



OPEN ACCESS

APPROVED BY
Frontiers Editorial Office,
Frontiers Media SA, Switzerland

*CORRESPONDENCE
Frontiers Editorial Office,
✉ research.integrity@frontiersin.org

RECEIVED 29 July 2025
ACCEPTED 29 July 2025
PUBLISHED 07 August 2025

CITATION

Frontiers Editorial Office (2025) Retraction:
Exchange rate dynamics, energy consumption,
and sustainable environment in Pakistan: new
evidence from nonlinear ARDL cointegration.
Front. Environ. Sci. 13:1675449.
doi: 10.3389/fenvs.2025.1675449

COPYRIGHT

© 2025 Frontiers Editorial Office. This is an
open-access article distributed under the terms
of the [Creative Commons Attribution License](#)
(CC BY). The use, distribution or reproduction in
other forums is permitted, provided the original
author(s) and the copyright owner(s) are
credited and that the original publication in this
journal is cited, in accordance with accepted
academic practice. No use, distribution or
reproduction is permitted which does not
comply with these terms.

Retraction: Exchange rate dynamics, energy consumption, and sustainable environment in Pakistan: new evidence from nonlinear ARDL cointegration

Frontiers Editorial Office*

A Retraction of the Original Research Article

[Exchange rate dynamics, energy consumption, and sustainable environment in Pakistan: new evidence from nonlinear ARDL cointegration](#)

by Shah MH, Ullah I, Salem S, Ashfaq S, Rehman A, Zeeshan M and Fareed Z (2022). *Front. Environ. Sci.* 9:814666. doi: [10.3389/fenvs.2021.814666](https://doi.org/10.3389/fenvs.2021.814666)

The journal retracts the 2022 article cited above.

Frontiers Research Integrity Auditing team has investigated and uncovered a network of authors and editors who conducted peer review with undisclosed conflicts of interest and who have engaged in citation manipulation. The investigation identified this article as one for which the integrity of the peer review process has been undermined, resulting in the loss of confidence in the article's findings.

The authors received communication regarding the retraction and were given a chance to respond, with some discussions still ongoing. This exchange has been recorded by the publisher. The investigation was not able to determine whether all authors, editors, or reviewers were aware of or involved in the misconduct, but this misconduct was significant enough to determine that the scientific integrity of the article cannot be guaranteed.

In adherence to the recommendations of the Committee on Publication Ethics (COPE), the article is retracted. The retraction was approved by the Chief Executive Editor at Frontiers and the Field Chief Editor of Frontiers in Environmental Science.