

— THE WEB OF SCIENCE AND ORCID

TED LAWLESS —
11/10/2016

Clarivate
Analytics

Formerly the IP & Science
business of Thomson Reuters

OVERVIEW

- ORCID integration with Web of Science
- Process
 - ORCID in*
- Using ORCID in Web of Science
- Web Services/API
 - *ORCID out*
- Beyond ORCID
 - Additional identifiers

WEB OF SCIENCE CONTENT

Web of Science Core Collection

- **Science Citation Index Expanded**
- Social Science Citation Index,
- Arts & Humanities Citation Index
- Conference Proceedings Citation Index
- Book Citation Index

- 13,500+ Journals, 12000+ annual conferences, 70,000+ books
- 60M+ records; 1B + cited references, back to 1900
- Index all articles in all issues
- 251 categories; cross discipline
- Platform includes other content: MEDLINE, Data Citation Index and more

NAME AMBIGUITY

Essays of an Information Scientist, Vol:1, p.77-78, 1962-73 Current Contents, #6, February 11, 1970
Reprinted from: Nature, 223(5207) p.763, 1969



“ “ “ “ “ “current comments”

**A Suggestion for Improving the
Information Content of Authors'
Names.**

February 11, 1970

In the compilation of a publication as large as the *Science Citation Index*® it is inevitable that one encounters problems of ambiguity in the names of authors. Since it is generally the custom of scientific journals to use initials rather than complete first and middle names when citing references, the possibility will occur that two different authors will appear to have the “same” name. In hopes of reducing the number of these ambiguous names, I recently wrote the following letter, which was published in *Nature*⁽¹⁾.

<http://www.garfield.library.upenn.edu/essays/V1p077y1962-73.pdf>

NAME AMBIGUITY

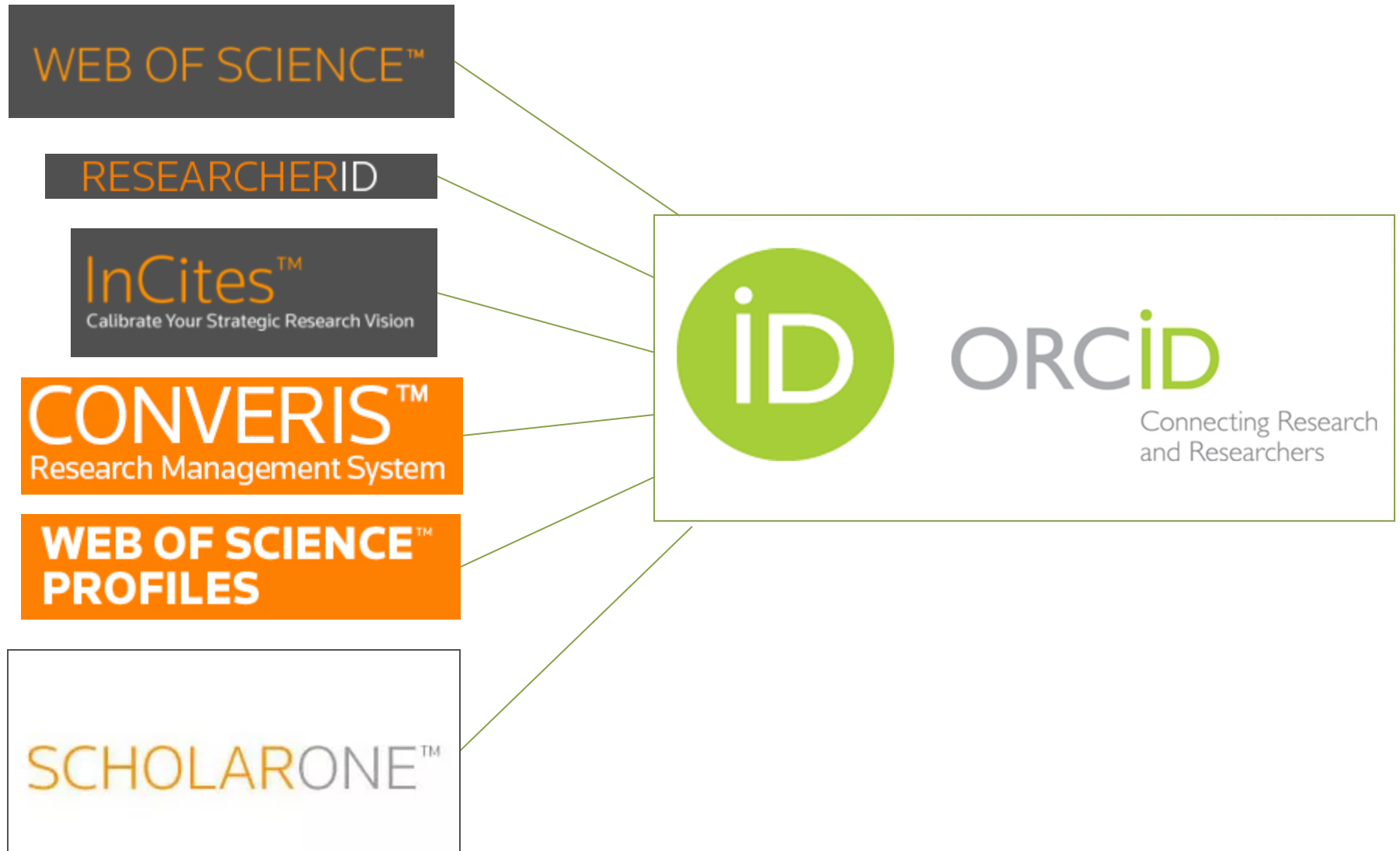
men would be well advised to follow the example of our British colleagues and adopt one or more middle initials (the letters I, O, Q, U, X, Y, Z would be the best choices). There would then be little opportunity for ambiguity. Will all the real J. Smiths please stand up!

