

Review of: "On the rheology of thixotropic and rheopexic suspensions: accounting for the formation of trimers"

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Potential competing interests: No potential competing interests to declare.

1. The second equation in the system of equations labelled (4) is incorrect. Specifically, this equation is a replica of the 1st equation giving the rate of change of ϕ_1 whereas it is supposed to be an equation describing the rate of change in ϕ_2 . In particular, the occurrence of ϕ_1 in this second differential equation needs to be changed to ϕ_2 and the first two signs on the RHS need to be reversed. ***This was corrected in the updated version of the article!
2. There is also no Equation (5) in the manuscript. The system of differential equations labelled as (4) in the manuscript are thereafter erroneously referenced as equation (5) in the manuscript. ***This was corrected in the updated version of the article!
3. The two sets of algebraic equations appearing between equations (4) and (6) must be numbered for ease of reference.
4. The word "where" appearing in-between the algebraic equations (leading to equation (6)) is inappropriate as it gives the impression that the first set of algebraic equations is a consequence of the second set of algebraic equations - this is incorrect. The first set of algebraic equations in fact give rise to the second set (by respectively adding the subtracting the first set of equations). The word "where" should therefore be replaced with something along the lines of "This leads to the simplified set of algebraic equations" or "whence". ***This was corrected in the updated version of the article!
5. All equations must be punctuated appropriately with commas or fullstops. A number of equations are not punctuated. Additionally, a sentence that follows an equation which is punctuated by a full stop must start with a capitalized letter.
6. Except for a small portion of Fig. 5 (the portion corresponding to shear rates below 100/s demonstrating dilatant behaviour), the rest of the graphical results illustrate pseudoplastic behaviour. The conclusion labelled 1 is therefore misleading as the authors present no results illustrating either thixotropic or rheopexic behaviour. The authors' reference to these time-dependent viscosity behaviour are simply conjectures (and not conclusions) and must be reflected as such. The conclusion must therefore be reworded to reflect the actual results.