

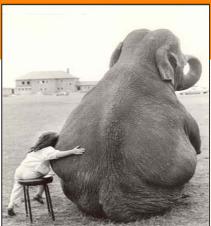


Elsevier Research Intelligence

Current and Future Potential of the University of Idaho

Brad Fenwick DVM, PhD, DACVM
Professor and Jefferson Science Fellow - US Dept. of State
Senior Vice President
Global Strategic Alliances

University of Idaho Sept, 2015





NON SOLUS "Not Alone"



If the Research and Higher Education Enterprise is not Healthy, the Science Publication Business will also not be Healthy.

BOUNDARY CROSSING COMPETENCIES

Teamwork, communication, perspective, networks, critical thinking, global understanding, project management, etc.

ME

MANY DISCIPLINES

Understanding & communications

MANY SYSTEMS

Understanding & communications

DEEP IN AT LEAST ONE DISCIPLINE

Analytic thinking & problem solving

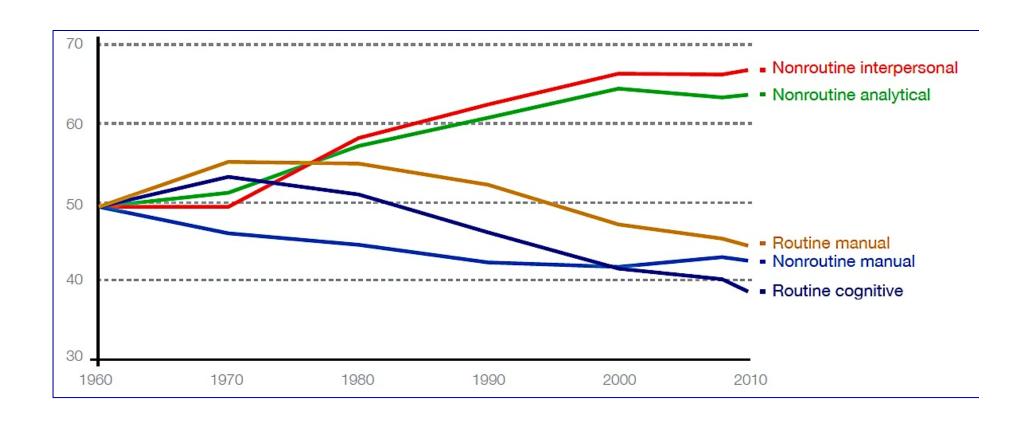
DEEP IN AT LEAST ONE SYSTEM

Analytic thinking & problem solving



MARCH 21 & 22 | WASHINGTON, D.C.

What can be automated will be automated



21st-Century Skills

Foundational Literacies

How students apply core skills to everyday tasks



1. Literacy



2. Numeracy



3. Scientific literacy



4. ICT literacy



5. Financial literacy



Cultural and civic literacy

Competencies

How students approach complex challenges



7. Critical thinking/ problem-solving



8. Creativity



9. Communication



10. Collaboration

Character Qualities

How students approach their changing environment



11. Curiosity



12. Initiative



13. Persistence/ grit



14. Adaptability

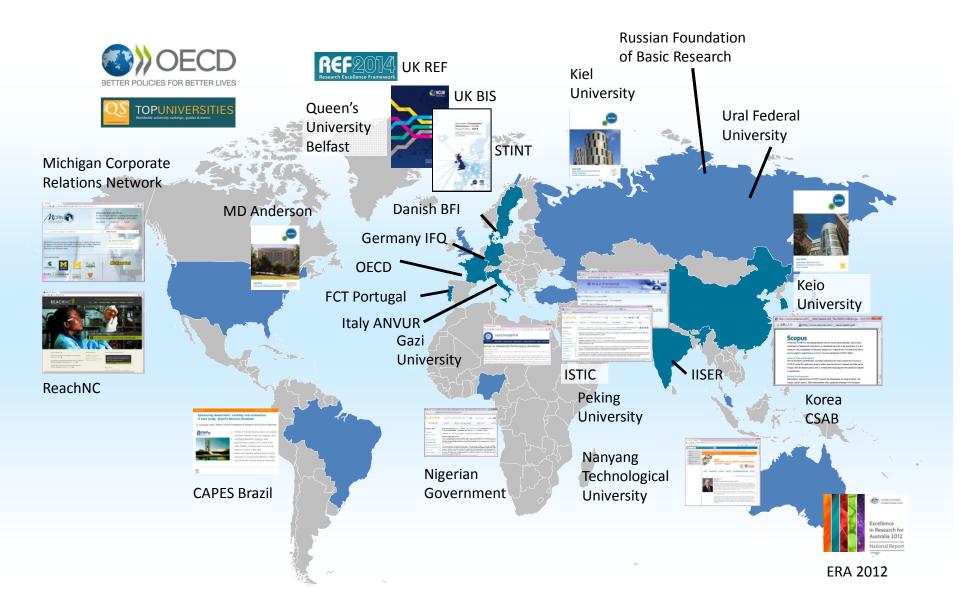


15. Leadership



16. Social and cultural awareness

We take a consultative approach to help answer the challenges research institutions face



Selected Collaborative Initiatives with Universities



Harvard Medical School

Correlation between outcomes and genetic mapping



Carnegie Mellon

Social graph mapping in news



North Carolina State University

Integration of GATE NLP into HPCC and automated optimization of ECL algorithms



Wayne State University

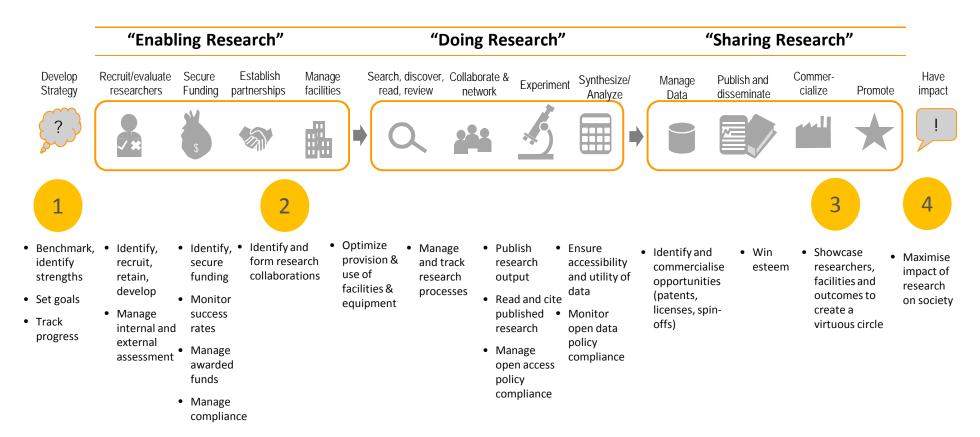
Development of systems and methods for building a corpus of trustworthy information mined from the Web



Georgia Institute of Technology

Enhancements to the HPCC Systems platform including in data security and privacy

Research Support





Each year

- 1 million article manuscripts received by ~2,000 journals (all offer Open Access options)
- 350,000 new articles published, in addition to 11M existing articles
- 2,000 new books published
- ScienceDirect: 750M digital article downloads
- Scopus: 55M records, 21,900 titles, 5,000 publishers, 700M citations
- SciVal: 75 trillion metrics values
- Pure: current research information system: >200,000 researchers supported
- Mendeley: 3M users globally
- Grants:7,000 sponsors, 20,000+ active opportunities, ~5M awarded grants
- Patents: >93m records, 100 patent offices
- Compounds: 22M compounds, 35M reactions; 3.3M molecular facts
- Drug information: 16k branded drugs; 12k generic drugs

Primary publishing

Derived and aggregated data

Elsevier is increasingly the partner of choice for global research leaders

National research assessment and benchmarking reports

- US NSF Science & Engineering Indicators
- Research Performance in South-East Asia
- UK REF, UK BIS reports
- ERA (Australia)
- FCT (Portugal)
- VQR (Italy)

Global University Rankings

- Times Higher World University Rankings
- Maclean's
- QS rankings
- US News rankings (Arab Region)











ProBono initiatives and reports (selected examples)

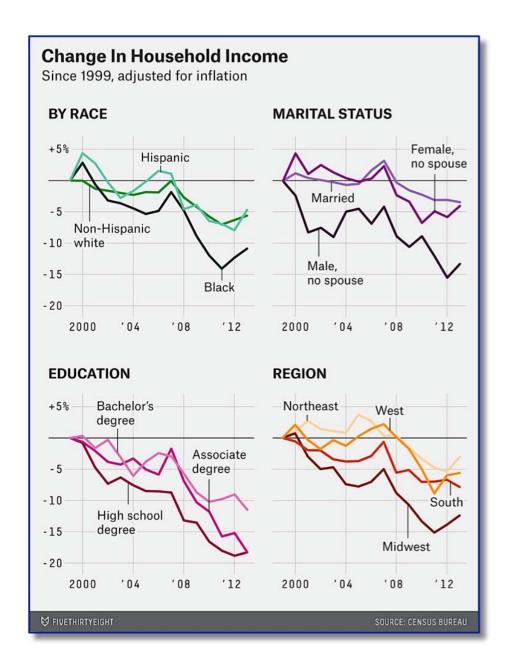
- US Council of State Governments
- NIH Best reports (including Cornell)
- Illinois Science and Technology Road Map
- Sustainability Science (24 September)
- World Bank
- Royal Society
- Science Europe
- EuroStemCell, Kyoto University
- European Commission, FENS, HBP,
- Kavli Foundation, RIKEN BSI



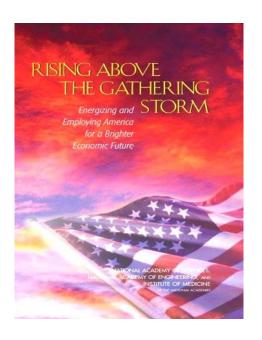
- What worked yesterday will not meet tomorrow's Education and Information needs -

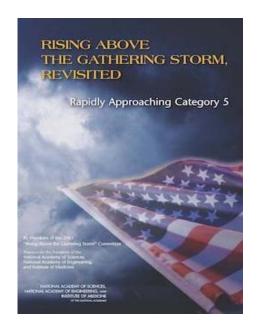


All About the Economics

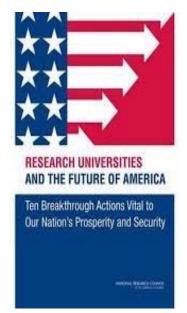


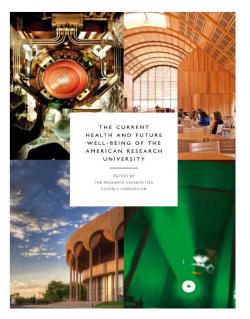
Institution Type	% Agreeing Model Is Sustainable Over a Decade, 2014	% Agreeing Model Is Sustainable Over a Decade, 2015	
Public Doctoral	53%	42%	
Public Master's	56	31	
Public Baccalaureate	50	34	
Public Associate	44	36	
Private Doctoral/Master's	48	42	
Private Baccalaureate	45	41	

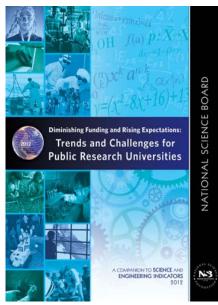






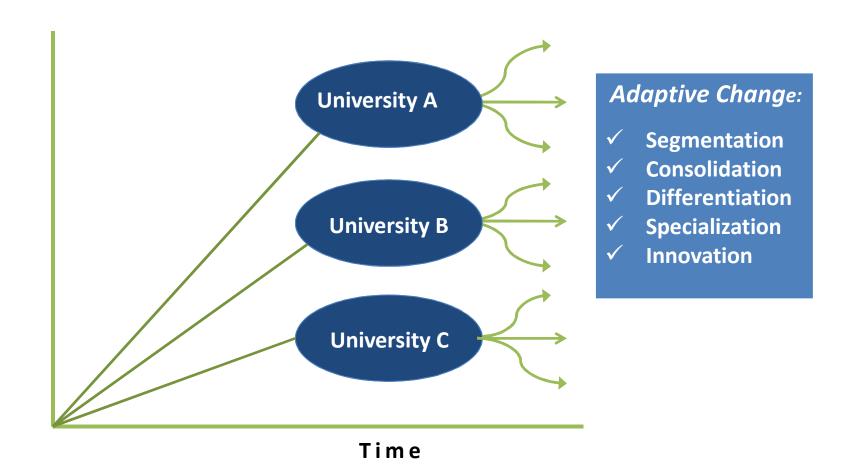


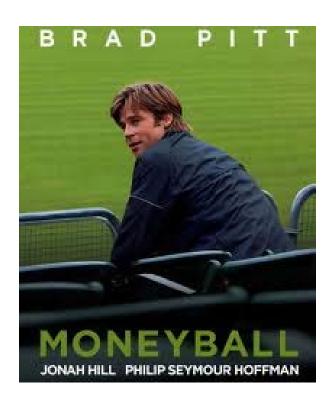




"Current Model is not Sustainable"

Historical Point of Inflection -- Uncertain Trajectory





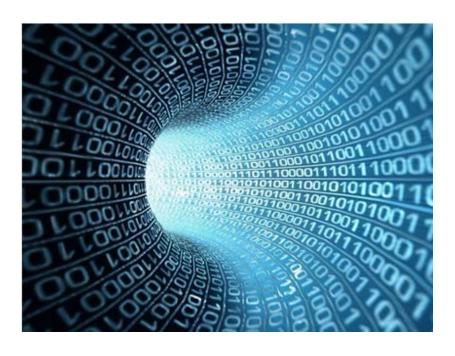
"A Team of Experts is not an Expert Team without Data"



"If a better university is your destination, then better data is your map."



Give me data... NOW!

