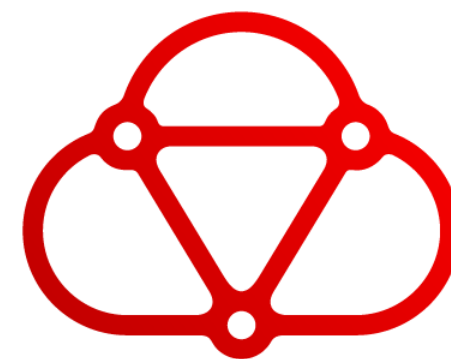


# Open science and open access in publications and data

## Using Materials Cloud Archive to deposit research data

Giovanni Pizzi  
THEOS, EPFL and MARVEL (OSP)



**MATERIALSCLOUD**

# SNSF requirements on Open Research Data

- SNSF **requires that all data** needed to reproduce funded publications must be made **openly available at the latest by the time of publication**

Profile  
Organisation  
Evaluation procedures  
Partners  
Research policies

- › Animal testing
- › Basic research
- › DORA declaration
- › European policy
- › Gender equality
- › International Collaboration
- › Language policy
- › Model of excellence
- › Open Access to Publications
- › Open Research Data
  - › Which data repositories can be used?
- › Promotion of young researchers
- › Scientific integrity
- › Use-inspired basic research
- › Statements and

## Data Management Plan (DMP) - Guidelines for researchers

### 1. Introduction

Managing and sharing research data as openly as possible is one of the principles of good scientific practice. The SNSF adheres to this principle, as stated in Article 47 of its [Funding Regulations](#): in stating that "[...] grantees are obliged to make available to the public in an appropriate manner the research results obtained with the help of SNSF funding, [...]". The SNSF has set out the criteria it expects funded researchers to meet in its [Open Research Data Policy statement](#). For the implementation of these principles, the SNSF favours a bottom-up approach. It provides best practice guidelines and gives each scientific community sufficient flexibility in defining and applying its own standards. In particular, the best way of managing and sharing data depends on the research field.

The aim of a Data Management Plan (DMP) is to plan the life cycle of data. It offers a long-term perspective by outlining how data will be generated, collected, documented, shared and preserved. The SNSF provides a template to help researchers complete their data management plan. Each project's DMP will refer to discipline specific standards and practices and thus its content may be different.

The SNSF expects that researchers share at least the data underlying their publications, but only to the extent to make the published results reproducible. This data should be shared as soon as possible, but at the latest together with the relevant scientific publication. Data can be raw or processed, depending on the project and the discipline. Datasets must always be carefully documented with associated metadata, such that other researchers understand how the data was collected, as well as under which conditions and how it can be re-used. If specific tools are needed to re-use the data, this needs to be documented and, if possible, the tools made available. In any case, the provided data and documentation (metadata) must be sufficient to ensure their reusability. Researchers are asked to explain in their DMP wherever these requirements cannot be met

[http://www.snf.ch/en/theSNSF/research-policies/open\\_research\\_data/Pages/data-management-plan-dmp-guidelines-for-researchers.aspx](http://www.snf.ch/en/theSNSF/research-policies/open_research_data/Pages/data-management-plan-dmp-guidelines-for-researchers.aspx)

# Materials Cloud Archive: <https://archive.materialscloud.org>



## Latest records



[Semi-local and hybrid functional DFT data for thermalised snapshots of polymorphs of benzene, succinic acid, and glycine](#)

DOI [10.24435/materialscloud:vp-jt](#)

Edgar A. Engel, Venkat Kapil

Structure prediction for molecular crystals is a longstanding challenge, as often minuscule free energy differences between polymorphs are sensitively affected by the description of electronic structure, the statistical mechanics of the nuclei and the cell, and thermal expansion. The importance of these effects has been individually established, but rigorous free energy calculations, which simultaneously account for all terms, have not been computationally viable. Here we reproduce the experimental stabilities of polymorphs of prototypical compounds -- benzene, glycine, and succinic acid -- by computing rigorous first-principles Gibbs free energies, at a fraction of the cost of conventional methods ...

