

Review Form 3

Journal Name:	Advances in Research
Manuscript Number:	Ms_AIR_125819
Title of the Manuscript:	A review of rheological properties of steel fiber reinforced concrete
Type of the Article	Opinion Article (An Overview

General guidelines for the Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound. To know the complete guidelines for the Peer Review process, reviewers are requested to visit this link:

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PART 1: Review Comments

Compulsory REVISION comments	Reviewer's comment	Author's Feedback <i>(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i>
Please write a few sentences regarding the importance of this manuscript for the scientific community. Why do you like (or dislike) this manuscript? A minimum of 3-4 sentences may be required for this part.	Enriches the domain to some extent but there is an urgent need of further investigations on the topic.	
Is the title of the article suitable? (If not please suggest an alternative title)	Yes	
Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here.	Abstract needs the addition of brief methodology of Analysis.	By reviewing relevant literature both domestically and internationally, the article compares and analyzes the construction characteristics and applicable scope of commonly used concrete rheometers, and analyzes the influence of factors such as water cement ratio, mineral admixtures, aggregate properties, steel fiber properties, and additives on the rheological performance test results.
Are subsections and structure of the manuscript appropriate?	Yes	
Please write a few sentences regarding the scientific correctness of this manuscript. Why do you think that this manuscript is scientifically robust and technically sound? A minimum of 3-4 sentences may be required for this part.	Edit one more subtitle of Methodology for analysis. How did the author conduct the analysis and also the comparison table it needs if possible.	The test results of different concrete rheometers show the same pattern, but there are significant differences in the absolute values of the test results, indicating that the geometric structure of the rheometer has a direct impact on the measurement data, which in turn affects the establishment of the rheological model. This article analyzes the selection of rheometers by comparing their applicability.
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.	Sufficient	

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Minor REVISION comments Is the language/English quality of the article suitable for scholarly communications?	Minor revision for spellings and punctuation errors	Modified
Optional/General comments	Abstract and Conclusion is very general some numeric values must be extracted from the reviewed existing research. Methodology may be expressed in flow charts.	Abstract:The rheological properties of steel fiber reinforced concrete have a significant impact on engineering quality, and experimental characterization of the rheological properties of steel fiber reinforced concrete has significant engineering significance and scientific research value. By reviewing relevant literature both domestically and internationally, the article compares and analyzes the construction characteristics and applicable scope of commonly used concrete rheometers, and analyzes the influence of factors such as water cement ratio, mineral admixtures, aggregate properties, steel fiber properties, and additives on the rheological performance test results. The results show that there are significant differences in the test results using different rheometers, and the degree of influence of different factors on the rheological properties of steel fiber reinforced concrete is also different. This can provide reference for the selection of rheological performance testing methods and parameter control of steel fiber reinforced concrete. Conclusion:For decades, the workability of concrete has been a significant concern in the field of civil engineering. The pumpability, placing, self-compatibility, and shaping of concrete are closely related to its rheological properties. Moreover, the rheological behavior of concrete also influences its strength and durability after hardening. The incorporation of steel fibers into concrete can modify its workability and rheological performance to a certain extent. Therefore, enhancing the workability of steel fiber-reinforced concrete remains a topic that requires further research, and the current body of knowledge on the rheological properties of steel fiber-reinforced concrete still needs to be expanded. In addition, establishing the correlation between rheological properties and workability is a new approach for optimizing the design of steel fiber reinforced concrete.

PART 2:

	Reviewer's comment	Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
Are there ethical issues in this manuscript?	(If yes, Kindly please write down the ethical issues here in details)	No