Research Information Management with Persistent Identifiers

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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

[Logos of various ID systems]
ORCID provides persistent digital identifiers that distinguish researchers from each other.
Organizations are collaborating to ensure persistent identifiers for people, places, and things are connected in research workflows.
People, places, and things

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

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ABSTRACT: Raman spectroscopy is among the most widely employed methods in several fields of study. Evolution in materials science allowed us to develop a new method capable of enhancing the electromagnetic field of the signals coming from them. The use of these particular substrates (Surface Enhanced Raman Spectroscopy) in this work, the enhancement of the electromagnetic field of the signals coming from them, is a key aspect. The use of gold and silver nanoparticles deposited on silicon wafers by means of electron beam lithography (top down technique) was applied to this process. An extremely low concentration (10^-6 M) was absorbed on the substrates. The resulting spectra demonstrated the high efficiency of the substrates.

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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
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
Universities Implementing

- 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
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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

27 April 2016
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

From 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

submit manuscript

ID

submit metadata

ID

update author ORCID record

ORCID Record

notifications to member systems

University Library

Faculty Profiles

Funders

http://crosstech.crossref.org/2015/09/orcid-auto-update.html
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