

# Instruments @ DataCite - 2024

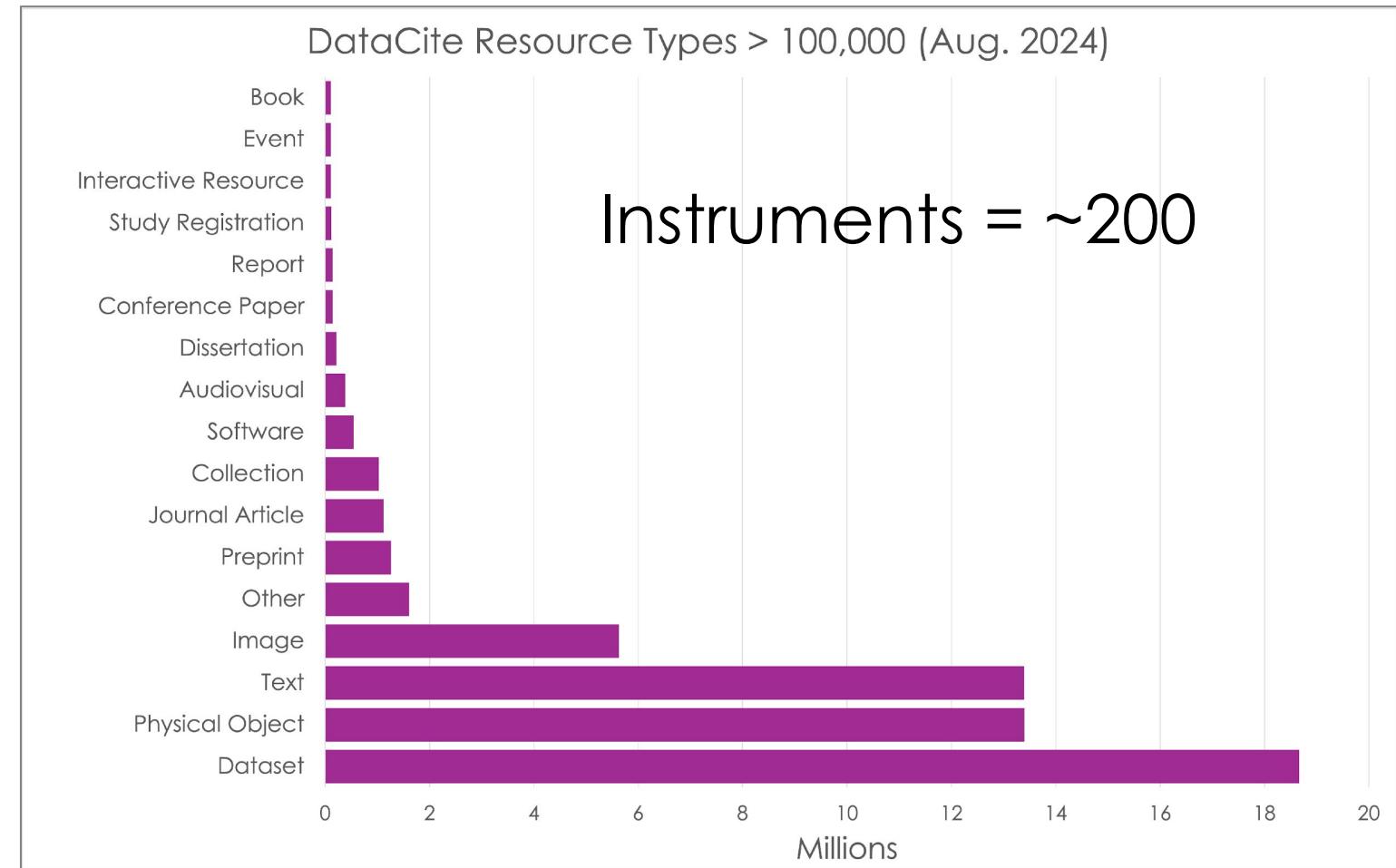
Ted Habermann, Erin Robinson, Metadata Game Changers



A DOI provider and repository encompassing ~3000+ members.

DataCite includes ~60,000,000 resources with 28 different types.

<https://datacite.org/>



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<https://orcid.org/0000-0003-3585-6733>  
<https://orcid.org/0000-0001-9998-0114>

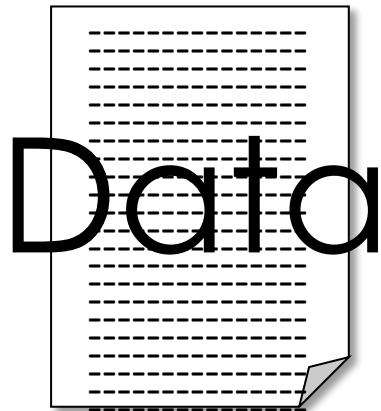
@TedHabermann  
@connector\_erin

# resourceTypeGeneralInstrument

resourceType  
recommended  
free text

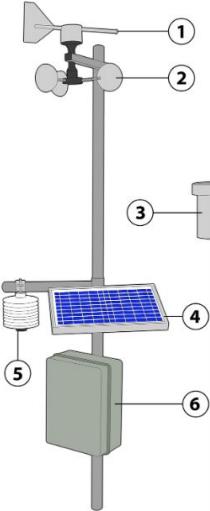
Version 4.5  
Jan 2024

resourceTypeGeneral  
mandatory  
shared vocabulary



IsCollectedBy

Collects



Discover  
and Describe  
Connect  
RelatedIdentifiers

# resourceTypeGeneral = Instrument

Resource Type General	Count
Other	27
PhysicalObject (UCAR)	25
Instrument	78

A brace on the right side of the table groups the 'Other' and 'PhysicalObject (UCAR)' rows, with the label 'Pioneers' positioned next to it. The total count for these two categories is 52.

The number of records with resourceTypeGeneral = instrument has passed the number of pioneering records.



