ORCID

Connecting Research and Researchers

ORCID: Technical Introduction for CINECA

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ORCID
Connecting Research and Researchers

Today's Presentation

- ORCID Registry – User Perspective
- ORCID API Overview
- Example API Applications
- Support/Getting Started Resources

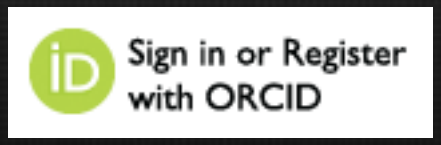
ORCID
Connecting Research and Researchers

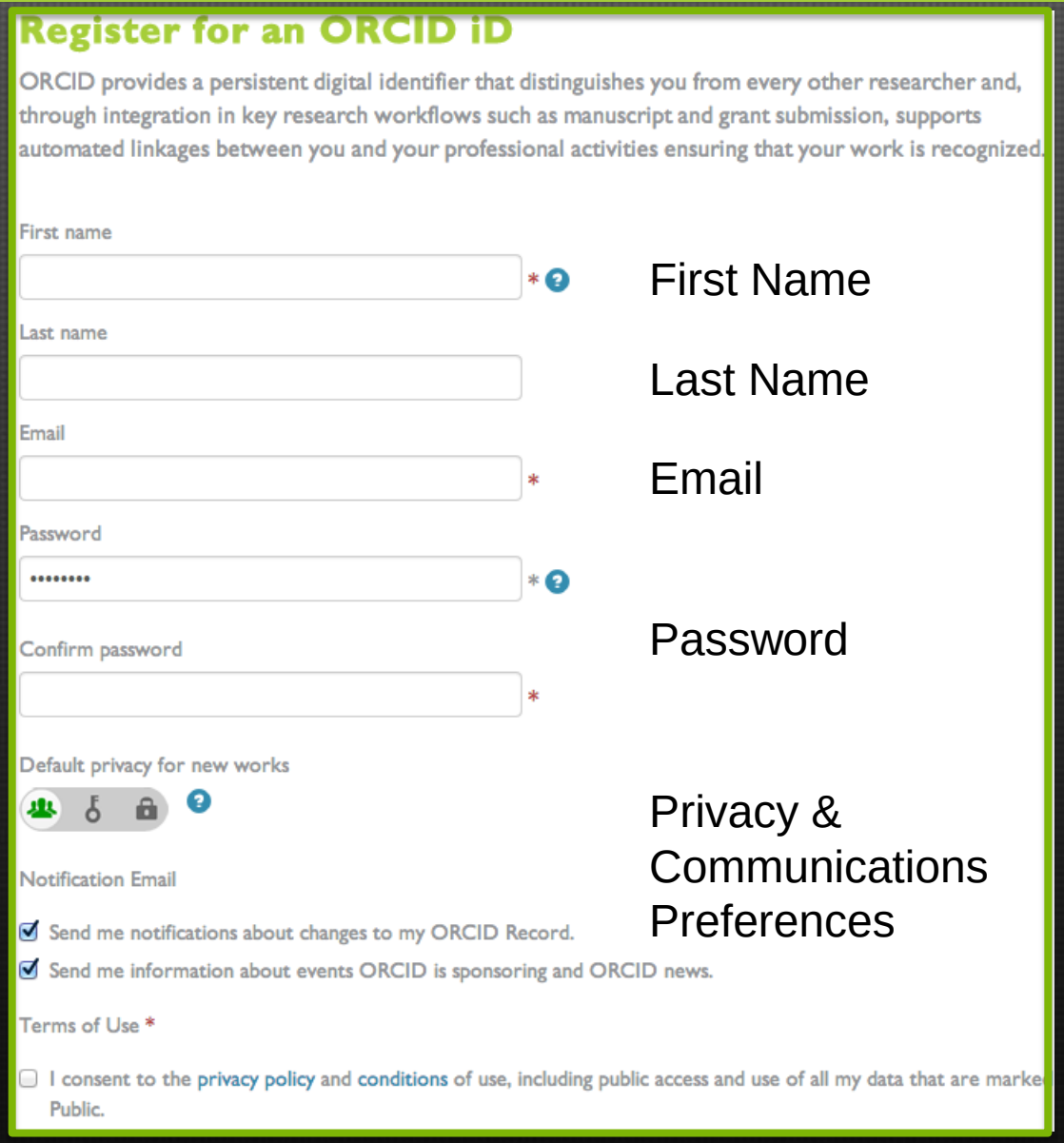
Getting Started

Register

Via the ORCID Website
https://orcid.org/register

Or as part of an integration from another site





Getting Started

Welcome to the ORCID Registry!

