

Impulsvortrag 4: ORCID-Integration in Forschungsdatenrepositorien am Beispiel von PANGAEA

Uwe Schindler

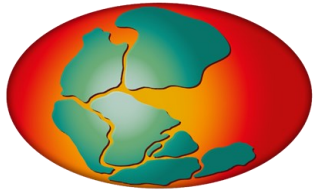
PANGAEA (MARUM, University of Bremen)

My Background

- Member of the **PANGAEA team @ MARUM, University of Bremen.**
- Studied **physics** long time ago.
- Responsible for **metadata** processing and **search engine** of PANGAEA (Elasticsearch).
- Long time Open Source software contributor; member of **Apache Software Foundation**: *Apache Lucene, Apache Solr, Apache Tika, Apache POI,...* also ***Elasticsearch / Opensearch.***

www.pangaea.de

About PANGAEA



PANGAEA.

Data Publisher for Earth & Environmental Science

- Founded: **1993**
- Hosted by:



ALFRED-WEGENER-INSTITUT
HELMHOLTZ-ZENTRUM FÜR POLAR-
UND MEERESFORSCHUNG



- **2001:** Accreditation by the „International Council for Science“ (ICSU) as „Publisher for Earth & Environmental Science“ (ICSU WDS World Data Center)
- **2007:** Accredited by the „World Meteorological Organisation“ (WMO) as „World Radiation Monitoring Center“ (WRMC) (since 2007)