# resourceTypeGeneral=Instrument

Client ID	Name	Count
tib.hzb	Helmholtz-Zentrum Berlin für Materialien und Energie GmbH	24
psu.dmr-first	2D Crystal Consortium (2DCC) - Division of Materials Research (DMR) - FIRST	22
todn.hcsvci	Technical University of Denmark - Energy Innovation Systems	12
pawsey.repo	Pawsey Supercomputing Centre	7
cos.osf	Open Science Framework	6
pqip.devices	Helmholtz-Zentrum Dresden-Rossendorf e.V. -DEVICES	3
upenn.repo	Univ. of Pennsylvania Repository	2
tib.iow	Leibniz-Institut fuer Ostseeforschung Warnemuende	1
uq.repo	The University of Queensland	1
<b>Total</b>		<b>78</b>

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[erin@metadatagamechangers.com](mailto:erin@metadatagamechangers.com)

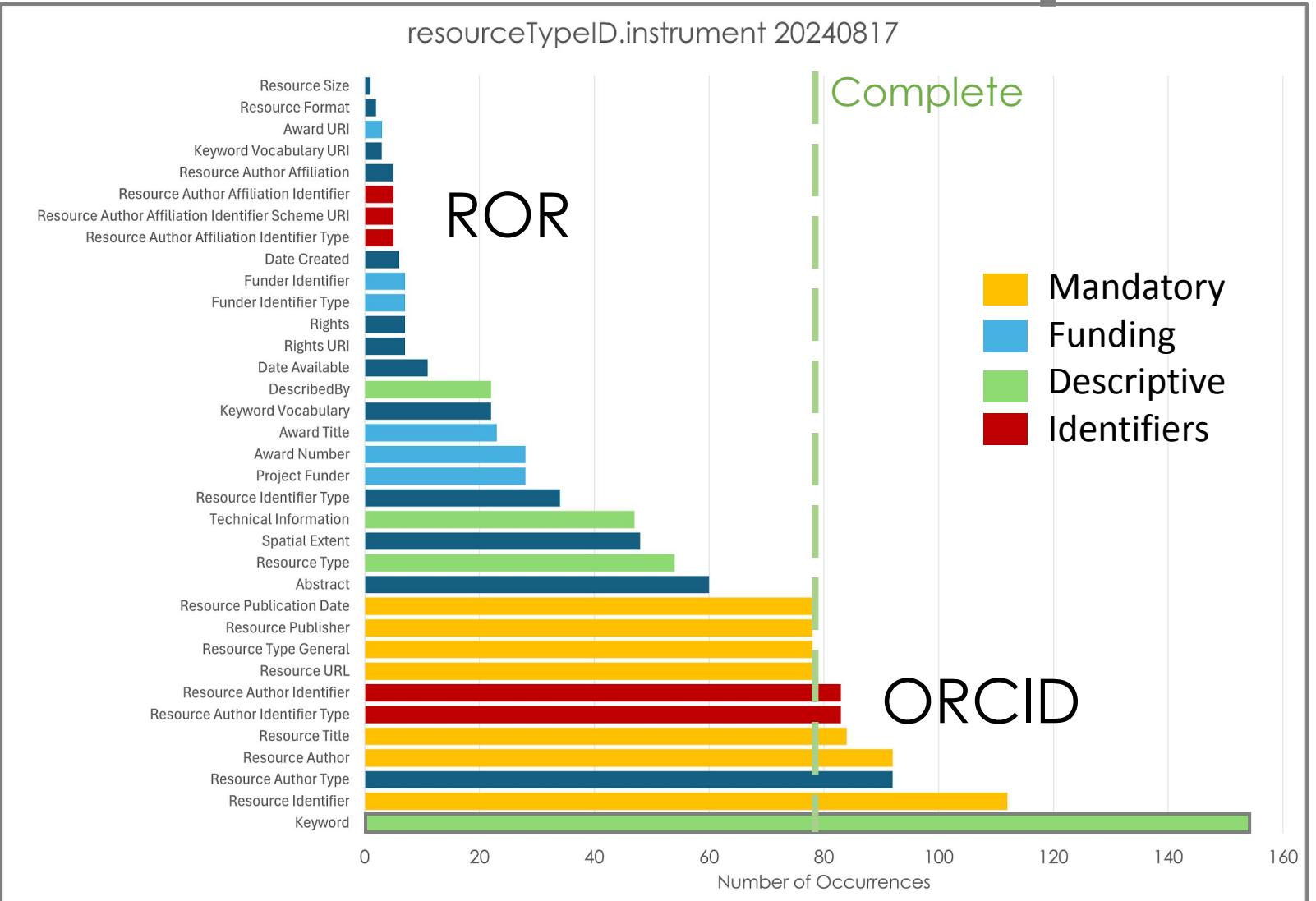
<https://orcid.org/0000-0003-3585-6733>  
<https://orcid.org/0000-0001-9998-0114>

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# Documentation Concepts



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# resourceType = Instrument

Client ID	Name	Count
todn.hcsvci	Technical University of Denmark - Energy Innovation Systems	20
doe.osti	DOE Office of Scientific and Technical Information (OSTI) Repository	4
doe.pnnl	DOE Pacific Northwest National Laboratory (PNNL) Repository	3
dzhw.fdz-dz hw	Research Data Center for Higher Education Research and Science Studies (FDZ-DZHW)	2
si.ccrcn	Smithsonian Research Infrastructure	2
unsw.repo	University of New South Wales	2
doe.ornl	DOE Oak Ridge National Laboratory (ORNL) Repository	1
ubc.oc	Open Collections	1
Total		35



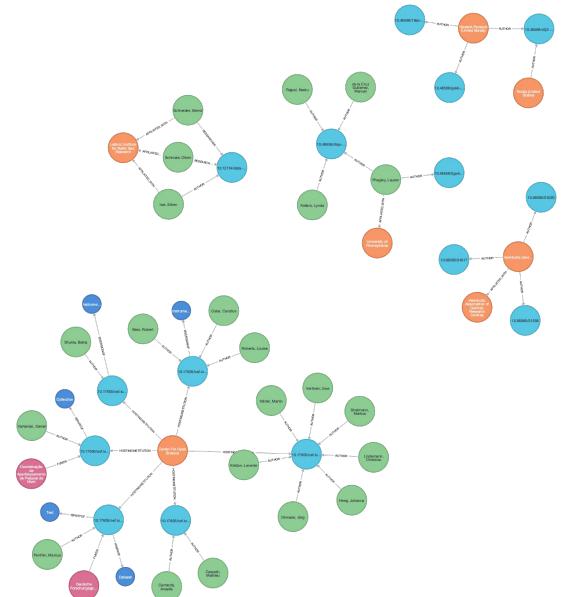
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<https://orcid.org/0000-0003-3585-6733>  
<https://orcid.org/0000-0001-9998-0114>

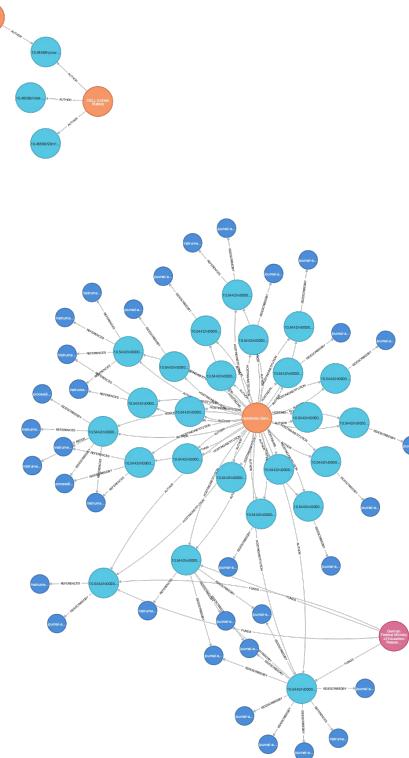
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# All Instruments (resourceTypeGeneral)



