Review of: "Shear performance of polypropylene fiber reinforced high-strength self-compacting concrete beams"

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Potential competing interests: No potential competing interests to declare.

Adding about 12mm length PP fibers to cement resulted in improved mechanical properties. Specifically, properties improved gradually with increasing PP content, notably enhancing compressive and shear strength characteristics. While the introduction highlights similar findings in prior research, the novelty of this study lies in its focus on shear enhancement.

Most studies presented clear rationale for experimentation and yielded favorable results based on appropriate assumptions. However, there is a lack of discussion regarding the structural enhancements and mechanisms resulting from fiber addition.

Typically, the addition of reinforcements to existing materials tends to enhance properties, attributed to the reinforcing effects of additives. However, this study lacks comprehensive interpretation of the causes behind the increased properties and the implementation of mechanisms.

Readers of this study will be curious about the mechanisms improving properties and influencing structure. Therefore, the author needs to supplement this information.