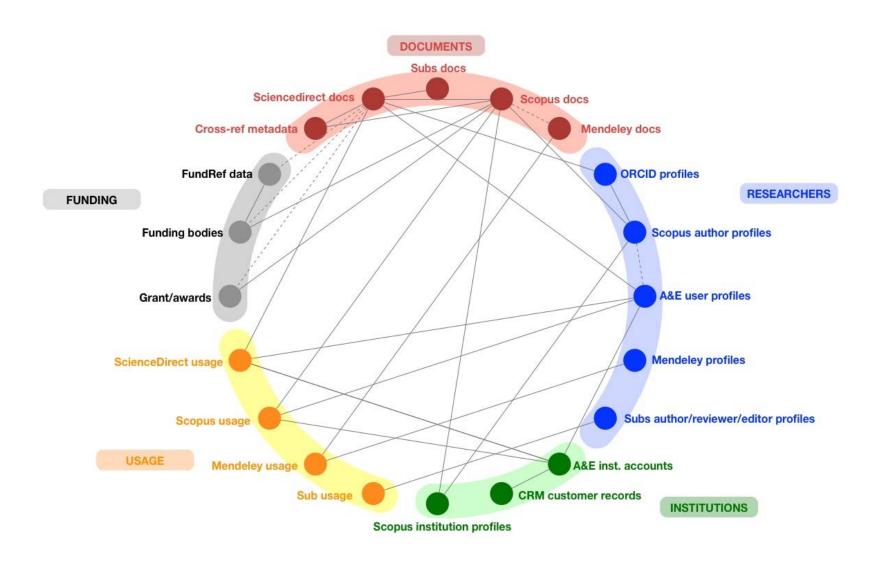


If we want (need) to make higher education and academics research more efficient and effective, we need to know what works.

Which Research areas are you going bet on?

PASS LIN	Manotechnology Manotechnology Manotechnology							
		Nanotechnolo	Electronics	Food & Agriculture	Logistics	Life Sciences	Medicine	Nuclear
		Financial Services						
	2 * 3 * 4 * 9 * 10 * 11 * (12)							
Don't Pass Bar ::: PASS LINE								

Elsevier's Data and Content Assets



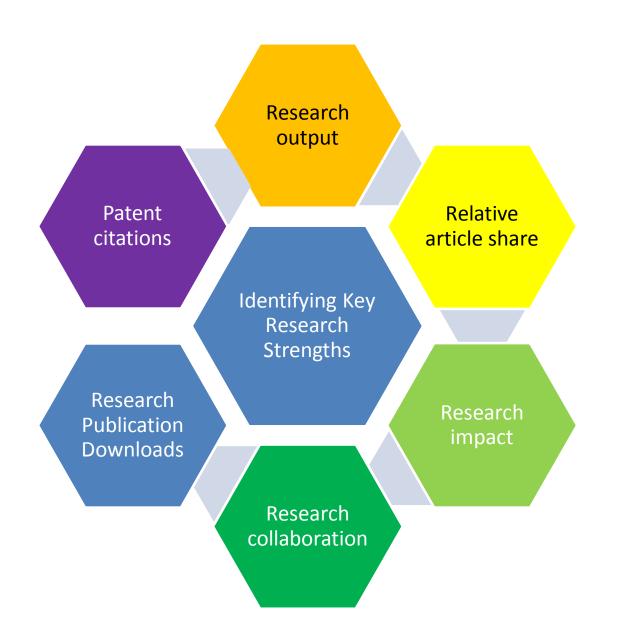
What content does Scopus include?

55.5M records from **22,283** serial titles and **50,316** books 21.3M pre 1996 records | 34.1M post 1995 records

- Content from > 5,000 publishers
- "Articles in Press" from > 3,750 titles
- Titles from 105 different countries in all geographical regions
- 40 "local" languages covered
- More than 2,800 Gold Open Access journals indexed



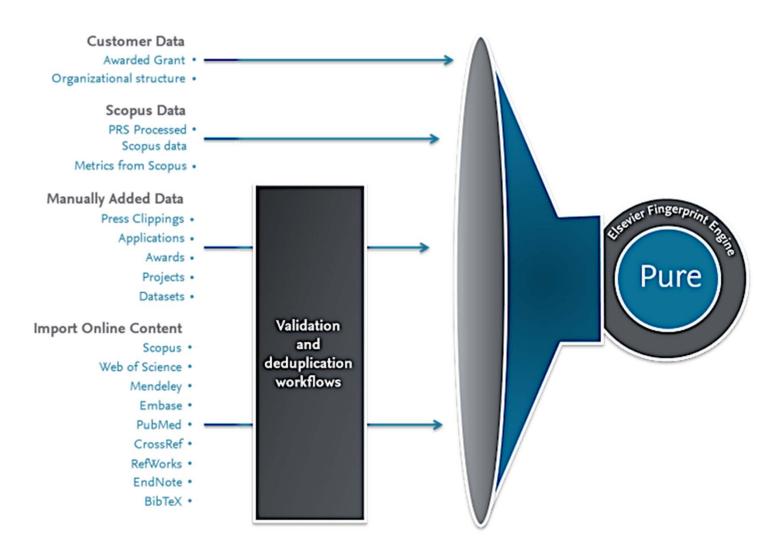
Scopus is ideal compared to other products because it has the broadest coverage of global, curated, relevant research, with smart, simple tools to help track, analyze and visualize research.





Data <u>captured</u> from multiple channels

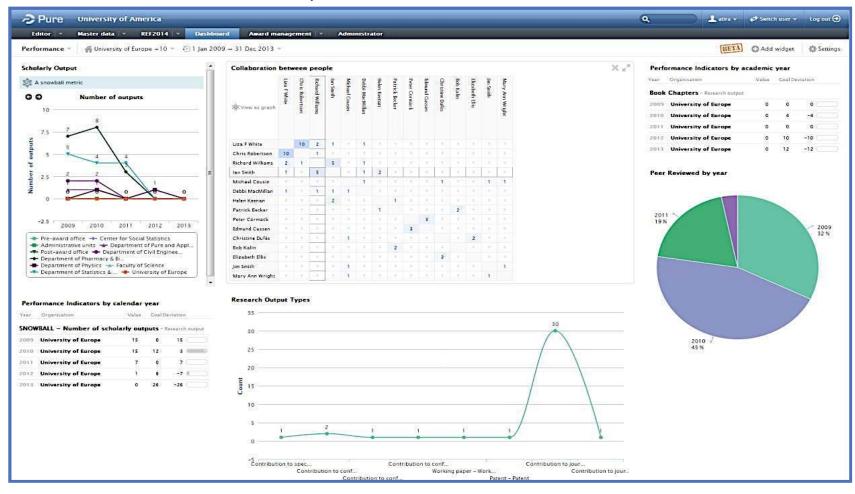




Customizable dashboards provide administrators with an overview of strategically important metrics

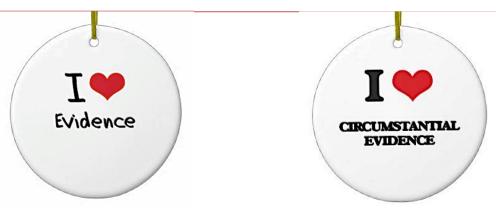


- Dashboards can be personalized, shared and used for monitoring and reporting
- User controls ensure that only data relevant to the user are visible



What I wished I would have known - but you can?

- ✓ What are my institution's verifiable research strengths?
- ✓ What are my institution's emerging strengths that are good bets for the future and warrant additional resource allocations?
- ✓ Are there institutional level collaborations that would leverage the institution's inherent competitive advantages?
- ✓ Which researchers are most at risk of being recruited and most important to maintain or advance institutional research strengths?
- ✓ Which researchers should be proactively recruited and would provide the best ROI.



"Everyone has a right to their own opinion, but no one has a right to be wrong in their facts." Bernard Barush 1950'

How publication metadata maps research



Volume 41, Issue 10, 21 May 2012, Pages 3969-4009

Recent developments in asymmetric multicomponent reactions (Review)

De Graaff, C., Ruijter, E. M, Orru, R.V.A. M

Department of Chemistry and Pharmaceutical Sciences, Amsterdam Institute for Molecules, Medicines and Systems (AIMMS), VU University Amsterdam, De Boelelaan 1083, 1081 HV Amsterdam, Netherlands

Abstract

Multicomponent reactions (MCRs) receive is complexity in organic synthesis. Thus, in principal generated from simple starting materials in a sin pure compounds for pharmaceutical and agricul development of asymmetric multicomponent representations have been applied to the total synthesis or

Researcher affiliated with Vrije University Amsterdam Cited by 150 documents since 1996 Recen dvances in enantioselective vanadiumcatalya transformations Pellissie ination Chemistry Reviews (2015)(A domir Ilfurative coupling-acylation-hydration-Michael 1 process for the synthesis of polysubs etrahydro-4H-pyrido[1,2a]pyrimic Yan, Z.-F. , Da, Y.-X. (2014) Che nunications Conditionmulticomponent reactions of 1.3-dicarbo ds and formaldehyde Liu, C., She (2014) ACS ience Viev

Count (150) of other papers citing this publication

References (409)

First 80 references displayed (View all references)

□ Page □ CSV export → □ Print □ E-mail □ Create bibliography

□ Orru, R.V.A., De Greef, M.

1 Recent advances in solution-phase multicomponent methodology for the synthesis of heterocyclic compounds

(2003) Synthesis, (10), pp. 1471-1499. Cited 704 times.

View at Publisher

□ Ruijter, E., Scheffelaar, R., Orru, R.V.A.

Multicomponent reaction design in the quest for molecular complexity and diversity

(2011) Angewandte Chemie - International Edition, 50 (28), pp. 6234-6246. Cited 289 times.

doi: 10.1002/anie.201006515

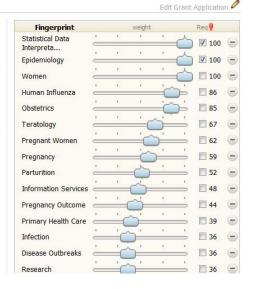
■ Full Text ■ View at Publisher.

Count (409) of other papers cited by this publication

▶ Show Grant Application Details

Abstract

Influenza infection during pregnancy is associated with adverse maternal and fetal outcomes, including probable increases in the risk of maternal pneumonia and possible increases in risks of certain congenital malformations. Recent US H1N1 pandemic experience as well as data from previous influenza pandemics indicates higher morbidity and mortality among pregnant women. DESIGN: Systematic review and a subsequent prospective observational cohort study using several different sources to identify pregnant women needing treatment or prophylaxis. Information about pregnancy management and outcomes will be collected directly from heath professionals, as well as women themselves where infection is managed in primary care. COHORT IDENTIFICATION: All women in the UK identified with confirmed or suspected influenza H1N1v or requiring antiviral prophylaxis, identified through the UK Teratology Information Service (UKTIS), the Reproductive Medicine and Childbirth Research Network, the Primary Care Research Network, the HPA Regional Microbiology Laboratory Network, self reporting by patients and active negative surveillance through the UK Obstetric Surveillance System (UKOSS). Information about comparison women will be obtained from the existing UKOSS database of over 1200 women giving birth in the UK. VIROLOGICAL CONFIRMATION OF H1N1: Women will undergo H1N1 testing arranged through the research network staff or by a self testing kit if not done already., DATA GATHERING: 1. Consenting women identified through UKTIS will be contacted by telephone (a) two weeks after the reported exposure/ first contact. Details of them and their illness will be collected (b) Patients who remain unwell will be followed up at two weekly intervals until recovery (c) Final follow up will be of maternal and pregnancy outcome two weeks after birth. 2. Nominated UKOSS reporting clinicians will report anonymised details of all pregnant women admitted with confirmed or suspected H1N1v infection via a specific web-based rapid reporting and data collection system. STUDY SIZE: We anticipate identifying 500-1000 affected pregnancies during the 6 month initial study period. Information on 1200 comparison women is available from existing UKOSS data. ANALYSIS: We will investigate the relationship between demographic, pregnancy characteristics, management and clinical outcomes in order to generate immediate recommendations for changes in practice to improve outcomes for this vulnerable group.

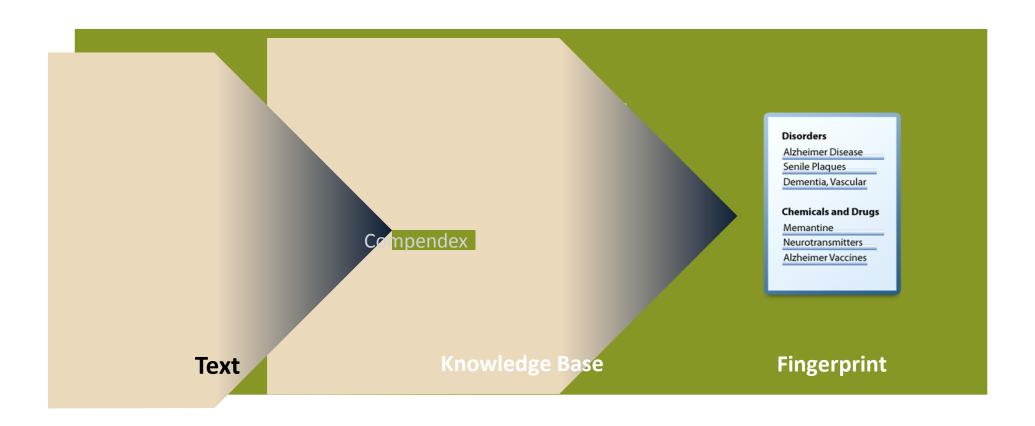


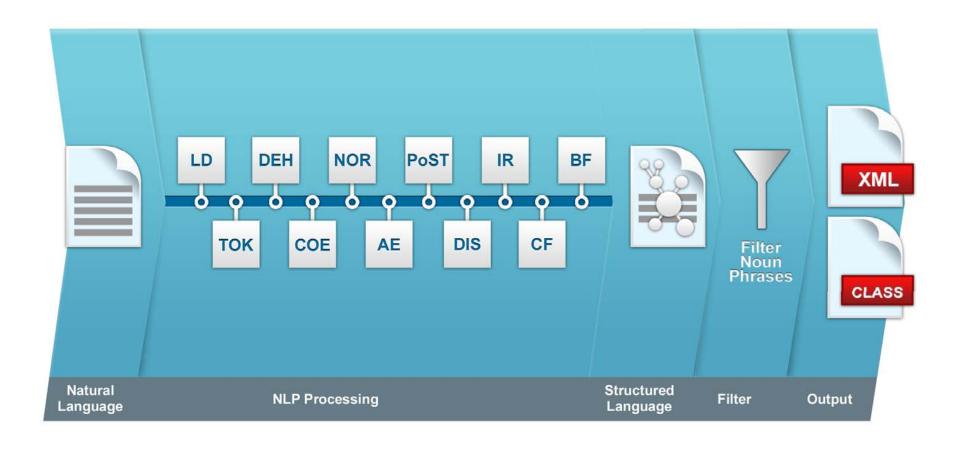
Concepts are derived from the text. Each concept is found in an underlying thesaurus suitable for the scientific area of the text. Concepts are weighted to create a precise summary of the text's meaning.