Latest version: v1

Publication date: Mar 26, 2021

[Simulating solvation and acidity in complex mixtures with first-principles accuracy: the case of  \$\text{CH}\_3\text{SO}\_3\text{H}\$  and  \$\text{H}\_2\text{O}\_2\$  in phenol](#)

DOI [10.24435/materialscloud:2x-7x](#)

Kevin Rossi, Veronika Juraskova, Raphael Wischert, Laurent Garel, Clemence Corminboeuf, Michele Ceriotti

Set of inputs to perform the calculations reported in the paper. The i-pi input enables to perform molecular dynamics / metadynamics / REMD / PIMD simulations, with adequate thermostats. The DFTB and LAMMPS input respectively enable to calculate force and energies within the DFTB and Neural Network Forcefield frameworks. The CP2K input files enable to calculate force and energies at PBE and PBE0 level. The latter is used as the reference to train the neural network correction on top of DFTB. Brief description of the work: We present a generally-applicable computational framework for the efficient and accurate characterization of molecular structural patterns and acid properties in explicit solvent using  $\text{H}_2\text{O}_2$  and  $\text{CH}_3\text{SO}_3\text{H}$  in phenol as an example ...

Latest version: v2

Publication date: Mar 26, 2021

[Detecting electron-phonon coupling during photoinduced phase transition](#)

DOI [10.24435/materialscloud:c0-q1](#)

Takeshi Suzuki, Yasushi Shinohara, Yangfan Lu, Mari Watanabe, Jiadi Xu, Kenichi L. Ishikawa, Hide Takagi, Minoru Nohara, Naoyuki Katayama, Hiroshi Sawa, Masami Fujisawa, Teruto Kanai, Jiro Itatani, Takashi Mizokawa, Shik Shin, Kozo Okazaki

**Recommended data repository  
by Nature's journal **Scientific Data****

Indexed by [Google Dataset Search](#) and by  
EUDAT/EOSC's [B2FIND](#)

Registered on [FAIRsharing.org](#) and [re3data.org](#)

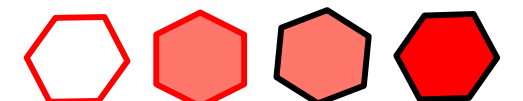
**New! Recommended by the new  
"Open Research Europe" journal**