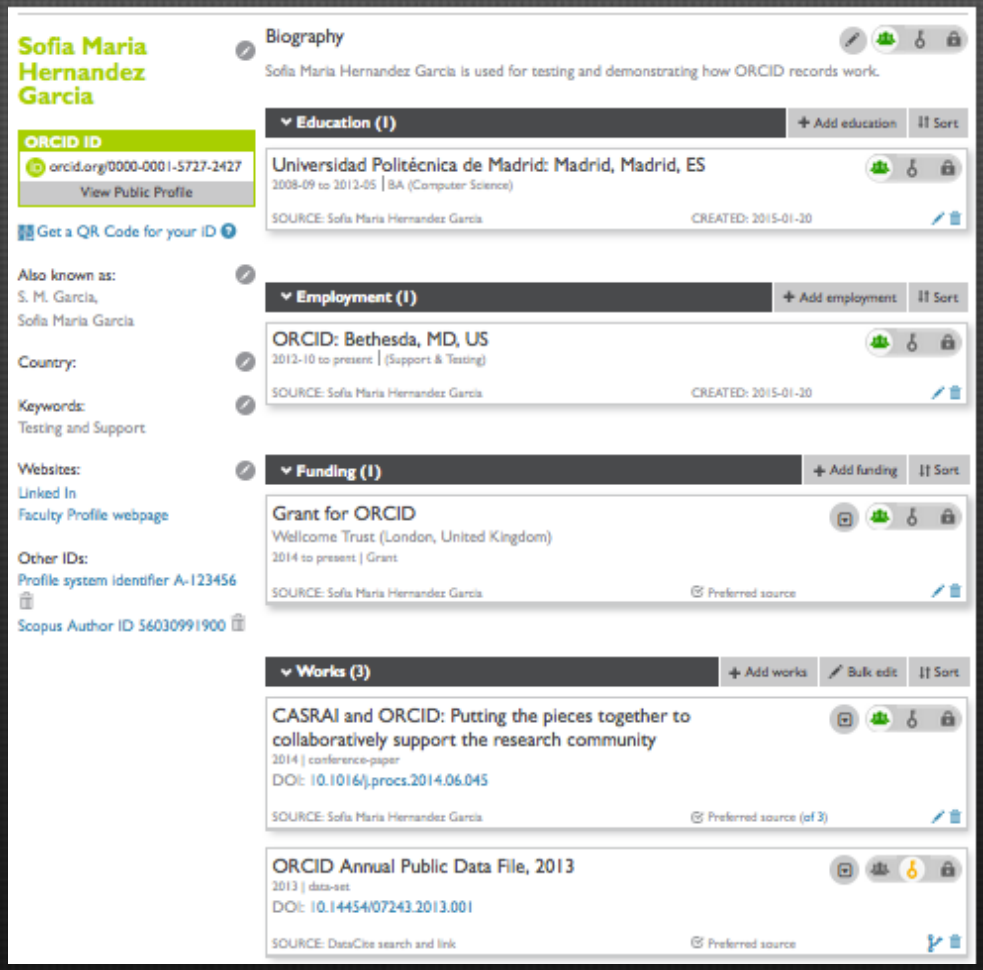
- Verify your email address
- Here's your ORCID iD:

- Unique and persistent identifier
- 16-digit number
- Expressed as HTTP URI
- Compatible with ISO standard

Image credit: RaHuL Rodriguez, ccBY-SA 2.0, Oct 5, 2012
http://www.flickr.com/photos/92963434@N03/9162677329