<http://www.garfield.library.upenn.edu/essays/V1p077y1962-73.pdf>

OVERVIEW

- Clarivate Analytics are ORCID members
- Representative on ORCID board
- ResearcherID since 2008
- Author identification critical for:
 - Discovery
 - Impact tools
 - Integration with other systems

ORCID INTEGRATION ACROSS TOOLS



WEB OF SCIENCE

WEB OF SCIENCE™

Search Web of Science™ Core Collection

Basic Search

0000-0002-4436-4661

Author Identifiers

Search

+ Add Another Field | Reset Form

Search by ORCID from default search box

WEB OF SCIENCE

WEB OF SCIENCE™

Search Return to Search Results

Defects formation and wave emitting from defects in excitable media

By: Ma, J (Ma, Jun)^[1,2]; Xu, Y (Xu, Ying)^[2]; Tang, J (Tang, Jun)^[3]; Wang, CN (Wang, Chunni)^[2]

Hide ResearcherID and ORCID

Author	ResearcherID	ORCID Number
Ma, Jun	G-2376-2010	http://orcid.org/0000-0002-6127-000X
Wang, Chunni	J-2666-2012	http://orcid.org/0000-0002-4688-7888
Tang, Jun	C-6958-2015	http://orcid.org/0000-0001-5942-9248

Access ORCID profiles directly from Web of Science.

Defects formation and wave emitting from defects in excitable media

Communications in Nonlinear Science and Numerical Simulation

2016 | journal-article

DOI: [10.1016/j.cnsns.2015.10.013](https://doi.org/10.1016/j.cnsns.2015.10.013)

WOSUID: WOS:000365992200006

URL: <http://gateway.webofknowledge.com/gateway/Gateway.cgi?GWVersion=2&SrcAuth...>

ORCID
Connecting Research and Researchers

Jun Ma

ORCID ID

[id orcid.org/0000-0002-6127-000X](http://orcid.org/0000-0002-6127-000X)

ORCID INTEGRATION WITH CLARIVATE ANALYTICS PRODUCTS

The screenshot shows the Web of Science search interface. A dropdown menu for 'All Databases' is open, listing various databases. Three callout boxes with arrows point to specific databases, indicating the number of records with ORCID identifiers: 'Web of Science™ Core Collection' (7.2m records), 'Data Citation Index™' (15K records), and 'MEDLINE®' (3.2m records). The interface also includes a search bar with the ID '0000-0002-6296-5137', a 'Basic Search' dropdown, and a 'TIMESPAN' section with 'All years' selected. A search button and an 'Author Identifiers' dropdown are also visible.

Database	Records with ORCID
Web of Science™ Core Collection	7.2m records
Data Citation Index™	15K records
MEDLINE®	3.2m records

ORCID integration across the Web of Science platform.

