Corrigendum

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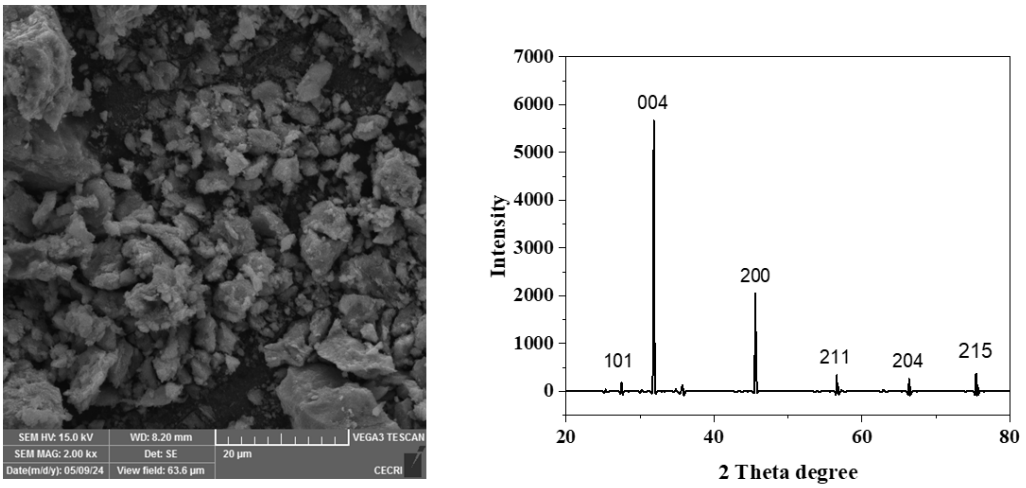
Corrigendum to "Optimization of biomethane production from pet coke through anaerobic digestion using microbial inoculum and Fe_2O_3 nanoparticles: A response surface methodology approach"

In the published article titled 'Optimization of biomethane production from pet coke through anaerobic digestion using microbial inoculum and Fe_2O_3 nanoparticles: A response surface methodology approach' which appeared in volume: 14, issue: 02 of the Journal of Applied Biology & Biotechnology [1], the authors have identified errors in the published version of the article.

The corrected expressions are as follows:

1. **Figure replacement:** The originally published Figure 2 (**SEM and XRD analysis of magnetic Fe_2O_3 nanoparticles**) contained inaccuracies. The figure has been replaced with the corrected version provided by the authors, as given below:



2. **Text correction (Section 3.2: SEM and XRD of Magnetic Fe_2O_3 NP):** The sentence: "The notable peaks at 218, 220, and 308 …" should be replaced with: "The notable peaks at 101, 004, 200, 211, and 204, 215 …"
3. Additionally, the sentence: "So also, the most intense peak at 311 …" should be replaced with: "So also, the most intense peak at 004 …"

These corrections are limited to the presentation and description of Figure 2 and the XRD peak assignments in Section 3.2. They do not affect the experimental biomethane yield data, RSM optimization results, GC analysis, or the main conclusion regarding optimized biomethane production from pet coke.

The authors apologize for these errors and any inconvenience caused to readers.

REFERENCE

1. Rajarathinam R, Yousif M. Optimization of biomethane production from pet coke through anaerobic digestion using microbial inoculum and Fe_2O_3 nanoparticles: A response surface methodology approach. J Appl Biol Biotech 2026;14(2):175-184. http://doi.org/10.7324/JABB.2026.265069