



Connecting Research
and Researchers

Research Information Management with Persistent Identifiers

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Laurel L. Haak, PhD
Executive Director, ORCID

L.Haak@orcid.org

<http://orcid.org/0000-0001-5109-3700>

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

There are many useful IDs



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



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

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 Det

AUTHORS:

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

ABSTRACT:

Raman spectroscopy is among the most widely employed method 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 varie (Surface Enanched Raman Spectroscopy). In this work, the enhanc by manipulation of the optical properties of metals with respect to t (bottom up technique), gold and silver nanoparticles were deposite silicon wafers by means of electron beam lithography (top down te extremely low concentration (10-B M) was absorbed on the resular spectra demonstrated the high efficiency of the substrates.

ADVISORS:

Di Fabrizio, Enzo (0000-0001-5886-4678) 

COMMITTEE MEMBER:

Alshareef, Husam N. (0000-0001-5029-2142)  ; Falqui, Andrea (0000-0002-1476-7742) 

KAUST DEPARTMENT:

Physical Sciences and Engineering (PSE) Division

**GIANLUCA
MELINO**

ORCID ID

 orcid.org/0000-0001-8060-651X

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

To benefit, researchers need only do 2 things



- ① Register for an iD
- ② Use it!

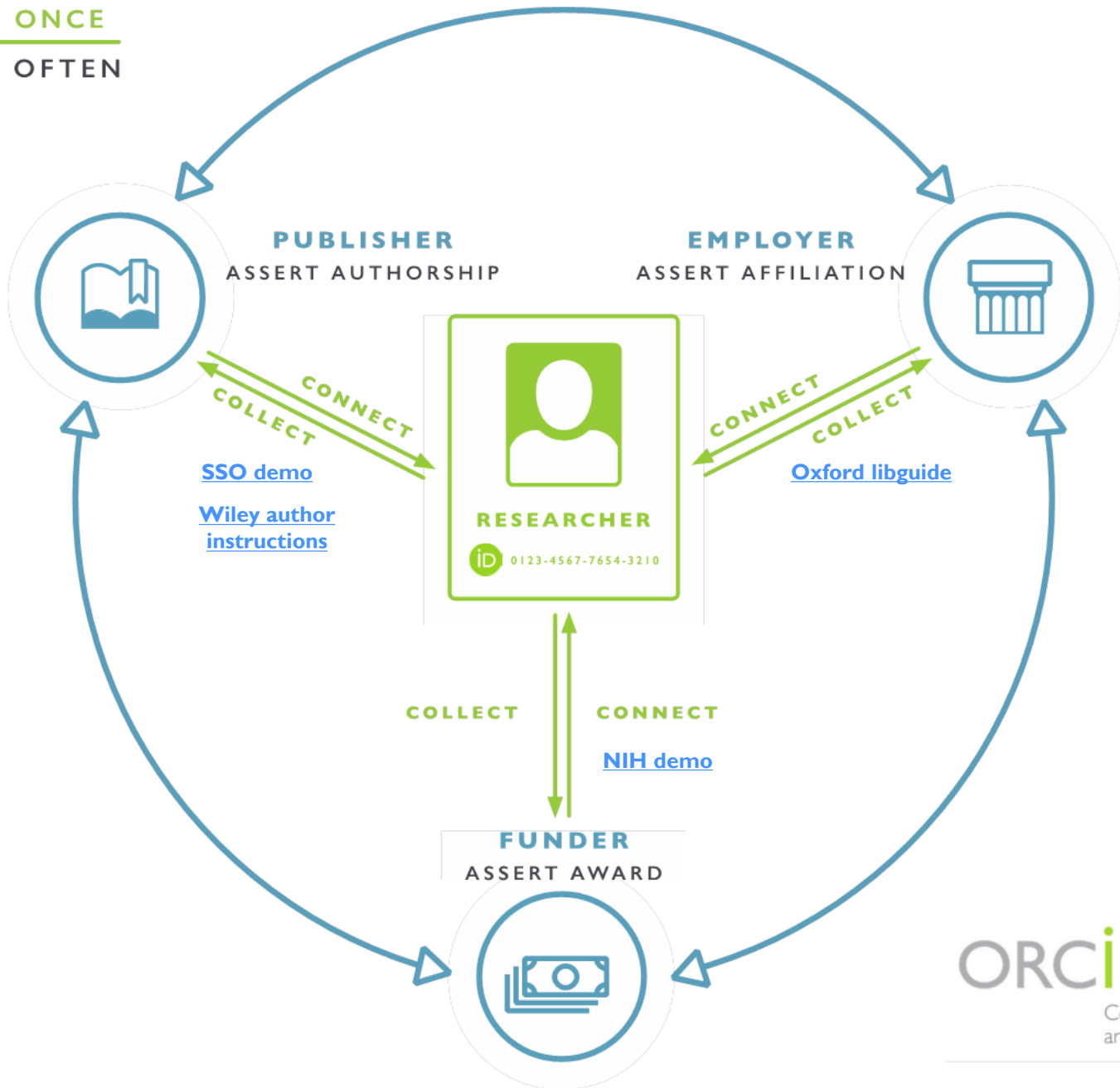
Over 2 million researchers have registered for an ORCID identifier.

ORCID iDs are associated with:

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

INTEROPERABILITY

ENTER ONCE
REUSE OFTEN



- Country-wide adoption in Denmark, UK, Italy, Australia, Finland, and more in 2016
- US consortia: CIC, GWLA, and NERL

*“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, (former) Assoc. Director, Bodleian Libraries, University of Oxford
<http://orcid.org/0000-0001-8673-6104>

NIH have incorporated ORCID iDs into [SciENcv](#), DOE are integrating ORCID iDs into e-Link, FDA use ORCID in their VIVO instance, and DOT requires ORCID for its researchers.

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>

From January you'll need an ORCID

7 December 2015 by [Phil Hurst](#)

Publishers and societies requiring ORCID iDs:
Science, EMBO, PLOS, Royal Society, ACS, eLIFE,
Hindawi, IEEE, AGU (and more)
See <http://orcid.org/content/requiring-orcid-publication-workflows-open-letter>

Announcing the use of Open Research 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

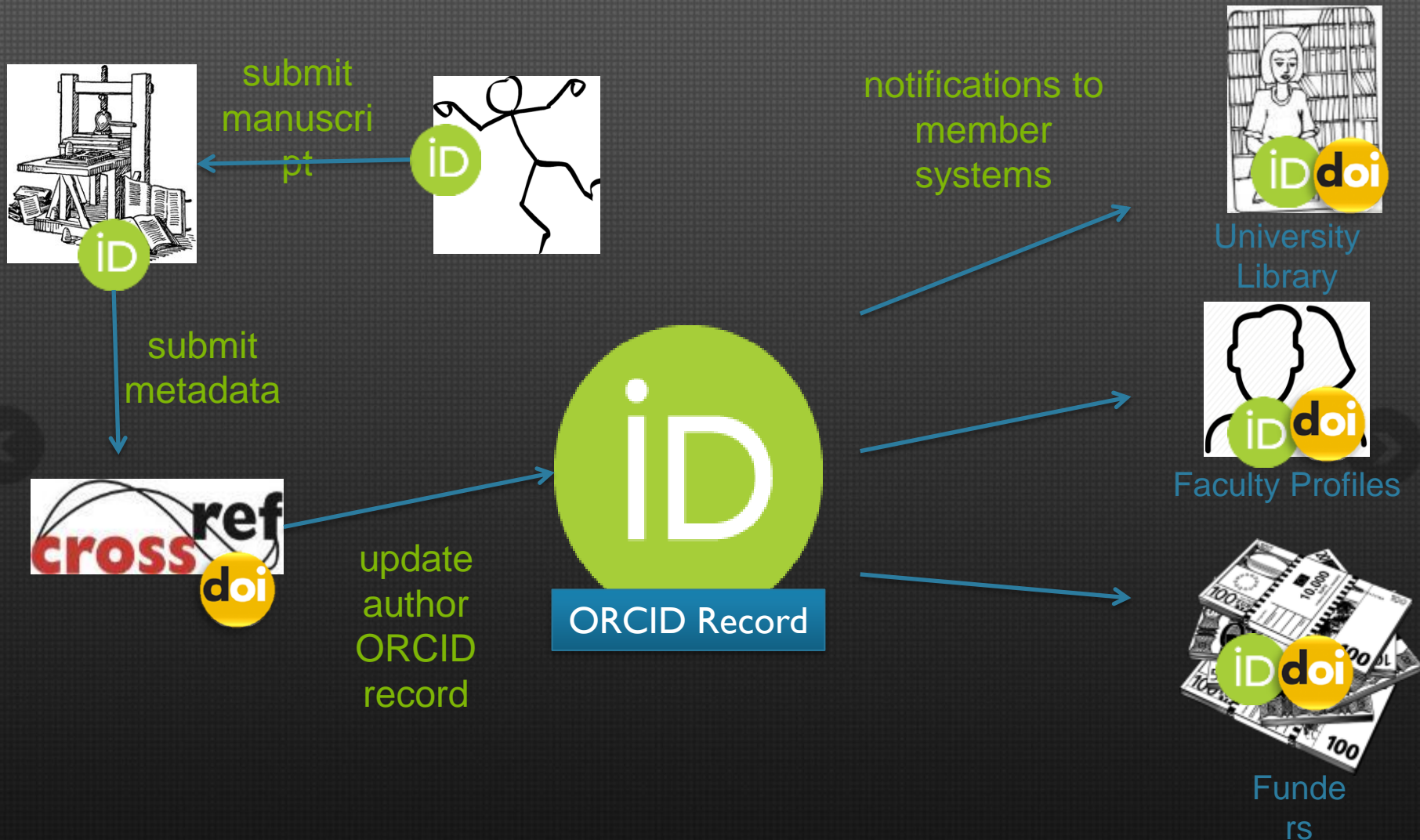
Researchers: (1) use ORCID iD when submitting a dataset, and (2) authorize DataCite via profiles to update your ORCID record.

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.



People and Things



MAKE THE MOST OF YOUR ORCID MEMBERSHIP!

ORCID Members are part of a global community that engages researchers in the creation and use of ORCID iDs, and the information related to these iDs. Members collaboratively compile and access individuals' scholarly data with the researchers themselves by incorporating the ORCID registry into their workflows via the ORCID web API. As a result, they streamline processes, increase support to their researchers, better understand research impact, and improve search/retrieval functions. Members also participate in a global effort to spread the word about ORCID benefits to help ensure that they are realized. Not a member yet? [Learn more about ORCID membership.](#)

Learn more about how you can take advantage of your ORCID membership:



<http://members.orcid.org>