UC Berkeley

UC Berkeley Previously Published Works

Title

Author Correction: An autonomous laboratory for the accelerated synthesis of inorganic materials

Permalink

https://escholarship.org/uc/item/4kb4s6pg

Journal

Nature, 650(8100)

ISSN

0028-0836

Authors

Szymanski, Nathan J

Rendy, Bernardus

Fei, Yuxing

et al.

Publication Date

2026-02-05

DOI

10.1038/s41586-025-09992-y

Copyright Information

This work is made available under the terms of a Creative Commons Attribution License, available at https://creativecommons.org/licenses/by/4.0/

Peer reviewed

eScholarship.org Powered by the California Digital Library
University of California

Author Correction: An autonomous laboratory for the accelerated synthesis of inorganic materials

https://doi.org/10.1038/s41586-025-09992-y

Published online: 19 January 2026

Correction to: *Nature* https://doi.org/10.1038/s41586-023-06734-w

Published online 29 November 2023

Open access

Check for updates

Nathan J. Szymanski, Bernardus Rendy, Yuxing Fei, Rishi E. Kumar, Tanjin He, David Milsted, Matthew J. McDermott, Max Gallant, Ekin Dogus Cubuk, Amil Merchant, Haegyeom Kim, Anubhav Jain, Christopher J. Bartel, Kristin Persson, Yan Zeng & Gerbrand Ceder

Following publication of this article, concerns were raised about the unambiguous identification of the compound structures using diffraction as well as the original claims of material novelty. We acknowledge that the original claims of material novelty were subject to misinterpretation—their intention was to indicate that the materials were new to the prediction platform, not necessarily new to science. The article text has been updated to reflect this in the HTML and PDF versions of the article. For a detailed breakdown of the textual changes, please see the annotated PDF article file available as Supplementary Information accompanying this amendment.

In addition, we have manually re-analyzed the diffraction patterns and have confirmed that the prediction platform came to the correct conclusion in 36 of its 40 reported successes, with 4 compounds being inconclusive. This re-analysis was peer-reviewed post-publication. The total number of compounds successfully made by the platform has now been updated to exclude four target materials whose presence is inconclusive from XRD alone. We have also removed one compound from the discussion (Zn2Cr3FeO8) that was mistakenly included in the training data. These changes are reflected in Fig. 2, which has been updated in the HTML and PDF versions of the article, as well as the updated Supplementary Information and Supplementary Data. The edits to the Supplementary Information and Supplementary Data are shown in the PDF files accompanying this amendment.

Nature thanks the correspondents who brought these issues to our and the authors' attention, and the reviewers who assessed the re-analyzed PXRD data post-publication.

Open Access This article is licensed under a Creative Commons Attribution 4.0 International License, which permits use, sharing, adaptation, distribution and reproduction in any medium or format, as long as you give appropriate credit to the original author(s) and the source, provide a link to the Creative Commons licence, and indicate if changes were made. The images or other third party material in this article are included in the article's Creative Commons licence, unless indicated otherwise in a credit line to the material. If material is not included in the article's Creative Commons licence and your intended use is not permitted by statutory regulation or exceeds the permitted use, you will need to obtain permission directly from the copyright holder. To view a copy of this licence, visit http://creativecommons.org/licenses/by/4.0/.

© The Author(s) 2026