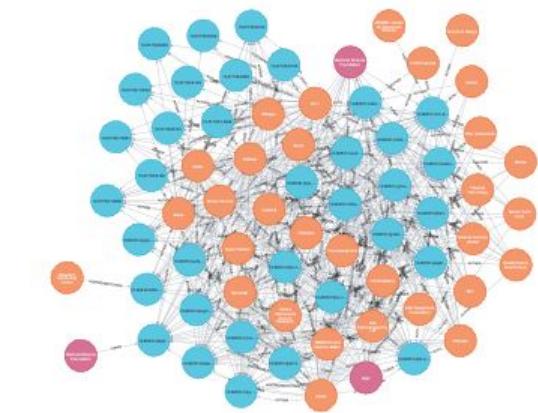
Center For Open Science



Helmholtz-Zentrum Berlin Für  
Materialien Und Energie

## Node labels

\* (187) organization (42) instrument (78) funder (6)  
person (22) resource (39)



2DCC - The  
Pennsylvania State  
University

# COS - Generalist Repository

One HostingOrganization

Six instruments

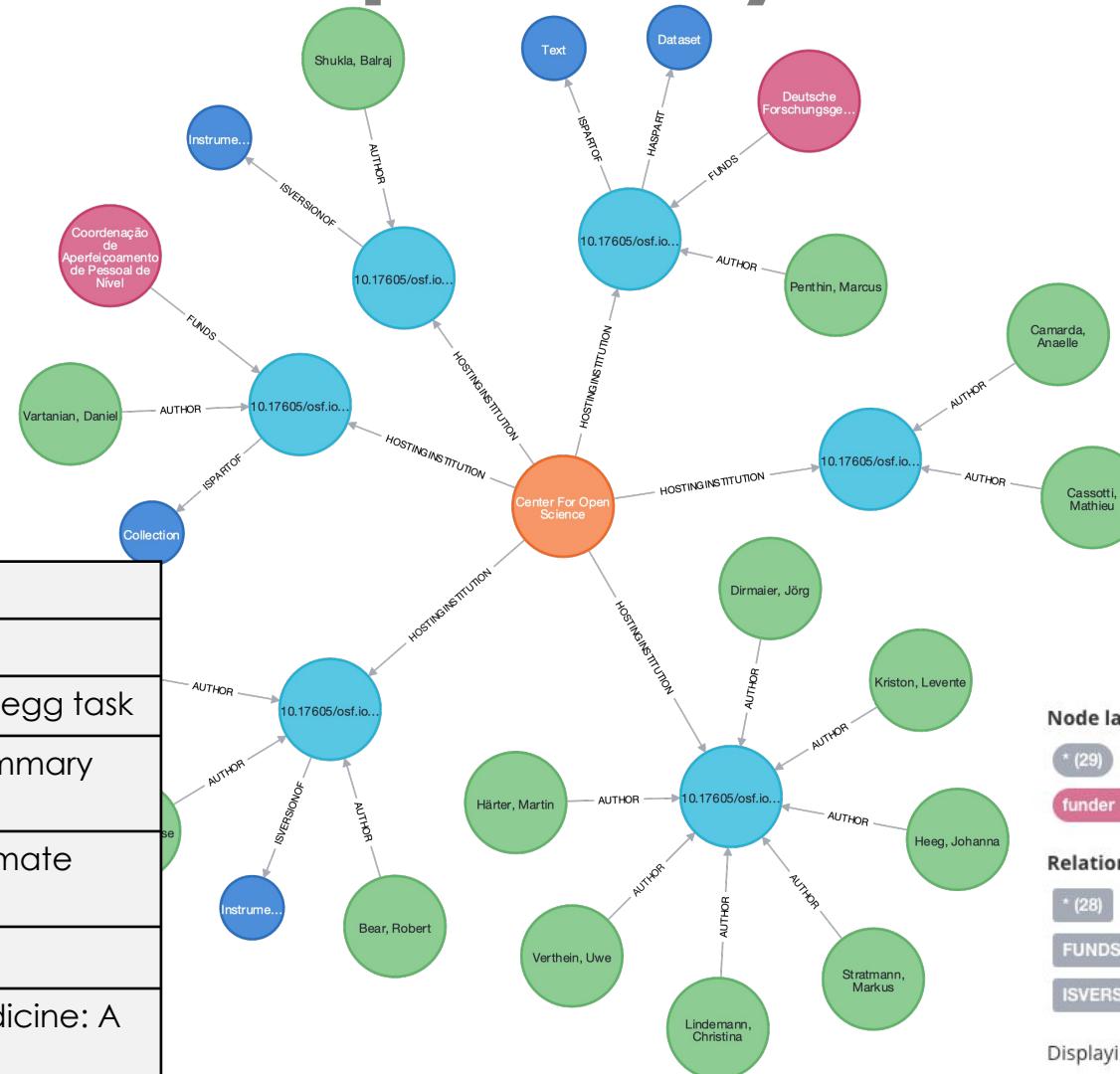
Connections to 15 people

Connections to 2 funders

Connections to 5 resources

Instrument = questionnaire

Title
BENDEP-SRQ-GV (Instrument and Project)
Methodology to analyse the divergent thinking egg task
Rebel - Codebook/scales manual, dataset, summary chart of Rebel
Digital Interface Patterning for Detecting Illegitimate Publications (DIP-DIP) scale
Data collection form
Mental Health and Illness Education in Paramedicine: A Scoping Review



## Node labels

\* (29) organization (1) instrument (6) person (15)

funder (2) resource (5)

## Relationship types

\* (28) HOSTINGINSTITUTION (6) AUTHOR (15)

FUNDING (2) ISPARTOF (2) HASPART (1)

ISVERSIONOF (2)

Displaying 29 nodes, 44 relationships.