- Any text can be Fingerprinted, from grant applications to publications
- Fingerprints are generated from the title and abstract
- Natural Language Processing techniques are applied

Fingerprint Technology







Language Detection:
Detects in which language
a text is written.



Part-of-Speech Tagging:

Tags a tokenized text with the linguistic part of speech (verb, noun etc). Tagging is context dependent, e.g. the word 'lead' can be tagged as a noun or verb: "it lead to the conclusion" versus "the lead concentration was high".



Coordination Expansion:

Detects abbreviated coordinations and reconstructs full forms. For instance, the phrase "intra- and extramural" is expanded to "intramural and extramural". Similarly, full noun phrases are reconstructed from abbreviated ones, e.g. "Hepatitis A and B" is expanded to "Hepatitis A and Hepatitis B".



Idiom Removal: Excludes known idioms from concept finding. For instance, "on the other hand" will not produce the concept "hand".



Tokenization:

Tokenizes a text, splitting it in tokens, e.g. by recognizing word and sentence boundaries.



Normalization:

Produces normal forms converting plural forms to singular (children > child) and British to American (gynaecology > gynecology).



Abbreviation Expansion:

Detects and expands abbreviations that are defined in a text. For instance, if the phrase "Blood group (BG)" is detected all occurrences of "BG" in the same text are expanded to "Blood group".



Dehyphenation:

Recognizes
sentence-final
hyphenations and
reconstructs the original
words, for instance
"dehyph- enation" >
"dehyphenation".



Disambiguation:

Disambiguates thesaurus terms based on their part-of-speech tags. For instance, the term "lead" from a chemistry thesaurus may be omitted if it is tagged as a verb in the text.



Language Support:

English, German,
Dutch, Spanish,
Portuguese, and Chinese.
Additional languages
can be added.



Concept Finding:

Finds occurrences of terms from a controlled vocabulary in a piece of unstructured text.



Noun Phrase Detection:

Detects noun phrases in tokenized text. This can be used for thesaurus term suggestion. For instance, processing "The novel association at the ABO locus provides evidence" produces "novel association", "ABO locus" and "evidence".

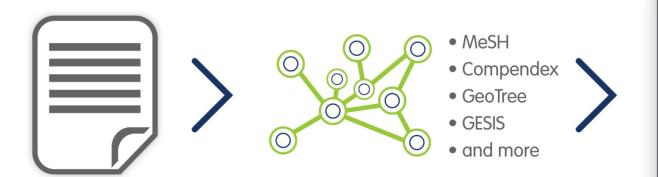


Balanced Fingerprinting:

Combines different document sections with different base weights.

How does the Elsevier Fingerprint Engine work?

1 Mine Text 2 Identify Concepts 3 Create Document Fingerprint



Disorders

Uterine Cervical Neoplasms

Neoplasms

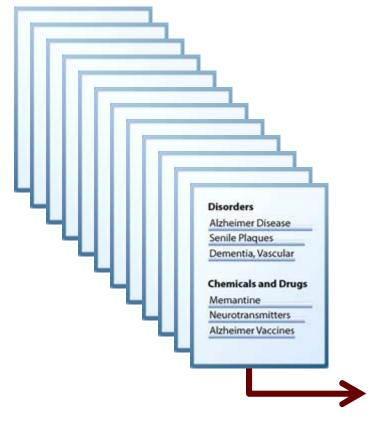
Breast Neoplasms

Chemicals & Drugs

Biological Tumor Markers

Papillomavirus Vaccines

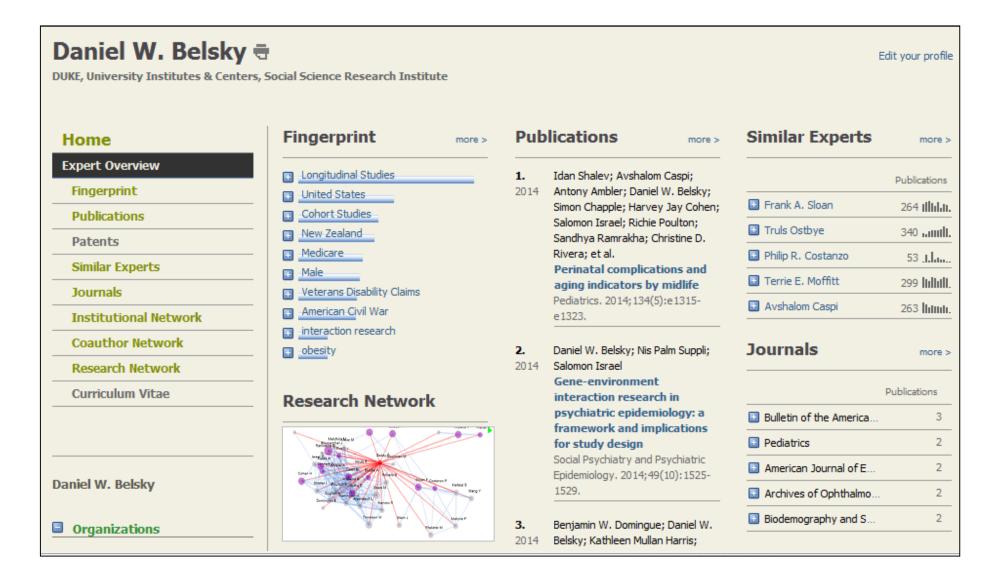
Aspirin



Generate a researcher's unique Fingerprint by aggregating the Fingerprints of each of their publication abstracts

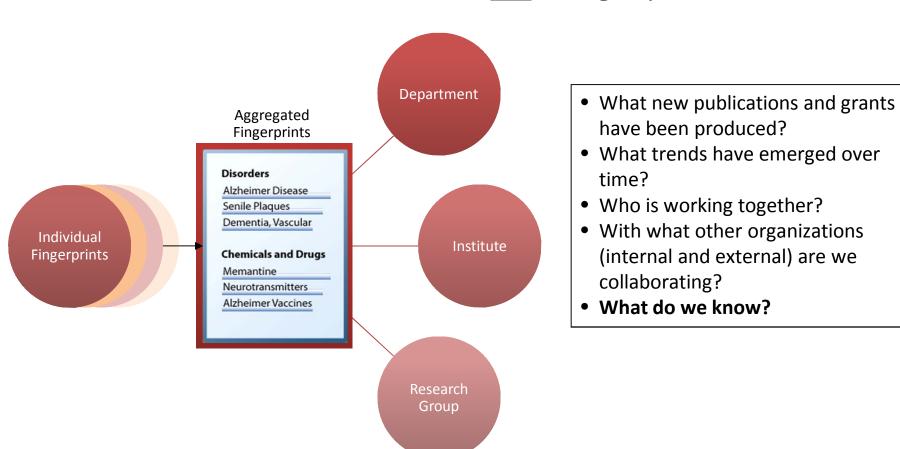


Showcase researchers, facilities and outcomes



Source: http://www.experts.scival.com/reachnc/#

Aggregating researchers' Fingerprints across organizational units allows for the institution to know what individuals know <u>and</u> what groups know...



Broadly Distributed Publication Portfolio with Quality Above the World Average

Publications 4,192 A

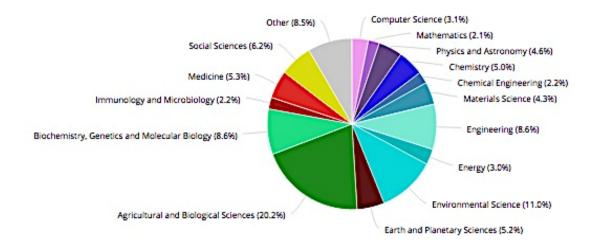
Citations 28,743 Authors 2,307 A

Field-Weighted Citation Impact
1.31

Citations per Publication

6.9

1 View list of publications





Broadly Distributed Publication Portfolio with Quality Above the World Average

Publications 4,192 A

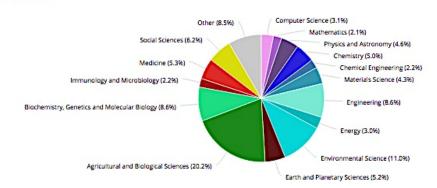
Citations 28,743 Authors 2,307 A

Field-Weighted Citation Impact 1.31

Citations per Publication
6.9

1 View list of publications





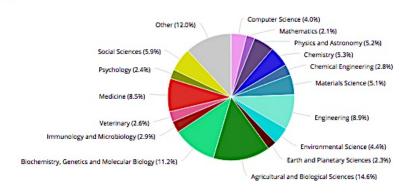
Publications 10,866 A Citations 68,971 Authors 5,662 A

Field-Weighted Citation Impact 1.43 Citations per Publication

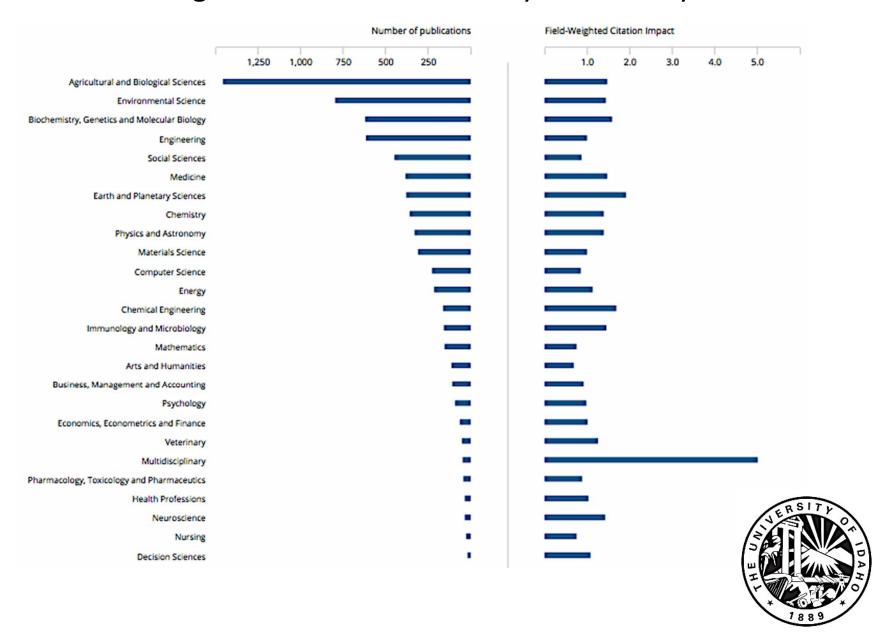
6.3

(1) View list of publications

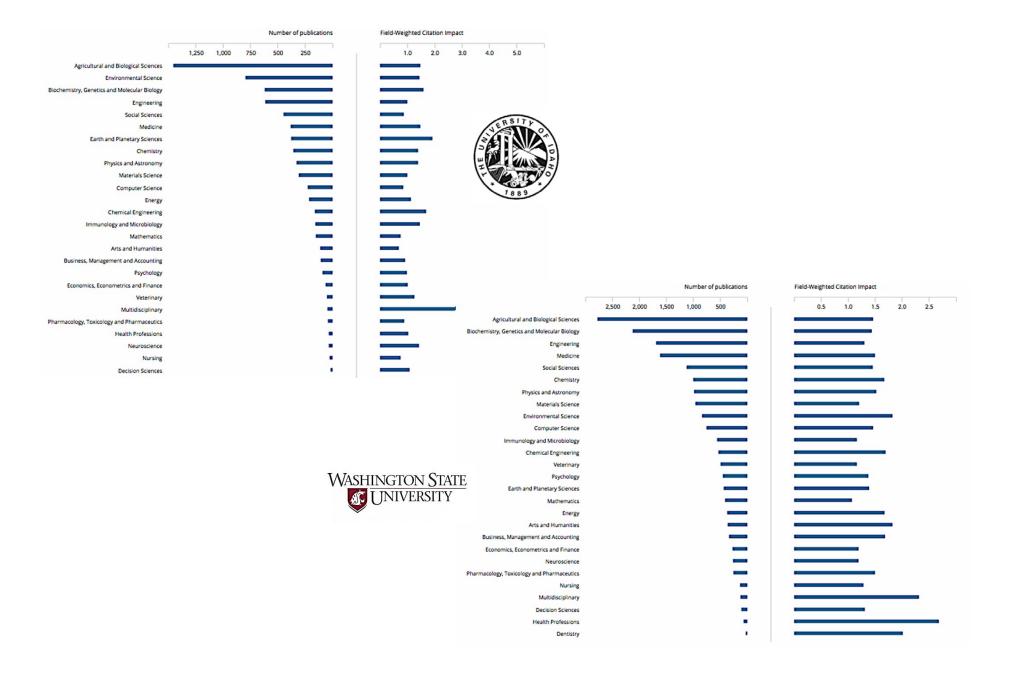




Alignment between Quantity and Quality



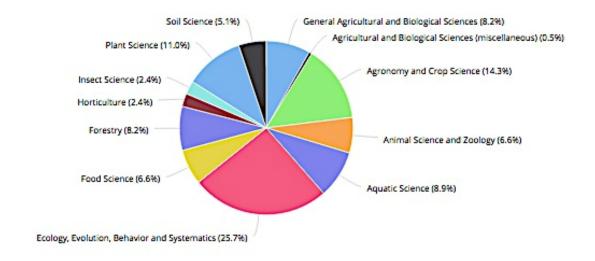
Alignment between Quantity and Quality



Broadly Distributed "Agriculture / Life Science" Publication Portfolio with Quality Above the World Average

