

Resource Summary Report

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Inorganic Crystal Structure Database (ICSD)

RRID:SCR_017429

Type: Tool

Proper Citation

Inorganic Crystal Structure Database (ICSD) (RRID:SCR_017429)

Resource Information

URL: <https://icsd.products.fiz-karlsruhe.de/>

Proper Citation: Inorganic Crystal Structure Database (ICSD) (RRID:SCR_017429)

Description: Database for completely identified inorganic crystal structures. Collection of known inorganic crystal structures published since 1913, including their atomic coordinates. Includes only data which have passed thorough quality checks. Tool for materials research.

Abbreviations: ICSD

Synonyms: Inorganic Crystal Structure Database, Inorganic Crystal Structure Database (ICSD), ICSD

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

Keywords: Inorganic, crystal, structure, data, atomic, coordinate, quality, FIZ Karlsruhe — Leibniz Institute for Information Infrastructure

Availability: Restricted

Resource Name: Inorganic Crystal Structure Database (ICSD)

Resource ID: SCR_017429

Alternate IDs: r3d100010085

Alternate URLs: http://www2.fiz-karlsruhe.de/icsd_home.html,
<https://doi.org/10.17616/R3GW2V>

Record Creation Time: 20220129T080335+0000

Record Last Update: 20260903T235428+0000

Ratings and Alerts

No rating or validation information has been found for Inorganic Crystal Structure Database (ICSD).

No alerts have been found for Inorganic Crystal Structure Database (ICSD).

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 11 mentions in open access literature.

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

Shahnazari A, et al. (2026) Machine learning approaches for crystallographic classification from synthetic 2D X-ray diffraction data. Journal of applied crystallography, 59(Pt 1), 206.

Moore BJ, et al. (2026) Structure and optical properties of a trimetallic cobalt-molybdenum-sodium metal-organic framework. Acta crystallographica. Section C, Structural chemistry, 82(Pt 3), 102.

Gorelik TE, et al. (2025) Unit-cell parameters determination from a set of independent electron diffraction zonal patterns. Acta crystallographica. Section A, Foundations and advances, 81(Pt 2), 124.

Helttunen K, et al. (2025) CIF extension for Visual Studio Code. Journal of applied crystallography, 58(Pt 4), 1469.

Zeni C, et al. (2025) A generative model for inorganic materials design. Nature, 639(8055), 624.

Bayode AA, et al. (2024) Sonophotocatalytic degradation of sulfamethoxazole using lanthanum ferrite perovskite oxide anchored on an ultrasonically exfoliated porous graphitic carbon nitride nanosheet. RSC advances, 14(31), 22063.

Jankovi? B, et al. (2023) Upcycling of the Used Cigarette Butt Filters through Pyrolysis Process: Detailed Kinetic Mechanism with Bio-Char Characterization. Polymers, 15(14).

Goodall REA, et al. (2022) Rapid discovery of stable materials by coordinate-free coarse graining. Science advances, 8(30), eabn4117.

de Sousa Iwamoto LA, et al. (2022) Evaluation of ethylene oxide, gamma radiation, dry heat and autoclave sterilization processes on extracellular matrix of biomaterial dental scaffolds. Scientific reports, 12(1), 4299.

Aziz A, et al. (2021) Towards Predictive Synthesis of Inorganic Materials Using Network Science. Frontiers in chemistry, 9, 798838.

Dong Z, et al. (2020) Atomic-level handedness determination of chiral crystals using aberration-corrected scanning transmission electron microscopy. *Nature communications*, 11(1), 1588.