Foto: Nils Strackbein, MARUM

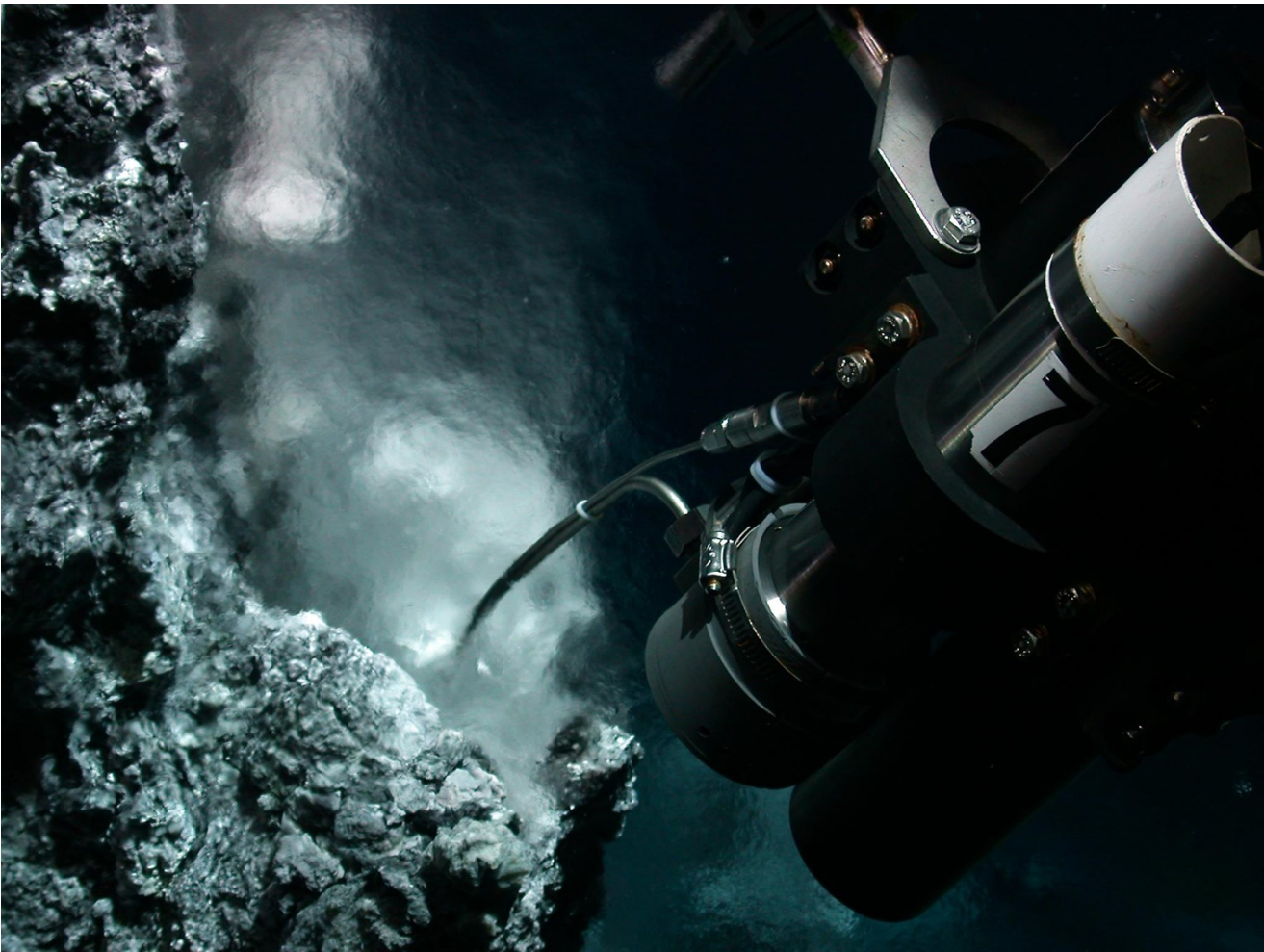


Foto: MARUM



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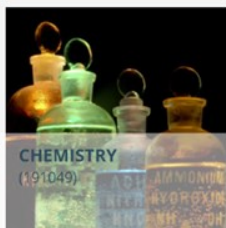
ALL TOPICS ▼

Search for measurement type, author name, project, taxa,...



TOPICS

MAP



CHEMISTRY

(191049)



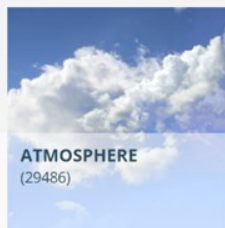
LITHOSPHERE

(131385)



BIOLOGICAL
CLASSIFICATION

(33211)



ATMOSPHERE

(29486)



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(25569)



OCEANS

(21652)



ECOLOGY

(17517)



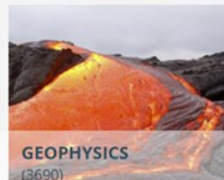
LAND SURFACE

(7665)



BIOSPHERE

(4232)



GEOPHYSICS

(3690)

Latest News

2020-11-18

MOSAIC EXPEDITION DOCUMENTARY



One year in the eternal ice of the Arctic - the experiences and challenges during the MOSAIC expedition were captured in a documentary.

2020-10-20

STATE OF NATURE IN EUROPE 2020

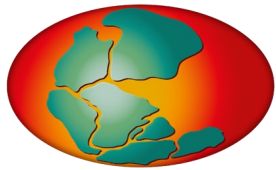


Europe's nature is experiencing a serious and continuing decline. The challenge to protect it is urgent, and significant additional efforts are needed to reverse the current trend.

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Featured Data

Maturilli, M; Holdridge, DJ; Dahlke, S et al.