Research and Innovation

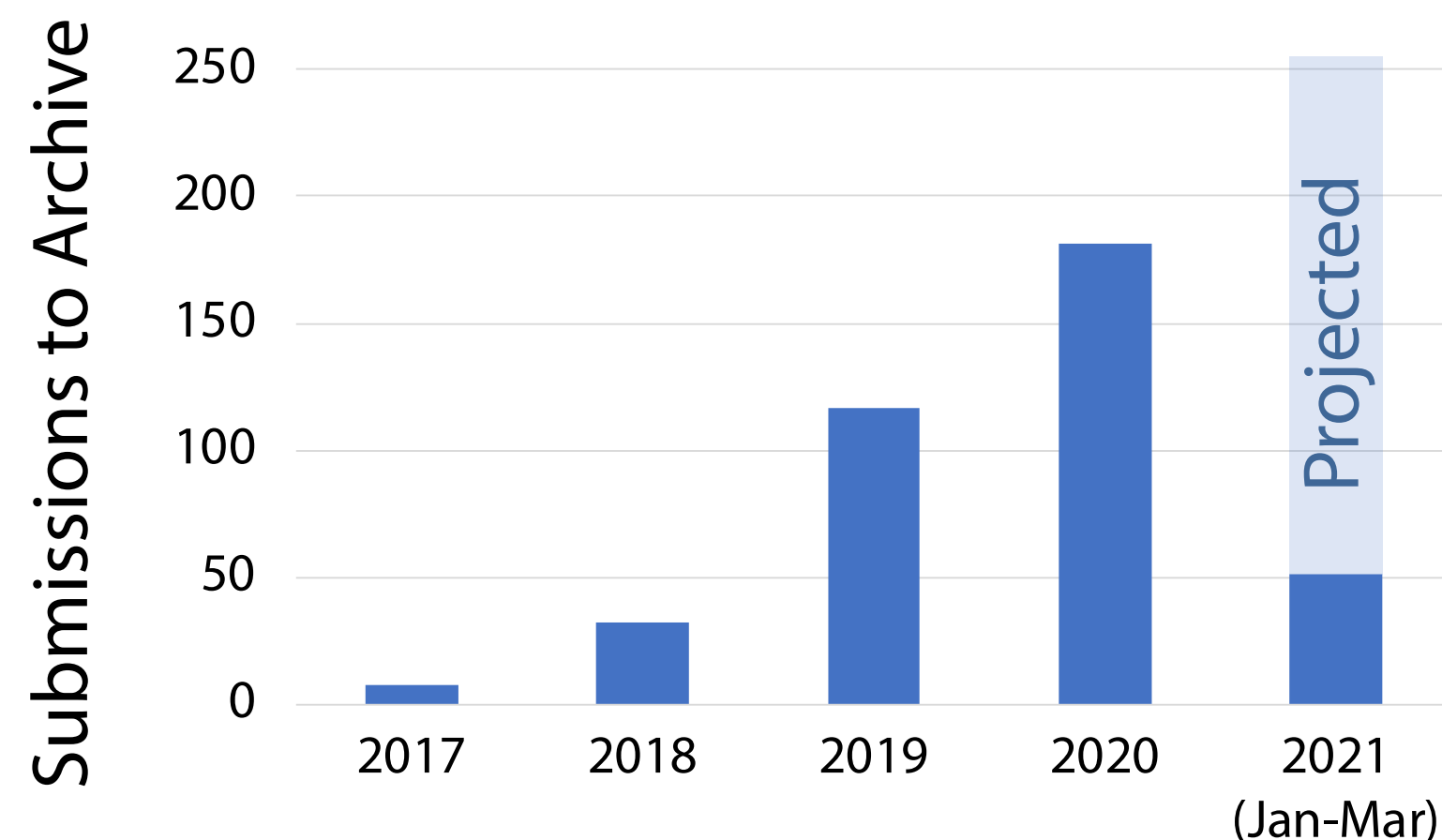
**Open Research Europe**

<https://open-research-europe.ec.europa.eu/for-authors/data-guidelines>



# Materials Cloud Archive

- Host MARVEL's data (but also open to the world)
- Limit: 5GB (50GB if using AiiDA); but limits lifted within MARVEL



- *Statistics (March 2022)*: 600GB files hosted: 22'000'000+ crystal structures, 7'500'000+ DFT structures, 670'000+ reproducible calculations, ...
- ~13'000 file downloads/month,  
~5-10TB/month downloaded (in the past year)

Home / Publications

## MARVEL Dataset Index

The dataset index lists all published datasets resulting from NCCR MARVEL research. It is updated every year, in February. Most of the datasets are available on the [Materials Cloud Archive](#) open repository. Below is the general list. For datasets related to a specific project, click on the links hereafter: [DD1](#), [DD2](#), [DD3](#), [DD4](#), [DD5](#), [DD6](#), [Inc1](#), [Inc2](#), [OSP](#), [HPC](#).

- **materialscloud:vp-ms** — Efficient Kr/Xe separation from triangular g-C<sub>3</sub>N<sub>4</sub> nanopores: density-functional theory calculations benchmarked with random phase approximation, by M. Tohidivahdat, D. Campi, N. Colonna, L. F. Villalobos, N. Marzari, K. Agrawal Varoon

**Related MARVEL publication:**

- M. T. Vahdat, D. Campi, N. Colonna, L. F. Villalobos, N. Marzari, K. V. Agrawal, [Efficient Kr/Xe separation from triangular g-C<sub>3</sub>N<sub>4</sub> nanopores, a simulation study](#), *Journal of Materials Chemistry A* **8**, 17747 (2020). [\[Open Access URL\]](#)  
Group(s): [Marzari](#) / Project(s): [DD3](#)

- **materialscloud:gr-1f** — Radial spin texture of the Weyl fermions in chiral tellurium, by G. Gatti, D. Gosálbez-Martínez, S. S. Tsirkin, M. Fanciulli, M. Puppini, S. Polishchuk, S. Moser, L. Testa, E. Martino, S. Roth, P. Bugnon, L. Moreschini, A. Bostwick, C. Jozwiak, E. Rotenberg, G. Di Santo, L. Petaccia, I. Vobornik, J. Fujii, J. Wong, D. Jariwala, H. A. Atwater, H. M. Rønnow, M. Chergui, O. V. Yazyev, M. Grioni, A. Crepaldi

**Related MARVEL publication:**

- G. Gatti, D. Gosálbez-Martínez, S. S. Tsirkin, M. Fanciulli, M. Puppini, S.

**MARVEL Dataset Index automatically generated**

<https://nccr-marvel.ch/publications/dataset-index>

# Materials Cloud Archive

- Host MARVEL's data (but also open to the world)