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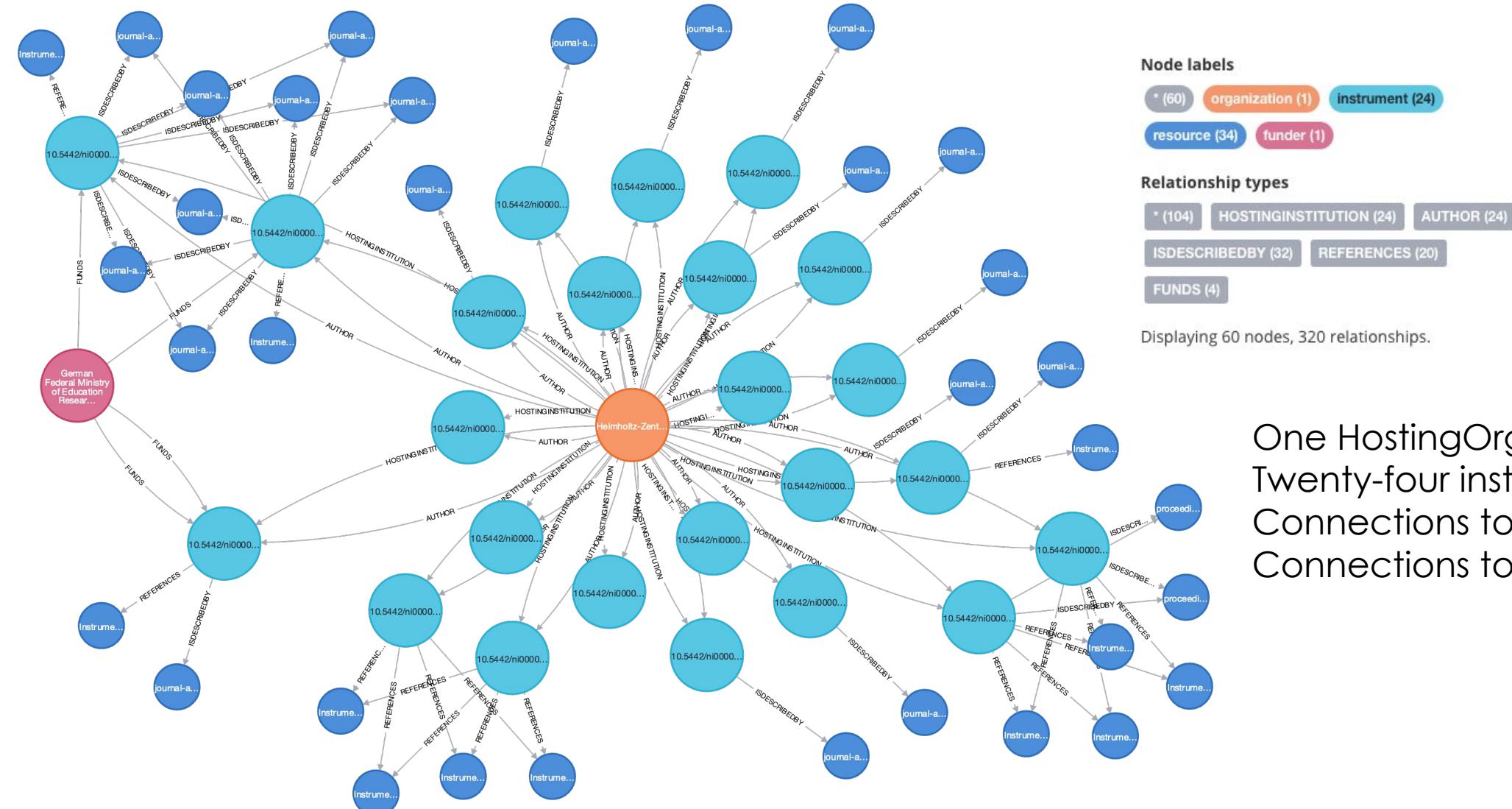
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# Helmholtz-Zentrum Berlin für Materialien und Energie GmbH



One HostingOrganization  
Twenty-four instruments  
Connections to 1 funders  
Connections to 34 resources

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# 2D Crystal Consortium – NSF Center

Node labels

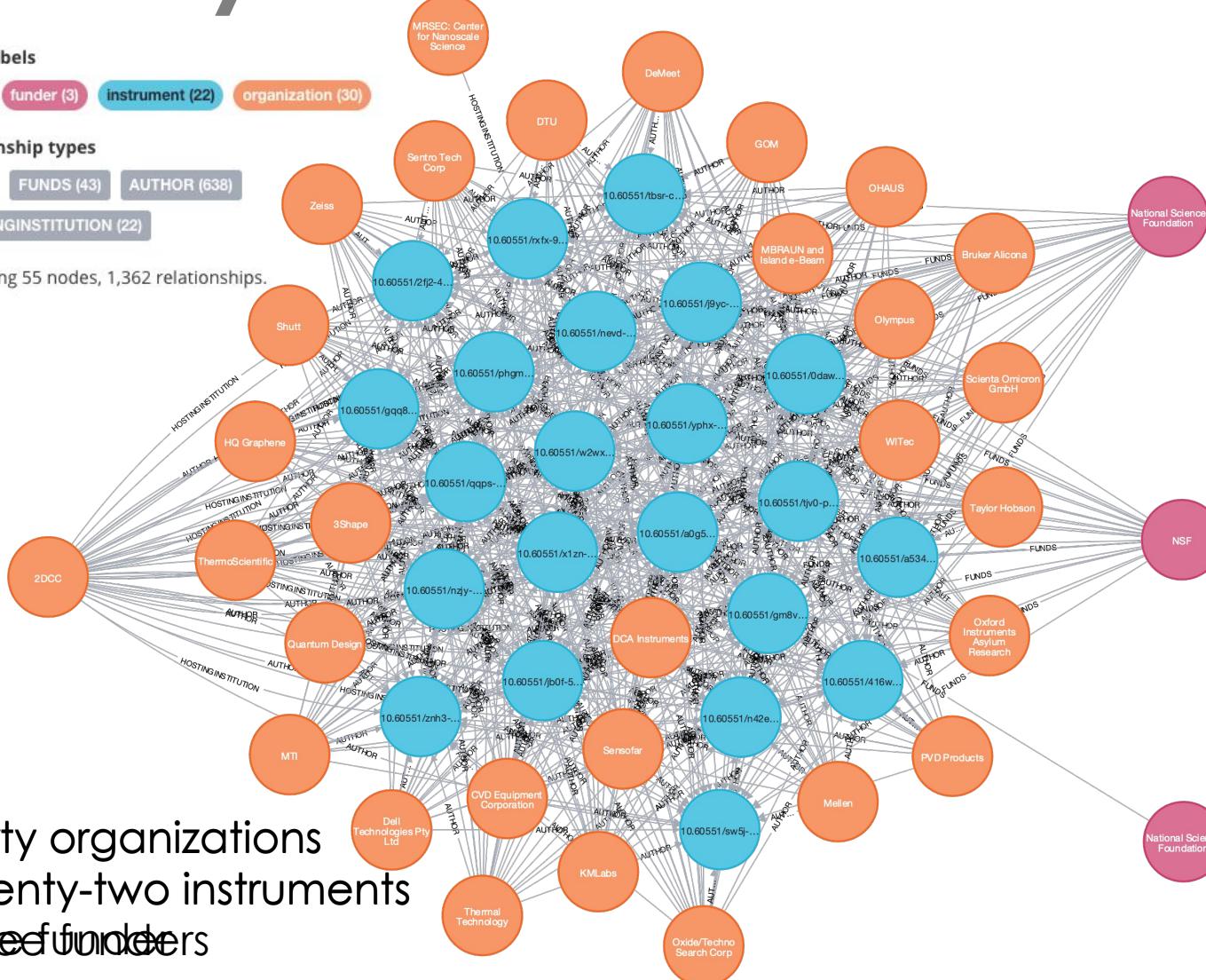
\* (55) funder (3) instrument (22) organization (30)

Relationship types

\* (703) FUNDS (43) AUTHOR (638)

HOSTINGINSTITUTION (22)

Displaying 55 nodes, 1,362 relationships.



