



Connecting Research
and Researchers

Research Information Management with Persistent Identifiers

Data Day, Queens University, Kingston, Ontario 10 May 2016

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“Researchers want to be read,
acknowledged, and quoted.”

“Researchers want to spend
their time on research,
not reporting”

Names are Messy

Can names be cleaned up?

Of course they can!

We need to use **digital names**:
*persistent identifiers that uniquely
specify the person, organization, or
object to which a name refers*

ORCID provides persistent digital identifiers that distinguish researchers from each other



ORCID iD	First name	Last name
0000-0002-8898-4520	Koichi	Tanaka
0000-0001-9115-2015	Koichi	Tanaka
0000-0001-8666-6396	Koichi	Tanaka
0000-0002-3180-7881	Koichi	Tanaka

- Non-proprietary and platform-neutral
- International service that integrates with other researcher identifiers
- Registry use is free for individuals
- Independent non-profit membership organization
- Open data, software, APIs, and documentation

To benefit,
researchers need
only do 2 things:

- ① Register for an iD
- ② Use it!



Over 2 million researchers have registered for an ORCID identifier.

ORCID iDs are associated with:

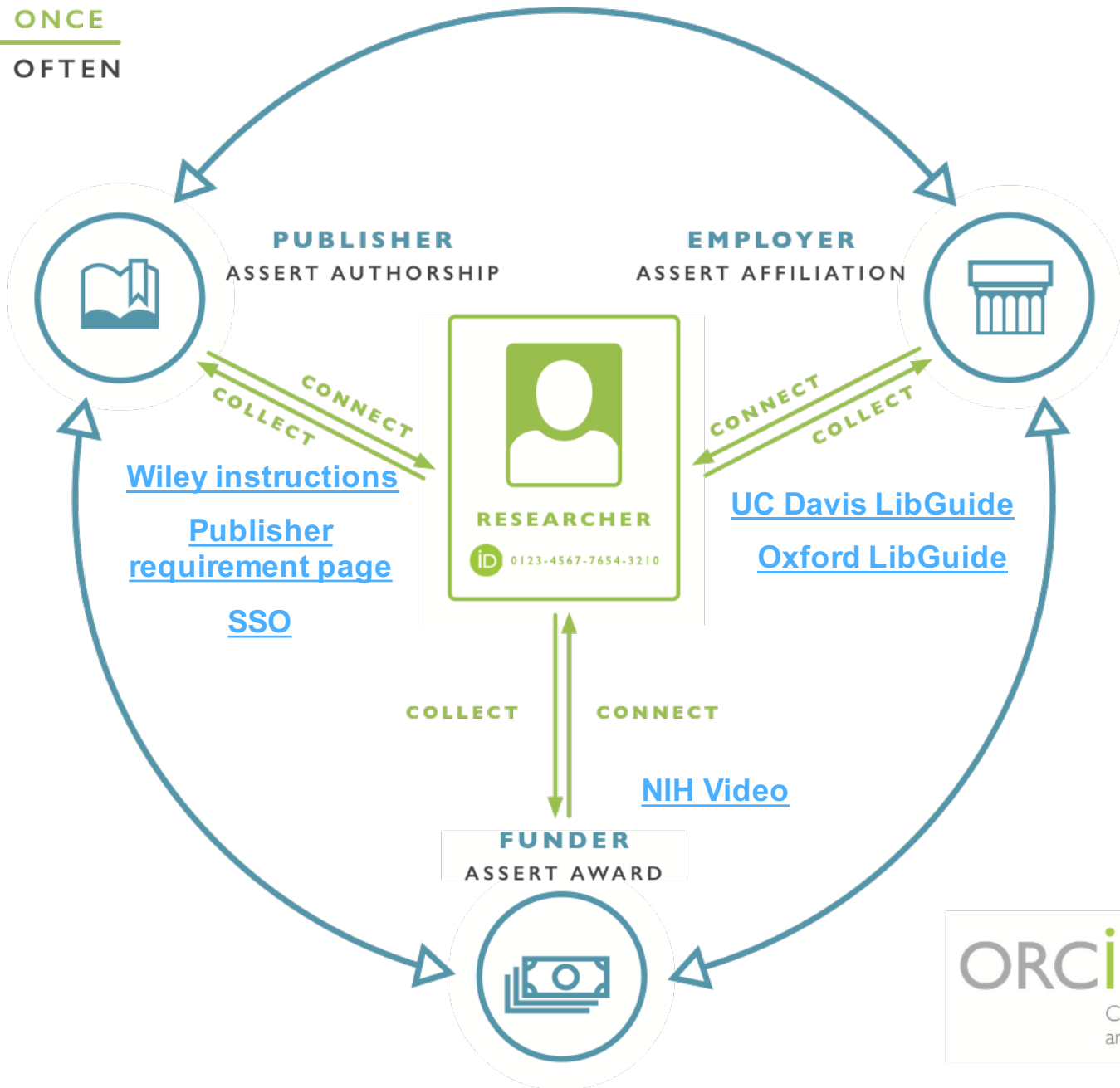
- >5 million unique DOIs (papers & data)
- >40 thousand unique organization IDs

Organizations are collaborating to ensure persistent identifiers for people, places, and things are connected in research workflows



INTEROPERABILITY

ENTER ONCE
REUSE OFTEN



KAUST Repository > Academic Divisions > Physical Sciences & Engineering (PSE) > Materials Science and Engineering Program >

Nanofabrication of SERS Substrates for Single/Few Molecules Detection

HANDLE URI:

<http://hdl.handle.net/10754/552375>

TITLE:

Nanofabrication of SERS Substrates for Single/Few Molecules Detection

AUTHORS:

Melino, Gianluca (0000-0001-8060-651X) 

ABSTRACT:

Raman spectroscopy is among the most widely employed method in several fields of study. Evolution in materials science allowed us to be capable to enhance the electromagnetic field of the signals coming to be in most cases singles or a few molecules. This particular variation (Surface Enhanced Raman Spectroscopy). In this work, the enhancement by manipulation of the optical properties of metals with respect to the bottom up technique, gold and silver nanoparticles were deposited on silicon wafers by means of electron beam lithography (top down technique). An extremely low concentration (10⁻⁸ M) was absorbed on the resulting spectra demonstrated the high efficiency of the substrates.

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KAUST DEPARTMENT:

Physical Sciences and Engineering (PSE) Division

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▼ **Education (1)**

King Abdullah University of Science and Technology (KAUST): Thuwal, Saudi Arabia

Student (Materials Science and Engineering)

Source: KAUST Repository

Created: 2015-05-04

▼ **Works (1)**

Nanofabrication of SERS Substrates for Single/Few Molecules Detection

2015 | supervised-student-publication

HANDLE: 10754/552375

URL: <http://hdl.handle.net/10754/552375>

Source: KAUST Repository



 Preferred source

“We want to use ORCIDs to simplify the life of Oxford’s researchers for working with institutional systems and publishers’ systems by re-using already available information for publication data management and reporting.

*The motto is: **Input once – re-use often.**”*

Wolfram Horstmann, Assoc. Director, Bodleian Libraries,
University of Oxford
<http://orcid.org/0000-0001-8673-6104>



Alex Smith @Alex_Smith_Ants

12m

Hour number 2 of entering and updating my publications to indicate that they were "published" and refereed. #CanadianCommonCV #wasteoftime

Details



Terry Wheeler

@ta_wheeler

@Alex_Smith_Ants Meanwhile, in an alternate universe, another You just typed his Orcid, linked it all up & went for a run.

9:07am · 29 Jul 2014 · Twitter for iPhone

National funding agencies are using ORCID in their grants management systems including the National Institutes of Health, Research Councils UK and the Australian Research Council.

Box 2. Funder Mandates. These funders are requiring use of ORCID by researchers.

- **Autism Speaks, USA (2014)**
- **FCT, Portugal (2014)**
- **QNRF, Qatar (2014)**
- **SRC, Sweden (2014)**
- **Department of Transportation, US (2015)**
- **NIHR, UK (2015)**
- **Wellcome Trust, UK (2015)**
- **FWF, Austria (2016)**

<http://orcid.org/blog/2015/12/04/research-funders-and-orcid-new-members-mandates-and-platforms>

Publishers
requiring
ORCID iDs:

Science
EMBO
PLOS
Royal Society
ACS
eLIFE
Hindawi
IEEE
AGU

From January you'll need an ORCID

7 December 2015 by [Phil Hurst](#)

Mandating the use of Open Researcher and Contributor ID (ORCID) by submitting authors.

[ORCID](#) provides a unique identifier for all researchers that can be linked to their different research works and activities across multiple platforms. It also serves to distinguish authors with similar names and simplify searching of publications databases (such as PubMed, Scopus, etc.) to avoid retrieving articles by authors with similar names. Close to 1.8 million researchers have already created their ORCID iD. The service is non-profit and community driven.

From 1 January 2016, we will require the submitting author to provide an ORCID identifier as part of the manuscript submission process. Details of the practicalities will be provided shortly, but don't worry, it takes less than a minute to register for an ORCID iD and it's free of charge. A [recent survey](#) carried out by ORCID indicates strong support in the research community for mandates by publishers, funders, and universities.

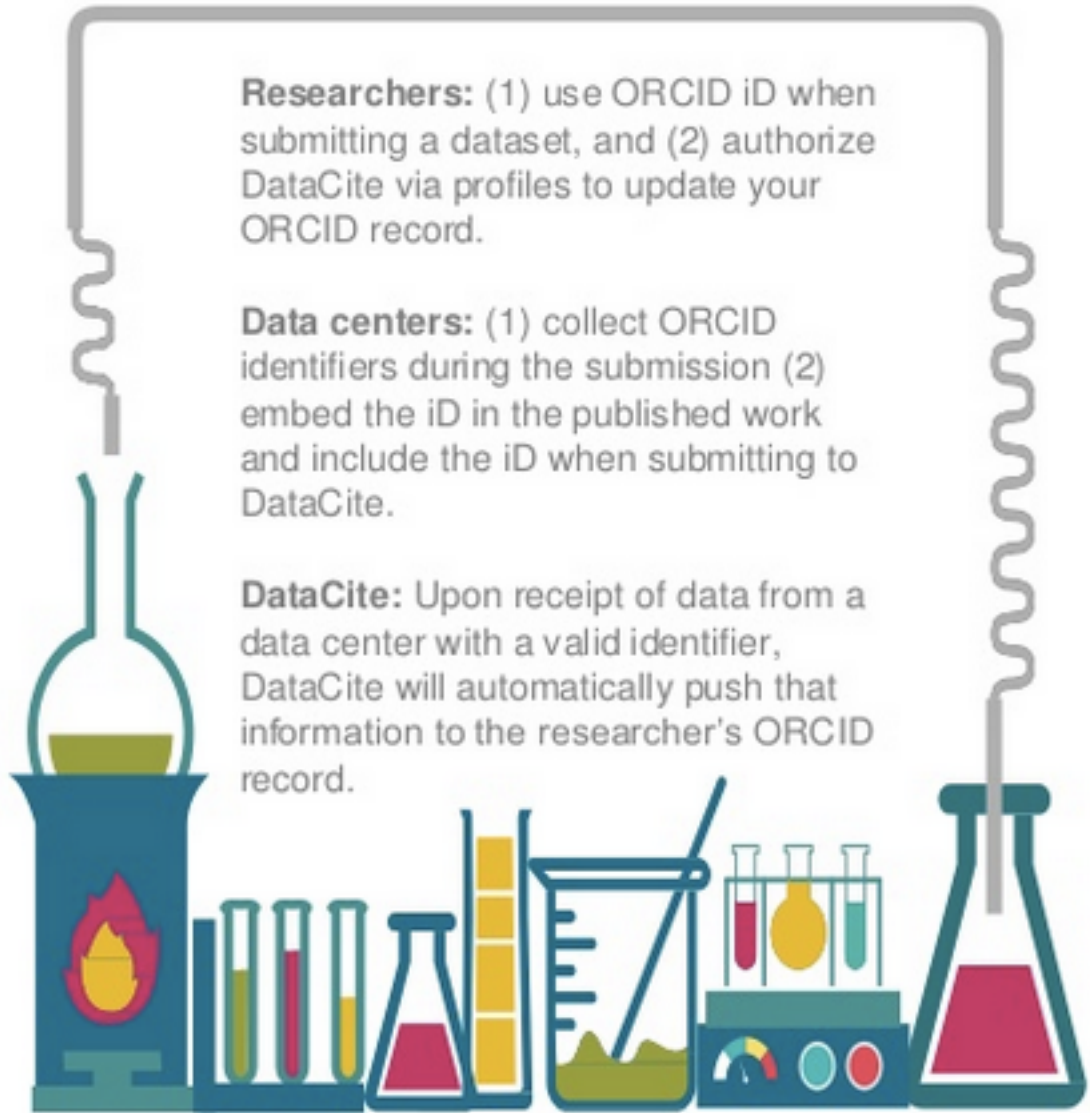


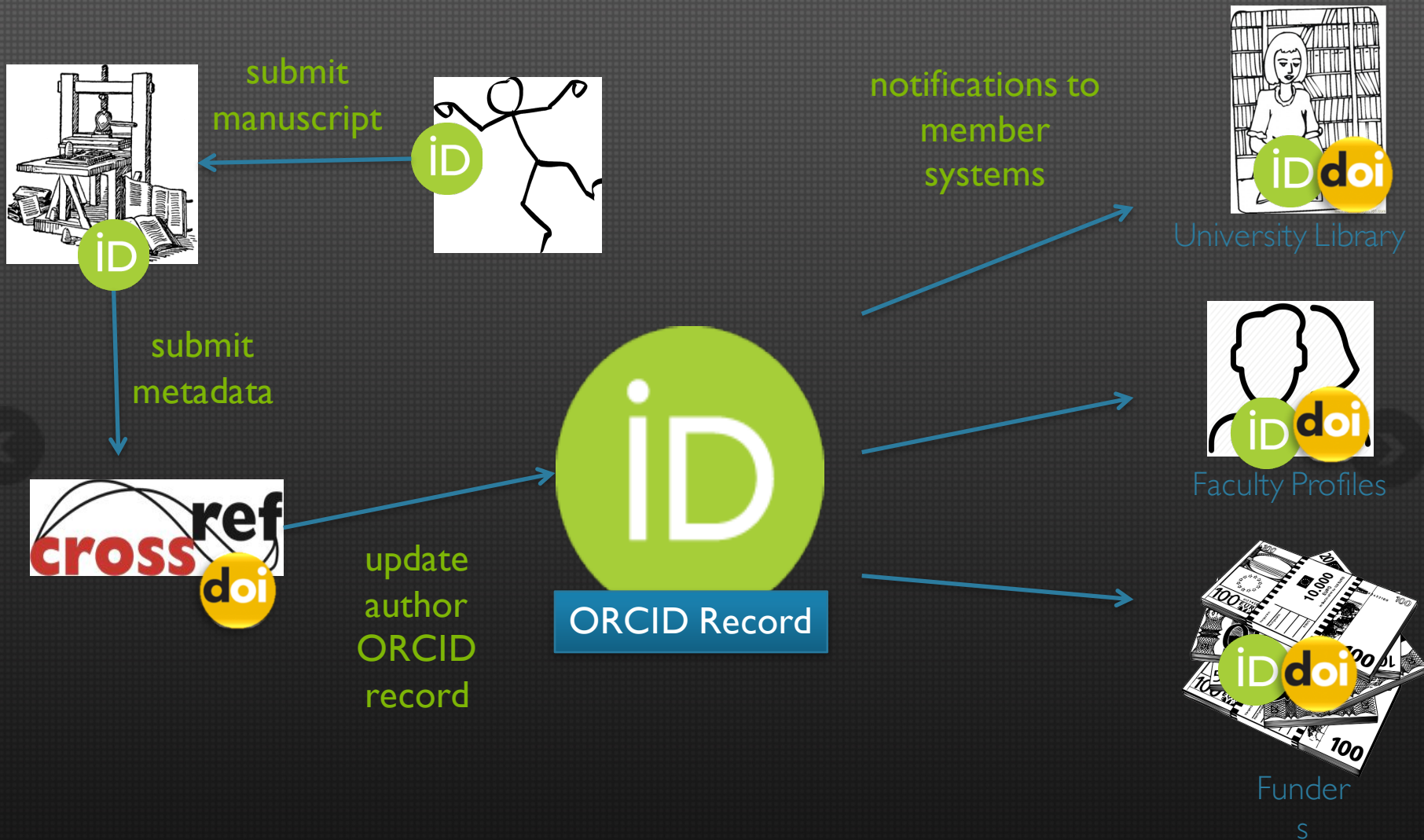
DataCite's auto-update steps

Researchers: (1) use ORCID iD when submitting a dataset, and (2) authorize DataCite via profiles to update your ORCID record.

Data centers: (1) collect ORCID identifiers during the submission (2) embed the iD in the published work and include the iD when submitting to DataCite.

DataCite: Upon receipt of data from a data center with a valid identifier, DataCite will automatically push that information to the researcher's ORCID record.





There are now 5m [@webofscience](#)
records with associated
[@ORCID_Org](#) iDs! [#ORCID15](#)

[DEMO VIDEO](#)

11:08pm · 3 Nov 2015 · Twitter for iPhone

And [@ElsevierConnect](#) have c3m
records with links to [@ORCID_Org](#)!
[#ORCID15](#)

[DEMO VIDEO](#)

11:13pm · 3 Nov 2015 · Twitter for iPhone

ImpactStory from your ORCID ID!



Did you hear? [ORCID](#) is now live!



ORCID is an international, interdisciplinary, open, nonprofit initiative to address **author name disambiguation**. Anyone can register for an ORCID ID, then associate their publications with their record using CrossRef and Scopus importers. This community system of researcher IDs promises to streamline funding and scholarly communication.

ImpactStory is an enthusiastic [ORCID Launch Partner](#). Once your publications are associated with an ORCID record, **it is very easy to pull them into an ImpactStory report**:

- Just enter your [ORCID ID](#) (for example, *0000-0001-5109-3700* for [Laurel Haak's ORCID record](#)) at the top of the ImpactStory [create collection page](#). We'll import the public [publication Works](#) associated with your ORCID record.

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DEMONSTRATION



Laurel Haak 

 Connect your Twitter

ORCID

 2  5  2

- OVERVIEW**
- ACHIEVEMENTS
- MENTIONS
- PUBLICATIONS


ACHIEVEMENTS

[view all](#)



Global Reach 96

Your research has been discussed in 32 countries. That's high: only 3% of researchers have their work as widely discussed.

 Your tweeters come from Australia, Austria, Bosnia and Herzegovina and 29 more.




Open Sesame 96

You've published 58% of your research in gold open access venues. This level of openness is matched by only 3% of researchers.



Greatest Hit 96

Your most discussed publication has been mentioned online 191 times. Only 3% of researchers get this much attention on a publication.

 Your greatest hit online is *Race, Ethnicity, and NIH Research Awards*.








MENTIONS

[view all](#)



388 online mentions across 6 channels:  309  37  24  9  8  1

PUBLICATIONS

[view all](#)

 **Race, Ethnicity, and NIH Research Awards**
2011 *Science*
191      

 **Predicting highly cited papers: A Method for Early Detection of Candidate Breakthroughs**
2012 *Technological Forecasting and Social Change*
89   

 **Are Race, Ethnicity, and Medical School Affiliation Associated With NIH R01 Type Award Probability for Physician Investigators?**
2012 *Academic medicine*
28 

The ability to uniquely identify contributors is a deceptively simple concept which, if realised, could enable forms of real-time understanding of scientific research that up to now have been extremely costly (if not impossible).

--Jonathan Kram, Wellcome Trust