- Limit: 5GB but limits

Submissions to Archive

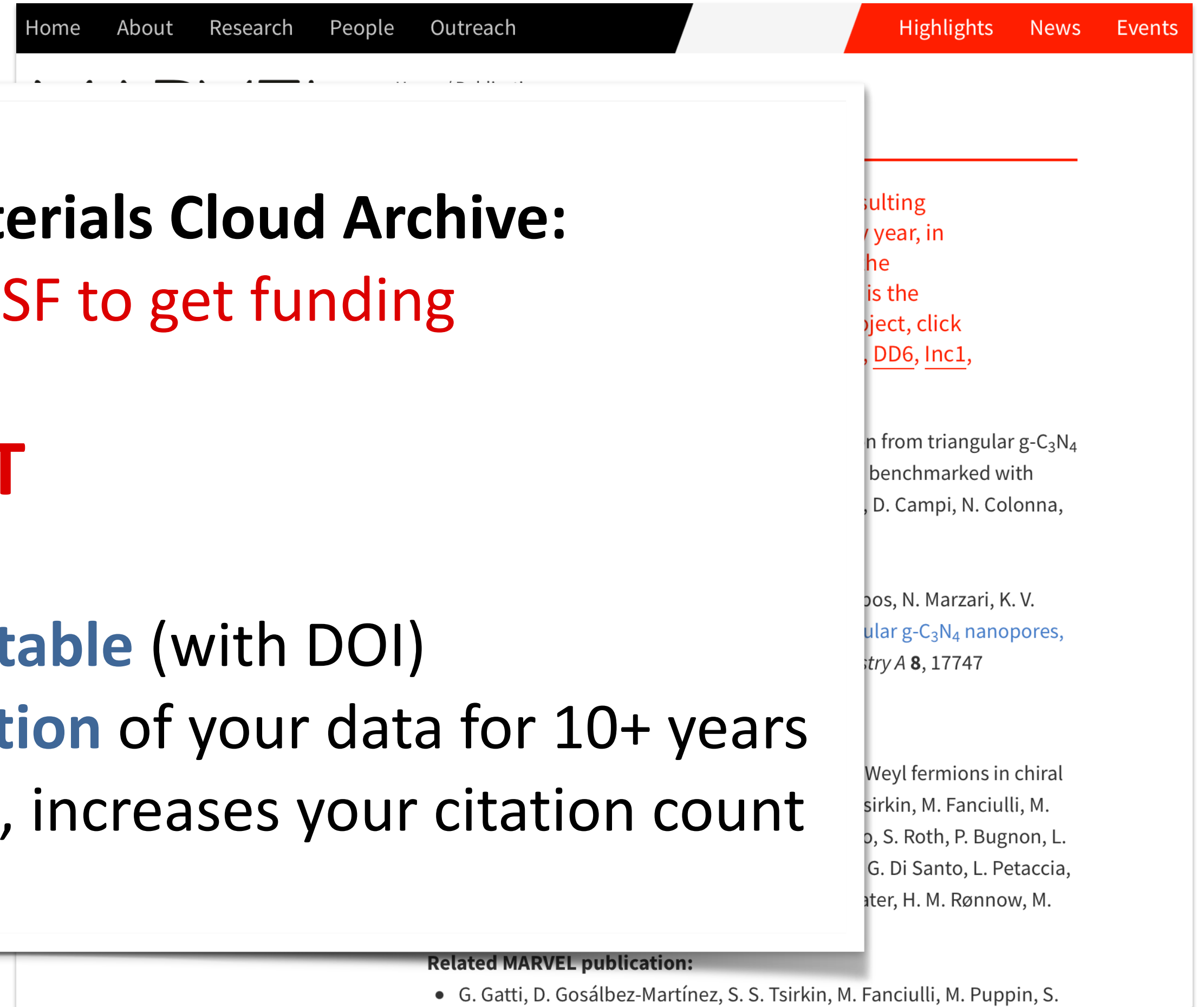
250  
200  
150  
100  
50  
0

- Statistics (Mar 2024)  
22'000'000+ crystal structures, 7'500'000+ DFT structures,  
670'000+ reproducible calculations, ...
- ~13'000 file downloads/month,  
~5-10TB/month downloaded (in the past year)

Hosting files on the Materials Cloud Archive:  
a requirement of SNSF to get funding

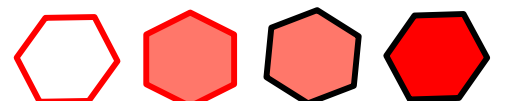
**BUT**

Makes your data **citable** (with DOI)  
Takes care of **long-term preservation** of your data for 10+ years  
**Boosts visibility of your research**, increases your citation count



**MARVEL Dataset Index automatically generated**

<https://nccr-marvel.ch/publications/dataset-index>



# DMP templates

- In Materials Cloud we provide templates for your DMPs, if you use the Materials Cloud Archive (that guarantees long-term storage for 10+ years)

## Data Management Plan

In order to support researchers using the Materials Cloud to prepare grant applications or to comply with agencies' requirements, we provide here below templates for data management plans (DMPs) that use the Materials Cloud.

Dissemination can be as simple as depositing data freely (and in any format) on the Archive, or, if using AiiDA, disseminating entire workflows, raw and curated data in the Explore or Discover sections. AiiDA plugins and workflows can also be distributed through the AiiDA plugin repository, while simulation services can be exposed through AiiDALab, either in a virtual machine environment (the Quantum Mobile) or on the cloud (e.g. on the European Open Science Cloud).