Thirty organizations  
Twenty-two instruments  
Three funders

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"fundingReferences": {

"awardTitle": "MIP: 2D Crystal Consortium (MIP-2DCC)",  
"funderName": "National Science Foundation",  
"awardNumber": "DMR-2039351",  
"funderIdentifier": null,  
"funderIdentifierType": null.}

"fundingReferences": {

"awardTitle": "MIP: 2D Crystal Consortium (MIP-2DCC)",  
"funderName": "NSF",  
"awardNumber": "DMR-1539916",  
"funderIdentifier": null,  
"funderIdentifierType": null}

"fundingReferences": {

"awardTitle": "MIP: 2D Crystal Consortium (MIP-2DCC)",  
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"awardNumber": "DMR-1539916",  
"funderIdentifier": "<https://ror.org/021nxhr62>",  
"funderIdentifierType": "ROR" }

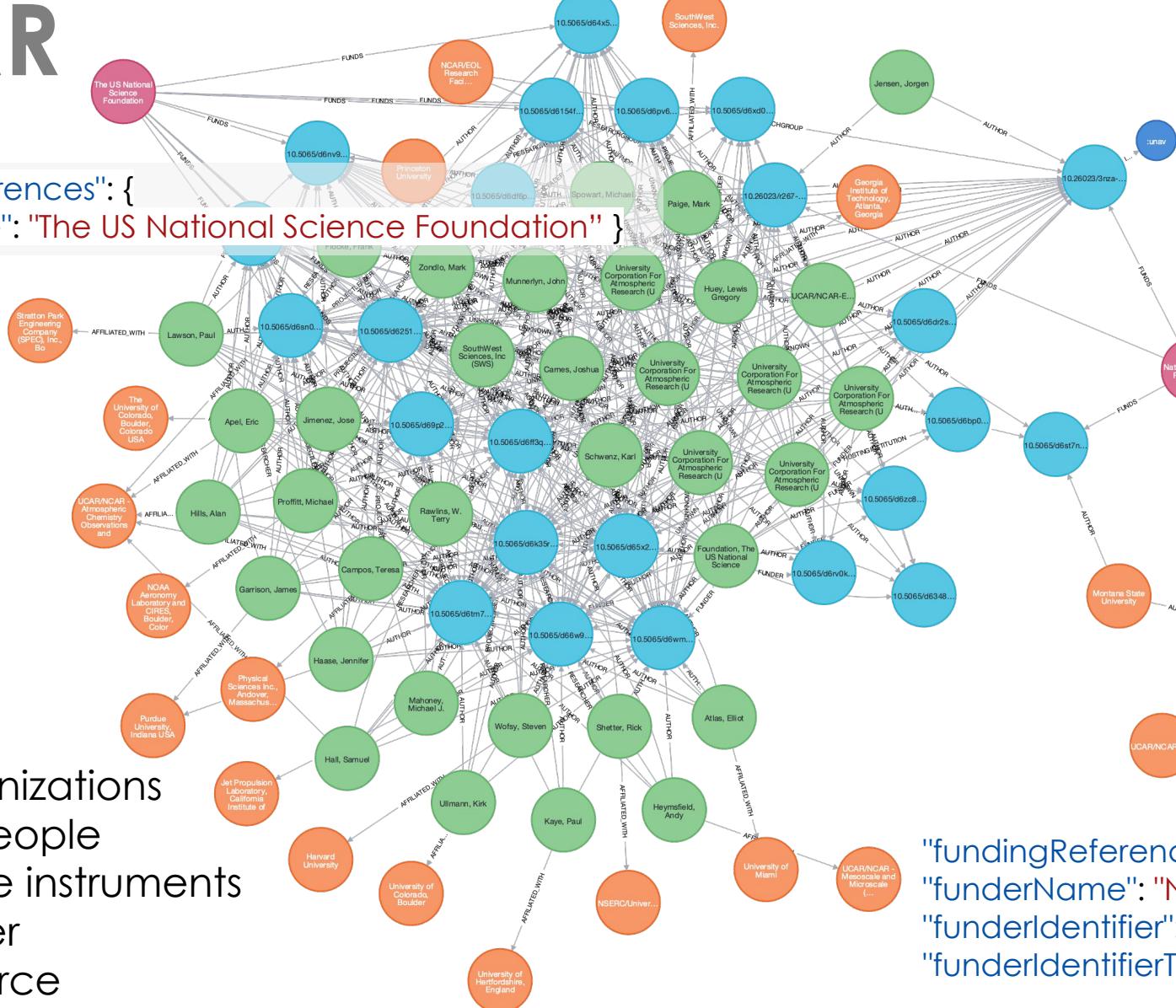


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# UCAR

"fundingReferences": {  
 "funderName": "The US National Science Foundation" }



Thirty organizations  
 Thirty-six people  
 Twenty-five instruments  
 One funder  
 One resource

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**Node labels**

- \* (86)
- person (36)
- instrument (25)
- organization (22)
- funder (2)
- resource (1)

**Relationship types**

* (566)	AUTHOR (470)	FUNDER (8)	UNKNOWN (20)
HOSTINGINSTITUTION (3)	FUNDS (17)		
PROJECTLEADER (12)	AFFILIATED_WITH (22)		
RESEARCHER (9)	RESEARCHGROUP (2)		
ISDESCRIBEDBY (1)	PROJECTMEMBER (2)		

Displaying 86 nodes, 566 relationships.