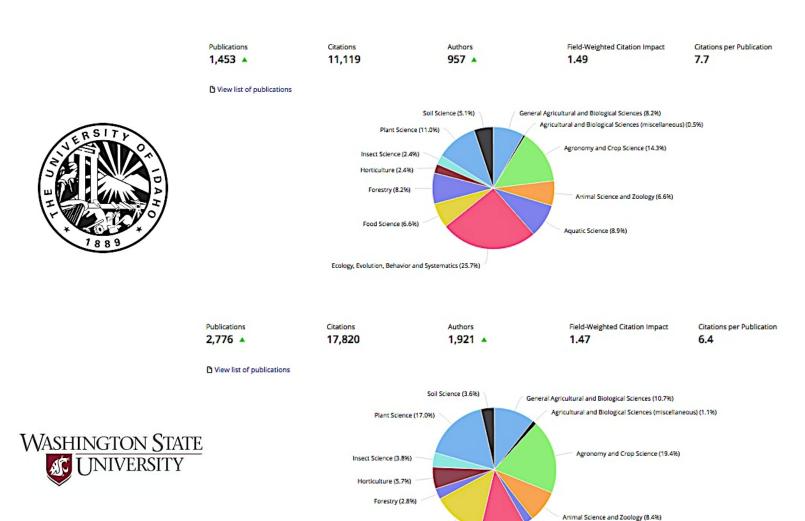
Publications Citations Authors Field-Weighted Citation Impact Citations per Publication 1,453 ▲ 11,119 957 ▲ 1.49 7.7

View list of publications





Broadly Distributed "Agriculture / Life Science" Publication Portfolio with Quality Above the World Average

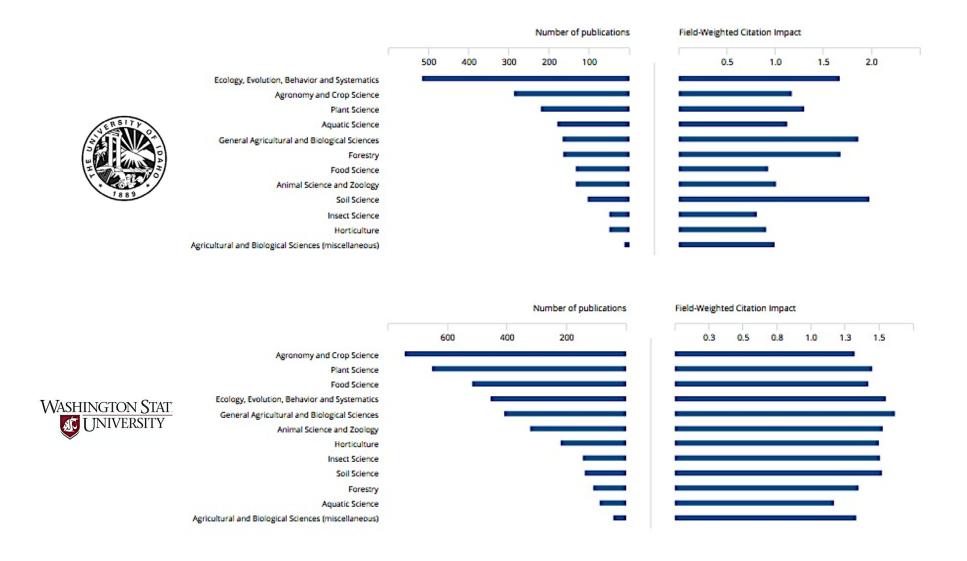


Food Science (13.4%)

Aquatic Science (2.3%)

Ecology, Evolution, Behavior and Systematics (11.9%)

Broadly Distributed "Agriculture / Life Science" Publication Portfolio with Quality Above the World Average



Outputs in Top Percentiles 😂



Publications in top 10% most cited worldwide

University of Idaho:

16.8%

United States: 17.6%

→ Analyze in more detail

International Collaboration 🕸



Publications co-authored with Institutions in other countries



University of Idaho:

26.0%

United States: 29.7%

→ Analyze in more detail

Publications in Top Journal Percentiles 💲



Publications in top 10% journals by SNIP \$



University of Idaho:

22.9%

United States: 26.9%

→ Analyze in more detail

Academic-Corporate Collaboration 📚



Publications with both academic and corporate affiliations



University of Idaho:

1.4%

United States:

2.7%

→ Analyze in more detail



Outputs in Top Percentiles 😂



Publications in top 10% most cited worldwide



University of Idaho:

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University of Idaho:

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2.7%

→ Analyze in more detail

Publications in top 10% most cited worldwide



Washington State University Pullman:

17.8%

United States: 17.6%

→ Analyze in more detail

International Collaboration 😂

Publications in Top Journal Percentiles 🕸

Publications in top 10% journals by SNIP \$





Washington State University Pullman:

23.8%

United States: 26.9%

→ Analyze in more detail

Academic-Corporate Collaboration 😂



Publications with both academic and corporate affiliations



Washington State University Pullman:

1.7%

United States: 2.7%

→ Analyze in more detail





countries

Washington State University Pullman:

31.5%

United States: 29.7%

Publications co-authored with Institutions in other

→ Analyze in more detail

Collaboration 🔅

Shortcuts ▼

Publications at the University of Idaho, by amount of international, national and institutional collaboration

Metric		Publications	Citations	Citations per Publication	Field-Weighted Citation Impact
International collaboration	26.0%	1,089	13,171	12.1	1.93
Only national collaboration	41.2%	1,726	10,886	6.3	1.36
Only institutional collaboration	24.4%	1,021	4,055	4.0	0.86
 Single authorship (no collaboration) 	8.5%	356	631	1.8	0.50

Academic-Corporate Collaboration 🔅

Shortcuts ▼

Publications at the University of Idaho with both academic and corporate author affiliations

Metric		Publications	Citations	Citations per Publication	Field-Weighted Citation Impact
Academic-corporate collaboration	1.4%	58	3,045	52.5	4.43
No academic-corporate collaboration	98.6%	4,134	25,698	6.2	1.27



Collaboration 🕸

Publications at the University of Idaho, by amount of international, national and institutional collaboration





Academic-Corporate Collaboration 🎄

Shortcuts •

Publications at the University of Idaho with both academic and corporate author affiliations



Collaboration 🔅 Shortcuts 🕶

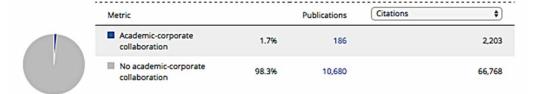
Publications at Washington State University Pullman, by amount of international, national and institutional collaboration

	Metric		Publications	Citations	\$
	International collaboration	31.5%	3,419		27,500
	Only national collaboration	34.0%	3,699		23,394
	Only institutional collaboration	25.9%	2,814		15,437
	Single authorship (no collaboration)	8.6%	934		2,640

Academic-Corporate Collaboration 🕸

Shortcuts *

Publications at Washington State University Pullman with both academic and corporate author affiliations





Top 100 authors, by number of publications at the University of Idaho over the period 2010 to 2015. Note that some authors may no longer be affiliated with the University of Idaho.

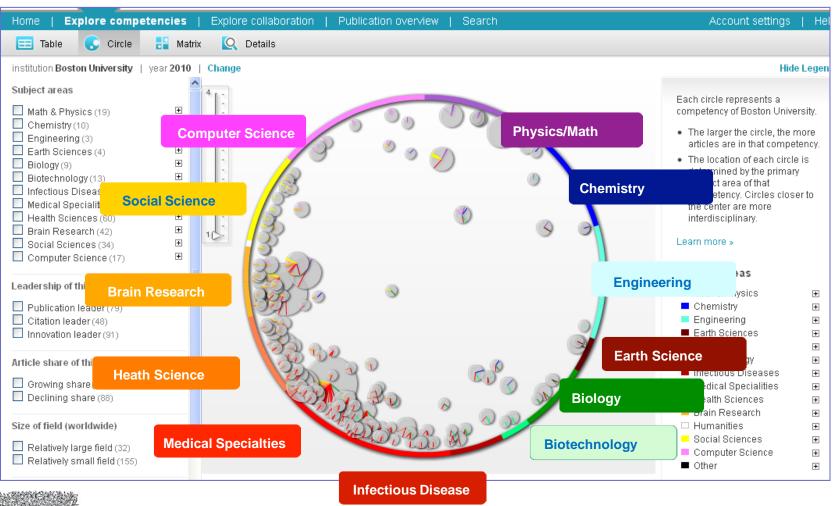
1	Name	Publications =	Most recent publication	Citations 💠	<i>h</i> -index
1.	Shreeve, Jean'Ne M.	93	2015	1,936	52
2.	Waits, Lisette P.	73	2015	1,002	39
3.	Manic, Milos	72	2015	325	12
4.	McDonald, Armando Gabriel	66	2015	370	18
5.	Barnes, Jason W.	50	2015	1,165	25
6.	Harmon, Luke J.	46	2015	1,049	30
7.	Abatzoglou, John T.	42	2015	480	17
8.	Charit, Indrajit	39	2015	99	14
9.	Vierling, Lee A.	39	2015	426	29
10.	Allen, Richard Glen	38	2015	488	36
11.	Hrdlička, Patrick J.	37	2015	359	16
12.	Beyerlein, Steven W.	35	2015	32	5
13.	Cain, Kenneth D.	35	2015	114	17
14.	Qiang, You	35	2015	107	20
15.	Eigenbrode, Sanford D.	33	2015	199	24
16.	Mcllroy, David N.	33	2015	164	23
17.	Hill, Rodney Allan	32	2015	159	11
18.	Wai, Chien	31	2014	160	37
19.	Forney, Larry J.	29	2015	2,269	40
20.	Hardy, Ronald W.	29	2015	293	32

Top 100 authors, by number of publications at the University of Idaho over the period 2010 to 2015.

Note that some authors may no longer be affiliated with the University of Idaho.

]	Name	Publications	Most recent publication	Field-Weigh 💠 束	<i>h</i> -index
1.	Forney, Larry J.	29	2015	6.90	40
2.	Abdo, Zaid O.	20	2013	4.31	20
3.	Goldberg, Caren S.	20	2015	4.20	13
4.	Hicke, Jeffrey A.	27	2015	4.07	23
5.	Hohenlohe, Paul A.	17	2015	4.04	21
6.	Foster, James A.	19	2015	3.75	18
7.	Pennell, Matthew W.	16	2015	3.72	7
8.	Harmon, Luke J.	46	2015	3.49	30
9.	Barnes, Jason W.	50	2015	3.25	25
10.	Tonina, Daniele	25	2015	3.17	14
11.	Karasev, Alexander V.	23	2015	3.09	20
12.	Allen, Richard Glen	38	2015	2.95	36
13.	Smith, Alistair Matthew Stuart	27	2015	2.77	22
14.	Kolden, Crystal A.	17	2015	2.71	8
15.	Linda, Ondrej	24	2014	2.49	8
16.	Brooks, Erin S.	20	2015	2.48	11
17.	Barlow, Fred D.	24	2015	2.48	9
18.	Machleidt, Ruprecht	28	2015	2.46	23
19.	Pregitzer, Kurt S.	22	2015	2.31	54
20.	Locke, Kenneth D.	17	2015	2.25	14