WEB OF SCIENCE ORCID INTEGRATION

Web of Science Core Collection with ORCID Analysis

7.2m records have ORCID's

Top 5 Countries (# Records) (Web of Science Core Collection)	
USA	1,808,497
Italy	748,221
England	747,695
Spain	654,775
Germany	614,348

Top 5 Document Types (# Records) (Web of Science Core Collection)	
Article	5,778,323
Proceedings Paper	884,693
Meeting Abstract	286,747
Review	279,179
Editorial Material	141,232

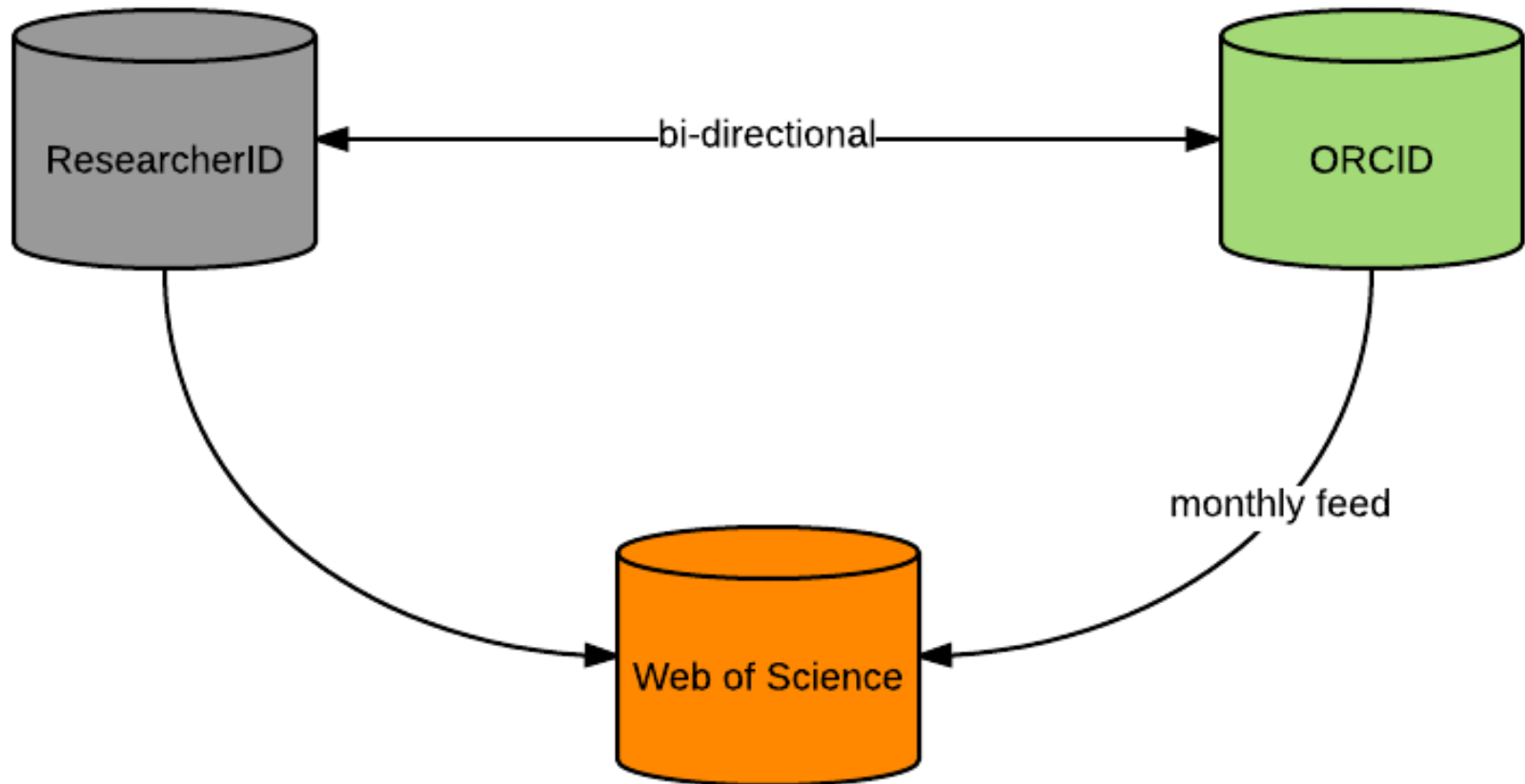
Top 5 Languages (# Records) (Web of Science Core Collection)	
English	7,084,187
Russian	28,154
Spanish	24,000
Portuguese	15,437
German	14,462

Top 5 Organizations (# Records) (Web of Science Core Collection)	
CNRS (France)	212,360
Univ California System	208,705
Univ of London	154,359
CSIC (Spain)	132,029
Russian Academy of Sciences	118,655

Top 5 Publication Year (# Records) (Web of Science Core Collection)	
2013	547,183
2014	530,563
2012	523,125
2011	484,062
2015	474,302

Top 5 Research Areas (# Records) (Web of Science Core Collection)	
Chemistry	925,855
Physics	916,115
Engineering	762,530
Materials Science	506,293
Biochemistry Molecular Bio	478,779

PROCESS



EXAMPLES

RESEARCHERID

Home Login Search Interactive Map EndNote >

Perlmutter, Saul [Get A Badge](#) [ResearcherID Labs](#)

ResearcherID: I-3505-2015
URL: <http://www.researcherid.com/rid/I-3505-2015>
ORCID: <http://orcid.org/0000-0002-4436-4661>

My Institutions ([more details](#))
Primary Institution: University of California, Berkeley, UC Berkeley
Sub-org/Dept:
Role: Faculty

140 publications claimed via
ResearcherID.

