

# Review of: "The Effects of Polypropylene Wastes on the Compressive Strength of Grade 25 Concrete"

Jinjin Ge

**Potential competing interests:** No potential competing interests to declare.

In my opinion, the author's research topic is the use of waste material polypropylene to replace part of the fine aggregate to prepare concrete, and the effect on the compressive strength of concrete by mixing different amounts of waste material polypropylene, which can be said to be still very meaningful to mitigate the environmental impact. However, it is not very informative in terms of content, and I would recommend some substantial revisions and improvements before final publication:

1 The abstract only describes the effect of PP dosage on compressive strength, but from the text it is known that the authors studied the tests of slump, water absorption, and other properties under different PP dosages. The abstract part is not reflected, so it is recommended that the authors improve these test data in this part of the abstract.

2 Test materials: The authors only sieved and analyzed the fine aggregate, coarse aggregate, and polypropylene samples. It is recommended that the authors add a table of the composition of the fine and coarse aggregates and the performance indices of the polypropylene samples.

3 Tests: It is recommended that the authors provide appropriate descriptions of tests such as sieve analysis tests and slump tests.

4 Conclusions: The author's title is to study the effect of waste polypropylene fibers on compressive strength, but only the fourth of the five subconclusions in the conclusion section is a description of the effect on compressive strength, so it is recommended that the author re-describe it and improve it.