Feel free to [contact us](#) with any questions regarding the use of the Materials Cloud Archive as part of your data management plan.

Funding Body	DMP template (using  AiiDA)	DMP template (no AiiDA)
SNF	<a href="#">.docx</a> <a href="#">.odt</a> <a href="#">.pdf</a>	<a href="#">.docx</a> <a href="#">.odt</a> <a href="#">.pdf</a>
H2020	<a href="#">.docx</a> <a href="#">.odt</a> <a href="#">.pdf</a>	<a href="#">.docx</a> <a href="#">.odt</a> <a href="#">.pdf</a>

Please also note the [resources provided by EPFL](#), including extensive DMP templates for many different project types (SNSF, ERC, H2020, ...).

<https://www.materialscloud.org/dmp>

# A quick-start guide for the Materials Cloud Archive

# An example entry: <https://doi.org/10.24435/materialscloud:az-b2>

materialscloud:2020.158

Entry ID (like volume/page)

Two-dimensional materials from high-throughput computational exfoliation of experimentally known compounds

Nicolas Mounet<sup>1\*</sup>, Marco Gibertini<sup>1</sup>, Philippe Schwaller<sup>1</sup>, Davide Campi<sup>1</sup>, Andrius Merkys<sup>1,2</sup>, Antimo Marrazzo<sup>1</sup>, Thibault Sohier<sup>1</sup>, Ivano E. Castelli<sup>1</sup>, Andrea Cepellotti<sup>1</sup>, Giovanni Pizzi<sup>1</sup>, Nicola Marzari<sup>1\*</sup>  
1 Theory and Simulation of Materials (THEOS), and National Centre for Computational Design and Discovery of Novel Materials (MARVEL), École Polytechnique Fédérale de Lausanne, CH-1015 Lausanne, Switzerland  
2 Vilnius University Institute of Biotechnology, Sauletekio al. 7, LT-10257 Vilnius, Lithuania  
\* Corresponding authors emails: nicolas.mounet@epfl.ch, nicola.marzari@epfl.ch

DOI 10.24435/materialscloud:az-b2 [version v4]  
Publication date: Dec 02, 2020

Title/authors/affiliations

How to cite this record

Nicolas Mounet, Marco Gibertini, Philippe Schwaller, Davide Campi, Andrius Merkys, Antimo Marrazzo, Thibault Sohier, Ivano E. Castelli, Andrea Cepellotti, Giovanni Pizzi, Nicola Marzari, *Two-dimensional materials from high-throughput computational exfoliation of experimentally known compounds*, Materials Cloud Archive **2020.158** (2020), doi: [10.24435/materialscloud:az-b2](https://doi.org/10.24435/materialscloud:az-b2).

DOI and how to cite

Description

Two-dimensional (2D) materials have emerged as promising candidates for next-generation electronic and optoelectronic applications. Yet, only a few dozens of 2D materials have been successfully synthesized or exfoliated. Here, we search for novel 2D materials that can be easily exfoliated from their parent compounds. Starting from 108423 unique, experimentally known three-dimensional compounds we identify a subset of 5619 that appear layered according to robust geometric and bonding criteria. High-throughput calculations using van-der-Waals density-functional theory, validated against experimental structural data and calculated random-phase-approximation binding energies, allow to identify 1825 compounds that are either easily or potentially exfoliable. In particular, the subset of 1036 easily exfoliable cases provides novel structural prototypes and simple ternary compounds as well as a large portfolio of materials to search for optimal properties. For a subset of 258 compounds we explore vibrational, electronic, magnetic, and topological properties, identifying 56 ferromagnetic and antiferromagnetic systems, including half-metals and half-semiconductors. This archive entry contains the database of 2D materials (structural parameters, band structures, binding energies, phonons for the subset of the 258 easily exfoliable materials with less than 6 atoms, structures and binding energies for the remaining 1567 materials) together with the provenance of all data and calculations as stored by AiiDA.

Description ("abstract")

Materials Cloud sections using this data

[Select 2d materials via interactive periodic table and view their properties \(with links to provenance\)](#)  
[Explore interface providing access to the full database](#)

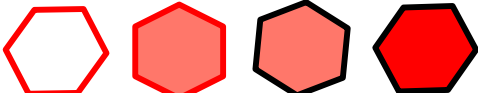
(Only if you use AiiDA): associated Discover/Explore sections (OPTIONAL!)