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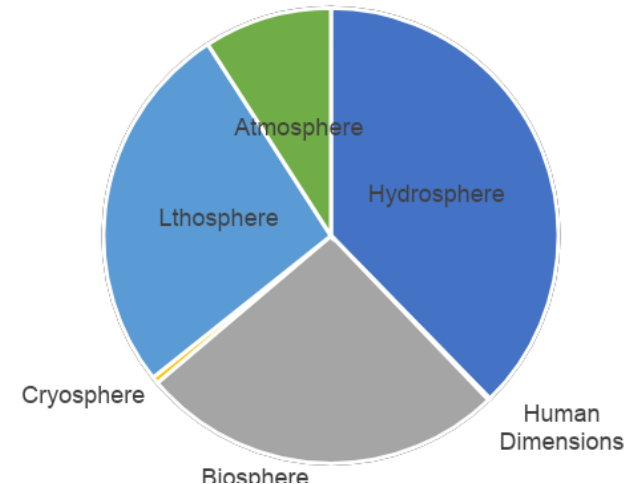
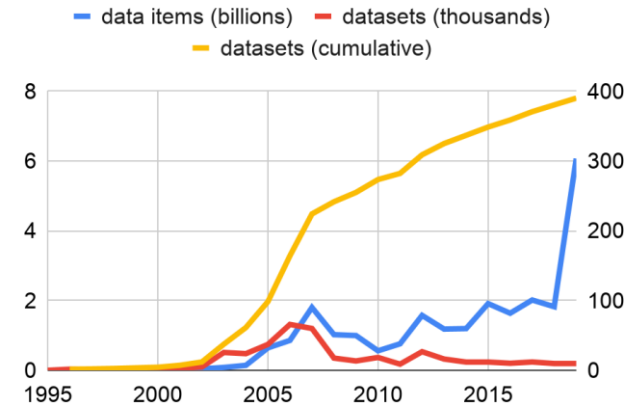
Data Publisher for Earth & Environmental Science

- Integral part of science: More than 250 European to international projects since 1995 (<https://www.pangaea.de/projects>)
- highly heterogeneous & dynamic
- multidisciplinary

Number of data sets	~402.000
Number of data items	>19 Billion
Data volume	<3 PB
Increase	~4% per year

>15.000 registered users
12 – 15.000 unique sessions / month

growth



PANGAEA – Data/Metadata Dissemination



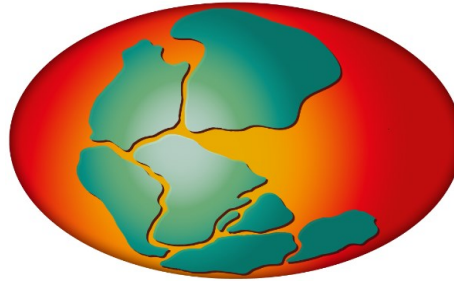
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History

