

## SSHAE partners newsletter - 2021\_02

Dear SSHAE partners,

As the '**data reference**' and its DOI is a specific concern for both data providers and users, this Newsletter is dedicated to this topic. In particular, it will answer a frequently asked question: how to make the most of the "data reference" of an experiment and its DOI in an article.

### The DOI in SSHAE

- Already **74% of the public data** in SSHAE **have their DOI generated and activated**.
- **236 DOIs of experiments** and 21 DOIs of databases have been generated in the last 18 months
- since the start of the DOI in SSHAE **almost 3000 access to the data** have been made through the DOI, with a current average of 350 per month.
- but **190 (~7%) failed** to get access to SSHAE data, mostly due to some delay between publication of a few DOIs and the corresponding data.

So, if not yet done for all your public data: **activate the DOI of all your public experiments!**

- the best way to check this for your whole database is to go to the '[Data validation](#)' tool of the Provider or Manager tab, then select 'experiment' and **check their DOI status**.

- **if an experiment is not activated** yet, first check that all the authors are listed as experimentalists and that the title well describes the actual content of the experiment (both will be used in your 'data reference') and then click on the 'unregistered' button in that list to activate the DOI (or on 'register' if you are on the experiment page).

- that's all! But it will allow readers to cite your paper with a **direct link to your data!**

The screenshot shows the SSHAE web interface. On the left, the 'Experiments' menu item is highlighted with a red box and a blue arrow labeled '1'. The main content area displays a table of experiments. The 'DOI' column is highlighted with a red box and a blue arrow labeled '2'. The table contains 11 rows of experiment data, each with a UID, Spectra status, Access right, DOI status, Updated date, and Database name.

UID	Spectra status	Access right	DOI	Updated	Database
EXPERIMENT_BS_20121217_001	1 Verified	1 Public	Up-to-date	2020-01-03	GhoSST
EXPERIMENT_BS_20121218_001	1 Verified	1 Public	Up-to-date	2020-01-03	GhoSST
EXPERIMENT_BS_20121219_001	36 Verified	36 Public	Up-to-date	2019-11-02	GhoSST
EXPERIMENT_BS_20130103_003	5 Verified	5 Public	Up-to-date	2018-10-23	GhoSST
EXPERIMENT_BS_20130103_004	5 Verified	5 Public	Unregistered	2018-02-08	GhoSST
EXPERIMENT_BS_20130114_001	9 Verified	9 Public	Up-to-date	2019-12-28	GhoSST
EXPERIMENT_BS_20130120_002	5 Verified	5 Public	Up-to-date	2020-04-29	GhoSST
EXPERIMENT_BS_20130120_003	2 Verified	2 Public	Up-to-date	2020-01-03	GhoSST
EXPERIMENT_BS_20130120_004	2 Verified	2 Public	Up-to-date	2020-01-03	GhoSST
EXPERIMENT_BS_20130124_001	1 Verified	1 Public	Unregistered	2017-11-17	GhoSST

Showing 11 to 20 of 111 entries

## How to cite your SSHADe data in your own paper

- **When you prepare a paper to be submitted to a journal** it is a good practice to simultaneously prepare and upload the data in your SSHADe database.
- These 'on-line' data will be **considered as a "data paper"** (only data and metadata) and **SSHADe** will then **provide you (for free!) a data reference and its DOI** to be used as a 'publication', exactly as for any other paper.
- By this way you will provide the reader a **'1-click' access to your data from the DOI!**

This is especially important as most funding agencies are now asking that data are freely accessible and searchable upon publication, but also as an increasing number of journals (from Elsevier in particular ...) are now **requesting right at submission time**, either **to get a DOI link to the data**, or to provide them all your data in numerical form !

## How to do practically:

- **1) Upload your data** in your database before submission of your paper. You can keep them in 'private' or 'restricted' status.
- **2) Get your data reference:**
  - **if your data are not yet public** (or public but with DOI not activated), go to the page of your experiment, open the 'DOI' tab and click 'HTML'. Your full reference, including the DOI (still not activated) is under 'Dataset reference'.
  - **if your data are already public, and your DOI activated** then your full reference is directly in the 'reference' tab.
- **3) In the experiment section of the paper, or in a special section 'on-line data'**, add a sentence of the type:
  - **Example:** "The complete sets of data presented in this paper are made available online through the GhoSST database of the SSHADe infrastructure of solid spectroscopy: [doi:10.26302/SSHADe/EXPERIMENT\\_LB\\_20200902\\_001](https://doi.org/10.26302/SSHADe/EXPERIMENT_LB_20200902_001) (Beck, 2019).
- **4) in the reference section**, or in a special section 'Data references', list the data references of your data:
  - **Example:** Beck, Pierre, 2019. *Bidirectional Vis-NIR reflectance spectra at 3 phase angles ( $i=0^\circ$ ,  $e=10^\circ$ ,  $20^\circ$ ,  $30^\circ$ ) of 72 powders of bulk meteorites (CI, CM, CO, CR, CV, OC, EL, R, HED, mesosiderites). SSHADe/GhoSST (OSUG Data Center). Dataset/Spectral Data. [https://doi.org/10.26302/SSHADe/EXPERIMENT\\_LB\\_20200902\\_001](https://doi.org/10.26302/SSHADe/EXPERIMENT_LB_20200902_001).*
- **5) release your data publicly** no later than **the day before your paper is online**: On the top of the experiment page first verify that all your spectra are 'verified' (green) under 'Spectra status' and then click the 'unreleased' button under 'Spectra access rights'

## What happens if you forgot to publish your data before your article went 'on-line'?

- In that case a **reader** clicking on the DOI of your data reference **cannot access your data** and will get a 'doi page' with "DOI Not Found" and listing 3 possible reasons, the good one being the last one: 'The DOI has not been activated yet. Please try again later, and report the problem if the error continues.'

- The DOI account of SSHADE also receive an error message (failed access), so we can easily locate which DOIs have problems. We currently receive an average of 20 of such 'fail' per month. As many readers frustrated not to get access to the data right from publication of the paper!

### What happens if you upload latter your data in SSHADE?

- The main issue is that the reader of your paper will not know that your data are publicly available
- **the reader cannot access them in a single click on the DOI** of your data reference (or in the text)
- but when you will publish your experiment in your SSHADE database you will provide a **direct link from your data to your paper**, but not the reverse.

### Can I still put in SSHADE data that I provided to a journal?

- I mean providing data as supplementary material of your paper, or that published as a 'data paper' (for 600-800\$ !).
- **absolutely YES!** The **journal is not proprietary of your data**, but they strongly restrict the right to search your data (cannot be freely searched by any other free search engine) and even for some journal it is not free to get them (though journal subscription, or 30-50\$ per paper).

Have a good use of DOI to promote your data and papers !

Bernard and the SSHADE team

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**Bernard Schmitt**

Directeur de Recherche CNRS  
Scientific manager of SSHADE database infrastructure  
Scientific manager of GhoSST@SSHADE database

[bernard.schmitt@univ-grenoble-alpes.fr](mailto:bernard.schmitt@univ-grenoble-alpes.fr)

*Institut de Planétologie et Astrophysique de Grenoble (IPAG)  
Université Grenoble Alpes / CNRS*

Visit the [SSHADE \(www.sshade.eu\)](http://www.sshade.eu) solid spectroscopy database infrastructure !

Apply for an experiment at [CSS \(https://cold-spectro.sshade.eu/\)](https://cold-spectro.sshade.eu/), the Cold Surface Spectroscopy facility !