ICSD
Inorganic Crystal Structure Database

Are you working as a materials scientist and need reliable, high-quality crystal structure data for your innovative developments?

Then use ICSD, the world’s largest database for inorganic crystal structures!

ICSD contains more than 200,000 peer-reviewed and completely determined crystal structures dating back to 1913. About 7,000 new structures are added each year; recorded data are regularly checked and updated, if necessary. 80% of the structures are allocated to about 9,000 structure types. This allows for searches for substance classes.

Traditional Application
- Search for individual structures
- Aids for qualitative and quantitative analysis

Development and optimization of materials

New fields of application
- Prediction of structures and material properties
- Further development of methods
Benefit from

- all important crystal structure data, including unit cell, space group, complete atomic parameters, site occupation factors, Wyckoff symbols, ANX formula, mineral group, etc.
- theoretical structures that can serve as a basis for developing new materials
- keywords for links to physical and chemical properties, applications, and methodology
- abstracts for a quicker grasp of the article content
- simulation of powder diffraction data
- Structures types, a sophisticated classification scheme

Choose between several access options:

- ICSD Web: our web-portal at https://icsd.fiz-karlsruhe.de
- ICSD Desktop: Windows-based PC version typically used for local installations within smaller research groups
- STN: database included in STN international (www.stn-international.de)

More Information:
www.fiz-karlsruhe.de/en/icsd