ORCID support in PANGAEA

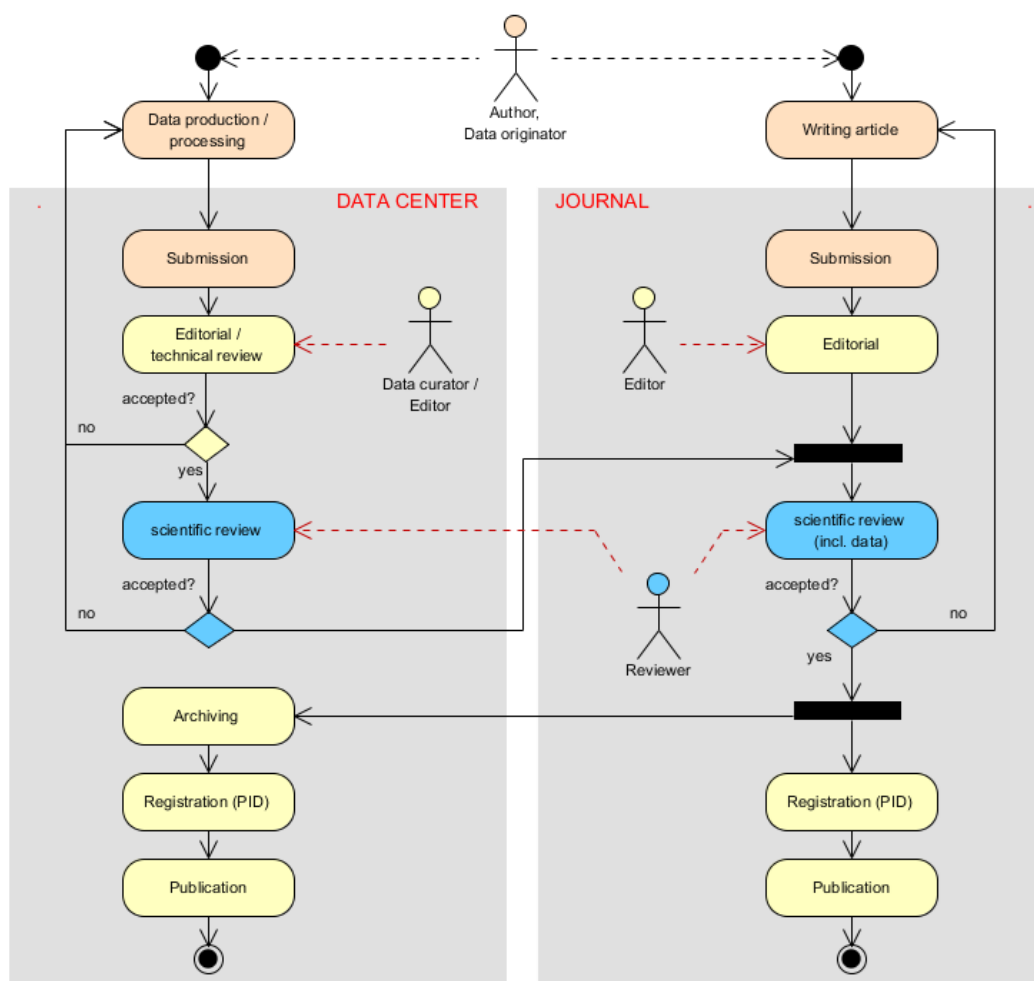
July 2013

“Code Sprint” Workshop at GFZ Potsdam on July 1st, 2013 (DFG projects **Komfor**, **Radieschen**, **re3data**)

- Brainstorming (with **Martin Fenner**, PLoS): How to “claim” ORCID iDs *automatically* for PANGAEA’s thousands of datasets
- First implementation went live on same day!

How?

- PANGAEA datasets are often linked to articles
- Journals take care of ORCID iD



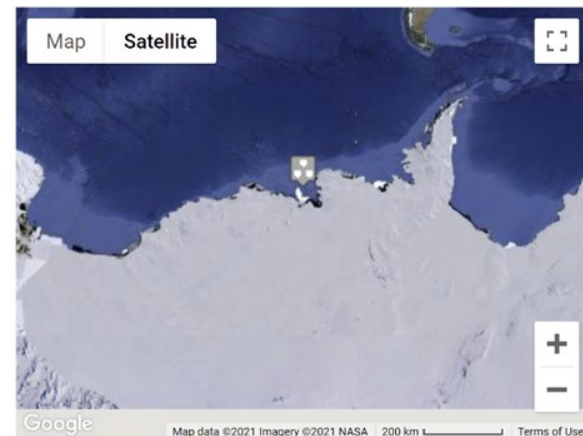


Citation:

Klages, Johann Philipp; Salzmann, Ulrich; Bickert, Torsten; Hillenbrand, Claus-Dieter; Gohl, Karsten; Kuhn, Gerhard; Bohaty, Steven M; Titschack, Jürgen; Müller, Juliane; Frederichs, Thomas; Bauersachs, Thorsten; Ehrmann, Werner; van de Flierdt, Tina; Simões Pereira, Patric; Larter, Robert D; Lohmann, Gerrit; Niezgodzki, Igor; Uenzelmann-Neben, Gabriele; Zundel, Maximilian; Spiegel, Cornelia; Mark, Chris; Chew, David M; Francis, Jane E; Nehrke, Gernot; Schwarz, Florian; Smith, James A; Freudenthal, Tim; Esper, Oliver; Pälike, Heiko; Ronge, Thomas A; Dziadek, Ricarda; Expedition PS104 Scientists (2019): Sedimentological, palynological, geochemical, palaeomagnetic, and geochronological investigations of cores 9R and 10R from MARUM-MeBo70 Site PS104_20-2. *PANGAEA*, doi <https://doi.org/10.1594/PANGAEA.906092>

Always quote citation above when using data! You can download the citation in several formats below.

