

Resource Summary Report

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Coherent X-Ray Imaging Data Bank (CXIDB)

RRID:SCR_014722

Type: Tool

Proper Citation

Coherent X-Ray Imaging Data Bank (CXIDB) (RRID:SCR_014722)

Resource Information

URL: <http://cxidb.org>

Proper Citation: Coherent X-Ray Imaging Data Bank (CXIDB) (RRID:SCR_014722)

Description: Database of Coherent X-ray Imaging (CXI) experiments. This data is widely accessible to researchers worldwide.

Abbreviations: CXIDB

Synonyms: Coherent X-ray Imaging Data Bank (CXIDB), CXIDB, Coherent X-ray Imaging Data Bank

Resource Type: data or information resource, data repository, database, service resource, storage service resource

Keywords: coherent xray imaging, cxi, experiment, database, reproducibility

Availability: Available to the research community

Resource Name: Coherent X-Ray Imaging Data Bank (CXIDB)

Resource ID: SCR_014722

Alternate IDs: DOI:10.11577, r3d100011554

Alternate URLs: <https://doi.org/10.11577/>, <https://dx.doi.org/10.11577/>

Record Creation Time: 20220129T080322+0000

Record Last Update: 20260821T194007+0000

Ratings and Alerts

No rating or validation information has been found for Coherent X-Ray Imaging Data Bank (CXIDB).

No alerts have been found for Coherent X-Ray Imaging Data Bank (CXIDB).

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 23 mentions in open access literature.

Listed below are recent publications. The full list is available at [dkNET](#) .

Shenoy J, et al. (2025) Scalable 3D reconstruction for X-ray single particle imaging with online machine learning. Nature communications, 16(1), 6812.

Gasparotto P, et al. (2024) TORO Indexer: a PyTorch-based indexing algorithm for kilohertz serial crystallography. Journal of applied crystallography, 57(Pt 4), 931.

Bhowmick A, et al. (2023) Structural evidence for intermediates during O₂ formation in photosystem II. Nature, 617(7961), 629.

Kroon-Batenburg LMJ, et al. (2023) Making your raw data available to the macromolecular crystallography community. Acta crystallographica. Section F, Structural biology communications, 79(Pt 10), 267.

Simonne D, et al. (2022) Gwaihir: Jupyter Notebook graphical user interface for Bragg coherent diffraction imaging. Journal of applied crystallography, 55(Pt 4), 1045.

Nass K, et al. (2021) Pink-beam serial femtosecond crystallography for accurate structure-factor determination at an X-ray free-electron laser. IUCrJ, 8(Pt 6), 905.

Im D, et al. (2020) Structure of the dopamine D₂ receptor in complex with the antipsychotic drug spiperone. Nature communications, 11(1), 6442.

Morgan AJ, et al. (2020) speckle-tracking: a software suite for ptychographic X-ray speckle tracking. Journal of applied crystallography, 53(Pt 6), 1603.

Echelmeier A, et al. (2020) Segmented flow generator for serial crystallography at the European X-ray free electron laser. Nature communications, 11(1), 4511.

Shapiro DA, et al. (2020) An ultrahigh-resolution soft x-ray microscope for quantitative analysis of chemically heterogeneous nanomaterials. Science advances, 6(51).

Helliwell JR, et al. (2019) Findable Accessible Interoperable Re-usable (FAIR) diffraction data are coming to protein crystallography. Acta crystallographica. Section D, Structural biology, 75(Pt 5), 455.

Helliwell JR, et al. (2019) Findable Accessible Interoperable Re-usable (FAIR) diffraction data are coming to protein crystallography. *Acta crystallographica. Section F, Structural biology communications*, 75(Pt 5), 321.

Brändén G, et al. (2019) Coherent diffractive imaging of microtubules using an X-ray laser. *Nature communications*, 10(1), 2589.

Giewekemeyer K, et al. (2019) Experimental 3D coherent diffractive imaging from photon-sparse random projections. *IUCrJ*, 6(Pt 3), 357.

Helliwell JR, et al. (2019) Findable Accessible Interoperable Re-usable (FAIR) diffraction data are coming to protein crystallography. *Journal of applied crystallography*, 52(Pt 3), 495.

Helliwell JR, et al. (2019) FACT and FAIR with Big Data allows objectivity in science: The view of crystallography. *Structural dynamics (Melville, N.Y.)*, 6(5), 054306.

Helliwell JR, et al. (2019) Findable Accessible Interoperable Re-usable (FAIR) diffraction data are coming to protein crystallography. *IUCrJ*, 6(Pt 3), 341.

Tosha T, et al. (2017) Capturing an initial intermediate during the P450_{nor} enzymatic reaction using time-resolved XFEL crystallography and caged-substrate. *Nature communications*, 8(1), 1585.

Sugahara M, et al. (2017) Hydroxyethyl cellulose matrix applied to serial crystallography. *Scientific reports*, 7(1), 703.

Hasegawa K, et al. (2017) Development of a dose-limiting data collection strategy for serial synchrotron rotation crystallography. *Journal of synchrotron radiation*, 24(Pt 1), 29.