Web of Science returns these when
searching by linked ORCID.

ORCID
Connecting Research
and Researchers

FOR RESEARCHERS FOR ORGANIZATIONS ABOUT HELP SIGN IN

SIGN IN REGISTER FOR AN ORCID ID LEARN MORE

2,719,616 ORCID IDs and counting. See more...

Saul Perlmutter

ORCID ID
orcid.org/0000-0002-4436-4661

Other IDs
ResearcherID: I-3505-2015

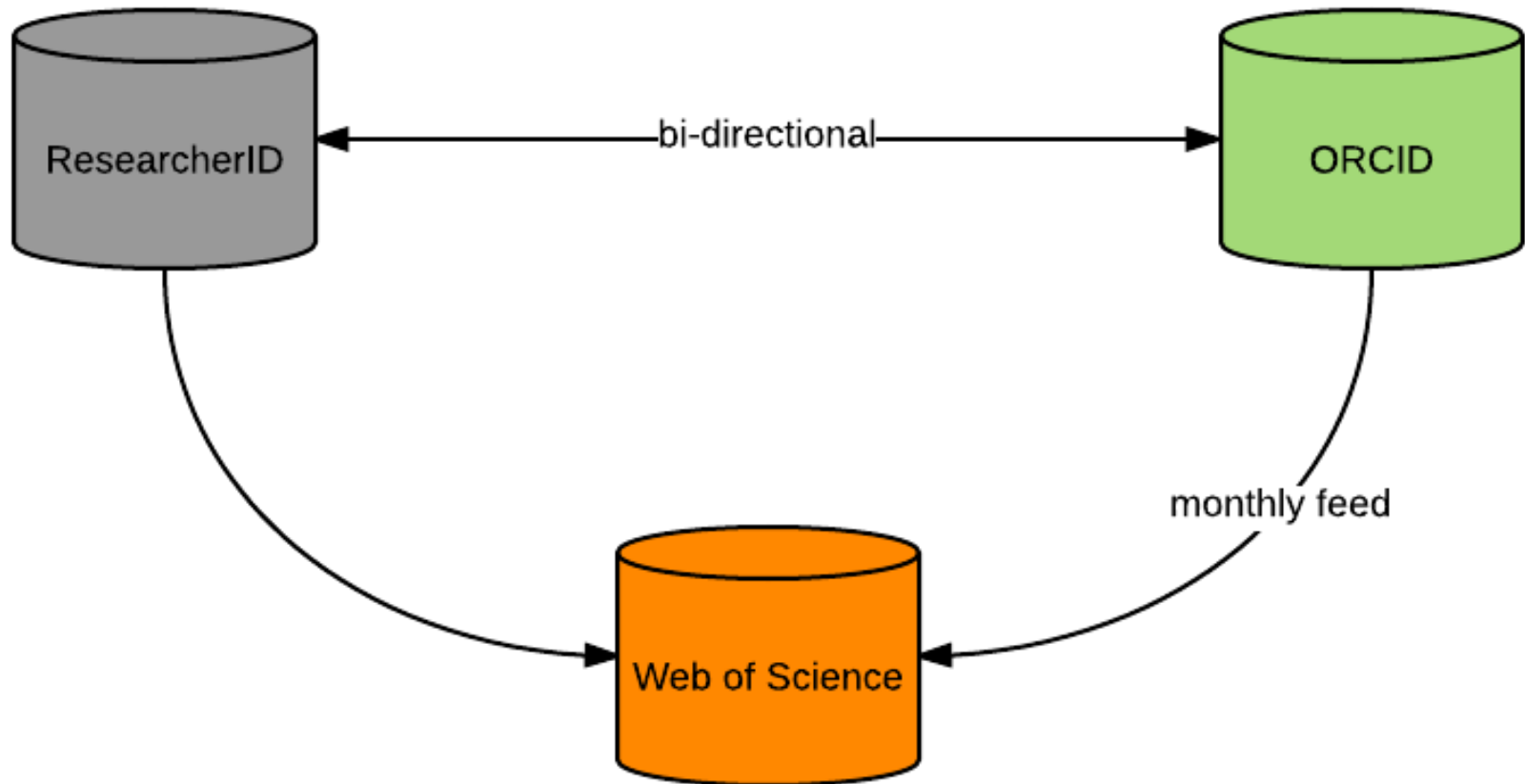
Employment (1) IT Sort

University of California Berkeley: Berkeley, CA, United States
Professor (Physics)
Source: Saul Perlmutter Created: 2014-09-30

No public claimed publications in ORCID.