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Abstract:

Here we present sedimentological, micropalaeontological, inorganic and organic geochemical, palaeomagnetic, geochronological as well as X-ray computed tomography (CT) data obtained from successional drill cores 9R and 10R at MARUM-MeBo70 Site PS104_20-2 (73.57°S, 107.09°W; 946 m water depth). The site is located within the Pine Island cross-shelf trough in the Amundsen Sea Embayment (ASE), West Antarctica (Fig. 1a) and was drilled during RV Polarstern Expedition PS104 in 2017. We further provide the palaeoclimate modeling analytical scripts related to this work.

Keyword(s):

climate [Q](#); Late Cretaceous [Q](#); palaeoenvironment [Q](#); West Antarctica [Q](#)

Supplement to:

Klages, Johann Philipp; Salzmann, Ulrich; Bickert, Torsten; Hillenbrand, Claus-Dieter; Gohl, Karsten; Kuhn, Gerhard; Bohaty, Steven M; Titschack, Jürgen; Müller, Juliane; Frederichs, Thomas; Bauersachs, Thorsten; Ehrmann, Werner; van de Flierdt, Tina; Simões Pereira, Patric; Larter, Robert D; Lohmann, Gerrit; Niezgodzki, Igor; Uenzelmann-Neben, Gabriele; Zundel, Maximilian; Spiegel, Cornelia; Mark, Chris; Chew, David M; Francis, Jane E; Nehrke, Gernot; Schwarz, Florian; Smith, James A; Freudenthal, Tim; Esper, Oliver; Pälike, Heiko; Ronge, Thomas A; Dziadek, Ricarda; Expedition PS104 Scientists (2020): Temperate rainforests near the South Pole during peak Cretaceous warmth. *Nature*, 580, 81-86, <https://doi.org/10.1038/s41586-020-2148-5> [Q](#)

How?

PANGAEA uses ORCID search (Apache Solr) with following query parameters:

- All known article DOIs of author (recent first)
- Last name, first name with wildcard (*to disambiguate*)

Accepts only ONE search result!

Isn't this against ORCID terms?

- We have a full record of author (all datasets, all related articles, his coworkers,...)
- We know the article and its authors
- Article publisher / user has claimed and validated ORCID iD

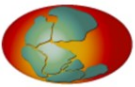
September 2013

- **Full integration** of ORCID iD into **PANGAEA's metadata schema**, transfer to DataCite
- PANGAEA allows to **search for ORCID iD** in their main search engine (*Apache Lucene / Elasticsearch*)
- First ideas of “PID Graph” (later EU projects: THOR, FREYA)

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- THOR, (RETA)

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Uwe Schindler

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Filter by...

556 datasets found on search for »0000-0002-4177-6644«

< 1 2 3 4 5 6 7 8 9 10 >

Dataset Author

- Boetius, Antje (387)
- Felden, Janine (347)
- Lichtschlag, Anna (125)
- Weber, Stefan (65)
- de Beer, Dirk (64)
- Marbler, Herwig (54)
- Bienhold, Christina (46)
- Wenzhöfer, Frank (42)
- more...

Dataset Publication Year

- ☐ 2019 (2)
- ☐ 2018 (2)
- ☐ 2017 (2)
- ☐ 2016 (6)
- ☐ 2014 (11)
- ☐ 2013 (122)
- ☐ 2012 (26)
- ☐ 2011 (81)
- more...

