# NFDI4Chem

## ENHANCE YOUR DATA.

## General Information

- Is your research in the field of **chemistry**?
- Would you like to **publish data** in a **FAIR** way but you do not know how and where?
- RADAR4Chem can be the **solution** you are looking for!

RADAR4Chem is a **reliable** and **low-threshold** publishing service for chemistry data operated by FIZ Karlsruhe - Leibniz Institute für Information Infrastructure. It is:

- **easy to use**,
- **secure,**
- **free of charge,**
- and can be used **independently of the institutional affiliation.**

**F**indable **A**ccessible **I**nteroperable **R**eusable
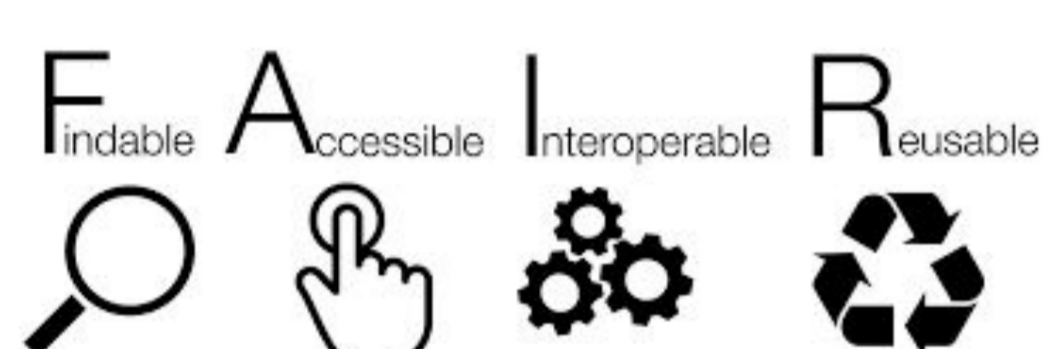
RADAR4Chem offers access to research data publications according to the **FAIR** (findable, accessible, interoperable, reusable) principles. Thus makes an important contribution to the improved **availability**, sustainable **preservation**, and **independent publication capability** of digital chemistry research data.

RADAR4Chem was developed within the framework of FIZ Karlsruhe´s participation in the NFDI4Chem consortium.

## RADAR4Chem Features

- Publishing service for a**ll data types** and **formats**
- **DOI registration** (DataCite) incl. DOI reservation option
- Unlimited retention period (at least **25 years**)
- Bitstream preservation
- **Annotation of metadata** via metadata editor or by XML upload
- Permanent identifiability, discoverability, accessibility, citability of records (according to FAIR criteria).
- Optional **embargo** period (1-12 months or unlimited)
- **Peer review option** prior to publication
- Choice of **licenses** for subsequent use
- **Relatability** with other digital resources
- Automatic **indexing of metadata** (DataCite Metadata Store, **OAI-PMH**, search engines) for maximum dissemination of data
- Login after self-registration or via DFN-AAI
- Metrics on access and download numbers

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RADAR4Chem helps you publish your chemistry research data as easily as possible - without neglecting convenience, data security or legal aspects.
And it's free of charge!

**RADAR 4Chem**

## RADAR4Chem Offering

With RADAR4Chem, you can upload the research data from your studies and projects via a web portal, compile them into data sets, describe them with metadata, have them peer-reviewed, and make them permanently available to the public.

RADAR4Chem is suitable for research data from all areas of chemistry, especially for datasets

- for which there is no tailor-made, specialist repository yet, or
- that contain such a large variety of data types that they do not fit into one single established repository, or
- that you would like to link to a data set in a specialist repository via DOI.

## History

RADAR4Chem is based on the well-established research data repository RADAR Cloud, which was developed as part of a DFG project. Since 2017, RADAR has been operated by FIZ Karlsruhe on a secure cloud platform, exclusively in Germany, according to German law and GDPR-compliant. Data is stored in three copies in the data centers of the Karlsruhe Institute of Technology (KIT) and TU Dresden.

FIZ Karlsruhe as well as KIT and TU Dresden have been co-applicants in NFDI4Chem right from the start of the first funding round of the National Research Data Infrastructure (NFDI).

With RADAR4Chem, FIZ Karlsruhe, KIT and TU Dresden provide a free storage quota for the publication of chemistry research data. Further, FIZ Karlsruhe takes over the fees for DOI registration of the datasets. The costs are borne from the funding budget for NFDI4Chem.

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## NFDI4Chem

**Vision:** to digitize all important steps in chemical research to support scientists in their efforts to collect, store, process, analyze, disclose and reuse research data. To this end, measures to promote open science and research data management in accordance with the FAIR principles will be developed and implemented, providing the chemistry community with access to research data using a holistic approach.

**Goal:** to develop and maintain a national research data infrastructure for the research field of chemistry in Germany in order to enable innovative and easy-to-use services as well as novel scientific approaches based on the reuse of research data. The consortium has defined five core objectives, e.g. to establish a virtual environment of federated repositories for storing, disclosing, searching and re-using data across distributed data sources.

**Infrastructures:** the NFDI aims to build on existing infrastructures and services, whenever possible, and to make them interoperable. Discipline-specific repositories for the publication and long-term archiving of digital research data are of particular importance to the scientific communities. However, analyses within NFDI4Chem revealed an additional need that can be met by a generically oriented data repository such as RADAR. RADAR4Chem thus complements the existing portfolio of specialist repositories in the field of chemistry.

## Contacts

We will be happy to advise you.

- Contact us at info@radar-service.eu
- Tell us your scientific discipline and your institution.
- Describe your research project and data set planned for publication (size, number of individual files, file format(s), planned publication date, optional embargo, etc.).

We advise you and explain details on how to register with RADAR4Chem, how to upload research data, how to annotate metadata, and finally how to publish.

Please note:

- The offer is exclusively directed to researchers at publicly funded research institutions and universities in Germany.
- Currently, the use of RADAR4Chem is limited to a maximum of 10 GB storage volume per research project.
- Before you publish data, you have to agree to our RADAR4Chem License and User Instructions (online).