Video: <https://www.youtube.com/watch?v=Hn7lxnCPZp8>

PROCESS



EXAMPLES

Nitrous oxide emissions during establishment of eight alternative cellulosic bioenergy cropping systems in the North Central United States

By: Oates, LG (Oates, Lawrence G.)^[1,2]; Duncan, DS (Duncan, David S.)^[1,2]; Gelfand, I (Gelfand, Ilya)^[3,4,5]; Millar, N (Millar, Neville)^[3,4,5]; Robertson, GP (Robertson, G. Philip)^[3,4,5]; Jackson, RD (Jackson, Randall D.)^[1,2]

[Hide ResearcherID and ORCID](#)

Author	ResearcherID	ORCID Number
Gelfand, Ilya		http://orcid.org/0000-0002-8576-0978
Oates, Lawrence		http://orcid.org/0000-0003-4829-7600
Duncan, David		http://orcid.org/0000-0002-2867-0378

GLOBAL CHANGE BIOLOGY BIOENERGY

Volume: 8 Issue: 3 Pages: 539-549

DOI: 10.1111/gcbb.12268

Published: MAY 2016

[View Journal Information](#)

No linked ResearcherID.
ORCID related directly via
feed.

ORCID

Connecting Research
and Researchers

FOR RESEARCHERS

FOR ORGANIZATIONS

ABOUT

HELP

SIGN IN

[SIGN IN](#)

[REGISTER FOR AN ORCID ID](#)

[LEARN MORE](#)

2,719,616 ORCID IDs and counting. [See more...](#)

Lawrence Oates

ORCID ID

orcid.org/0000-0003-4829-7600

> Education (3)

> Employment (1)

▼ Works (15)

↑↓ Sort

Bioenergy cropping systems that incorporate native grasses stimulate growth of plant-associated soil microbes in the absence of nitrogen fertilization

Agriculture, Ecosystems and Environment

2016-10-05 | journal-article

DOI: [10.1016/j.agee.2016.09.008](https://doi.org/10.1016/j.agee.2016.09.008)

