

RETRACTION

Retraction: Green synthesis of SiO₂ nanoparticles from *Rhus coriaria* L. extract: Comparison with chemically synthesized SiO₂ nanoparticles

The *PLOS One* Editors

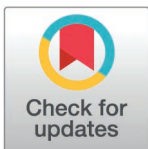
Following the publication of this article [1], concerns were raised about Figs 6 and 7, as well as about the availability of the underlying data. Specifically:

- Fig 6A appears highly similar to the right panel of Fig 4 in [2], which was published in 2017 by different authors.
- There is a mismatch between the reported electron microscope in the Methods sections (Quanta 450) and the banners in Fig 6 (MIRA3 TESCAN).
- In Fig 7B, two regions with a highly similar pixelation pattern were noted.
- The underlying data supporting the study results reported in [1] are not available. At the time of submission, *PLOS One* policy required authors to make the underlying data available with the article.

The comments and data provided by the authors in response to the above-mentioned issues did not resolve the concerns about the published results.

In light of the above unresolved concerns that question the reliability and integrity of these results, the *PLOS One* Editors retract this article [1].

ASM did not agree with the retraction. CYR, AAB, and SMH either did not respond directly or could not be reached.



References

1. Rahimzadeh CY, Barzinjy AA, Mohammed AS, Hamad SM. RETRACTED: Green synthesis of SiO₂ nanoparticles from *Rhus coriaria* L. extract: Comparison with chemically synthesized SiO₂ nanoparticles. *PLoS One*. 2022;17(8):e0268184. <https://doi.org/10.1371/journal.pone.0268184> PMID: 35930607
2. Mohamad IS, Ismail SS, Norizan MN, Murad SAZ, Abdullah MMA. ZnO Photoanode Effect on the Efficiency Performance of Organic Based Dye Sensitized Solar Cell. *IOP Conference Series: Materials Science and Engineering*. 2017;209:012028. <https://doi.org/10.1088/1757-899x/209/1/012028>

OPEN ACCESS

Citation: The *PLOS One* Editors (2026) Retraction: Green synthesis of SiO₂ nanoparticles from *Rhus coriaria* L. extract: Comparison with chemically synthesized SiO₂ nanoparticles. *PLoS One* 21(4): e0346847. <https://doi.org/10.1371/journal.pone.0346847>

Published: April 9, 2026

Copyright: © 2026 The *PLOS One* Editors. This is an open access article distributed under the terms of the [Creative Commons Attribution License](https://creativecommons.org/licenses/by/4.0/), which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited.