



What is a persistent identifier?

persistent identifier

an organization made a promise to keep it alive globally unique string

(known as PIDs to their friends)



What can PIDs do?



PIDs Disambiguate

Daisy Selematsela

ORCID ID

Ohttps://orcid.org/0000-0002-9035-1319



Also known as

Selloane Daisy Selematsela, Nthabiseng Daisy Selematsela, Daisy Nthabiseng Selloane Selematsela (V)

₹

₹

(V)

₹

Websites & Social Links

LinkedIn (za.linkedin.com/pub/dr-daisyselematsela/2/822/b29/en

Country

South Africa

Keywords

Knowledge Management, Information literacy, Information science, records and document management, research data management, repositories, digitisation, preservation, strategic management, research evaluation, research impact.

Other IDs

Scopus Author ID: 57193754319



PIDs link

References

Abd Ellah and Abouelmagd, 2016 N.H. Abd Ellah, S.A. Abouelmagd
Surface functionalization of polymeric nanoparticles for
tumor drug delivery: approaches and challenges
Expert Opin. Drug Deliv., 1–14 (2016),
10.1080/17425247.2016.1213238
Google Scholar

Abouelmagd et al., 2016 S.A. Abouelmagd, F. Meng, B.-K. Kim, H. Hyun, Y. Yeo

Tannic acid-mediated surface functionalization of polymeric nanoparticles

ACS Biomater. Sci. Eng. (2016), p. 6b00497, 10.1021/acsbiomaterials.6b004 Google Scholar

Ahmed et al., 2016 S. Ahmed, S. Annu, S.S. Yudha

Biosynthesis of gold nanoparticles: a green approach

J. Photochem. Photobiol. B: Biol., 161 (2016), pp. 141-153,

10.1016/j.jphotobiol.2016.04.034

Article Download PDF View Record in Scopus

Google Scholar

Akhavan et al., 2011 O. Akhavan, R. Azimirad, S. Safa, E. Hasani



PIDs can make research FAIR

FAIR Principles

Compliance



Findability

Resource and its metadata are easy to find by both, humans and computer systems. Basic machine readable descriptive metadata allows the discovery of interesting data sets and services.



 F2. Metadata are assigned a globally unique and persistent identifier.



Accessibility

Resource and metadata are stored for the long term such that they can be easily accessed and downloaded or locally used by humans and ideally also machines using standard communication protocols.

- A1. Resource is accessible for download or manipulation by humans and is ideally also machine readable.
- A2. Publications and data repositories have contingency plans to assure that metadata remain accessible, even when the resource or the repository are no longer available.



Interoperability

Metadata should be ready to be exchanged, interpreted and combined in a (semi)automated way with other data sets by humans as well as computer systems.

- 11. Resource is uploaded to a repository that is interoperable with other platforms.
- 12. Repository meta- data schema maps to or implements the CG Core metadata schema.
- I3. Metadata use standard vocabularies and/or ontologies.



Reusability

Data and metadata are sufficiently well-described to allow data to be reused in future research, allowing for integration with other compatible data sources. Proper citation must be facilitated, and the conditions under which the data can be used should be clear to machines

- R1. Metadata are released with a clear and accessible usage license.
- R2. Metadata about data and datasets are richly described with a plurality of accurate and relevant attributes.



Why PIDs?

"The issue of citation standards became important in the online world as well. Studies have shown that within a few years of being cited, a significant percentage of web addresses go "dead"!"





PIDs for Organizations!



ROR stands for "Research Organization Registry"—a community-led project to develop an open, sustainable, usable, and unique identifier for every research organization in the world.



GRID is the Global Research Identifier Database and releases IDs and metadata under a CC-1 license.



The Legal Entity Identifier is a unique global identifier for legal entities participating in financial transactions.