Files

File name	Size	Description
<a href="#">2D_materials.tar.gz</a> MD5	114.0 MiB	The repository contains 258 two-dimensional crystal structures, exfoliated from three-dimensional experimental crystal structures. Together with each structure, a set of materials properties and the 3D parents are also given. In addition, the repository contains 1567 unrelaxed 2D structures (coming

Export

[Dublin Core](#) [JSON](#)



# An example entry (continued)

## Files

File name	Size	Description
<a href="#">2D_materials.tar.gz</a> <span>MD5</span>	114.0 MiB	The repository contains 258 two-dimensional crystal structures, exfoliated from three-dimensional experimental crystal structures. Together with each structure, a set of materials properties and the 3D parents are also given. In addition, the repository contains 1567 unrelaxed 2D structures (coming from the bare exfoliation of 3D compounds), classified as easily or potentially exfoliable.
<a href="#">two_dimensional_database.aiida</a> <span>MD5</span>	934.1 MiB	Full database and its provenance, in the form of an AiiDA export file (migrated from AiiDA v0.10.0rc3 to AiiDA v1.4.1). Older versions of the export file can be found in earlier versions of this entry. Note that the ICSD initial structures are protected by copyright and were therefore not included.
<a href="#">LICENSE.txt</a> <span>MD5</span>	14.7 KiB	Information on the licensing of the pseudopotential files distributed with this entry.
<a href="#">README.txt</a> <span>MD5</span>	1.5 KiB	Description of the files distributed with this entry.

## License

Files and data are licensed under the terms of the following license: [Creative Commons Attribution 4.0 International](#). Note: A number of pseudopotentials included in the files are redistributed under a different license (see LICENSE.txt file).  
Metadata, except for email addresses, are licensed under the [Creative Commons Attribution Share-Alike 4.0 International](#) license.

## External references

**Preprint**  
[N. Mounet, M. Gibertini, P. Schwaller, A. Merkys, I. E. Castelli, A. Cepellotti, G. Pizzi, N. Marzari, arXiv:1611.05234 \(2016\)](#)

**Journal reference**  
[N. Mounet, M. Gibertini, P. Schwaller, D. Campi, A. Merkys, A. Marrazzo, T. Sohier, I. E. Castelli, A. Cepellotti, G. Pizzi, N. Marzari, Nat. Nanotech. 13, pp. 246-252 \(2018\) doi:10.1038/](#)

## Keywords

2D two-dimensional m etic properties MARVEL

## Version history

This record has versions v1, v2, v3, v4. This is version v2.

2020.158 (version v4) [This version is the latest]

2017.0008/v3 (version v3)

2017.0008/v2 (version v2)

2017.0008/v1 (version v1)

DOI 10.24435/materialscloud:2017.0008/v2

DOI 10.24435/materialscloud:2017.0008/v1

Files  
(with file description,  
MD5, ...)

License (pick default if  
unsure)

References to scientific paper (published  
or on arXiv) or other resources

Keywords


Version history

# User view on your entries (after login)

 [LEARN](#) [WORK](#) [DISCOVER](#) [EXPLORE](#) [ARCHIVE](#) [More](#)

 [About](#) | [Submission instructions](#) | [FAQs](#)

[Upload a record](#) [My records](#)

 giovanni.pizzi@epfl.ch 

## My records

[user](#) [moderator](#)  
Your role: user

Records in progress

[Draft](#) [Review](#) [Request change](#) [All](#) N. records: 0

Record	Status
There are no records in this status	

Records published

N. records: 5

Record	Status
<a href="#">Automated high-throughput Wannierisation</a> <b>DOI</b> <a href="#">10.24435/materialscloud:dd-nz</a> [version: v3] Last update: 17/07/2020, 08:59:26 Authors: Valerio Vitale, Giovanni Pizzi, Antimo Marrazzo, Jonathan R. Yates, Nicola Marzari, Arash A. Mostofi Maximally-localised Wannier functions (MLWFs) are routinely used to compute from first-principles advanced materials properties that require very dense Brillouin zone integration and to build accurate ...	PUBLISHED <a href="#">Edit</a>
<a href="#">Automated high-throughput Wannierisation</a> <b>DOI</b> <a href="#">10.24435/materialscloud:2019.0044/v2</a>	PUBLISHED <a href="#">Edit</a>

# Editing references, or creating a new version

My records

## Materials Cloud Archive record upload

### This record has been published

- At this stage you can only change keywords and references of this record. If you need to make changes to other sections of the record you have to create a new version.
- Click "Edit keywords and references" to update keywords and references of current version of this record.
- Click "Create new version" to make a new version of this record.

