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/

Proper Citation: Crystallography Open Database (COD) (RRID:SCR_005874)

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, service resource, data repository, database, 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: nlx_149430

Record Creation Time: 20220129T080233+0000

Record Last Update: 20250412T055009+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 17 mentions in open access literature.

Listed below are recent publications. The full list is available at dkNET.

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.

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).

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.

Kumar G, et al. (2018) Pyrazole-pyrazoline as promising novel antimalarial agents: A mechanistic study. European journal of medicinal chemistry, 149, 139.

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.

Merkys A, et al. (2016) COD::CIF::Parser: an error-correcting CIF parser for the Perl language. Journal of applied crystallography, 49(Pt 1), 292.

Caballero AB, et al. (2014) Triazolopyrimidine compounds containing first-row transition metals and their activity against the neglected infectious Chagas disease and leishmaniasis. European journal of medicinal chemistry, 85, 526.

Gražulis S, et al. (2009) Crystallography Open Database - an open-access collection of crystal structures. Journal of applied crystallography, 42(Pt 4), 726.