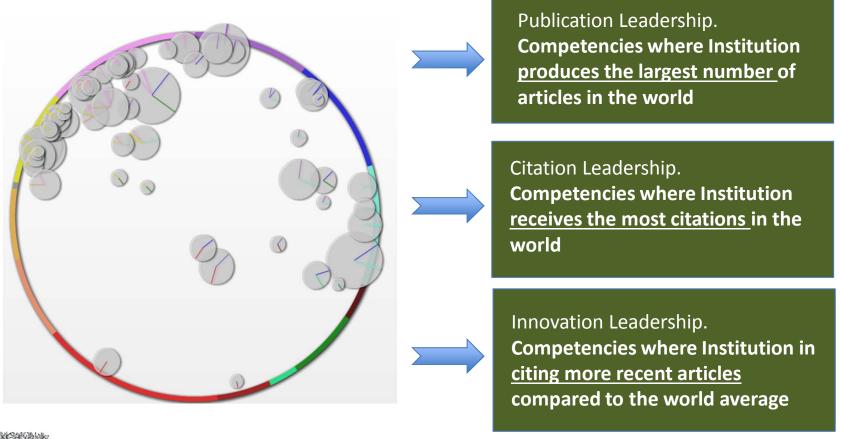




FISEVIER



Institution's Research Strengths

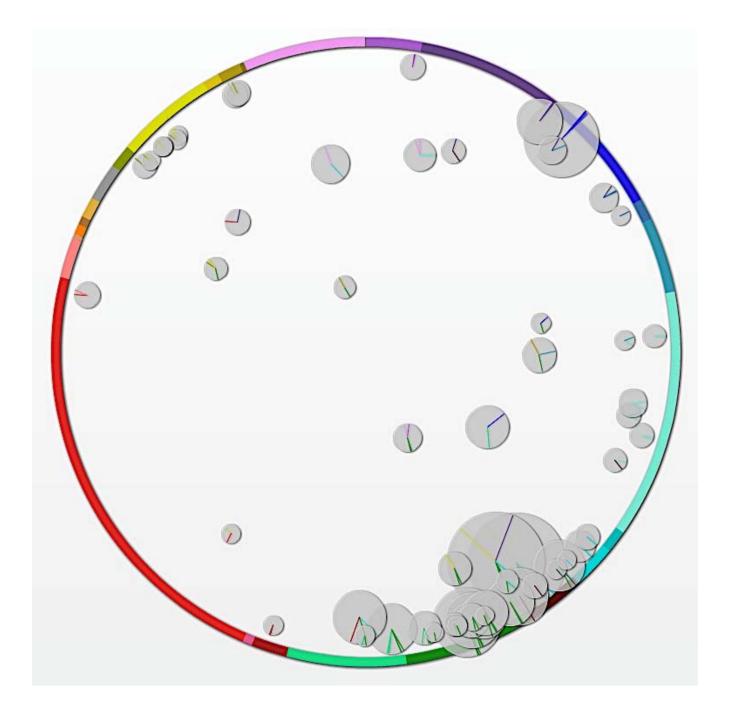




Dedicated and Emerging Research Competencies



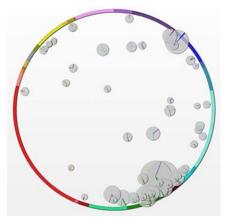
ID	Keywords				
EC #1	forest; fire; data	EC #21	Wood; Weathering; Composite materials	EC #41	HSP90 Heat-Shock Proteins; Molecular Chaperones; Proteins
EC #2	landscape; landscapes; habitat	EC #22	Finite difference time domain method; Ground penetrating ra-	EC #42	root-knot nematodes; Meloidogyne; yields
DC #3	population; genetics; microsatellite repeats	EC #23	Pyrolysis; Lignin; Biomass	EC #43	Graph in graph theory; Disjoint; Cycle
DC #4	phylogeny; speciation; phylogenetics	EC #24	planets; stars; planet	EC #44	sea level; sea level change; vulnerability
EC #5	ozone; soil; glucosinolates	EC #25	Delphi Technique; Consensus; Data Collection	EC #45	wildfire; fire; fires
DC #6	mutation; evolution; Selection, Genetic	EC #26	bird; birds; surveys	EC #46	cloud; Clouds; Radiometers
DC #7	Evapotranspiration; Water supply; energy balance	EC #27	Asbestos; Asbestos, Amphibole; Mesothelioma	EC #47	Biodiesel; Transesterification; Ultrasonics
EC #8	sampling; spatial distribution; density	EC #28	Potato virus Y; potatoes; Potyvirus	EC #48	alluvial plain; snake; hot spot
EC #9	Fuzzy logic; Fuzzy sets; Fuzzy systems	EC #29	Buildings; Office buildings; Lighting	EC #49	seedling; seedlings; root
EC #10	fish meal; diet; fish	EC #30	market; forest; Trade	EC #50	model; Water resources; groundwater
DC #11	Detonation; Explosives; Salts	EC #31	tourism; Experience; Adventure tourism	EC #51	music; essay; film
EC #12	wildfire; management; fire	EC #32	Fans; Nanoindentation; Pressure	EC #52	school; leadership; principal
EC #13	Nucleic Acids; Oligonucleotides; RNA	EC #33	snail; DNA; invasive species	EC #53	fire; coarse woody debris; fires
EC #14	fish; fishery; fisheries	EC #34	potatoes; farms; tubers	EC #54	Derrida; Literary; Women
DC #15	genitalia; male genitalia; sexual selection	EC #35	Phaseolus vulgaris; beans; cultivars	EC #55	Heat transfer; Computational fluid dynamics; Fluids
EC #16	Intrusion detection; SCADA systems; Critical infrastructures	EC #36	Perception; Distance Perception; Space Perception	EC #56	Ochratoxins; Mycotoxins; Wine
EC #17	Pedestrian safety; Vehicles; Accidents, Traffic	EC #37	Substrates; Nanostructures; Raman scattering	EC #57	teacher; mathematics; coaching
EC #18	matter (physics); neutrons; energy	EC #38	Creep; Deformation; Grain boundary sliding	EC #58	Chytridiomycota; amphibians; frogs
DC #19	Plasmids; plasmid; Gene Transfer, Horizontal	EC #39	social network; governance approach; network analysis	EC #59	fish; streams; stream
EC #20	Titan; methane; surface	EC #40	cost; Travel cost method; Estimate	EC #60	learning; teacher; practice
				EC #61	Myxococcus xanthus; Myxococcales; Cells



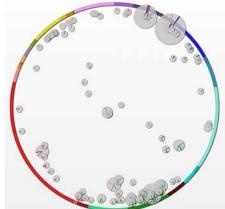
Subject areas

- Math & Physics
- Chemistry
- Engineering
- Earth Sciences
- Biology
- Biotechnology
- Infectious Diseases
- Medical Specialities
- Health Sciences
- Brain Research
- Humanities
- Social Sciences
- Computer Science
- Other

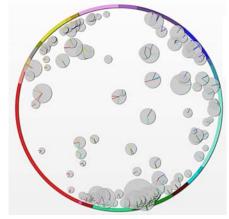




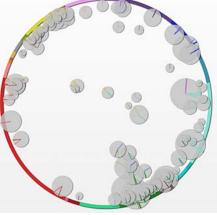










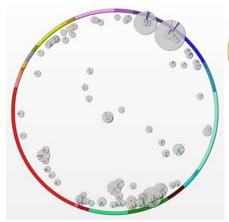




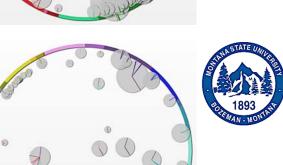


Subject areas

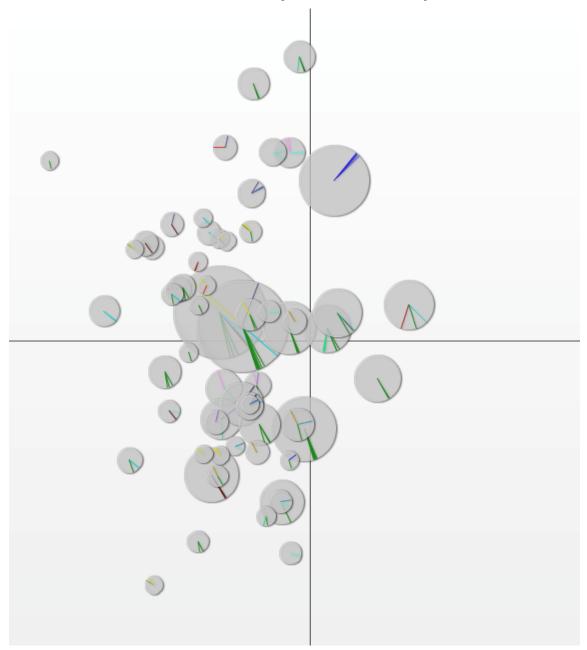
- Math & Physics
- Chemistry
- Engineering
- Earth Sciences
- Biology
- Biotechnology
- Infectious Diseases
- Medical Specialities
- Health Sciences
- Brain Research
- Humanities
- Social Sciences
- Computer Science
- Other





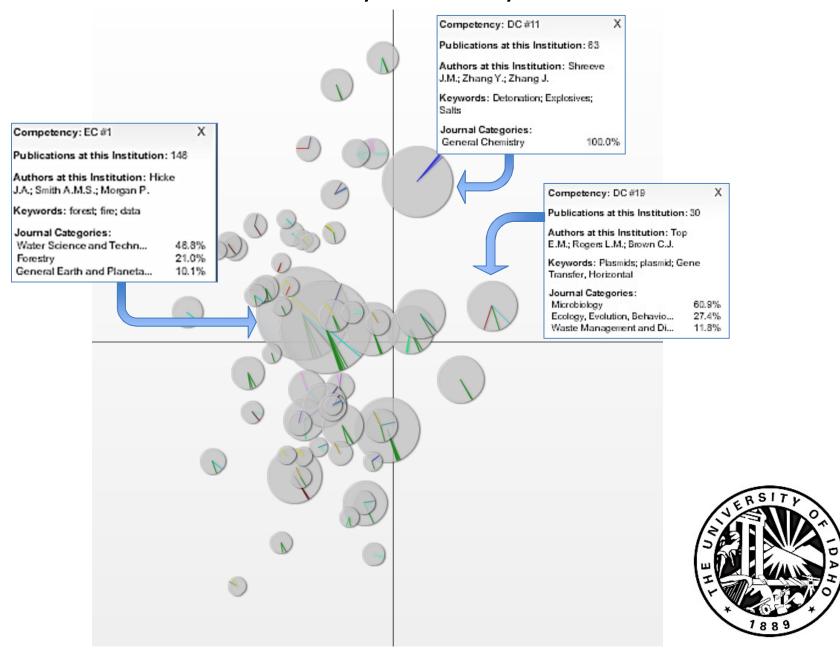


Quantity vs. Quality





Quantity vs. Quality



Agriculture and Biological Sciences Research Competencies

	ID	Keywords	Most published authors	Publications	Citations
\longrightarrow	EC #1	forest; fire; data	Hicke J.A., Smith A.M.S., Morgan P.	146 -	1,597
	EC #2	landscape; landscapes; habitat	Vierling L.A., Keefer M.L., Waits L.P.	139 -	1,316
	DC #3	population; genetics; microsatellite repeats	Waits L.P., Adams J.R., Rachlow J.L.	59 •	414
	DC #4	phylogeny; speciation; phylogenetics	Harmon L.J., Pennell M.W., Rosindell J.	37 -	886
	EC #5	ozone; soil; glucosinolates	Morra M.J., Brown J.H., Handiseni M.	14 •	62
	DC #6	mutation; evolution; Selection, Genetic	Miller C.R., Wichman H.A., Joyce P.	34 -	291
	DC #7	Evapotranspiration; Water supply; energy balance	Allen R.G., Trezza R., Kjærsgaard J.H.	36 -	305
	EC #8	sampling; spatial distribution; density	Ma Z., Krings A.W., Ma Z.	8 •	31
\longrightarrow	EC #10	fish meal; diet; fish	Hardy R.W., Cain K.D., Long A.	29 -	198
\longrightarrow	EC #14	fish; fishery; fisheries	Quist M.C., McCormick J.L., Moffitt C.M.	11 -	13
	DC #15	genitalia; male genitalia; sexual selection	Hohenlohe P.A., Sullivan J., Goldberg C.S.	18 -	199
	DC #19	Plasmids; plasmid; Gene Transfer, Horizontal	Top E.M., Rogers L.M., Brown C.J.	30 -	270
	EC #21	Wood; Weathering; Composite materials	McDonald A.G., Fabiyi J.S., Devadoss S.	15 *	75
	EC #26	bird; birds; surveys	Conway C.J., Manning J.A., Garton E.O.	6 🕶	19
\longrightarrow	EC #28	Potato virus Y; potatoes; Potyvirus	Karasev A.V., Nikolaeva O.V., Kerlan C.	22 -	171
	EC #31	tourism; Experience; Adventure tourism	Houge Mackenzie S., Ham S., Mackenzie S.H.	8 -	56
	EC #33	snail; DNA; invasive species	Moffitt C.M., Waits L.P., Goldberg C.S.	10 -	81
\longrightarrow	EC #34	potatoes; farms; tubers	Stark J.C., Shiffler A.K., Bowen T.R.	7 -	31
	EC #35	Phaseolus vulgaris; beans; cultivars	Singh S.P., Viteri D.M., Terán H.	20 -	81
	EC #41	HSP90 Heat-Shock Proteins; Molecular Chaperones; Proteins	Johnson J.L., Xiao F., Du X.	12 -	120
\longrightarrow	EC #42	root-knot nematodes; Meloidogyne; yields	Stark J.C., Olsen N.L., Brandt T.L.	7 •	7
\longrightarrow	EC #45	wildfire; fire; fires	Koyama A., Stephan K., Kavanagh K.L.	12 🕶	44
\longrightarrow	EC #49	seedling; seedlings; root	Davis A.S., Marshall J.D., Robertson N.D.	7 •	45
\longrightarrow	EC #53	fire; coarse woody debris; fires	Smith A.M.S., Hyde J.C., Morgan P.	8 •	56
	EC #56	Ochratoxins; Mycotoxins; Wine	Ryu D., Nguyen K.T.N., Lee H.	4 -	3
	EC #58	Chytridiomycota; amphibians; frogs	Rosenblum E.B.R., Poorten T.J., Voyles J.L.	10 -	218
\longrightarrow	EC #59	fish; streams; stream	Quist M.C., Zaroban D.W., Steinhorst R.K.	5	8

forest; fire; data

Summary	Trends	Journal Categories	Institutions	Authors	Compare	Methodology
* / * / * / * · · · · · · · · · · · · ·					The second secon	-

Based on an analysis of publications over the period 2010-2014, SciVal has identified EC #1 as a emerging competency of the University of Idaho

See why this field is an emerging competency of the University of Idaho

Publications in this field (2010-2014)

	Publications	Annual growth	Citations
Publications worldwide	4,954	+ 5.2%	31,494
Publications in the United States	2,386	+ 5.1%	18,941
Publications at the University of Idaho	146	+ 7.3%	1,597

Show the contribution to this field from:

- University of Idaho
- all contributing Institutions worldwide





forest; fire; data

Summary Trends Journal Categories Institutions Authors Compare Methodology

Based on an analysis of publications over the period 2010-2014, SciVal has identified EC #1 as a emerging competency of the University of Idaho

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Publications at the University of Idaho	146	+ 7.3%	1,597



Show the contribution to this field from:

- University of Idaho
- all contributing Institutions worldwide

Top keywords for the University of I	Competency EC #1 forest; fire; data			Export • Shortcuts •
fire forest	Summary Trends Journal Cate	gories Institutions Authors Com	npare Methodology	
fires tree	Contributing Institutions in the United States View a different set of Institutions ▼			overview
forests beetle model	Institution		Publications in this field	Fractionalized publication count
vegetation	U.S. Department of Agriculture	United States	461	166.8
disturbance	2. U.S. Geological Survey	United States	296	107.7
wildfires	3. University of Idaho	United States	146	78.9
Top Journal Categories for the Univ	4. Colorado State University	United States	142	58.0
-	5. University of Washington	United States	130	44.9
Water Science and Technology	6. Oregon State University	United States	126	43.6
Forestry	7. University of Colorado	United States	114	42.5
Ecology Earth-Surface Processes	8. Utah State University	United States	82	34.2
General Earth and Planetary Science	9. University of Wisconsin	United States	79	27.7
	10. University of Arizona	United States	86	26.8

wildfire; management; fire

Summary	Trends	Journal Categories	Institutions	Authors	Compare	Methodology
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Based on an analysis of publications over the period 2010-2014, SciVal has identified EC #12 as a emerging competency of the University of Idaho

See why this field is an emerging competency of the University of Idaho

Publications in this field (2010-2014)

Annual Publications Citations growth Publications worldwide 831 +5.4% * 3,270 Publications in the United States 495 +1.2% -1,800 Publications at the University of Idaho 13 +53.4% * 27

Show the contribution to this field from:

University of Idaho



Resourc...



wildfire; management; fire

Summary Trends Journal Categories Institutions Authors Compare Methodology

Based on an analysis of publications over the period 2010-2014, SciVal has identified EC #12 as a emerging competency of the University of Idaho

See why this field is an emerging competency of the University of Idaho

Publications in this field (2010-2014)

	Publications	Annual growth		Citations
Publications worldwide	831	+ 5.4%		3,270
Publications in the United States	495	+ 1.2%	•	1,800
Publications at the University of Idaho	13	+ 53.4%		27



Show the contribution to this field from:

University of Idaho

 all contributing Institutions wo Top keywords for the University of 	Competency EC #12						Export * Shortcuts *		
wildfire	Summary	Trends	Journal Categories	Institutions	Authors	Compare	Methodology		
management watershed		nstitutions in the U	overview						
fire perception forest management							Publications in this field		
Water conservation	U.S. Department of Agriculture			United States 97		97	42.4		
mountain	2. Ore	gon State University		U	nited States		33	16.4	
disturbance hurricane	3. The	Ohio State Universi	ty	U	nited States		23	12.8	_
	4. Cold	orado State Universi	ty	U	nited States		21	8.8	_
Top Journal Categories for the Uni	i S. University of Montana			United States		21	8.3	_	
	6. Univ	versity of Colorado		U	nited States		19	8.1	-
Ecology	7. Univ	versity of Idaho	~	ι	nited States		13	8.0	_
Management, Monitoring, Policy ar Law	8. Was	hington State Unive	ersity Pullman	U	nited States		12	7.8	-
	9. Nor	th Carolina State Un	iversity	U	nited States		17	7.6	_
	10. Univ	versity of Florida		· ·	nited States		17	7.1	_

Competency EC #45 wildfire; fire; fires Summary Trends Journal Categories Institutions Authors Compare Methodology Based on an analysis of publications over the period 2010-2014, SciVal has identified EC #45 as a emerging competency of the University of Idaho See why this field is an emerging competency of the University of Idaho Publications in this field (2010-2014) Annual Publications growth Citations Publications worldwide 372 + 6.7% . 2,089 Publications in the United States + 8.7% * 894 140 Publications at the University of Idaho 12 -12.3% * 44 Show the contribution to this field from: University of Idaho all contributing Institutions worldwide Top keywords for the University of Idaho show all » Top authors from the University of Idaho details » wildfire Koyama A. Stephan K. fire Idaho Kavanagh K.L. wildfires Strickler K.M. Yager E.M. fires Perreault L.M. forest fire United States Austin B. Higuera P.E. dynamics Derr K.M. soil mineral Keefe M.H. Top Journal Categories for the University of Idaho Top journals for the University of Idaho details »

Ecology Soil Science



wildfire; fire; fires

Summary Trends Journal Categories Institutions Authors Compare Methodology

Based on an analysis of publications over the period 2010-2014, SciVal has identified EC #45 as a emerging competency of the University of Idaho

See why this field is an emerging competency of the University of Idaho

Publications in this field (2010-2014)

	Publications	Annual growth		Citations
Publications worldwide	372	+ 6.7%		2,089
Publications in the United States	140	+ 8.7%		894
Publications at the University of Idaho	12	-12.3%	•	44



×

Shortcuts *

Export *

Show the contribution to this field from:

- University of Idaho
- all contributing Institutions

Top keywords for the University

wildfire fire Idaho wildfires fires forest fire United States dynamics soil mineral Top Journal Categories for the U

Ecology

Soil Science

Cummany	Trends	lour
Summary	rends	Journ

Competency EC #45

wildfire; fire; fires

nal Categories

	uting Institutions in the United States			overview
	different set of Institutions →		Publications in this field	Fractionalized publication count
1.	U.S. Geological Survey	United States	35	12.6
2.	U.S. Department of Agriculture	United States	40	9.9
3.	Colorado State University	United States	11	4.2
4.	University of Idaho	United States	12	4.1
5.	Oregon State University	United States	10	4.1
6.	Idaho State University	United States	7	3.1
7.	University of Florida	United States	7	2.9
8.	University of Colorado	United States	6	2.9
9.	University of Alaska Fairbanks	United States	4	2.3
10.	University of California at Davis	United States	3	2.2

Compare

Authors

Institutions

Methodology



fish meal; diet; fish

Summary	Trends	Journal Categories	Institutions	Authors	Compare	Methodology
20		Journal corregones			- compand	

Based on an analysis of publications over the period 2010-2014, SciVal has identified EC #10 as a emerging competency of the University of Idaho

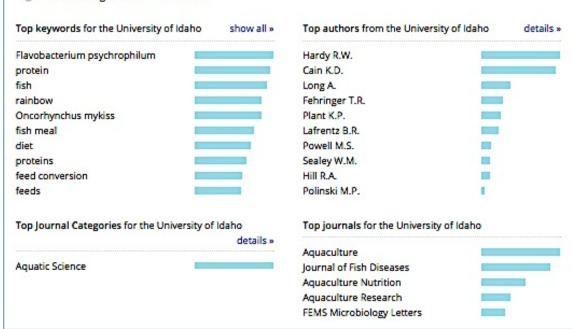
See why this field is an emerging competency of the University of Idaho

Publications in this field (2010-2014)

	Publications	Annual growth		Citations
Publications worldwide	968	-10.5%	٠	4,255
Publications in the United States	220	-6.5%	٠	1,350
Publications at the University of Idaho	29	+ 11.6%		198

Show the contribution to this field from:

- University of Idaho
- all contributing Institutions worldwide





fish meal; diet; fish

Trends Journal Categories Institutions Authors Compare Methodology Summary

Based on an analysis of publications over the period 2010-2014, SciVal has identified EC #10 as a emerging competency of the University of Idaho

See why this field is an emerging competency of the University of Idaho

Publications in this field (2010-2014)

	Publications	Annual growth		Citations
Publications worldwide	968	-10.5%	٠	4,255
Publications in the United States	220	-6.5%	٠	1,350
Publications at the University of Idaho	29	+ 11.6%		198



×

Shortcuts *

Export *

Show the contribution to this field from:

		_
	all contributing Institutions	C
-	- III	COL
0.0	all contributing institutions	

mpetency EC #10

fish meal; diet; fish

Top keywords for the University	Summary	Trends	Journal Categories	Institutions	Authors	Compare	Methodology

Flavobacterium psychrophilum protein fish

University of Idaho

rainbow

Oncorhynchus mykiss

fish meal diet

proteins

feed conversion

feeds

Top Journal Categories for the

Aquatic Science

Contributing	Institutions	in the	United States	;
--------------	--------------	--------	---------------	---

		uting Institutions in the United States			overviewbreak	down by keyword ‡
		ution		Publications in this field	Fractionalized publication count	
	1.	U.S. Department of Agriculture	United States	61	22.6	
	2.	University of Idaho	United States	29	17.6	
	3.	Auburn University	United States	21	9.3	_
	4.	Washington State University Pullman	United States	12	8.1	_
	5.	Texas A and M University	United States	17	6.3	_
2	6.	Mississippi State University	United States	13	4.5	-
	7.	Southern Illinois University	United States	14	4.3	_
	8.	US Fish & Wildlife Service	United States	8	4.0	_
	9.	The Ohio State University	United States	10	3.6	_
	10.	Michigan State University	United States	5	2.2	

Competency EC #14 fish; fishery; fisheries Trends Journal Categories Institutions Authors Compare Methodology Summary Based on an analysis of publications over the period 2010-2014, SciVal has identified EC #14 as a emerging competency of the University of Idaho See why this field is an emerging competency of the University of Idaho Publications in this field (2010-2014) Annual Publications growth Citations Publications worldwide +5.0% * 761 2,811 Publications in the United States 363 + 9.5% -1,311 Publications at the University of Idaho 11 +5.3% + 13 Show the contribution to this field from: University of Idaho all contributing Institutions worldwide Top keywords for the University of Idaho show all » Top authors from the University of Idaho details » fisheries Quist M.C. fishery McCormick J.L. Moffitt C.M. Idaho Anlauf K.J. angling Vierling K.T. bias sport fishing Sullivan S.M.P. Oncorhynchus tshawytscha lowa sports sport Top Journal Categories for the University of Idaho Top journals for the University of Idaho details » North American Journal of Fisheries Aquatic Science Ecology, Evolution, Behavior and Syst... Journal of Freshwater Ecology Sociology and Political Science Freshwater Biology Journal of Fish and Wildlife Management



fish; fishery; fisheries

Trends Journal Categories Institutions Authors Compare Methodology Summary

Based on an analysis of publications over the period 2010-2014, SciVal has identified EC #14 as a emerging competency of the University of Idaho

See why this field is an emerging competency of the University of Idaho

Publications in this field (2010-2014)

Publications	Annual growth		Citations
761	+ 5.0%		2,811
363	+ 9.5%		1,311
11	+ 5.3%		13
	761 363	Publications growth 761 + 5.0% 363 + 9.5%	Publications growth 761 + 5.0% * 363 + 9.5% *



×

Shortcuts *

Export *

Show the contribution to this field from:

 University of Idaho 	
	Competency EC #14

Idaho angling bias sport fishing

fish; fishery; fisheries

Top keywords for the Unive	Summary	Trends	Journal Categories	Institutions	Authors	Compare	Met

ethodology

fisheries Contributing Institutions in the United States fishery

te ter the state of	
View a different set of Institutions	•

Contributing Institutions in the United States		overview	breakdown by keyword ‡
View a different set of Institutions ▼			
	Publications	Fraction	

angling bias	Institution		Publications in this field	Fractionalized publication count
sport fishing	U.S. Geological Survey	United States	41	14.0
Oncorhynchus tshawytscha Iowa	2. University of Wisconsin	United States	20	11.3
sports	3. University of Florida	United States	22	9.1
sport	4. University of Idaho	United States	11	8.5
Top lournal Categories for	5. South Dakota State University	United States	14	8.1
Top Journal Categories for t	6. University of Nebraska	United States	12	7.7
Aquatic Science	7. Iowa State University	United States	14	6.8
Ecology, Evolution, Behavior	8. NOAA	United States	21	5.9
Sociology and Political Scien	9. Michigan State University	United States	17	3.5
	10. North Carolina State University	United States	8	3.3

University of Idaho Aquaculture Research Institute

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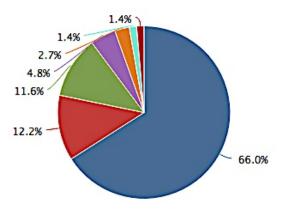
ID, United States Affiliation ID: 60015257 Other name formats: University of Idaho

Documents: 111 Authors: 12 Patent results: 235 Add to my list

Collaborating affiliations

Documents by source

University of Idaho USDA Agricultural Research Service, Washington DC University of Washington Seattle University Univers		Documents		Documents
Washington DC University of Washington Seattle University of Washington Seattle University of Washington Seattle University of Washington Seattle (Sear Springs Foods Incorporated Washington State University Pullman NOAA Northwest Fisheries Science Center Bozeman Fish Technology Center NOAA Northwest Fisheries Science Center Bozeman Fish Technology Center NOAA National Marine Fisheries Service Northwest Regional Office Purdue University Centro de Investigacion en Alimentacion Pussariolo Fish Physiology A Molecular and Integrative Physiology Comparative Biochemistry and Physiology A Molecular and Integrative Physiology Inited States Department of Agriculture 4 Ganeral and Comparative Endocrinology Idaho State University 4 Journal of Nutrition Volumities River Inter Tribal Fish Commission Commission University of Alaska Fairbanks 3 Comparative Biochemistry and Physiological Genomics Commission University of Alaska Fairbanks 3 Comparative Biochemistry and Physiology and Biochemistry Animal Feed Science and Technology University of Alaska Fairbanks 3 Comparative Biochemistry and Physiology and Biochemistry Physiology and Biochemistry Animal Feed Science and Technology University of Alaska Fairbanks 3 Comparative Biochemistry and Physiology Part D Genomics and Proteomics Proteomics Visional Autonoma de Nayarit VISINA Agricultural Research Service, Stoneville VISINA Agricultural Research Service Visional Minimal Science Visional Adminimal Science Visional Aquaculture Bamidgeh Ac. Visional Aquaculture Bamidgeh Journal of Aquaculture Bamidgeh Journal of Food Science Visional Iniversity Journal Of Aquaculture Bamidgeh Journal of Food Science Visional University of Maine Visional University Vintersity of Maine Visional Visional Visional Visional Adminimal Visional Ceance Visional Adminimal	University of Idaho	23	Aquaculture	25
University of Washington Seattle Clear Springs Foods Incorporated Washington State University Pullman NOAA Northwest Fisheries Science Center Bozeman Fish Technology Center NOADA Northwest Regional Office Purdue University Orange of Investigacion en Alimentacion y Desarrollo Aquaculture and Pathology Consulting United States Department of Agriculture Columbia River Inter Tribal Fish Commission University of Alaska Fairbanks University of Glasgow University of Idaska Fairbanks Texas A and M University West Vancouver Laboratory University Wash Small Grains and Potato Stoneward Research Center University of Wisconsin Milwaukee University of Wisconsin Milwaukee University of Wisconsin Milwaukee University of Wasconsin Milwaukee Wa		21	Journal of Fish Diseases	16
Clear Springs Foods Incorporated 12	Washington DC		Aquaculture Nutrition	15
Washington State University Pullman NOAA Northwest Fisheries Science Center Bozeman Fish Technology Center Bozeman Fish Technology Center NOAA National Marine Fisheries Service Northwest Regional Office Purdue University Service Northwest Regional Office Purdue University Service Purdue University Service Service Northwest Regional Office Purdue University Service Service Northwest Regional Office Purdue University Service Service Northwest Regional Office Purdue University Service Service Service Service Northwest Regional Office Purdue University Service	University of Washington Seattle		Aquaculture Research	12
NOAA Northwest Fisheries Science Center NOAA Northwest Fisheries Science Center NOAA National Marine Fisheries Service NOAA National Office Purdue University Centro de Investigacion en Alimentacion y Desarrollo Aquaculture and Pathology Consulting Aquaculture and Pathology Consulting Aquaculture and Pathology Consulting United States Department of Agriculture Idaho State University Idaho Fish and Game Animal Feed Science and Technology University of Alaska Fairbanks Animal Feed Science and Technology University of Alaska Fairbanks Commission University of Glasgow Cinvesta Vunidad Merida Texas A and M University West Vancouver Laboratory Universidad Autonoma de Nayarit Universidad Autonoma de Nayarit UsbA Agricultural Research Service, Stoneville Food Research and Development Center A.C. Western Fisheries Research Center University of Wisconsin Milwaukee USDA ARS Small Grains and Potato Germplasm Research Unit Landcatch Natural Selection Ltd National Center for Mariculture Israel Fishery Industrial Technology Center Landcatch Natural Selection Ltd National Oceanic and Atmospheric Autonome and Atmospheric A	Clear Springs Foods Incorporated	12	Journal of the World Aquaculture Society	4
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Bozeman Fish Technology Center 5 Biology NOAA National Marine Fisheries Service Northwest Regional Office 5 Journal of Fish Biology Purdue University 5 Physiology A Molecular and Integrative Physiology and Biochemistry and Physiology and Biochemistry Centro de Investigacion en Alimentacion y Desarrollo 5 Physiology and Biochemistry Aquaculture and Pathology Consulting 4 G3 Genes Genomes Genetics United States Department of Agriculture 4 General and Comparative Endocrinology Idaho State University 4 Journal of Nutrition Idaho State University 4 North American Journal of Aquaculture Columbia River Inter Tribal Fish 3 Physiological Genomics Commission 3 Physiological Genomics University of Alaska Fairbanks 3 Comparative Biochemistry and University of Glasgow 3 Physiology Part D Genomics and Proteomics 2 Developmental and Comparative Biochemistry and University of Maine 2 Developmental and Comparative Binumology Universidad Autonoma de Nayarit 2 Environmental Biology of Fishes <t< td=""><td></td><td>5</td><td></td><td>3</td></t<>		5		3
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Idaho State University Idaho Fish and Game Columbia River Inter Tribal Fish Commission University of Alaska Fairbanks University of Glasgow CINVESTAV Unidad Merida Texas A and M University West Vancouver Laboratory Universidad Autonoma de Nayarit USDA Agricultural Research Service, Stoneville Food Research and Development Center A.C. Western Fisheries Research Center University of Wisconsin Milwaukee USDA ARS Small Grains and Potato Germplasm Research Unit Landcatch Natural Selection Ltd National Center for Mariculture Israel National Oceanic and Atmospheric National Oceanic and Atmospheric Positione Science North American Journal of Aquaction Animal Fisheries Research Animal Science Animal Fisheries Research Animal Science Animal Fisheries Research Animal Science Marine Biotechnology Molecular Ecology North American Journal of Fisheries Management Antional Cocanic and Atmospheric	Aquaculture and Pathology Consulting	4	G3 Genes Genomes Genetics	2
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University of Alaska Fairbanks University of Glasgow CINVESTAV Unidad Merida Texas A and M University West Vancouver Laboratory Universidad Autonoma de Nayarit USDA Agricultural Research Service, Stoneville Food Research and Development Center A.C. Western Fisheries Research Center University of Wisconsin Milwaukee USDA ARS Small Grains and Potato Germplasm Research Unit Landcatch Natural Selection Ltd National Center for Mariculture Israel Fishery Industrial Technology Center National Oceanic and Atmospheric Acuniversity of Maine National Oceanic and Atmospheric Acuniversity of Maine National Oceanic and Atmospheric Acuniversity of Maine Animal Feed Science and Technology Comparative Biochonology Physiology Part D Genomics and Comparative Biochemistry and Developmental and Comparative Immunology Diseases of Aquatic Organisms Proteomics Developmental and Comparative Immunology Diseases of Aquatic Organisms Environmental Biology of Fishes Diseases of Aquatic Organisms Environmental Environmental municology Alamaner Adaptive in Echelogy North American Journal of Fisheries Management Research Management Research Management Research Management Research Management Research Management Research Re		3	Physiological Genomics	2
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USDA ARS Small Grains and Potato Germplasm Research Unit Landcatch Natural Selection Ltd National Center for Mariculture Israel Fishery Industrial Technology Center Cheju National University University of Maine National Oceanic and Atmospheric 2 Technology Journal of Food Science Latin American Journal of Aquatic Research Marine Biotechnology Molecular Ecology North American Journal of Fisheries Management National Oceanic and Atmospheric 2 Reviews in Fisheries Science	Western Fisheries Research Center	2	Journal of Applied Aquaculture	1
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Fishery Industrial Technology Center Cheju National University University of Maine National Oceanic and Atmospheric 2 Marine Biotechnology Molecular Ecology North American Journal of Fisheries Management Particular in Fisheries Science	National Center for Mariculture Israel	2		
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		2	Reviews in Fisheries Science	1





Evapotranspiration; Water supply; energy balance

Summary	Trends	Journal Categories	Institutions	Authors	Compare	Methodology

Based on an analysis of publications over the period 2010-2014, SciVal has identified DC #7 as a distinctive competency of the University of Idaho

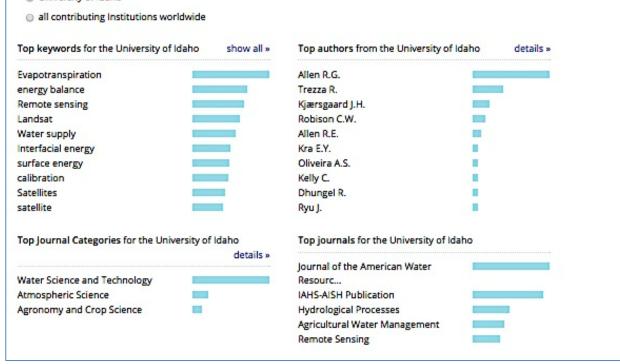
See why this field is a distinctive competency of the University of Idaho

Publications in this field (2010-2014)

	Publications	Annual growth		Citations
Publications worldwide	1,018	+ 5.2%		4,621
Publications in the United States	325	+ 4.6%	٠	2,401
Publications at the University of Idaho	36	+ 2.3%		305

Show the contribution to this field from:

University of Idaho





Evapotranspiration; Water supply; energy balance

Trends Journal Categories Institutions Authors Methodology Summary Compare

Based on an analysis of publications over the period 2010-2014, SciVal has identified DC #7 as a distinctive competency of the University of Idaho

See why this field is a distinctive competency of the University of Idaho

Publications in this field (2010-2014)

	Publications	Annual growth		Citations
Publications worldwide	1,018	+ 5.2%		4,621
Publications in the United States	325	+ 4.6%	٠	2,401
Publications at the University of Idaho	36	+ 2.3%		305



Show the contribution to this field from:

- University of Idaho
- all contributing Institutions w

Top keywords for the University of

Evapotranspiration energy balance Remote sensing Landsat Water supply Interfacial energy surface energy calibration Satellites

satellite

Top Journal Categories for the Ur

Water Science and Technology Atmospheric Science Agronomy and Crop Science

C		DC #7
Com	petency	DC #7

Evapotranspiration; Water supply; energy balance

Trends Journal Categories Institutions Authors Compare Methodology Summary

Contributing Institutions in the United States

ew a c	different set of Institutions 🕶				
Insti	tution		Publications in this field	Fractionalized publication count	
1.	University of Idaho	United States	36	21.4	
2.	U.S. Department of Agriculture	United States	64	17.6	
3.	Colorado State University	United States	24	11.1	
4.	University of Nebraska	United States	19	10.4	
5.	University of California at Davis	United States	16	10.0	
6.	South Dakota State University	United States	13	7.7	
7.	Utah State University	United States	18	7.5	
8.	U.S. Geological Survey	United States	23	6.2	
9.	Texas A and M University	United States	19	5.4	
10.	University of Arizona	United States	20	4.5	



overview

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Shortcuts *

Export *

breakdown by keyword ‡

Author

514 document results Choose date range to analyze: 2010 ▼

Source

Year

ge to analyze: 2010 ▼ to 2016 ▼ Analyze

Affiliation

Subject Area	Documents =
Environmental Science	231
Agricultural and Biological Sciences	146
Earth and Planetary Sciences	111
Engineering	81
Energy	45
Biochemistry, Genetics and Molec	43
Chemistry	38
Medicine	33
Materials Science	31
Physics and Astronomy	25
Chemical Engineering	23
Immunology and Microbiology	17
Social Sciences	16
Computer Science	14
Multidisciplinary	10
Mathematics	7
Pharmacology, Toxicology and Ph	6

Business, Management and Acco...

Economics, Econometrics and Fin...

Arts and Humanities

Health Professions

Total

3

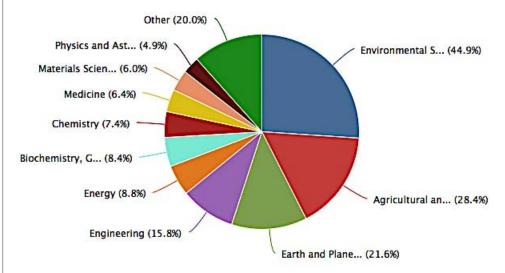
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514

Documents by subject area

Country/Territory



Document type

Subject area

Author

56 document results Choose date range to analyze: 2010 ▼

Year

Source

Affiliation

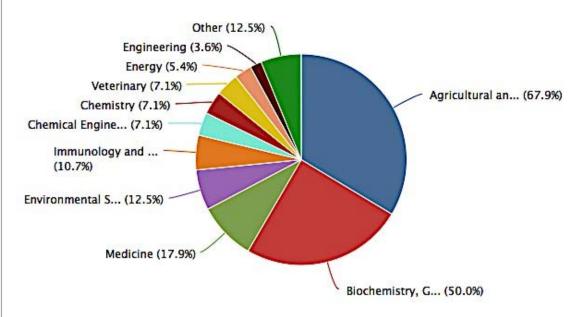
2015 -

Analyze

Country/Territory

Subject Area		Documents =
Agricultural and Biological Sciences		38
Biochemistry, Genetics and Molec		28
Medicine		10
Environmental Science		7
Immunology and Microbi	6	
Chemical Engineering	4	
Chemistry	4	
Veterinary		4
Energy		3
Engineering		2
Nursing		2
Business, Management and Acco		1
Economics, Econometrics and Fin		1
Materials Science		1
Physics and Astronomy		1
Social Sciences		1
Total	56	

Documents by subject area



Document type

Subject area

Summary

social network; governance approach; network analysis

Trends

Based on an analysis of publications over the period 2010-2014, SciVal has
identified EC #39 as a emerging competency of the University of Idaho

See why this field is an emerging competency of the University of Idaho

Publications in this field (2010-2014)

Publications worldwide 471 + 11.9% * 2,445

Publications in the United States 180 + 9.8% * 976

Publications at the University of Idaho 7 + 73.3% * 23

Journal Categories

Institutions

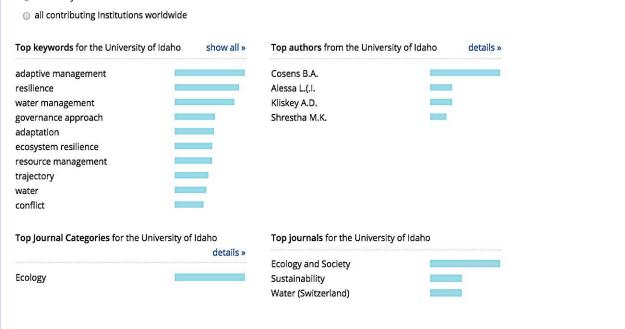
Authors

Compare

Methodology

Show the contribution to this field from:

University of Idaho





Competency EC #39

social network; governance approach; network analysis

Trends Journal Categories Institutions Authors Compare Methodology Summary

Based on an analysis of publications over the period 2010-2014, SciVal has identified EC #39 as a emerging competency of the University of Idaho

See why this field is an emerging competency of the University of Idaho

Publications in this field (2010-2014)

	Publications	Annual growth		Citations
Publications worldwide	471	+ 11.9%	•	2,445
Publications in the United States	180	+ 9.8%	•	976
Publications at the University of Idaho	7	+ 73.3%		23



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Export ▼ Shortcuts ▼

Show the contribution to this field from:

- University of Idaho
- all contributing Institutions worldw

Top keywords for the University of Idah

adaptive management resilience water management governance approach adaptation ecosystem resilience resource management trajectory water conflict

Top Journal Categories for the Universit

Ecology

Competency EC #39

social network; governance approach; network analysis

Journal Categories Summary Trends

Institutions Methodology Authors Compare

Contributing Institutions in the United States

View a different set of Institutions •

Instit	ution		Publications in this field	Fractionalized publication count	
1.	U.S. Environmental Protection Agency	United States	16	5.7	
2.	University of Arizona	United States	10	5.2	
3.	University of Idaho	United States	7	4.9	
4.	University of California at Davis	United States	12	4.3	
5.	University of New Mexico	United States	5	4.1	
6.	Syracuse University	United States	6	3.6	
7.	Florida State University	United States	8	2.7	
8.	Oregon State University	United States	5	2.7	
9.	U.S. Department of Agriculture	United States	6	2.5	
10.	University of Maryland	United States	8	2.4	

Competency EC #52

school; leadership; principal

Summary	Trends	Journal Categories	Institutions	Authors	Compare	Methodology

Based on an analysis of publications over the period 2010-2014, SciVal has identified EC #52 as a emerging competency of the University of Idaho

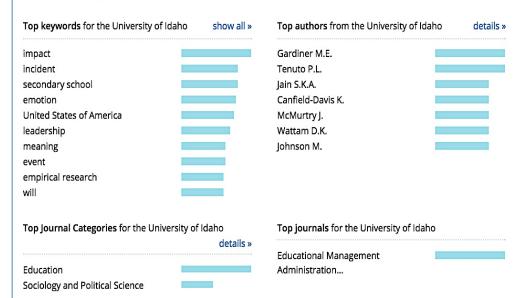
See why this field is an emerging competency of the University of Idaho

Publications in this field (2010-2014)

	Publications	Annual growth		Citations
Publications worldwide	348	-6.6%	•	1,081
Publications in the United States	120	+ 9.5%	A	625
Publications at the University of Idaho	2	+ 11.6%	•	0

Show the contribution to this field from:

- University of Idaho
- all contributing Institutions worldwide





Competency EC #52

school; leadership; principal

Journal Categories Authors Methodology Summary Trends Institutions Compare

Based on an analysis of publications over the period 2010-2014, SciVal has identified EC #52 as a emerging competency of the University of Idaho

See why this field is an emerging competency of the University of Idaho

Publications in this field (2010-2014)

Annual Publications growth Citations Publications worldwide 348 -6.6% 1,081 Publications in the United States 120 + 9.5% 625 Publications at the University of Idaho +11.6% 0



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Shortcuts ▼

Export ▼

Show the contribution to this field from:

University of Idaho Competency FC #57

all contributing Institutions worldy school; leadership; principal

Top keywords for the University of Ida
impact
incident
secondary school
emotion
United States of America
leadership
meaning
event
empirical research
will