The ORCID Record

Biographical data →



← Education data

← Employment data

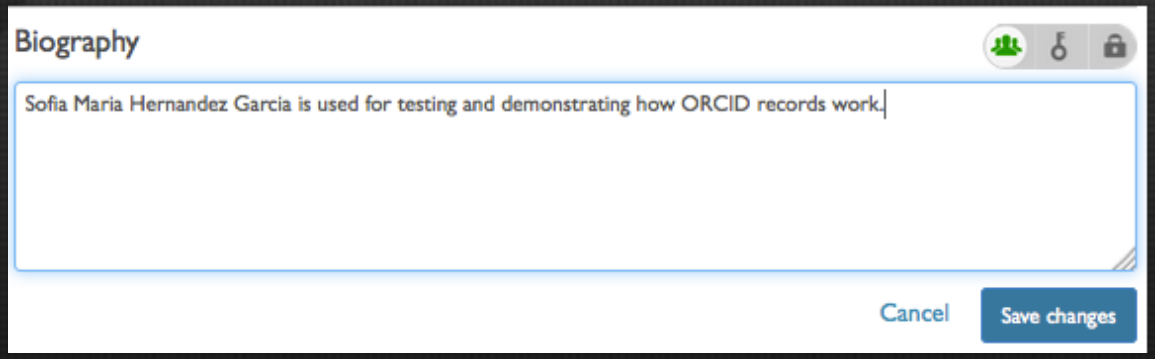
← Funding data

← Works data

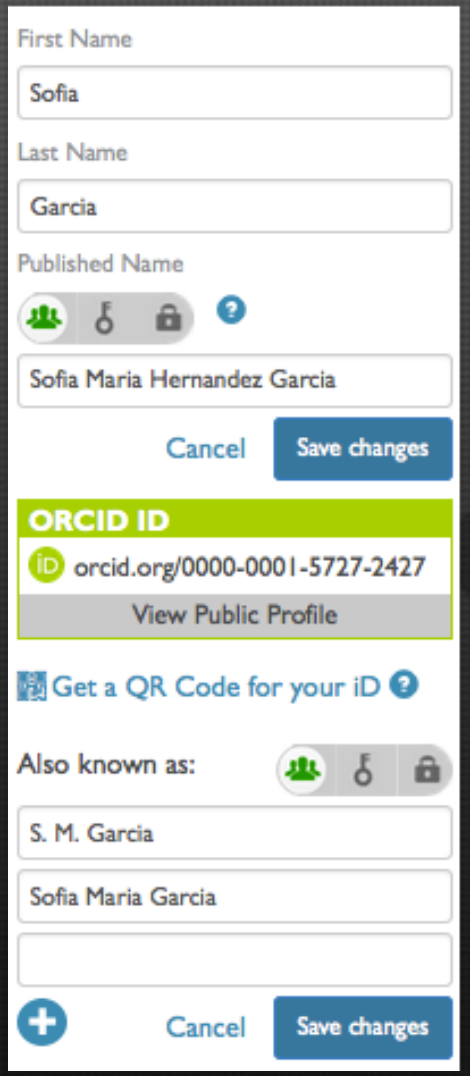
The ORCID Record

Biographical data

Add a Description



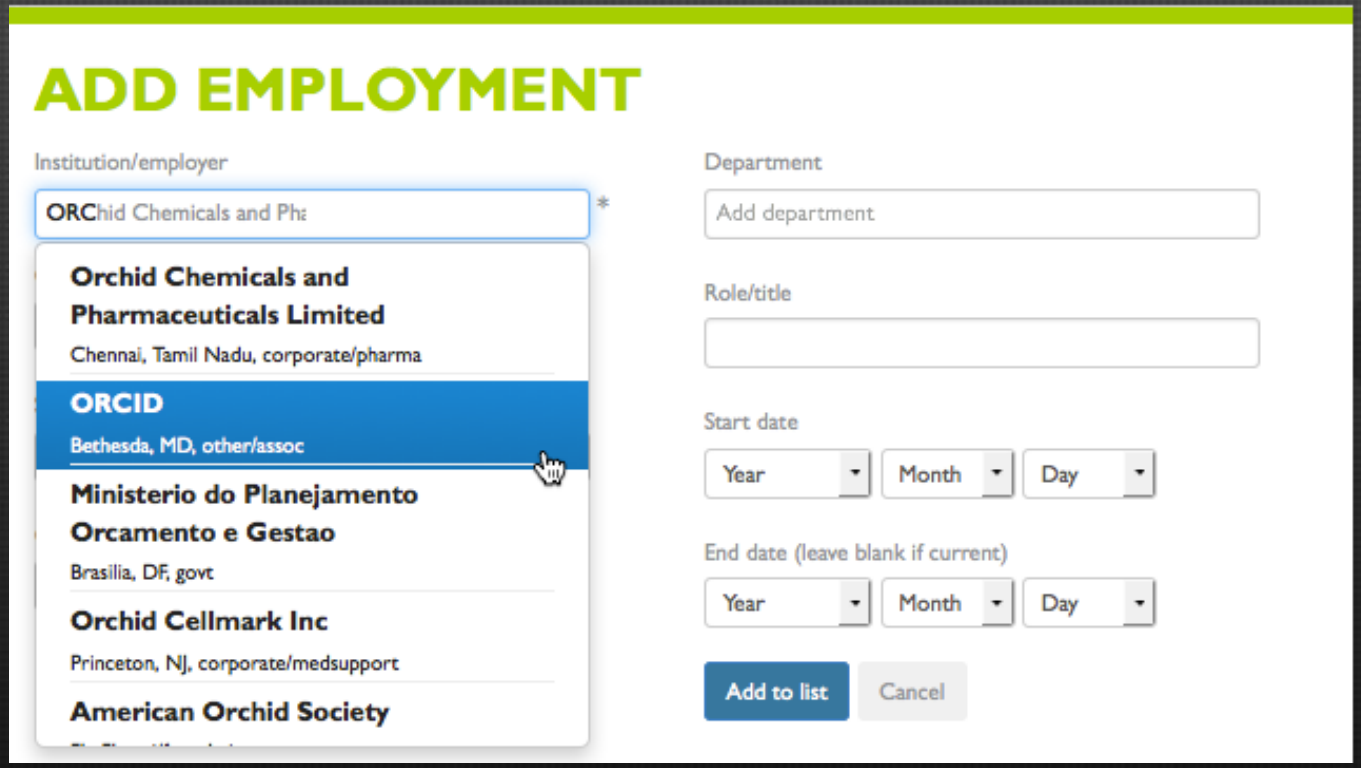
Include Multiple Names



The ORCID Record

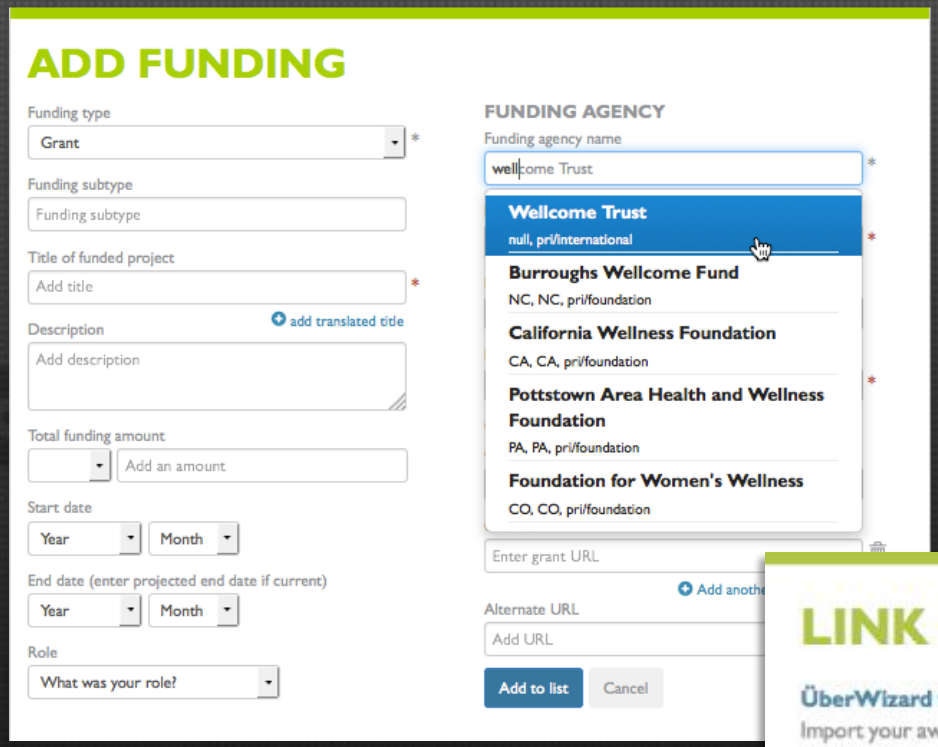
Education & Employment data

Organization list from ➔ Ringgold *(an ISNI Registrar)*



The ORCID Record

Funding Data

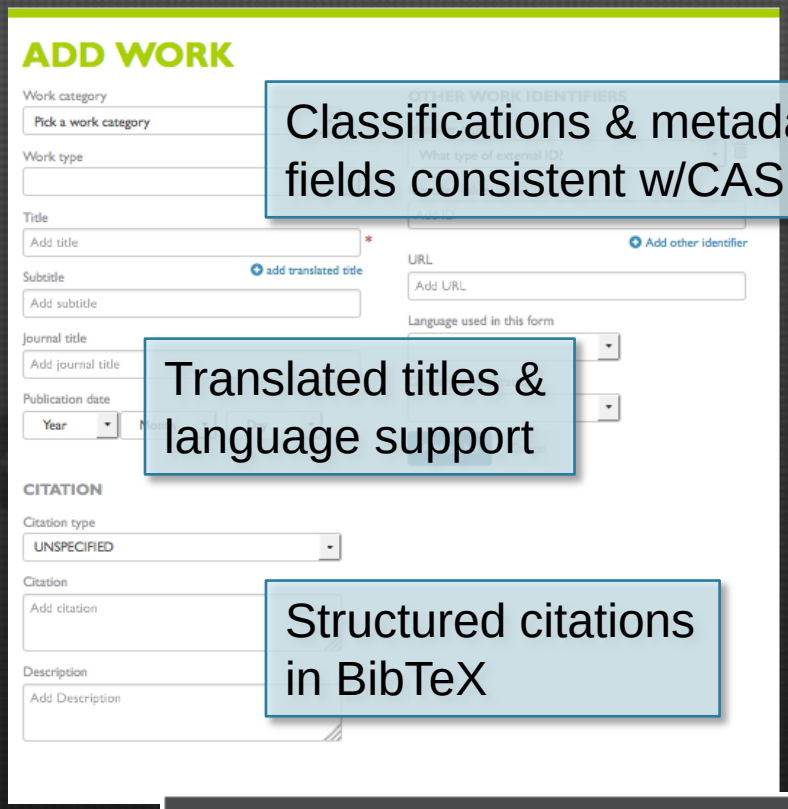


Funding agency list consistent with FundRef

Search & link Wizards

The ORCID Record

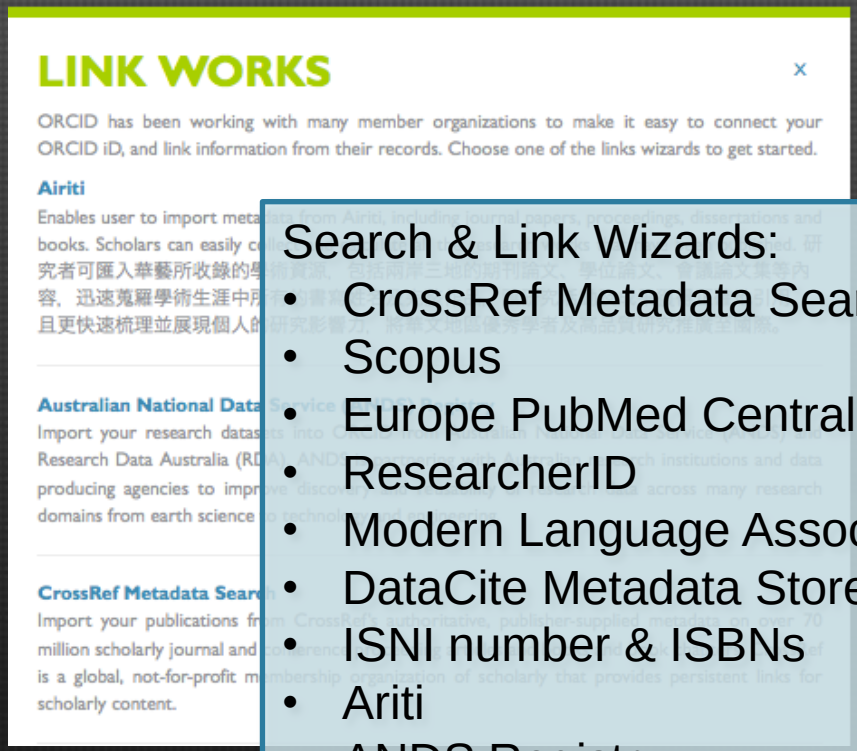
Works Data



Classifications & metadata fields consistent w/CASRAI

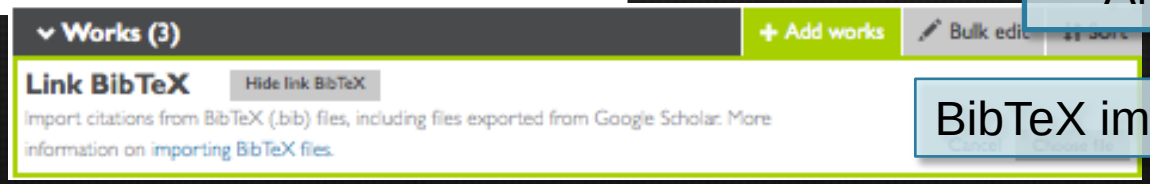
Translated titles & language support

Structured citations in BibTeX



Search & Link Wizards:

- CrossRef Metadata Search
- Scopus
- Europe PubMed Central
- ResearcherID
- Modern Language Associatio
- DataCite Metadata Store
- ISNI number & ISBNs
- Ariti
- ANDS Registry

