

Resource Summary Report

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Crystallography Open Database (COD)

RRID:SCR_005874

Type: Tool

Proper Citation

Crystallography Open Database (COD) (RRID:SCR_005874)

Resource Information

URL: <http://www.crystallography.net/>

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Description: Database of crystal structures of organic, inorganic, metal-organic compounds and minerals, excluding biopolymers. It currently contains ~291204 entries (July 2014) in crystallographic information file format, with nearly full coverage of the International Union of Crystallography publications, and is growing in size and quality. Deposit your data: An interface allows you to upload, validate and edit CIF files before submitting them for deposition.

Abbreviations: COD

Synonyms: COD - Crystallography Open Database, Crystallography Open Database, Crystallography Open Database (COD), COD

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

Defining Citation: [PMID:22070882](#), [PMID:22477773](#)

Keywords: inorganic, metal-organic, organic, molecule, structure, small molecule, compound, mineral, crystal structure, crystallography, polymorphism, crystal, organic compound

Funding: Research Council of Lithuania contract MIP-124/2010

Availability: Public domain, The community can contribute to this resource, Acknowledgement requested

Resource Name: Crystallography Open Database (COD)

Resource ID: SCR_005874

Alternate IDs: r3d100010213, nlx_149430

Alternate URLs: <https://doi.org/10.17616/R37S31>

Record Creation Time: 20220129T080233+0000

Record Last Update: 20260905T132543+0000

Ratings and Alerts

No rating or validation information has been found for Crystallography Open Database (COD).

No alerts have been found for Crystallography Open Database (COD).

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 [PRECISE-TBI](#) .

Schüß C, et al. (2026) The pathway-independent positive allosteric modulator C1 allows for the identification of active Y4 receptor relevant positions. Cellular and molecular life sciences : CMLS, 83(1), 74.

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

Angelova L, et al. (2025) Surface Modification of Polyetheretherketone (PEEK) via Femtosecond Laser Microprocessing for Enhanced Bioactivity: A Preliminary Study. Bioengineering (Basel, Switzerland), 12(12).

Lu B, et al. (2024) When Machine Learning Meets 2D Materials: A Review. Advanced science (Weinheim, Baden-Wurttemberg, Germany), 11(13), e2305277.

Harbowo DG, et al. (2024) Microanalytical approaches on the silicification process of wood fossil from Jasinga, West Java, Indonesia. Scientific reports, 14(1), 19101.

Loskot J, et al. (2024) Impact of Saharan dust on particulate matter characteristics in an urban and a natural locality in Central Europe. Scientific reports, 14(1), 32002.

Edanami N, et al. (2023) In Vivo Assessment of the Calcium Salt-Forming Ability of a New Calcium Silicate-Based Intracanal Medicament: Bio-C Temp. Dentistry journal, 11(4).

Bellino A, et al. (2023) Biodiversity, Ecology and Distribution of Mediterranean Charophytes in Southern Italy. Plants (Basel, Switzerland), 12(19).

- Branco AJ, et al. (2023) Synthesis of gold-tin alloy nanoparticles with tunable plasmonic properties. *STAR protocols*, 4(3), 102410.
- Rubio L, et al. (2023) Partners in Postmortem Interval Estimation: X-ray Diffraction and Fourier Transform Spectroscopy. *International journal of molecular sciences*, 24(7).
- Mardare L, et al. (2021) Effects of TiO₂ Nanoparticles on the Corrosion Protection Ability of Polymeric Primer Coating System. *Polymers*, 13(4).
- Rubio L, et al. (2021) Recombinant IGF-1 Induces Sex-Specific Changes in Bone Composition and Remodeling in Adult Mice with Pappa2 Deficiency. *International journal of molecular sciences*, 22(8).
- Lazaratos M, et al. (2020) Coating of magnetic nanoparticles affects their interactions with model cell membranes. *Biochimica et biophysica acta. General subjects*, 1864(11), 129671.
- Li CP, et al. (2020) Cationic Pillar[6]arene Induces Cell Apoptosis by Inhibiting Protein Tyrosine Phosphorylation Via Host-Guest Recognition. *International journal of molecular sciences*, 21(14).
- Elsayed H, et al. (2019) Highly Porous Polymer-Derived Bioceramics Based on a Complex Hardystonite Solid Solution. *Materials (Basel, Switzerland)*, 12(23).
- Kumar G, et al. (2018) Pyrazole-pyrazoline as promising novel antimalarial agents: A mechanistic study. *European journal of medicinal chemistry*, 149, 139.
- Stuart BW, et al. (2018) Two step porosification of biomimetic thin-film hydroxyapatite/alpha-tri calcium phosphate coatings by pulsed electron beam irradiation. *Scientific reports*, 8(1), 14530.
- Jiang L, et al. (2017) N-Heterocyclic carbenes on close-packed coinage metal surfaces: bis-carbene metal adatom bonding scheme of monolayer films on Au, Ag and Cu. *Chemical science*, 8(12), 8301.
- Mancuso E, et al. (2017) Sensitivity of novel silicate and borate-based glass structures on in vitro bioactivity and degradation behaviour. *Ceramics international*, 43(15), 12651.
- Borysov SS, et al. (2017) Organic materials database: An open-access online database for data mining. *PloS one*, 12(2), e0171501.