Topic

1. **Lichtschlag, A; Felden, J; Brüchert, V et al. (2009):** Biogeochemical investigation of sediments at the Hakon Mosby Mud Volcano (Barents Sea)

Supplement to: Lichtschlag, A; Felden, J; Brüchert, V et al. (2010): Geochemical processes and chemosynthetic primary production in different thiotrophic mats of the Hakon Mosby Mud Volcano (Barents Sea). *Limnology and Oceanography*

Size: 21 datasets

<https://doi.org/10.1594/PANGAEA.715022> - Score: 28.79

2. **Pop Ristova, P; Wenzhöfer, F; Ramette, A et al. (2014):** Biogeochemical investigation of cold seep sediments in the Eastern Mediterranean Sea

Supplement to: Pop Ristova, P; Wenzhöfer, F; Ramette, A et al. (2014): Spatial scales of bacterial community diversity at cold seeps (Eastern Mediterranean Sea). *The ISME Journal*

Related to: Felden, J; Bienhold, C; Boetius, A (2013): Sulphate reduction rates of Amon mud volcano sediments measured at station MSM13/3_929-1_PUC1.

Felden, J; Bienhold, C; Boetius, A (2013): Sulphate reduction rates of Amon mud volcano sediments measured at station MSM13/3_929-1_PUC9.

Felden, J; Bienhold, C; Boetius, A (2013): Sulphate reduction rates of Amon mud volcano sediments measured at station MSM13/3_933-1_PUC2.

(and more)

Size: 32 datasets

<https://doi.org/10.1594/PANGAEA.830241> - Score: 28.43

3. **Grünke, S; Lichtschlag, A; de Beer, D et al. (2012):** Mats of psychrophilic thiotrophic bacteria

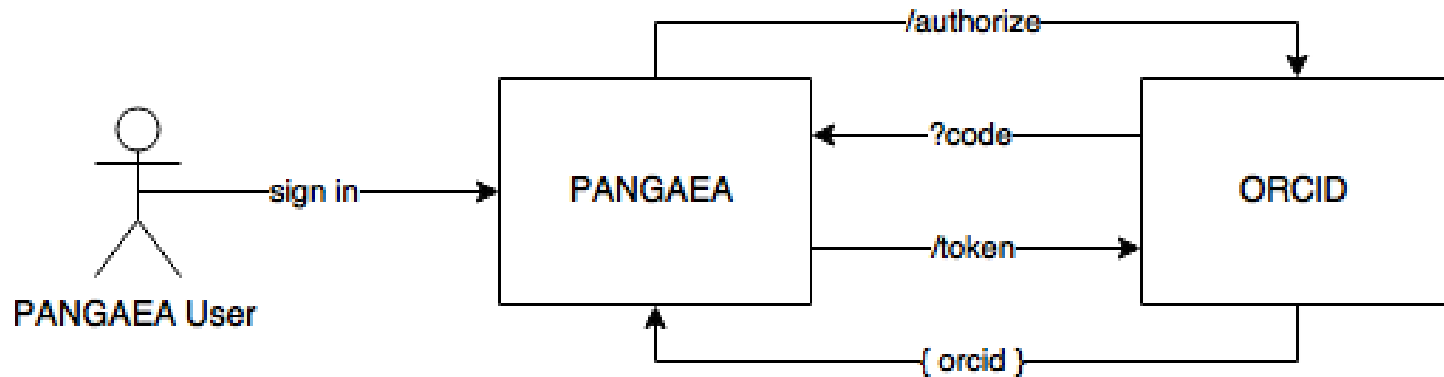
September 2013

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- PANGAEA allows to **search for ORCID iD** in their main search engine (*Apache Lucene / Elasticsearch*)
- First ideas of “PID Graph” (later EU projects: THOR, FREYA)


April 2016: EU Project THOR

- **Login and user registration** possible via ORCID OAuth
- **Going live:** September 2016 with PANGAEA's new web page

ORCID OAuth



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Most of the data are freely available and can be used under the terms of the license mentioned on the data set description. A few password protected data sets are under moratorium from ongoing projects. The description of each data set is always visible and includes the principle investigator (PI) who may be asked for access.