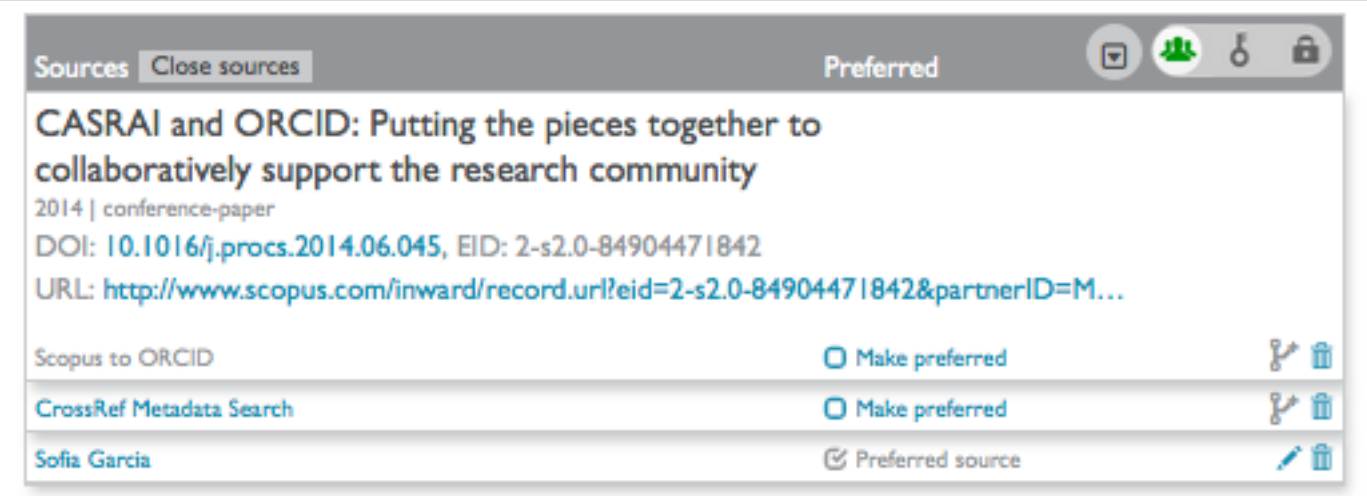


BibTeX import

The ORCID Record

Works Data

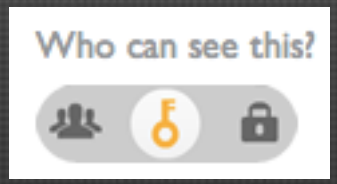
When the same work is added by multiple sources, the different versions are grouped together based on work identifier



Source information is captured for all items added to the record

User privacy

Information in an ORCID Record has a privacy setting, which can be set by the account owner.



Accessible by :

PUBLIC

Anyone

LIMITED

Account Owner, Trusted Organization(s)

PRIVATE

Account Owner

Account information (settings, permissions) is accessible by the account owner

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ORCID API Basics

Technologies:

REST interact w/API via HTTP calls

OAuth “3-legged” authorization process

XML/JSON data exchange

ORCID API Basics

Accessing the API:

1. Client Credentials
Client ID/Client Secret (ORCID provides)

2. Software tools capable of making/receiving HTTP calls cURL, custom applications PHP, Python, Ruby, Java, etc

OR

2. IRIS
(provided by CINECA)

The ORCID API

User: Follow a link to connect your system to their ORCID record (on the ORCID site, your website, or in an email message)

System: Send the user to the authorize URL

https://orcid.org/oauth/authorize?

client_id=0000-0003-2996-8827&

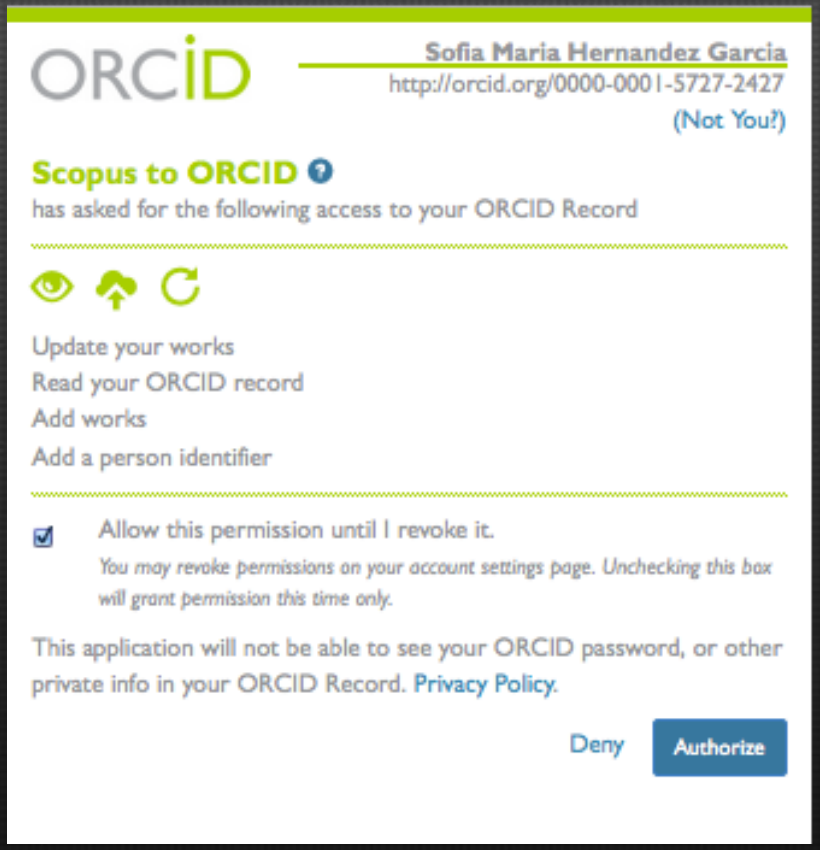
response_type=code&

scope=/orcid-profile/read-limited&

redirect_uri=https://yoursite.org

The ORCID API

User: Authorizes the connection



The ORCID API

User: Directed to a page on your site that you choose (redirect URI)

System: Captures an authorization code appended to the redirect URI

The ORCID API

User: no action

System: Exchange the authorization code for an access token

```
curl -i -L -H 'Accept: application/json' --data 'client_id=0000-0002-9189-9909&client_secret=719b5c31-5681-4dce-a317-ff1bc1e94277&grant_type=authorization_code&code=GU0yrC&redirect_uri=https://developers.google.com/oauthplayground' 'https://api.qa.orcid.org/oauth/token' -k

HTTP/1.1 200 OK

{"access_token":"0a3ac65f-f8a7-4257-b605-aff0ab37d464",
"token_type":"bearer",
"refresh_token":"16d75d2d-bb75-4087-8a01-685e5f03faf8",
"expires_in":631138518,
"scope":"/orcid-profile/read-limited",
"orcid":"0000-0003-4153-0078”}
```

The ORCID API

User: no action

System: Use the access token to read from/write to the user's ORCID record

```
HTTP/1.1 200 OK

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<orcid-message xmlns="http://www.orcid.org/ns/orcid">
   <message-version>1.2_rc3</message-version>
   <orcid-profile type="user">
      <orcid-identifier>
         <uri>http://qa.orcid.org/0000-0003-4153-0078</uri>
         <path>0000-0003-4153-0078</path>
         <host>qa.orcid.org</host>
      </orcid-identifier>
      …
```

Italian ORCID Consortium

A national agreement was signed by Cineca with ORCID to provide Membership Premium API to Higher Education and Research organizations

- Any HE institution based in Italy and not-for-profit research Institutions can join the consortium for free in 2015. Fee quotes for the following years will be communicated by the end of the year depending on number of subscriptions and availability of external contributions
- IRIS users that want to benefit of ORCID in their system have to subscribe a dedicated module IRIS OI. Membership fees for IRIS OI users will not be charged
- Non-IRIS users can subscribe the Cineca ORCID Hub (HOI) service to benefit of additional functionalities & services. Membership fees for HOI users will not be charged

Italian ORCID Hub (HOI)

It is an additional service provided by Cineca

- It provides REST webservices to integrate the claim/association process between all the applications connected with the Hub including “Sito docente – loginMIUR”. This webservice replaces the OAuth process in standard ORCID integration
- It provides immediate services to benefit of the premium ORCID API as the download of an xls report with Tax Number, ORCID ID & grant access token for all your researcher
- Download and update of information in ORCID for your researchers using xls files will be available by the end of the current year

Cineca IRIS OI

The additional module IRIS OI provides out-of-box integration with ORCID using the Membership Premium API

- Integrated claim and creation process of ORCID profiles with the Italian ORCID Hub
- [end 2015] Automatic synchronization of biography, publications and projects data from IRIS to ORCID
- [I Q. 2016] Pull information from ORCID in IRIS

Resources

Steps to build an integration

1. Get credentials for the ORCID Sandbox sandbox.orcid.org
2. Set up an integration on the sandbox
3. Work with ORCID staff to test your sandbox integration
4. Launch your integration in the live ORCID Registry

Resources

Search

Search for researchers by name, organization, DOI or other

http://members.orcid.org/api/tutorial-searching-api-12-and-earlier

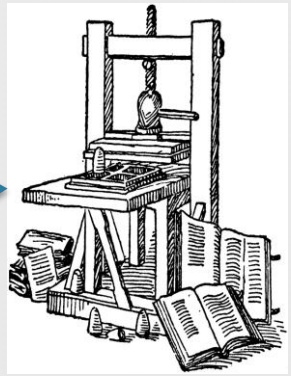
Webhooks

Register to get a notification anytime a record you are watching is updated

http://members.orcid.org/api/tutorial-webhooks

Coming Soon: CrossRef AutoUpdates

submit manuscript



publisher

ACCEPTED!

obtain DOI

document PID

data PID

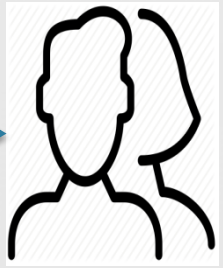
auto-update ORCID

ORCID Record

NEW INFO!