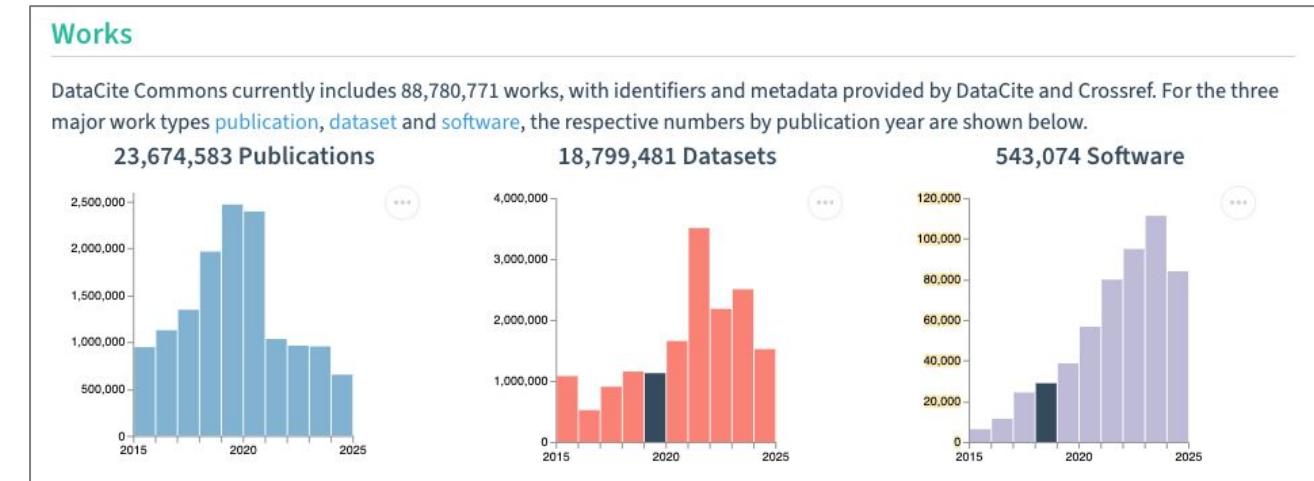
"fundingReferences": {  
 "funderName": "National Science Foundation",  
 "funderIdentifier": "https://doi.org/10.13039/100000001",  
 "funderIdentifierType": "Crossref Funder ID" }



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# commons.datacite.org

The DataCite Commons is the emerging interface to metadata in DataCite and other elements of the global research PIDGraph (Crossref, ORCID, ROR, Event Data)



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<https://commons.datacite.org/statistics>

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# Commons: UCAR/EOL Instruments

[DataCite Commons](#)

Earth Observing Works People Organizations Repositories Pages Support Sign In

25 Works

**NSF/NCAR GV HIAPER Aircraft**  
UCAR/NCAR-Earth Observing Laboratory  
High Performance Aircraft For Atmospheric Research published 2005 in Earth Observing Laboratory  
The NSF/NCAR Gulfstream-V High-performance Instrumented Airborne Platform for Environmental Research (GV HIAPER) aircraft is a cutting-edge observational platform that meets the scientific needs of researchers who study many different aspects of the earth's environment, such as atmospheric Chemistry and Climate, Chemical Cycles, Clouds and Aerosols, Solar and Terrestrial Radiative Fluxes, Upper Troposphere Lower Stratosphere Processes, Mountain Waves and Turbulence, Air Quality, and Mesoscale Weather.  
DOI registered March 13, 2015 via DataCite.

**268 Citations**

**Physical Object**  
<https://doi.org/10.5065/d6dr2sjp>

**NSF/NCAR Hercules C130 Aircraft**  
UCAR/NCAR-Earth Observing Laboratory  
Aircraft For Earth Observations Research published 1994 in Earth Observing Laboratory  
The C-130 is a versatile and capable research platform that carries a wide variety of scientific payloads. The C-130 has a 10-hour flight endurance, a 2,900 nautical mile range at up to 27,000 ft, and a payload capacity of up to 13,000 lbs. In addition to standard thermodynamic, microphysics and radiation sensors, the C-130 has a roomy fuselage payload area (414 ft<sup>2</sup>) and many versatile inlets and optical ports. The aircraft carries instruments and sensors in pods and pylons on both wings. The C-130 can carry advanced EOL and community instrumentation.  
DOI registered April 1, 2015 via DataCite.

**141 Citations**

**Physical Object**  
<https://doi.org/10.5065/d6wm1bg0>

**S-PoKa: S-band/Ka-band Dual Polarization, Dual Wavelength Doppler Radar**  
UCAR/NCAR-Earth Observing Laboratory  
Weather Radar System For Atmospheric Research published 1996 in Earth Observing Laboratory  
NCAR/EOL's S-PoKa radar is an advanced, transportable, ground-based dual-polarimetric, dual-wavelength, Doppler weather radar. PoKa transmits 10 cm wavelength (S-band) and 0.86 cm wavelength (Ka-band) simultaneously with matched beamwidths and range resolution. The dual-polarimetric capabilities of S-PoKa lead to improved precipitation estimates over what is available on conventional radars, as well as real-time identification of hydrometeor types. The absolute phase measurements from S-PoKa can be used to compute and monitor in real time the low-level humidity by measuring changes in refractive index between fixed ground targets. The added capabilities afforded by the dual-wavelength radar measurements currently include boundary layer humidity profiles and cloud liquid water content estimates that are independent of drop size distribution.  
DOI registered April 1, 2015 via DataCite.

**51 Citations**

**Physical Object**  
<https://doi.org/10.5065/d6dr2sjp>

Up to 200 citations/references available as CSV.

[DataCite Commons](#)

Earth Observing Laboratory Works People Organizations Repositories Pages Support Sign In

**NSF/NCAR GV HIAPER Aircraft** <https://doi.org/10.5065/d6dr2sjp>

**266 Citations**

**Description** Creators Registration

The NSF/NCAR Gulfstream-V High-performance Instrumented Airborne Platform for Environmental Research (GV HIAPER) aircraft is a cutting-edge observational platform that meets the scientific needs of researchers who study many different aspects of the earth's environment, such as atmospheric Chemistry and Climate, Chemical Cycles, Clouds and Aerosols, Solar and Terrestrial Radiative Fluxes, Upper Troposphere Lower Stratosphere Processes, Mountain Waves and Turbulence, Air Quality, and Mesoscale Weather.

High Performance Aircraft For Atmospheric Research published 2005 in Earth Observing Laboratory