URL: <http://www.sciencedirect.com/science/article/pii/S0167880916304595>

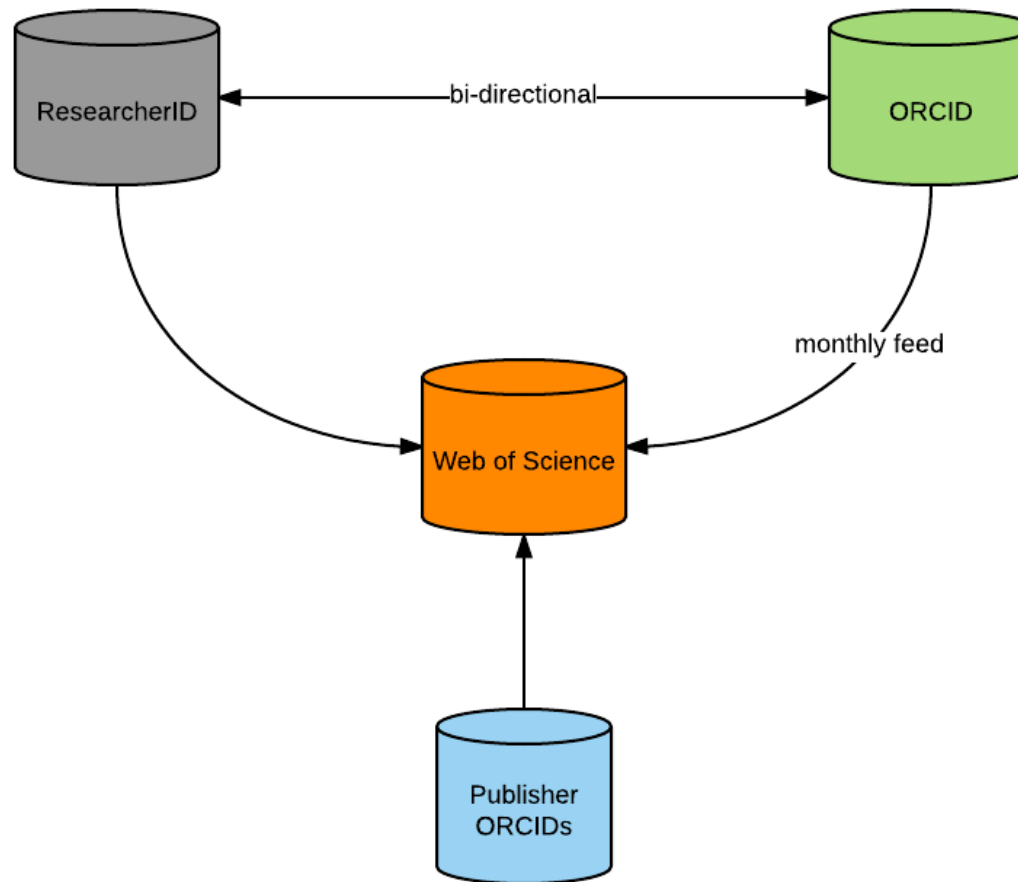
Source: Lawrence Oates

[Preferred source](#)

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FUTURE PROCESS



AUTHOR DISAMBIGUATION

- Key challenge
- Recent investments to enhance author disambiguation in the Web of Science
- ORCID becomes a critical input into process
- More ORCIDs created, more publications added, better data in the Web of Science.

WEB OF SCIENCE AUTHOR SEARCH



Records grouped together are likely written by the same person. ([Tell me more.](#))
 If your papers appear in multiple article groups use the I wrote these publications button to add them to your publication list in ResearcherID and have them grouped together.

	Author Names	Last Known Organization	Research Areas	Publication Years
1.	SMITH JC Also published as: SMITH JAMES C SMITH J C SMITH J SMITH JIM SMITH JN SMITH JIM C SMITH JAMES N	Francis Crick Inst	DEVELOPMENTAL BIOLOGY (118) BIOCHEMISTRY MOLECULAR BIOLOGY (36) CELL BIOLOGY (34) SCIENCE TECHNOLOGY OTHER TOPICS (17) ANATOMY MORPHOLOGY (15)	1978 - 2015
Records: 192 + A Sampling of Publications by this Author:				
2.	SMITH JA Also published as: SMITH JULIAN A SMITH J SMITH JULIAN SMITH J A	Monash Hlth	SURGERY (91) CARDIOVASCULAR SYSTEM CARDIOLOGY (89) RESPIRATORY SYSTEM (54) ENGINEERING (20) COMPUTER SCIENCE (16)	1985 - 2016
Records: 187 + A Sampling of Publications by this Author:				
3.	SMITH JR Also published as: SMITH J R	California State University Fullerton California State University System	PHYSICS (135) ASTRONOMY ASTROPHYSICS (133) INSTRUMENTS INSTRUMENTATION (5) OPTICS (2) NUCLEAR SCIENCE TECHNOLOGY (2)	2001 - 2016
Records: 157 + A Sampling of Publications by this Author:				
4.	SMITH JS Also published as: SMITH JUSTIN S SMITH JUSTIN SMITH J SMITH J S	University of Virginia	NEUROSCIENCES NEUROLOGY (129) SURGERY (74) ORTHOPEDICS (62) PEDIATRICS (1) ANESTHESIOLOGY (1)	2008 - 2016

AUTHOR DISAMBIGUATION

Distinct Author Identification System (previous)

This screenshot shows the 'Distinct Author Identification System (previous)' interface. It features a search bar at the top and a main content area for a document titled 'Bulk metallic glasses'. The interface includes several sections: 'Author & Co-Authors' (listing authors like Wang, WH, Dong, C, Shek, CH), 'Citation Network' (showing 1,248 times cited and 182 cited references), 'Researcher ID' (providing the ORCID number J-3887-2015), 'Keywords' (listing terms like 'bulk metallic glass', 'glass-forming ability'), 'Author Information' (including reprint address and email), 'Publisher' (Elsevier Science SA), and 'Categories / Classification' (Materials Science, Physics). Callouts in red boxes highlight these sections with labels: 'Author & Co-Authors', 'Citing Authors', 'Cited Authors', 'Researcher ID', 'Date Published', 'Journal', 'Keywords', 'E-mail', and 'Categories'.

Distinct Author Identification System (current)

This screenshot shows the 'Distinct Author Identification System (current)' interface, which is more detailed than the previous version. It includes the same core sections as the previous interface but adds 'All Times Cited Counts' (1,350 in All Databases, 1,248 in Web of Science Core Collection, etc.) and 'Most Recent Citation' (by Liu, L. H. in NOV 2015). The 'Keywords' section is more comprehensive, listing 'Keywords Plus' such as 'SOFT-MAGNETIC PROPERTIES; SUPERCOOLED LIQUID REGION; CRITICAL COOLING RATES; NI AMORPHOUS-ALLOYS; B-SI ALLOYS; HIGH-PRESSURE; THERMAL-STABILITY; ELASTIC-CONSTANTS; FORMING ABILITY; ZR-TI'. The 'Addresses' section lists four institutions. Callouts in red boxes highlight these sections with labels: 'Author & Co-Authors Full names from other collections', 'Citing - Authors - Journals - Keywords - Language - Categories', 'Cited - Authors - Journals - Keywords - Language - Categories', 'ORCID', 'Researcher ID', 'Date Published', 'Journal', 'Keywords', 'Addresses - Institution - City - Country', 'E-mail', and 'Categories'.

Beginning in 2016, ORCID's have been a source for automated author name disambiguation in the Web of Science.

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DATA OUT

- ORCID is searchable via APIs
 - e.g: “AI=0000-0001-5457-311X”
 - Quickly identify publication history
 - Find groups of papers
- ORCID is included in full XML exports from expanded API and raw XML
- Partnerships with 3rd party systems to leverage this in CRIS/ RIM systems

DATA OUT

```
<keywords_plus count="10">
  <keyword>POLYMERASE-CHAIN-REACTION</keyword>
  <keyword>GENE-EXPRESSION</keyword>
  <keyword>HEPG2 CELLS</keyword>
  <keyword>METABOLISM</keyword>
  <keyword>EXPOSURE</keyword>
  <keyword>DISEASE</keyword>
  <keyword>PCR</keyword>
  <keyword>TRANSPORT</keyword>
  <keyword>TOXICITY</keyword>
  <keyword>REVEALS</keyword>
</keywords_plus>
</item>
<contributors count="1">
  <contributor>
    <name orcid_id="0000-0001-5457-311X" r_id="C-9612-2013" role="
researcher_id" seq_no="1">
      <display_name>Burkhead, Jason</display_name>
      <full_name>Burkhead, Jason</full_name>
      <first_name>Jason</first_name>
      <last_name>Burkhead</last_name>
    </name>
  </contributor>
</contributors>
```

OTHER IDENTIFIERS - CURRENT

People	ORCID, Researcher ID
Publications	UT (Web of Science), DOI, PMID
Publication venues	ISSN, ISBN
Grant numbers	Various – NIH, NSF, etc.

OTHER IDENTIFIERS

Organizations	Internal authority file/registry of 7,000+ organizations across sectors
Funders	Similar to above
Concepts	Web of Science classifications

