Retraction Note to: Site Specific Interaction Between TiO₂ Nanoparticles and Phenanthrimidazole—A First Principles Quantum Mechanical Study

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The Editor-in-Chief has retracted this article [1]. Concerns were raised with the following images:

- Figure 1a and Fig. 4b appear to look identical
- Figure 2, panels c and d appear to look very similar
- Figure 4c appears to contain an irregular graph
- Figure 5, panels c and d appear to look very similar
- Figure 7, panels 1 and 2 appear to look very similar
- Figure 10: the panels for “Imidazole-TiO₂ (R) composite” and “imidazole-TiO₂ (A) composite” appear to look very similar.

Additionally, the article overlaps with two previously published articles [2, 3]. The data reported in this article are therefore unreliable. The authors have not responded to any correspondence regarding this retraction.

References

1. Jayabharathi, J., Ramanathan, P., Karunakaran, C. et al. Site Specific Interaction Between TiO₂ Nanoparticles and Phenanthrimidazole—A First Principles Quantum Mechanical Study. *J Fluoresc* 25, 1063–1083 (2015). <https://doi.org/10.1007/s10895-015-1593-2>
2. Jayabharathi, J., Karunakaran, C., Thanikachalam, V., & Ramanathan, P. (2014). Binding and fluorescence enhancing behaviour of phenanthrimidazole with different phases of TiO₂. *New Journal of Chemistry*, 38(9), 4321. <https://doi.org/10.1039/c4nj00610k>
3. Jayabharathi, J., Sundharesan, M., Prabhakaran, A., & Karunakaran, C. (2015). Understanding the binding interaction of imidazole with ZnO nanomaterials and clusters. *RSC Advances*, 5(13), 9518–9531. <https://doi.org/10.1039/c4ra15957h>

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