**Physical Object**  
<https://doi.org/10.5065/d6dr2sjp>

**Download Reports**

**Related Works (CSV)**

**Share**

Email Twitter Facebook

**Filter Works**

Type to search... Publication Year

**Connection Types**

All References Citations

349 71 266

**Work Types**

**Dataset** 100%

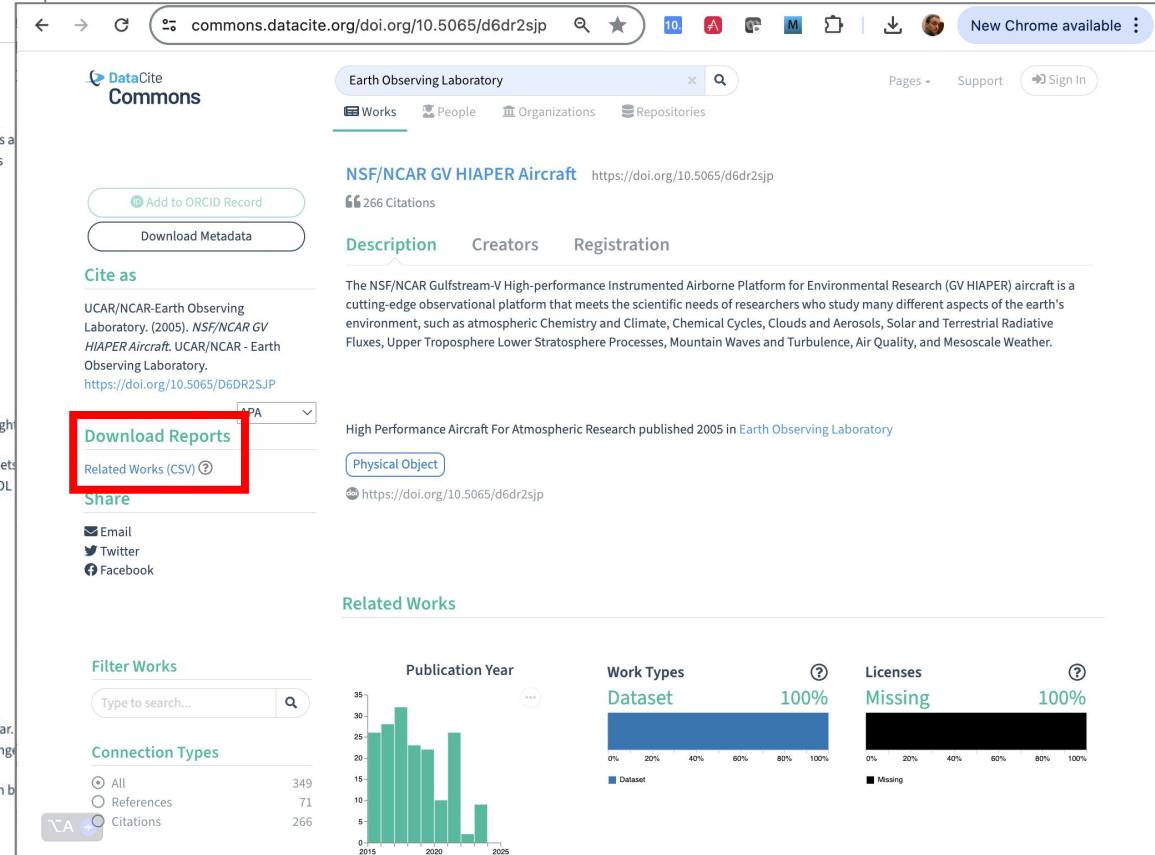
**Licenses**

**Missing** 100%

0% 20% 40% 60% 80% 100%

2015 2020 2025

**Related Works**



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A photograph of a small, white dog with brown spots sitting on a weathered wooden bench. The dog is looking towards the camera. The background shows a field with dry grass and bare trees under a blue sky.

# Questions?

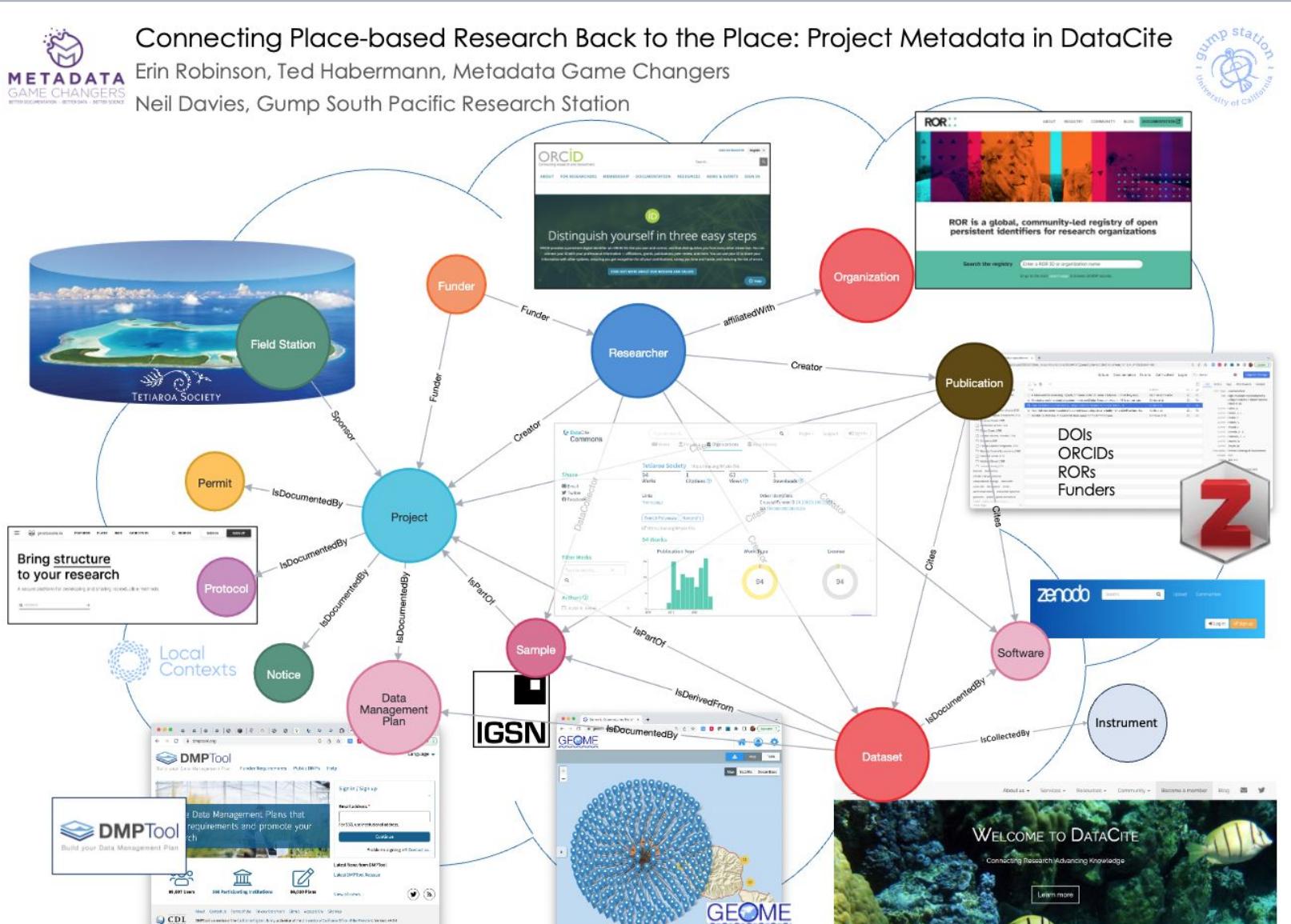
Work with us on:

- Identifiers and Repository Re-curation
- Repository and Journal Connectivity
- Metadata evaluation and improvement (FAIR metadata)
- Community building strategy
- International Metadata Standards (ISO, DataCite, schema.org)
- Workshop design and facilitation
- Community conventions / profiles
- Leadership coaching

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# The Goal: A Connected Information Ecosystem



<https://doi.org/10.6084/m9.figshare.23671917.v1>

on: 0000-0001-9998-0114, Ted Habermann: 0000-0003-3585-6733, Neil Davies: 0000-0001-8085-5014, Metadata Game Changers: 05bp8ka05, Gump South Pacific Research Station: 04sk0e152

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# Finding UCAR Instruments in Commons

These next few slides show how to find UCAR instruments in DataCite Commons

Use presentation mode to follow the steps!

