



**Corrigendum Notice: A corrigendum has been issued for this article and is included at the end of this document.**

*Post-Publication Notice*

**Corrigendum to “M. Mustafin, “Probing molecular architectures and interactions with scanning tunneling microscopy on graphite and arachidic acid functionalized surfaces”, *tbusphys*, vol. 2, no. 2, p. 0010, Apr. 2025. doi: 10.54355/tbusphys/2.2.2024.0010”**

In the originally published version of this article, the Methods section omitted crucial details about the experimental setup and data acquisition process.

The following corrections have been made:

1. Section 2 (Methods):

- The updated text specifies the STM equipment manufacturer (Gulmeyer Company), vibration isolation system, feedback loop parameters (PID values), and measurement conditions (bias voltage, tunneling current, scanning speed).

- Additional details on software tools used (Nanoscope V for acquisition, Gwyddion 2.63 for analysis) have been provided.

- The description of repeated scans for reproducibility and imaging conditions for both graphite and arachidic acid-treated surfaces has been expanded.

2. Editorial corrections have been made to clarify technical terminology and improve reproducibility of the experimental methodology.

Additionally, the following references have been updated:

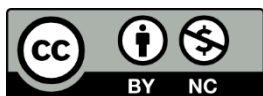
- “Study of superconductors by electron tunneling / I. Giaever, K. Megerle // *Physical Review*. — 1961. — Vol. 122, No. 4. — P. 1101–1111.” has been replaced with “Scanning tunneling microscope study of iron-based superconductors / Q. Zhang, Zh. Xu // *Acta Microscopica*. — 2019. — Vol. 28, No. 6. — P. 1491–1498.”

- “Phonon induced tunneling of ions in solids / J.A. Sussmann // *Physik der Kondensierten Materie*. — 1964. — Vol. 2, No. 2. — P. 146–160.” has been replaced with “Quantum-correlated fluctuations, phonon-induced bond polarization, enhanced tunneling, and low-energy nuclear reactions in condensed matter / K.P. Sinha, A. Meulenberg // *Proceedings of the 16th International Conference on Condensed Matter Nuclear Science, ICCF 2011: "Celebrating the Centenary of the Discovery of the Atomic Nucleus"*. — 2011. — P. 132–141.”

- “Energy distributions of field emitted electrons / R. Stratton // *Physical Review*. — 1964. — Vol. 135, No. 3A. — P. A794–A805.” has been replaced with “High-resolution energy measurement of field-emitted electrons from a single crystalline magnetite whisker / H. Sakakibara, S. Nagai, K. Hata, T. Iwata, M. Okada, H. Mimura // *Surface and Interface Analysis*. — 2012. — Vol. 44, No. 6. — P. 699–702. <https://doi.org/10.1002/sia.4811>.”

These amendments do not affect the results, conclusions, or scientific validity of the article. They enhance transparency and methodological precision.

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