10.1016/j.cscm.2022.e0179>

Shaaban, I. G., Rizzuto, J. P., El-Nemr, A., Bohan, L., Ahmed, H., Tindyebwa, H., "Mechanical Properties and Air Permeability of Concrete Containing Waste Tyres Extracts," Journal of Materials in Civil Engineering, ASCE, Vol. 33, No. 2, February 2021, pp. 04020472-1-12. <https://ascelibrary.org/doi/10.1061/%28ASCE%29MT.1943-5533.0003588>

Nuruddin, M.F, Mohamed, B.S, Sani, H, and Shaaban, I.G., "Methods of curing Geopolymer concrete: A review," International Journal of Advanced and Applied Sciences (IJAS), Vol. 5, No. 1, pp. 31-36, January 2018, <https://doi.org/10.21833/ijaas.2018.01.005>