Screen shots are from 2023...



# ucar.eol@commons.datacite.org

The screenshot shows two views of the DataCite Commons interface. The left view is the main repository landing page, featuring sections for Criterias Compliance (Enabling FAIR Data Project, FAIR's FAIR Project), Certificates (CoreTrustSeal), and Software (unknown). It includes a large blue upward arrow icon for sharing. The right view is a detailed repository page for 'client.uid:ucar.eol' with 8,570 works. It displays a list of creators/contributors and their counts, a publication year distribution, and a 'Work Type' section highlighted with a red box. The 'Work Type' section lists categories and their counts: Dataset (8,531), Physical Object (25), Text (6), Software (5), Event (1), Interactive Resource (1), and Other (1).

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# ucar.eol@commons.datacite.org

The screenshot displays three main sections of the DataCite Commons interface:

- Left Panel:** Shows repository statistics for "Earth Observing Laboratory" (8,570 Works) and "Earth" (8,570 Works). It includes sections for Criterias Compliance (Enabling FAIR Data Project, FAIR's FAIR Project), Certificates (CoreTrustSeal), and Software (unknown).
- Middle Panel:** A detailed view of a dataset entry for the "HIPPO Pressure Version 1.0" study. It lists creators (Cooper, L., Grebmeier, J., Ashjian, C., Sambrotto, R., Staben, P., Weingartner, T., Gradinger, R., Aagaard, D., Woodgate, R., Whittlesey, T.), publication years (2017-2023), and work types (Dataset, Physical Object, Text, Software, Event, Interactive Resource, Other). A large blue arrow points down from this panel towards the search results.
- Right Panel:** Search results for "client.uid:ucar.eol". The first result is for the "NSF/NCAR GV HIAPER Aircraft" (25 Works), which is a High Performance Aircraft For Atmospheric Research published in 2005. The second result is for the "NSF/NCAR Hercules C130 Aircraft" (25 Works), a Aircraft For Earth Observations Research published in 1994. Both results show citation counts (268 and 142 respectively) and links to their respective DataCite pages.

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# Automatic Giant Nuclei Impactor

The screenshot shows the DataCite Commons interface. On the left, there's a sidebar with 'Add to ORCID Record', 'Download Metadata', 'Cite as' (with a blue arrow icon), and 'Share' options for Email, Twitter, and Facebook. The main area has tabs for 'Works', 'People', 'Organizations', and 'Repositories'. A search bar at the top has a placeholder 'Type to search...' and a magnifying glass icon. Below the search bar are 'Pages' and 'Support' links, and a 'Sign In' button. A 'Download' modal is open in the center. It has two sections: 'Full Metadata' and 'Citation Metadata'. Under 'Full Metadata', 'DataCite JSON' is highlighted with a red box. Other options include DataCite XML, Citeproc JSON, BibTeX, Schema.org, and JSON-LD. Under 'Citation Metadata', RIS is listed. To the right of the modal, there's a registration summary: '1386' entries, a registration date of '2013-08-20', and a registration status of 'Published'. The registration text describes the instrument: 'The exposed polycarbonate slides are analyzed by a scanning electron microscope with humidified air that generates aerosol layers, typically 50000 giant aerosol particles over the measurement range in bins of 10 nm. Smaller nuclei are sampled by a pump or otherwise in air with lower aerosol concentration.' Below the modal, it says 'Airborne Sensor published 2008 in Earth Observing Laboratory' and has a 'Physical Object' link. At the bottom, there's a DOI link: <https://doi.org/10.26023/r267-m386>.

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# Automatic Giant Nuclei Impactor

 DataCite Commons

Type to search... 

Pages Support 

 Works  People  Organizations  Repositories

**Automatic Giant Nuclei Impactor** <https://doi.org/10.26023/r267-m386>

**Description** **Creators** **Contributors** **Funders** **Registration**

 Add to ORCID Record

 Download Metadata

**Cite as**

Jensen, J., Schwenz, K., Carnes, J., Spowart, M., & Munnerlyn, J. *Automatic Giant Nuclei Impactor*. UCAR/NCAR - Earth Observing Laboratory. <https://doi.org/10.26023/R267-M386>

 APA

**Share**

 Email  Twitter  Facebook

Airborne Sensor published  Physical Object <https://doi.org/10.26023/r267-m386>

```
"descriptions": [ { "lang": "en", "description": "The Auto-GNI sampling is done using free-stream impaction (i.e., no inlet losses). The exposed polycarbonate slides are stored and subsequently analyzed in EOL / RAF's GNI Microscope, an optical automated microscope with humidified air that allows for size determination using Kohler theory. When flying in marine boundary layers, typically 50000 giant aerosol particles are sampled within a 10-s exposure time; this gives excellent size distributions over the measurement range in bins of 0.2 micron dry radius. Longer sample times are possible for flight at higher altitude or otherwise in air with lower aerosol concentration.", "descriptionType": "Abstract" } ]
```

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# Automatic Giant Nuclei Impactor

 DataCite Commons

Type to search... 

Pages ▾ Support 

Works People Organizations Repositories

[Add to ORCID Record](#)

[Download Metadata](#)

[Cite as](#)

Jensen, J., Schwenz, K., Carnes, J., Spowart, M., & Munnerlyn, J. *Automatic Giant Nuclei Impactor*. UCAR/NCAR - Earth Observing Laboratory. <https://doi.org/10.26023/R267-M386>

APA

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[Physical Object](#)

<https://doi.org/10.26023/r267-m386>

**Automatic Giant Nuclei Impactor** <https://doi.org/10.26023/r267-m386>

Description Creators Contributors Funders Register

Jorgen Jensen

Karl Schwenz

Joshua Carnes

Michael Spowart

John Munnerlyn

Airborne Sensor published 2008 in [Earth Observing Laboratory](#)

`"creators": [`  
 `{`  
 `"name": "Jensen, Jorgen",` `"nameType": "Personal",` `"givenName": "Jorgen",` `"familyName": "Jensen",` `"affiliation": [],` `"nameIdentifiers": [`  
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 `}`  
 `],`  
 `{`  
 `"name": "Schwenz, Karl",` `"nameType": null,` `"givenName": "Karl",` `"familyName": "Schwenz",` `"affiliation": [],` `"nameIdentifiers": []`  
 `},`





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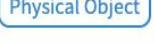
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Description Creators Contributors Funders Registration

NCAR/EOL Research Aviation Facility Research Group

Airborne Sensor published 2008 in [Earth Observing Laboratory](#)

Physical Object 

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