Edit keywords and references

Create new version

## Edit keywords and references

### Keywords\* ⓘ

Insert a keyword and click on 'Add keyword'.

If this work is funded by one of the Materials Cloud partners please add the keyword that identify the partner, click on ⓘ for further information.

Insert minimum 3 keywords. \*

	#	Keyword	
▲▼	1	MARVEL/OSP	 
▲▼	2	Maximally localised Wannier functions	 
▲▼	3	High throughput simulations	 
▲▼	4	Automated Wannierisation	 
▲▼	5	Band-structure interpolation	 
▲▼	6	AiiDA workflow	 
▲▼	7	SCDM	 

# Private (pre)view of an entry, and log of messages with moderators

## External references

**Journal reference** (Paper where the method and algorithms are discussed and presented)  
Valerio Vitale, Giovanni Pizzi, Antimo Marrazzo, Jonathan R. Yates, Nicola Marzari, Arash A. Mostofi, npj Computational Materials 6, 66 (2020) doi:10.1038/s41524-020-0312-y

## Keywords

MARVEL/OSP   Maximally localised Wannier functions   High throughput simulations   Automated Wannierisation   Band-structure interpolation   AiiDA workflow   SCDM

## Version history:

2020.60 (version v3) [This version]	Jun 21, 2020	DOI 10.24435/materialscloud:dd-nz
2019.0044/v2 (version v2)	Nov 25, 2019	DOI 10.24435/materialscloud:2019.0044/v2
2019.0044/v1 (version v1)	Aug 30, 2019	DOI 10.24435/materialscloud:2019.0044/v1

Email to giovanni.pizzi@epfl.ch.

Insert your email text here (optional, max: 10000 characters)

Publish   Request change   Email

Edit   Reject

## Email log

### Date

21/06/2020 20:16:43

10/06/2020 19:19:48

### From

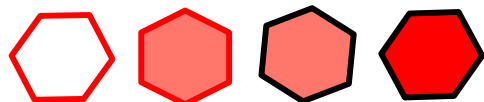
archive@materialscloud.org

giovanni.pizzi@epfl.ch

### Email

An action has been taken by the Materials Cloud moderators on your record. Your record [1] has been published. The DOI will start resolving today at 20:00 CEST. [1]  
<https://archive.materialscloud.org/record/2020.60> Hi Giovanni. Everything looks fine. Your record should now be public as "v3". Thank you. Best regards, Marco Borelli

Request from giovanni.pizzi@epfl.ch to review record:  
<https://archive.materialscloud.org/deposit/records/425> I added files Vitale-2020-all-bands.pdf and fermi\_energies.json and adapted the README to add the description for those two files.



# Submission instructions and policies

The screenshot shows the Materials Cloud Archive website. At the top, there is a navigation bar with a search box on the left, and links for 'About', 'Submission instructions', and 'FAQs' in the center. The 'Submission instructions' link is circled in red. On the right side of the navigation bar, there are buttons for 'Upload a record', 'My records', and a user profile dropdown for 'giovanni.pizzi@epfl.ch'. Below the navigation bar, there are three tabs: 'SUBMISSION INSTRUCTIONS' (which is active), 'MODERATION POLICIES', and 'ARCHIVE POLICIES'. The main content area is titled 'Submission instructions'. It begins with the text 'To submit a record to the Materials Cloud Archive:' followed by a bulleted list: 'Log in or Sign up to register to the Materials Cloud Archive.' and 'Once you are logged in click on "Upload a record" to access the upload form. Fill in the form with the research data and associated metadata that will appear in the final record.' The second bullet point is circled in red. Below the list, it says 'The guidelines below and the fac-simile of the upload form will instruct you on how to fill in the form.' There are three expandable sections: 'Guidelines to fill in the upload form', 'Submission and moderation of records', and 'Update of published records'. At the bottom, it says 'For further questions, please consult the FAQs or contact us at: archive@materialscloud.org.'

Search

[About](#) | [Submission instructions](#) | [FAQs](#)

[Upload a record](#) [My records](#) [giovanni.pizzi@epfl.ch](#) ▼

**SUBMISSION INSTRUCTIONS** [MODERATION POLICIES](#) [ARCHIVE POLICIES](#)

## Submission instructions

To submit a record to the Materials Cloud Archive:

- Log in or Sign up to register to the Materials Cloud Archive.
- Once you are logged in click on "Upload a record" to access the upload form. Fill in the form with the research data and associated metadata that will appear in the final record.

The guidelines below and the [fac-simile of the upload form](#) will instruct you on how to fill in the form.