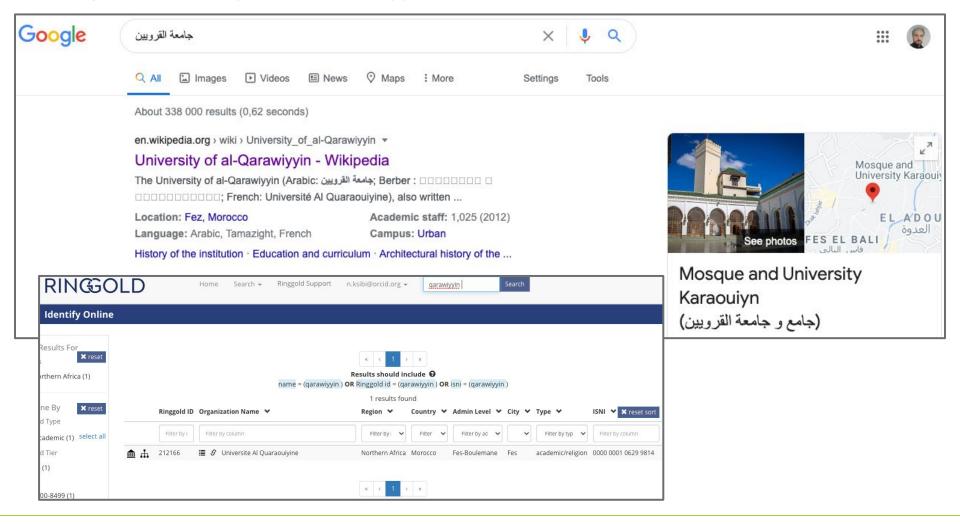


Ringgold is a registration agency for ISNI, and the Ringgold database include cross-walked ISNI organizational identifiers.



Why PIDs for Organizations?

جامعة القروبين Example: University of al-Qarawiyyin





PIDs For Contributors!

Staff homepages



In **About me** if you have ORCID, Scopus and ResearcherID profiles the badges linking to these should appear. If not, contact your Library Services Team.

Under **Social Media Links** badges for Twitter, Facebook, LinkedIn, YouTube, Google Scholar and Instagram can be added to your staff home page.

For help with your staff home page visit the links below:

University of South Australia libguide



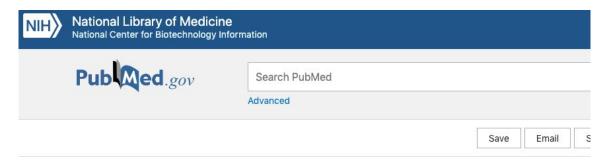


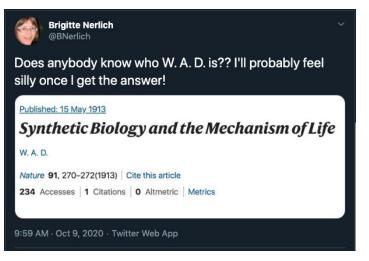
10+ Million ORCID iDs and counting...



Source: https://guides.library.unisa.edu.au/Networking/Profile

Why PIDs for Contributors?





Guideline > Autophagy. 2016;12(1):1-222. doi: 10.1080/15548627.2015.1100356.

Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition)

```
, Bo Wang 1952, Caihong Wang 128, Chao-Yung Wang 1953, Chengshu Wang 1954, Chenran Wang 435, Chuangui Wang 1955, Dong Wang 1956, Fen Wang 1957, Fuxin Wang 1958, Guanghui Wang 1959, Hai-Jie Wang 1960, Haichao Wang 1961, Hong-Gang Wang 1962, Hongmin Wang 1963, Horng-Dar Wang 1964, Jing Wang 1965, Junjun Wang 1966, Mei Wang 872, Mei-Qing Wang 1967, Pei-Yu Wang 1968, Peng Wang 332, Richard C Wang 1969, Shuo Wang 1970, Ting-Fang Wang 1690, Xian Wang 1971, Xiao-Jia Wang 1972, Xiao-Wei Wang 1973, Xin Wang 1974, Xuejun Wang 1975, Yan Wang 324, Yanming Wang 1976, Ying Wang 1977, Ying-Jan Wang 1978, Yipeng Wang 1245, Yu Wang 1979, Yu Tian Wang 1980, Yuqing Wang 992, Zhi-Nong Wang 1981, Pablo Wappner 1982, Carl
```

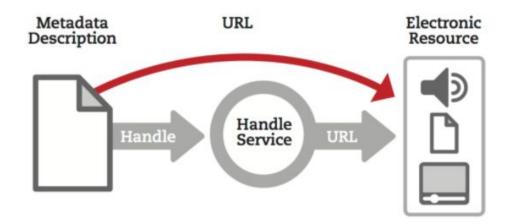


Source: https://pubmed.ncbi.nlm.nih.gov/26799652/

PIDs For Contributions!













Source: http://www.persid.org/downloads/Pl-intro-2010-09-22.pdf

PIDs for Systems Interoperability and Open Research "ready" Infrastructure!