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E-mail address*:

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Password*:

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Full name*:

Institution/Affiliation:


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
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ORCID ID:  Create or connect your ORCID ID

User name*:

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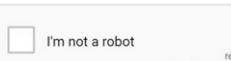
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Log in with your computer

Username and password

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Sign in

Email or 16-digit ORCID ID


example@email.com or 0000-0001-2345-6789


Password


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
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(421659)

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(17952)

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Featured Data

Maturilli, M.; Holdridge, D.J.; Dahlke, S et al.

Live demo

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A_{ccessible}

I_{nteroperable}

R_{eusable}

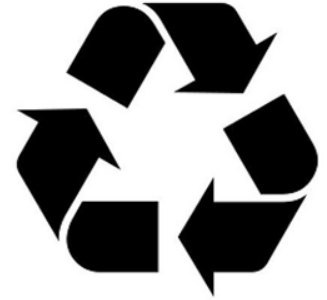
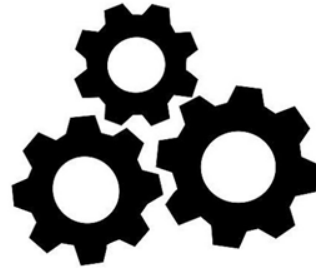
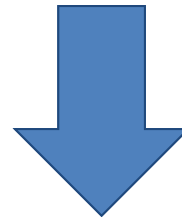


Image credit: FAIR data principles by SangyaPundir at [Wikimedia Commons](#)



F_{indable}

A_{ccessible}

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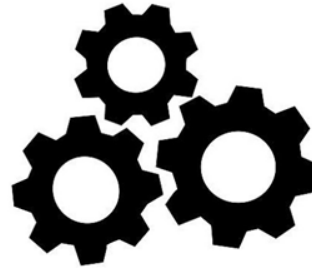


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```
-bash
Uwe Schindler@VEGA:~ > curl -D - -LH'Accept: application/ld+json' https://doi.pangaea.de/10.1594/PANGAEA.914629
HTTP/2 200
server: nginx/1.21.0
date: Tue, 01 Jun 2021 15:42:23 GMT
content-type: application/ld+json; charset=UTF-8
set-cookie: pansessid=7fc48273de6765617fb794fb81479a4e; Path=/; Domain=.pangaea.de; Secure; HttpOnly
vary: Cookie, X-PanLoginID, Authorization
cache-control: public
x-cid: 7fc48273de6765617fb794fb81479a4e
vary: Accept
link: <https://doi.org/10.1594/PANGAEA.914629>;rel="cite-as", <https://doi.pangaea.de/10.1594/PANGAEA.914629>;rel="describes", <https://9?format=zip>;rel="item";type="application/zip", <https://orcid.org/0000-0001-8646-2334>;rel="author", <https://orcid.org/0000-0002-6952org/0000-0001-6053-2330>;rel="author", <https://orcid.org/0000-0002-4453-9564>;rel="author"
x-powered-by: Jetty(9.4.36.v20210114)
strict-transport-security: max-age=31536000
x-ua-compatible: IE=Edge
x-content-type-options: nosniff
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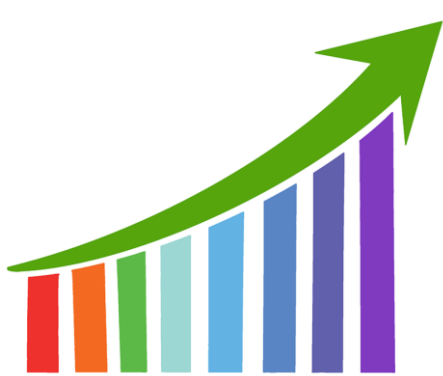
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Statistics

Authors

Authors in PANGAEA with ORCID iD:

19.9%

Authors

Datasets / DOIs with at least one author having
ORCID:

37.7%

...for data published in 2020 / 2021:

82.3%

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Registered users in PANGAEA linked to ORCID:

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...for new accounts since October 2016: **62.0%**,

since 2020: **65.8%**, since 2021: **66.7%**

Feedback?

Thank You!