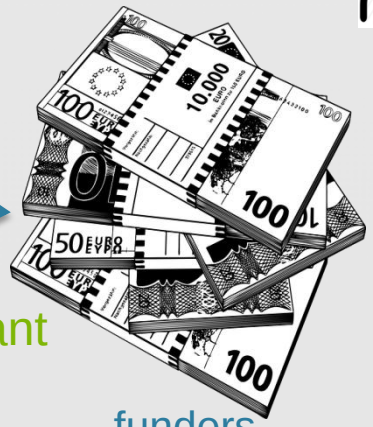
university libraries

notify preprint library



faculty profiles

update profiles

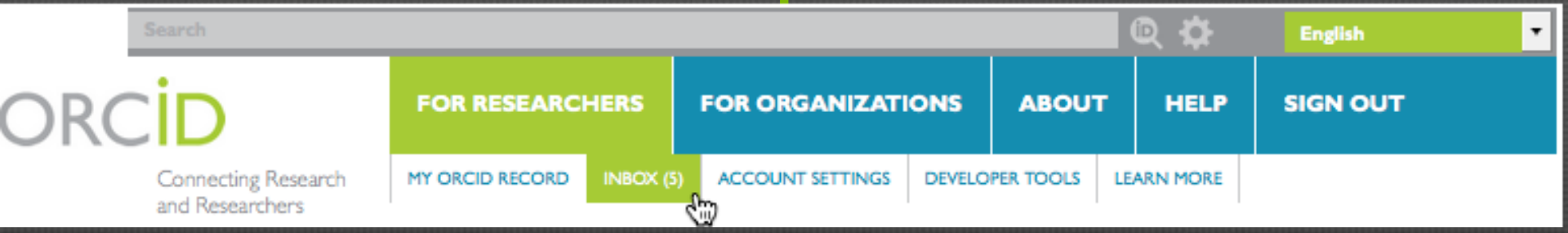


funders

inform grant outputs

orcid.org

Coming Soon: CrossRef AutoUpdates



From	Subject	Date	Show archived
CrossRef	Add your published work(s) to your ORCID record	2015-10-06	

Hi, we're Crossref. Our member publishers send us publication information (including ORCID iDs and DOIs), and we ensure that your work can be found, linked and cited. We would like to auto-update your ORCID record with information about these published work(s), starting today with those listed below, so you don't have to search for and add them manually, now or in the future. Please click 'Grant permissions' below to set this up.

Works (1)

The existence of k -gonal curves possessing exactly two linear systems g 1 k
http://dx.doi.org/10.1007/s002080050034

CrossRef would like your permission to interact with your ORCID Record as a trusted party?

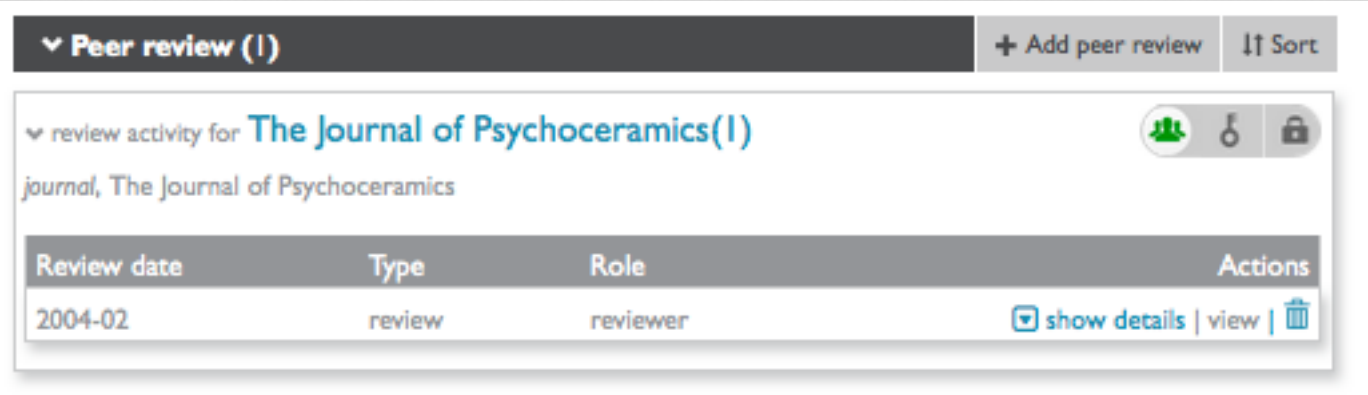
Archive without granting permissions | Grant permissions

About CrossRef

Establishes an author's claim when a work is deposited with CrossRef.

You have received this message because you have opted in to receive notifications from organizations that help maintain the information in your ORCID record. Learn more about how the process works.

Coming Soon: Peer Review



ORCID Connecting Research and Researchers

Resources

- Documentation & Examples
  http://members.orcid.org
- ORCID API Users Google Group
- Cineca Italian Support
  - Help Desk IRIS (https://customerportal.cineca.it) / Assistenza LoginMIUR (assistenzamiur@cineca.it) / orcid@cineca.it (for institutional and contractual inquires)
  - FAQ - https://wiki.u-gov.it/confluence/display/UGOVHELP/FAQ+ORCID
  - Video Tutorials - http://streaming.cineca.it/ORCID/