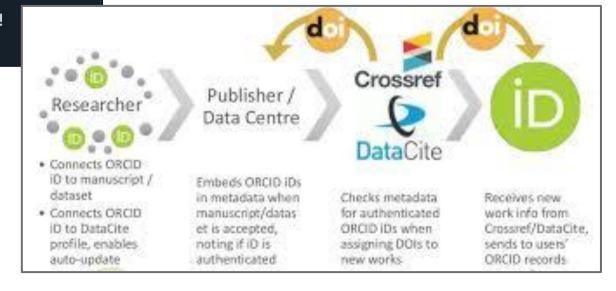


I don't mind my manuscript getting rejected after peer review. But I do mind when I can't even log into the damned journal submission site!

FFS, can ALL journals please allow us to log in with a single ID (like @ORCID_Org)!

AUTHORS DON'T HAVE TIME FOR THIS BS!!

4:32 AM · Sep 16, 2020 · Twitter Web App





What is ORCID?

What is ORCID?

- ORCID is an open, global, non-profit organization run by and for the research community.
- ORCID provides researchers with a unique (and persistent), free to use identifier, an ORCID iD, that connects them reliably and clearly with their research contributions, affiliations, funding, and facilities.
- An ORCID iD is NOT an author profile or an authority check.
- ORCID provides **open tools** (ORCID iDs, Registry & APIs) that allow transparent connections between **researchers** and **identifiers** of their activities and **contributions**.



ORCID provides a **persistent digital identifier** (an ORCID iD) that you own and control, and that **distinguishes** you from every other researcher. You can connect your iD with your **professional information** — affiliations, grants, publications, peer review, and more. You can **use** your iD to **share** your information with other **systems**, ensuring you get **recognition** for all your **contributions**, saving you time and hassle, and reducing the risk of errors.

As an individual, it is free to have an ORCID iD!

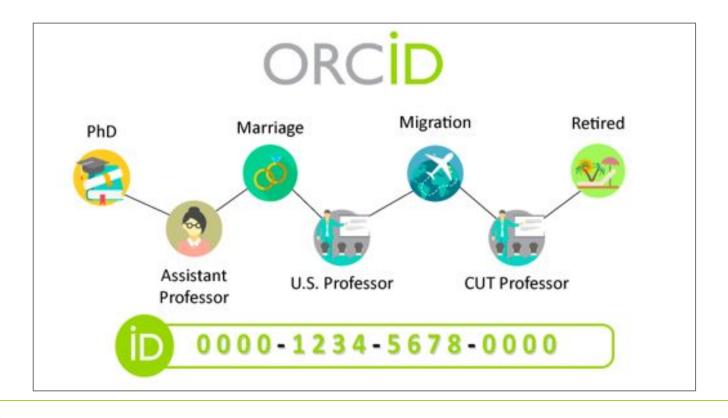


Why ORCID?



Why ORCID?

To **disambiguate** names and uniquely identify contributors.



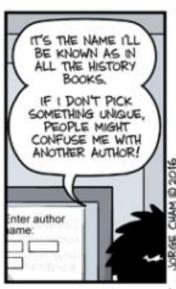


Identifying authors and link contributions





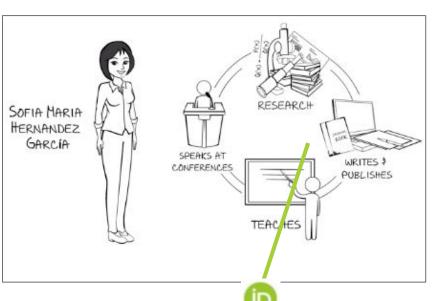




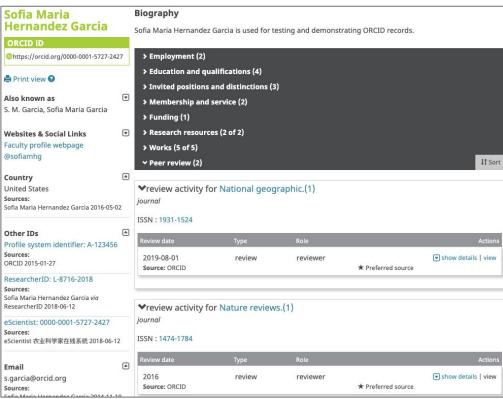


WWW.PHDCOMICS.COM











Inside the ORCID record





My ORCID Record

Researcher Gives permission to **COLLECT** iD and



Registers & manages ORCID record



access the record



Controls visibility









ORCID record

Researcher Name

ORCID ID



orcid.org/xxxx-xxxx-xxxx

Basic information

- Other names
- Email addresses
- Biography

Account settings

Affiliations, Activities, Resources

Employment:

XXX University

Source: XXX University (ID139)

Funder

Publisher











Funding:

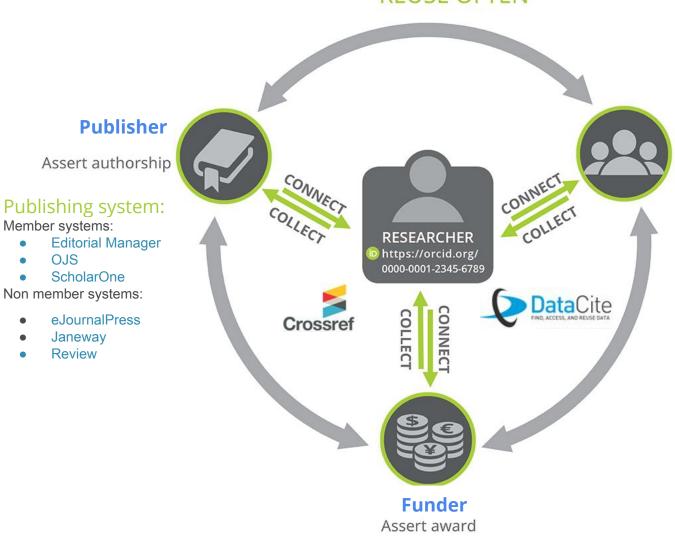
YYY Foundation, Grant #123 Source: YYY Foundation (ID45)

Works:

Book, Chapter, 2016

Source: ZZZ Publisher (DOI:675)

ENTER ONCE INTEROPERABILITY -**REUSE OFTEN**



University Research Institution

Assert affiliation

CRIS systems

Member systems:

- Atlas s2id
- Converis
- **DB-Sprial**
- **Digital Measures**
- Elements
- Faculty180
- InfoEd
- **IRMA**
- Pure

Non member systems:

- **DSpace CRIS**
- Vivo
- Haplo
- Worktribe
- **Fundanet**



Member systems:

OJS

Non member systems:

Janeway

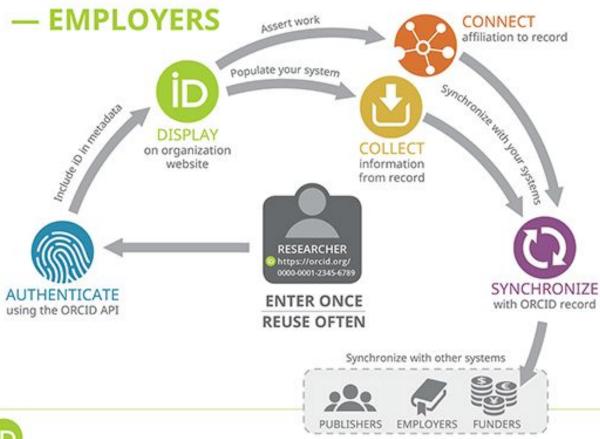
Review

ScholarOne

eJournalPress

Interoperability: Information workflow for institutions

COLLECT & CONNECT WORKFLOW



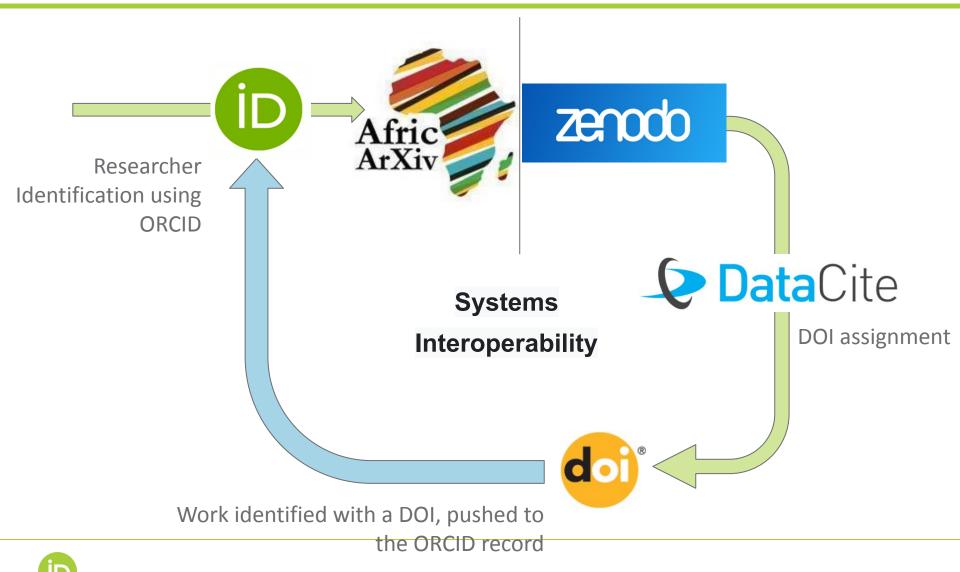




ORCID to connect your contributions to research



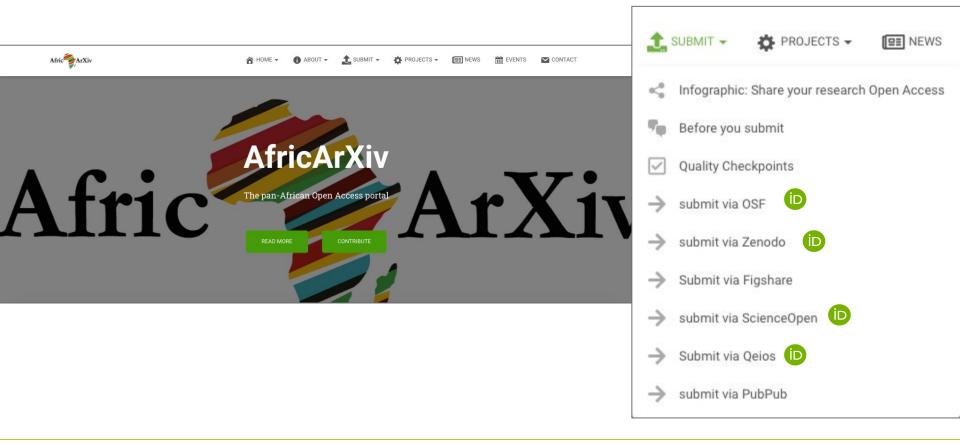
AfricArXiv-Zenodo-Datacite (workflow)





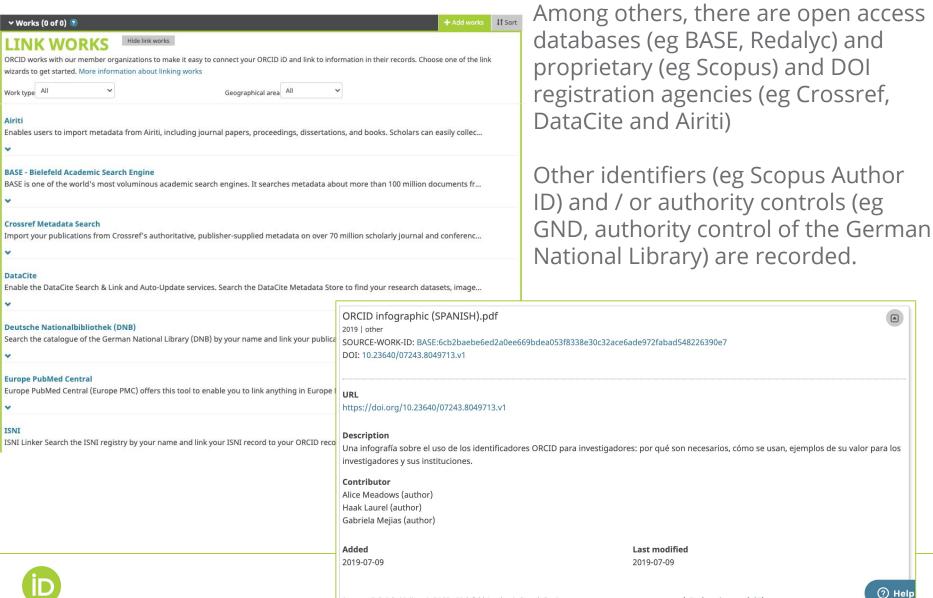
AfricArXiv

Share your research in African Languages
Make your results citable and apply a CC-BY license
Promote Open Scholarship, Open Source and Open Standards





Search & Link



Source: Gabriela Meijas via BASE - Bielefeld Academic Search Engine

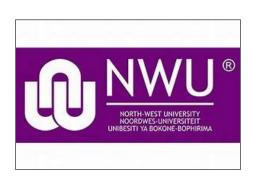
They allow to import works from

★ Preferred source (of 5)

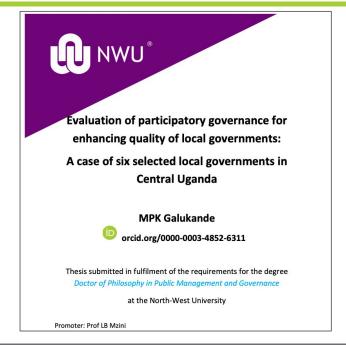
different databases.



Thesis & Dissertations assertions



Example from: North-West University (South Africa)



Show 10 ♥ items		APP-O5MZRBSVG23MEPOJ	x ■ Download as CSV
client source id	client name	count of distinct work id work type	
APP-O5MZRBSVG23MEPOJ	North-West University, South Africa	921 OTHER	
APP-O5MZRBSVG23MEPOJ	North-West University, South Africa	5,578 JOURNAL_	ARTICLE
APP-O5MZRBSVG23MEPOJ	North-West University, South Africa	43 DISSERTAT	TION_THESIS
APP-O5MZRBSVG23MEPOJ	North-West University, South Africa	122 CONFEREN	NCE_PAPER



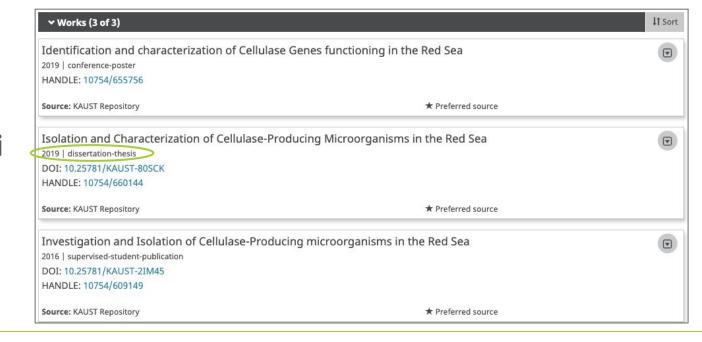


Thesis & Dissertations assertions



Example from: King Abdullah University of Science and Technology (Saudi Arabia)

client source id	client name	count of distinct work id	work type
APP-UX015Z851O6ST9E1	KAUST Repository	547	WORKING_PAPER
APP-UX015Z851O6ST9E1	KAUST Repository	410	SUPERVISED_STUDENT_PUBLICATION
APP-UX015Z851O6ST9E1	KAUST Repository	1	SOFTWARE
APP-UX015Z851O6ST9E1	KAUST Repository	66	REPORT
APP-UX015Z851O6ST9E1	KAUST Repository	508	PATENT
APP-UX015Z851O6ST9E1	KAUST Repository	509	OTHER
APP-UX015Z851O6ST9E1	KAUST Repository	268	LECTURE_SPEECH
APP-UX015Z851O6ST9E1	KAUST Repository	16,711	JOURNAL_ARTICLE
APP-UX015Z851O6ST9E1	KAUST Repository	403	DISSERTATION_THESIS
APP-UX015Z851O6ST9E1	KAUST Repository	535	DATA_SET





Source: https://orcid.org/0000-0002-4992-9502

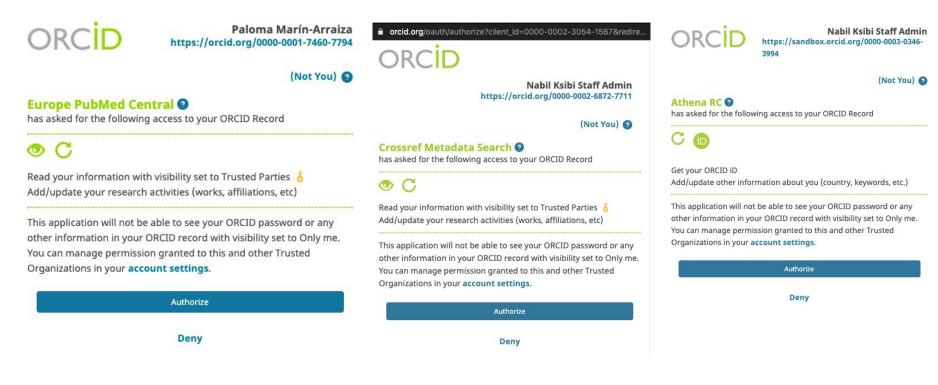


MEMBERSHIP CATEGORIES

Member Benefit	Basic - NonProfit	Premium	Consortium
API Access	(1)	(5)	(5) per consortium member
Webhooks: API-based notifications	No	Yes	Yes
Implementation support (email)	Yes	Yes - priority queue	Yes - via consortium lead, escalation to ORCID
Analytics reports	2/annum (general)	Monthly (includes API usage statistics)	Monthly (includes API usage statistics and consortium summary)
Orientation webinar to kick off project	1	Up to 2 per month	Consortium lead provides orientation; ORCID trains lead, sponsors global consortium workshop, provides information sharing platform
Requirements and Pricing		_	ps://orcid.org/content/orcid-consortia https://orcid.org/about/membership



The importance of authentication



- Ensuring that the iD is transmitted correctly
- Avoid errors when inserting the iD in the metadata (typographical errors, reconciliation errors, etc.)
- Be aware of what use permissions are granted



ORCID Privacy





ORCID TRUST





Information Integrity



Source: https://orcid.org/about/trust/home
Privacy at ORCID: https://orcid.org/privacy-policy

ORCID privacy

By default, who should be able to see information added to your ORCID Record?

- Everyone (87% of users choose this)
- Trusted parties (5% of users choose this)
- Only me (8% of users choose this)

 Email addresses are private by default



- Privacy control of the registry for each entry individually
- In accordance with GDPR and privacy acts.

Trusted organization	Approval date	Access type	
CAPES https://sadmin.capes.gov.br	2019-08-14	Read your information with visibility set to Trusted Parties Add/update your research activities (works, affiliations, etc) Get your ORCID iD	Î
Clarivate https://www.clarivate.com/	2019-07-09	Read your information with visibility set to Trusted Parties	Î
CNPq - Conselho Nacional de Desenvolvimento Científico e Tecnológico (The National Counc for Scientific and Technological Development) http://www.cnpq.br/	2019-07-24 il	Read your information with visibility set to Trusted Parties Add/update your research activities (works, affiliations, etc) Get your ORCID iD	
Copernicus.org http://www.copernicus.org	2019-01-23	Get your ORCID iD	â
Crossref 2019-04-12 https://doi.crossref.org/		Read your information with visibility set to Trusted Parties Add/update your research activities (works, affiliations, etc)	â



ORCID in public policies and guidelines

NRF ORCID Statement

The NRF requires that all researchers and students applying for funding and rating at the NRF have an ORCID* identifier.

The NRF is in the process of integrating the ORCID identifier into all application and grant management business processes and systems and will allow researchers to include their ORCID identifier when updating their CVs. The NRF is also considering the downstream integration benefits to both researchers and the NRF including automated processes for uploading research output records into a researcher's profile and annual research reports.

A unique identifier, as provided by ORCID and which researchers can associate with their name variations and their research works, is a way to ensure that these links can be made accurately and reliably. This will help researchers to uniquely identify themselves as the author of their work across all systems integrated with the ORCID registry.

The NRF membership of ORCID ensures that researchers and their institutions will benefit from access to and integration with the ORCID registry, including setting up and maintaining disambiguated records for all researchers and linking these to their publications and other research outputs, leading, in turn, to a simpler, more reliable evaluation process.

* ORCID is an international, interdisciplinary, open and not-for-profit organisation created in 2010 for the benefit of all stakeholders, including research organisations, research funders, publishers and researchers. We aim to transform the research ecosystem by providing a registry of persistent unique identifiers for researchers and scholars and automating linkages to research objects such as publications, grants and patents (www.orcid.org)



African Open Science Platform

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out Research, Scien

NADRE becoming the new entry to quality Ethiopian research output

ASSAf – through the African Open Science Platform project – during 19 to 21 February 2018, participated in a workshop and conference which was organized and funded with the help of the German Cooperation (implemented by GIZ Deutsche Gesellschaft fur Internationale Zusammenarbeit (GIZ) GmbH, the Ethiopian Education Strategy Center, EthERNet and the Ethiopian Ministry of Education.

Through many investments over the years, African countries have made great progress in managing its research in a digital way, aligning it with international standards. Ethiopia is no different, and research intensive institutions in Ethiopia have made great progress in setting up repositories, making sure that research output funded with public money will be accessible for the unforeseeable future. The 4-day workshop and conference addressed the implementation of persistent identifiers for digital objects (incl. DOIs and ORCID IDs), experiences from across the globe (Ireland, Austria, South Africa and Italy), addressing possible challenges, and also aligning existing repositories for harvesting through NADRE, the national harvester. All African institutional repositories are also encouraged to align with the requirements for inclusion by the continental harvester developed by the Association of African Universities (AAU), known as DATAD-R. In the end, researchers will not only be able to search for high quality Ethiopian research from a central access point (NADRE), but also search for high quality African research through a central access point for African research (DATAD-R).

