



OPEN

Editorial Expression of Concern: The improvement of mechanical properties of conventional concretes using carbon nanoparticles using molecular dynamics simulation

Liang Zhao, Mahyuddin K. M. Nasution, Maboud Hekmatifar, Roozbeh Sabetvand, Pavel Kamenskov, Davood Toghraie, As'ad Alizadeh & Teimour Ghahari Iran

Editorial Expression of Concern to: *Scientific Reports* <https://doi.org/10.1038/s41598-021-99616-y>, published online 12 October 2021

The Editors are issuing an Editorial Expression of Concern to alert readers that this article shows substantial indication of irregularities in authorship during the submission process. Readers should also note that the source of the coefficients used in Table 1 was omitted and is Rappé et al. 1992¹.

Davood Toghraie agrees with this statement. Liang Zhao, Mahyuddin K. M. Nasution, Maboud Hekmatifar, Roozbeh Sabetvand, Pavel Kamenskov, As'ad Alizadeh & Teimour Ghahari Iran have not responded to correspondence about this statement.

Reference

1. Rappé, A. K., Casewit, C. J., Colwell, K., Goddard, W. A. III. & Skiff, W. M. UFF, a full periodic table force field for molecular mechanics and molecular dynamics simulations. *J. Am. Chem. Soc.* **114**(25), 10024–10035 (1992).



Open Access This article is licensed under a Creative Commons Attribution 4.0 International License, which permits use, sharing, adaptation, distribution and reproduction in any medium or format, as long as you give appropriate credit to the original author(s) and the source, provide a link to the Creative Commons licence, and indicate if changes were made. The images or other third party material in this article are included in the article's Creative Commons licence, unless indicated otherwise in a credit line to the material. If material is not included in the article's Creative Commons licence and your intended use is not permitted by statutory regulation or exceeds the permitted use, you will need to obtain permission directly from the copyright holder. To view a copy of this licence, visit <http://creativecommons.org/licenses/by/4.0/>.

© The Publisher 2022