Top Journal Categories for the Univer-
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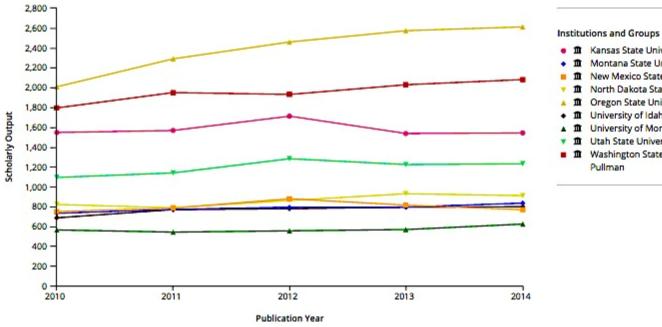
Education

Sociology and Political Science

Competency	LC TJZ
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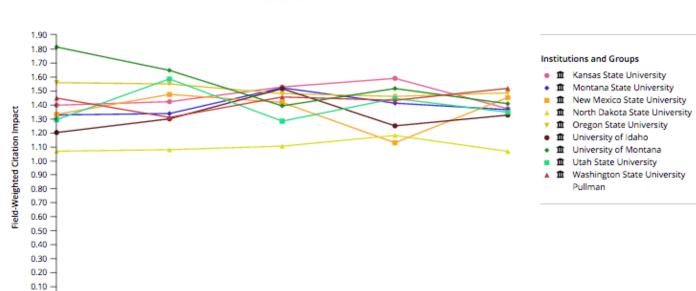
Trends Journal Categories Institutions Authors Compare Methodology

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		uting Institutions in the United States ifferent set of Institutions •			overview
	Instit	ution		Publications in this field	Fractionalized publication count
	1.	Clemson University	United States	6	3.7
	2.	University of Idaho	United States	2	1.8
	3.	North Carolina State University	United States	3	1.4
	4.	Vanderbilt University	United States	5	1.3
	5.	Florida Atlantic University	United States	5	1.3
ers	6.	University of Illinois at Urbana-Champaign	United States	4	1.3
C13	7.	SUNY Albany	United States	3	1.1
	8.	University of Maryland	United States	3	1.1
	9.	University of North Carolina	United States	2	1.0
	10.	Stanford University	United States	1	1.0





- 🏛 Kansas State University
- m Montana State University
- M New Mexico State University
- North Dakota State University
- Oregon State University
- University of Idaho
- University of Montana
- ▼ 🏛 Utah State University
- ★ Washington State University Pullman



2013

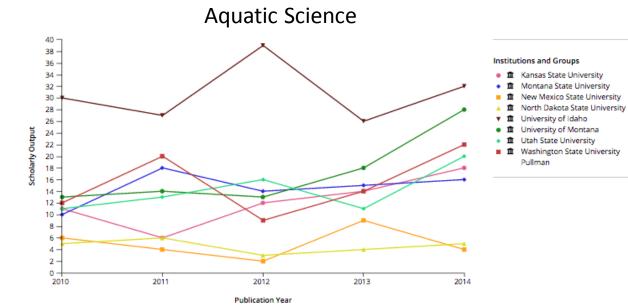
2014

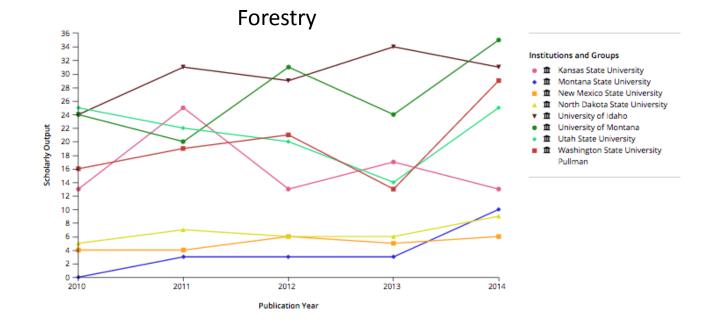
2012

Publication Year

0.00 2010

2011



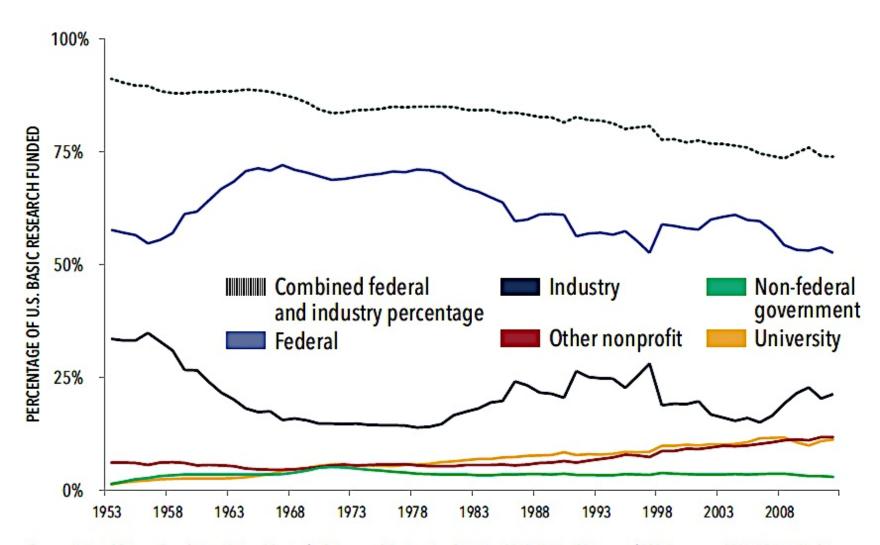




Corporate Collaborations



Who Funds Basic Research?



Source: National Science Foundation, National Center for Science and Engineering Statistics. 2013. National Patterns of R&D Resources: 2011–12 Data Update.



Government Collaborations

North America United States 4 4 4 4 4 5 1 4 5 6 6 6 6 6 7 6 7 7 7 7 7 7	3373	set filter		
Institution	Co-authored publications $\overline{\tau}$	Co-authors at the University of Idaho	Co-authors at the other institution	Field-Weigl \$
U.S. Department of Agriculture	365 *	268 *	416 *	1.82
Idaho National Laboratory	126 -	77 •	93 🕶	1.0
U.S. Geological Survey	113 •	95 •	113 •	2.8
Naval Research Laboratory	49 -	30 •	9 -	2.4
Jet Propulsion Laboratory, California Institute of Technology	43 •	18 *	50 *	4.5
NOAA	31 -	24 -	26 *	1.0
Pacific Northwest National Laboratory	28 *	31 🕶	55 •	1.3
Oak Ridge National Laboratory	20 🕶	17 🕶	24 🕶	7.2
Los Alamos National Laboratory	16 -	15	19 -	7.6
Lawrence Berkeley National Laboratory	15 -	28 -	24 -	7.6
NASA Goddard Space Flight Center	15 *	18 -	36 🕶	7.1
National Institutes of Health	12 -	21 -	52 -	12.6
NASA Ames Research Center	11 🕶	8 -	25 🕶	3.0
U.S. Environmental Protection Agency	10 🕶	7 •	12 •	0.9
Argonne National Laboratory	7 -	9 -	7 -	3.2
Jackson Laboratory	6 •	6 🕶	6 •	2.3
U.S. Nuclear Regulatory Commission	6	9	1	5.6
United States Army	6 •	6 •	10 🕶	0.5
National Center for Atmospheric Research	5	3	21	2.0
National Institute of Standards and Technology	4	7	7	0.0
Sandia National Laboratories NM	4 •	4 -	8 *	0.0
U.S. Department of Energy	4 •	6 •	4 -	0.2
U.S. Food and Drug Administration	4 •	6 •	4 •	13.25

Collaboration with Idaho National Laboratory

Year range: 2010 to 2015 Export ▼ Shortcuts ▼

Overview Current co-authors Potential co-authors

University of Idaho

77 co-authors with Idaho National Laboratory

Total output of this Institution

Citations	28,743
Citations per Publication	6.9
Field-Weighted Citation Impact	1.31
Publications	4,192
Authors	2,307 -

Co-authored publications

126 -

1 View list of publications

Citations	383
Citations per Publication	3.0
Field-Weighted Citation Impact	1.06

Idaho National Laboratory

93 co-authors with the University of Idaho

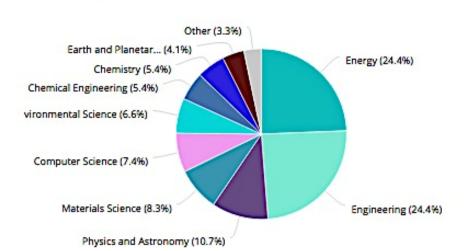
Total output of this Institution

Citations	6,539
Citations per Publication	3.1
Field-Weighted Citation Impact	1.00
Publications	2,086 •
Authors	934 •

×

Co-authored publications by Journal Category









Collaboration with the U.S. Department of Agriculture

Year range: 2010 to 2015 Export ▼ Shortcuts ▼

Overview

Current co-authors

Potential co-authors

University of Idaho

268 - co-authors with the U.S. Department of Agriculture

Total output of this Institution

Citations	28,743
Citations per Publication	6.9
Field-Weighted Citation Impact	1.31
Publications	4,192 -
Authors	2,307 -

Co-authored publications

365 -

View list of publications

Citations	3,272	
Citations per Publication	9.0	
Field-Weighted Citation Impact	1.82	

U.S. Department of Agriculture

416 - co-authors with the University of Idaho

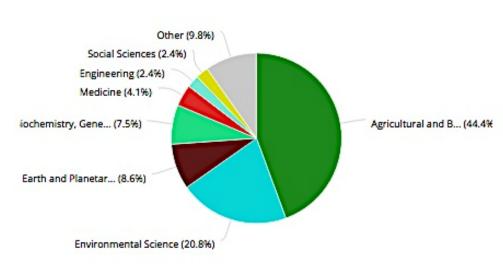
Total output of this Institution

Citations	216,482
Citations per Publication	7.1
Field-Weighted Citation Impact	1.43
Publications	30,639 -
Authors	12,428 -

×

Co-authored publications by Journal Category











International Collaborations



Collaboration with Sichuan University

Year range: 2010 to 2015 Export ▼ Shortcuts ▼

Overview Current co-authors Potential co-authors

University of Idaho

11 . co-authors with Sichuan University

Total output of this Institution

28,743	
6.9	
1.31	
4,192 -	
2,307 -	

Co-authored publications

21

View list of publications

Citations	1,097
Citations per Publication	52.2
Field-Weighted Citation Impact	3.14

Sichuan University

42 * co-authors with the University of Idaho

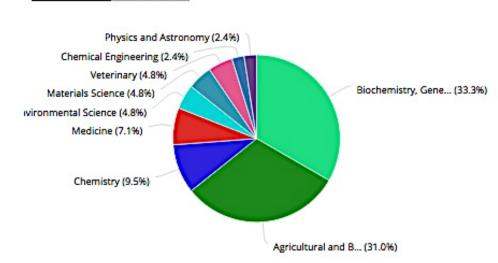
Total output of this Institution

Citations	132,093	
Citations per Publication	4.0	
Field-Weighted Citation Impact	0.86	
Publications	32,942	
Authors	32,096	

×

Co-authored publications by Journal Category

(Pie chart Bar chart







University of Idaho

Co-authors with Sichuan University

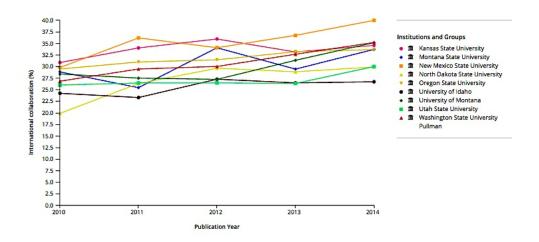


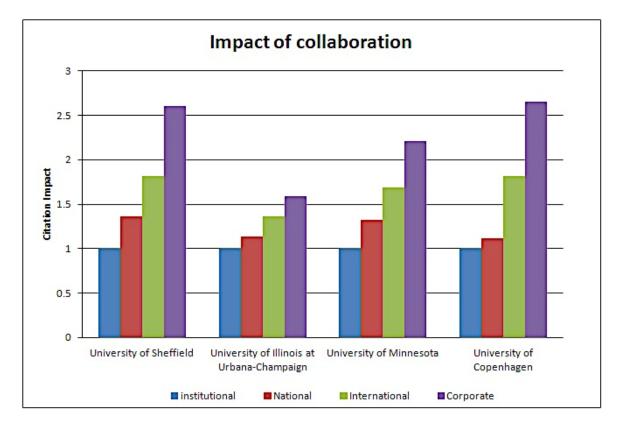


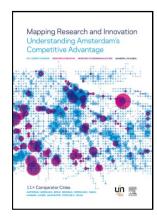
Co-authors with the University of Idaho

Author	Co-authored publications	Citations ‡
► Liu, Yongsheng	11	35
► Miao, Min	7	46
► Tang, Xiaofeng	7	40
▶ Liu, Jikai	5	19
► Tao, Guohong	3	61
▶ He, Ling	3	32
► Gao, Yongfeng	3	11
▶ Hou, Pei	3	4
▶ Zeng, Deer	3	4
► Huang, Shengxiong	2	27
► Li, Yuxiang	2	10
► Tian, Xuefen	2	10
► Sun, Xiaochun	2	9
► Cao, Ying	2	4
► Liu, Yongsheng	2	2
► Huang, Canhua	1	973
▶ Liu, Bo	1	973
► Fei, Zhangjun	1	19
▶ Lin, Lin	1	19
► Liu, Fangfang	1	19
Liu, Yongshengl	1	19
► Meng, Meng	1	19
▶ Min, Ya	1	19
► Sun, Jiaqi	1	19
▶ Tang, Wei	1	19
► Yu, Jinde	1	19
► Zhang, Xia	1	19
► Gao, Lanyang	1	8
▶ Zeng, Hui	1	8
► Li, Hanjing	1	7
▶ Deng, Heng	1	4
► Zhang, Peng	1	4
▶ Li, Xiao	1	2
► Tang, Zizhi	1	2
► Yang, Jian	1	2
▶ Zhao, Yun	1	2
► Zhao, Zhulu	1	2
► Fan, Jing	1	1
▶ Qiao, Maiju	1	1
► Yu, Guirong	1	1
► Zhang, Ni	1	1
	1	1



















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Questions and Discussion

Brad Fenwick B.Fenwick@Elsevier.com