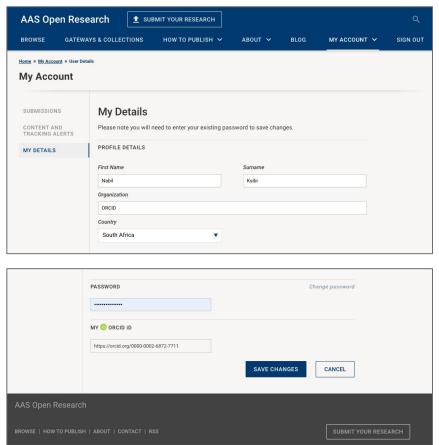


Integrations in funding and grant management systems











Source: https://aasopenresearch.org/

ORCID DSpace Integration KAUST patch

Expanded ORCID support for DSpace (Patch)

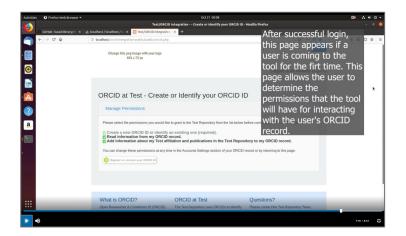
Introduction

ORCID is a service that attaches a persistent digital identifier to a specific researcher by linking his/her name with a resolvable internet address, also called an ORCID iD. This ID allows for a clear distinction between different researchers and makes it possible for one researcher to link all of their publications to their ID in an easy and straightforward manner.

DSpace as a software can be integrated with the ORCID database. When such an ORCID integration has been set up, the authority key field is leveraged to link the author to his ORCID iD. This patch extends the features that become available in DSpace once an integration with the ORCID database has been done.

The DSpace expanded-ORCID-support patch has been funded and contributed to the DSpace community by <u>King Abdullah University of Science and Technology (KAUST)</u>. It was designed for use in conjunction with the <u>Institutional ORCID Integration application</u> released by the KAUST Library.

The patch has been developed and is maintained by Atmire, a registered service provider for DSpace.



Institutional ORCID Integration (IOI)

Institutional ORCID Integration (IOI) provides a way for institutions to support the use of ORCID iDs by their researchers and students.

It is designed for use in conjunction with a DSpace repository (currently supporting DSpace versions 5 and 6). It expects the DSpace expanded-ORCID-support patch to already have been applied.

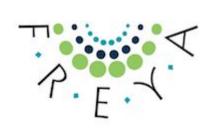
It interacts with ORCID using version 3.0 of the ORCID API. For full functionality ORCID membership and access to the ORCID member API are needed. It can also be used with the ORCID public API, but with limited functionality.



PIDs Initiatives and Drivers









ORCID and DataCite Interoperability Network





How to get involved with ORCID?

Researchers, research institutions, publishers and funding bodies routinely face the problem of accurately linking research publications, data and other research activities to the right researcher. A unique persistent identifier resolves problems of name ambiguity in search and discovery and can ensure that works are correctly and unambiguously attributed to their creator. ORCID solves this long-standing problem by providing a persistent digital identifier (ORCID ID) that distinguishes each researcher. Identifiers are a basis for digital data governance because they enable machine readability, disambiguate and enforce uniqueness, and enable accurate attribution and data integration.

Figure 2. New Zealand ORCID Joint Statement of Principle, 2015.



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A unique identifier, as provided by ORCID and which researchers can associate with their name variations and their research works, is a way to ensure that these links can be made accurately and reliably. This will help researchers to uniquely identify themselves as the author of their work across all systems integrated with the ORCID registry.

The NRF membership of ORCID ensures that researchers and their institutions will benefit from access to and integration with the ORCID registry, including setting up and maintaining disambiguated records for all researchers and linking these to their publications and other research outputs, leading, in turn, to a simpler, more reliable evaluation process.

ORCID is an international, interdisciplinary, open and not-for-profit organisation created in 2010 for the benefit of all stakeholders, including research organisations, research funders, publishers and researchers. We aim to transform the research ecosystem by providing a registry of persistent unique identifiers for researchers and scholars and automating linkages to research objects such as publications, grants and patents (www.orcid.org)



Recognizing Our Consortia Lead Organizations



Submitted by Alice Meadows on Mon, 2019-06-03 00:00

Consortia are fundamental to ORCID -- they enable broad adoption of ORCID with attention to local context. They help us maintain a small staff and in turn we can pass on low membership costs. Together, our consortia lead organizations support about 70% of our members, and help us better understand an address community challenges and opportunities.

At our recent consortia workshop in Atlanta, USA, we were delighted to recognize the contributions of six consortia lead organizations that have significantly helped grow and support the ORCID community.







Above, left to right: Award-winners Sheila Rabun and Celeste Feather of LYRASIS (center), Wesley Barrey of TENET (left), and Pål Axelsson of SUNET (left)



Thank you!

