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Retraction: Adsorption and sensor performance of transition metal-decorated zirconium-doped silicon carbide nanotubes for NO₂ gas application: a computational insight

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 Retraction of 'Adsorption and sensor performance of transition metal-decorated zirconium-doped silicon carbide nanotubes for NO₂ gas application: a computational insight' by Ismail O. Amodu *et al.*, *RSC Adv.*, 2024, 14, 5351–5369, <https://doi.org/10.1039/D3RA08796D>.

The Royal Society of Chemistry hereby wholly retracts this *RSC Advances* article due to concerns with the reliability of the data.

The molecular dynamic (MD) simulations have not been described satisfactorily with mistakes throughout, such as the misuse of the term "time-step". In addition, some of the results are inconsistent with the statements made by the authors, such as the temperature used, as well as the data in Table 4 being impossible to obtain from the formulae mentioned by the authors.

The authors have not been able to provide the input or trajectory file generated from the MD simulations.

In addition, the affiliation for the corresponding author was given incorrectly in the original article. This has been corrected in this notice.

Given the significance of these concerns, the Editor has lost confidence that the findings presented in this paper are reliable. The authors were informed but have not responded to any correspondence regarding the retraction.

Laura Fisher, Executive Editor, *RSC Advances*
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