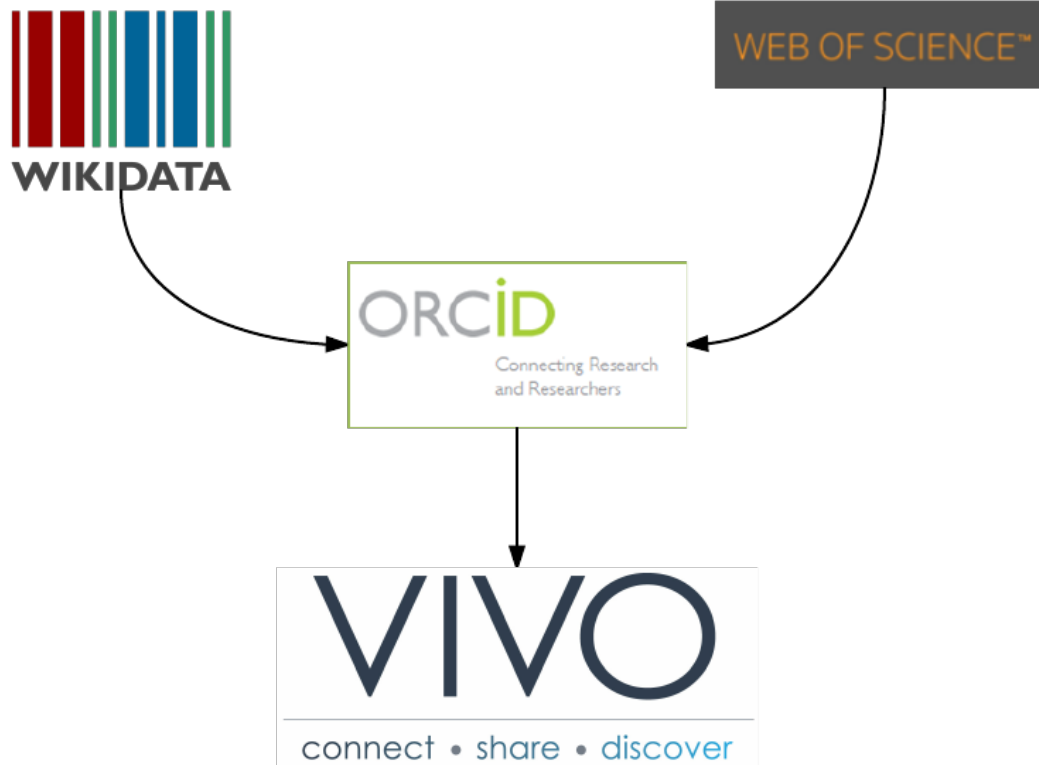
ORGANIZATIONS ENHANCED

Organization Name:	<input type="button" value="Add"/>	UNIVERSITY OF CALIFORNIA BERKELEY
Other Names:		UNIVERSITY OF CALIFORNIA-BERKELEY; UNIV CALIF BERKELEY
Address:		BERKELEY, CALIFORNIA, UNITED STATES ,94720
Website:		www.berkeley.edu
Relationships:		UNIVERSITY OF CALIFORNIA SYSTEM
Name Variants:	<input type="button" value="Add"/>	101 DONNER UNIV CALIF BERKELEY
	<input type="button" value="Add"/>	1770 UNIV CALIF BERKELEY
	<input type="button" value="Add"/>	BERKELEY SCH LAW
	<input type="button" value="Add"/>	BERKELEY UNIV
	<input type="button" value="Add"/>	CALIF UNIV
	<input type="button" value="Add"/>	EMERITUS UNIV CALIF
	<input type="button" value="Add"/>	FAC UNIV CALIF BERKELEY


ORGANIZATIONAL IDENTIFIERS - LINKING

- Investigating a similar process to ORCID for organizations
- Reviewing ISNI and Wikidata
- Would like to hear from customers and other consumers as to what is valuable
 - Full integration
 - Mapping file
- Exploring automated methods for resolution


SAMPLE INTEGRATION



SAMPLE INTEGRATION

Garfield UniversityIndexSearch

[Home](#) | [People](#) | [Organizations](#) | [Research](#) | [Events](#) | [Capability Map](#)





Perlmutter, Saul | Researcher

Positions

- Senior Researcher, Clinical Research Division , Garfield University

Saul Perlmutter (born September 22, 1959) is an American astrophysicist at the Lawrence Berkeley National Laboratory and a professor of physics at the University of California, Berkeley. He is a member of the American Academy of Arts & Sciences, and was elected a Fellow of the American Association for the Advancement of Science in 2003. He is also a member of the National Academy of Sciences.

 0000-0002-4436-4661

 Co-author Network

<http://vivoweb.org>

**Clarivate
Analytics**

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selected publications

academic article

IMPROVING COSMOLOGICAL DISTANCE MEASUREMENTS USING TWIN TYPE IA SUPERNOVAE.

2015

ASTROPHYSICAL JOURNAL. 815 , 1

Full Text via DOI: [10.1088/0004-637X/815/1/58](https://doi.org/10.1088/0004-637X/815/1/58) Web of Science: WOS:000367105000058

UNITY: CONFRONTING SUPERNOVA COSMOLOGY'S STATISTICAL AND SYSTEMATIC UNCERTAINTIES IN A UNIFIED BAYESIAN FRAMEWORK.

2015

ASTROPHYSICAL JOURNAL. 813 , 2

Full Text via DOI: [10.1088/0004-637X/813/2/137](https://doi.org/10.1088/0004-637X/813/2/137) Web of Science: WOS:000365288900057

Measuring cosmic bulk flows with Type Ia supernovae from the Nearby Supernova Factory (vol 560, A90, 2013).

2015

ASTRONOMY & ASTROPHYSICS. 578

Full Text via DOI: [10.1051/0004-6361/201321880e](https://doi.org/10.1051/0004-6361/201321880e) Web of Science: WOS:000357502600001

A CALIBRATION OF NICMOS CAMERA 2 FOR LOW COUNT RATES.

2015

ASTRONOMICAL JOURNAL. 149 , 5

Full Text via DOI: [10.1088/0004-6256/149/5/159](https://doi.org/10.1088/0004-6256/149/5/159) Web of Science: WOS:000354065200010

THANK YOU

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