[Guidelines to fill in the upload form](#) ▼

[Submission and moderation of records](#) ▼

[Update of published records](#) ▼

For further questions, please consult the [FAQs](#) or contact us at: [archive@materialscloud.org](mailto:archive@materialscloud.org).

# Submission form

## Materials Cloud Archive record upload

### Submission procedure

1. Before submitting your record please read the information on the Materials Cloud Archive policies and submission instructions available [here](#).
2. Click "Save record" to create a draft of your record.
3. Click "Submit record for publication" to submit your record and notify the Archive moderators.
4. Records are reviewed within 7 days from submission.

WARNING: For submissions above 5 GB please [contact us](#). For more information on the files limits click on ⓘ in the section Files below.

### Title\*

The title should have only the first letter of the first word in capital letters, not all words (except where English grammar requires it, e.g. for proper nouns).

Insert title of record \*

### Description\* ⓘ

Insert description of record \*

### License type\*

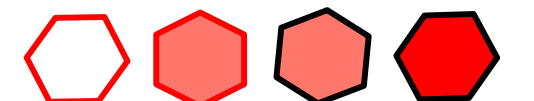
Choose a license for the data associated with your record (see the [spdx license list](#) for details).

The metadata will anyway be released under the [Creative Commons Attribution Share-Alike 4.0 International](#) license, except for email addresses.

Select a license \*

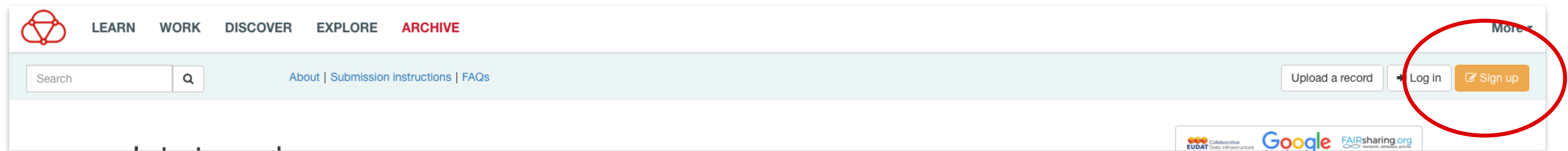
### Additional non-binding comments

Further comments regarding the license (optional)



# What should you do?

- **Sign up** and create an account (if you don't have one) on <https://archive.materialscloud.org>



- For every paper you are a co-author of:
  - **Create files** with the data needed to reproduce your paper + README + ...
  - **Fill in the form**, if needed answer the moderators' suggestions, get a DOI (DOI available immediately, but active after "acceptance" and publication of the entry, within a week)
  - **Cite your data entry in your paper**. See "How to cite this record" in each entry; e.g.:  
The data and the scripts used to create all results and images in this work are available on the Materials Cloud Archive [XXX] A. Author *et al.*, *My fancy title*, Materials Cloud Archive 2022.01 (2022), doi: 10.24435/materialscloud:9f-2d
- (After publication of your paper): **update the reference to your scientific paper from your page** (so you get more citations!)

# A few notes on filling the form

- In case of doubt: read the guidelines (or write to [archive@materialscloud.org](mailto:archive@materialscloud.org))
- Use title and description (=abstract) as in a paper
- Use at least three keywords
  - **For MARVEL papers:** add "MARVEL" as a keyword, as well as "MARVEL/XXX" (XXX=DD1, DD2, OSP, ...): you will get then template/bibtex for the yearly MARVEL report pre-filled!! (**less work for you!**)
- Favour open formats, organise your files in a way another person (or yourself in 1 year!) can understand and reuse (and, thus, cite you)
- If you have many files: put them in a single .zip/.tar.gz
- Keep an "outer" README text file: people can read that first before downloading your 1GB+ zip files! (see e.g. <https://archive.materialscloud.org/record/2020.158>, <https://archive.materialscloud.org/record/2020.60> or <https://archive.materialscloud.org/record/2021.73> for some entries of myself with README files)

[Instructions](#) | [FAQs](#)

SUBMISSION INSTRUCTIONS

MODERATION POLICIES

ARCHIVE POLICIES

## Submission instructions

To submit a record to the Materials Cloud Archive:

- Log in or Sign up to register to the Materials Cloud Archive.
- Once you are logged in click on "Upload a record" to access the upload form. Fill in the form with the research data and associated metadata that will appear in the final record.

The guidelines below and the [fac-simile of the upload form](#) will instruct you on how to fill in the form.

[Guidelines to fill in the upload form](#) ▼

[Submission and moderation of records](#) ▼

[Update of published records](#) ▼

For further questions, please consult the [FAQs](#) or contact us at: [archive@materialscloud.org](mailto:archive@materialscloud.org).

