

Решения Elsevier в поддержке исследовательской деятельности

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Консультант по аналитическим решениям

Elsevier

Крым-2014, июнь 12, 2014



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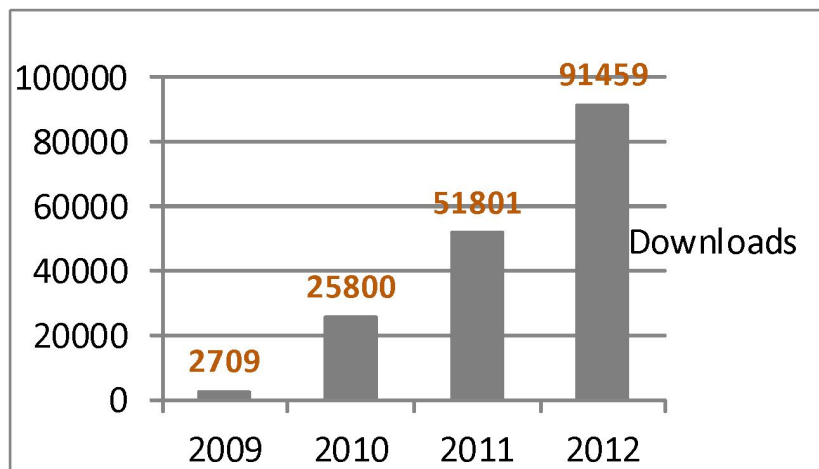
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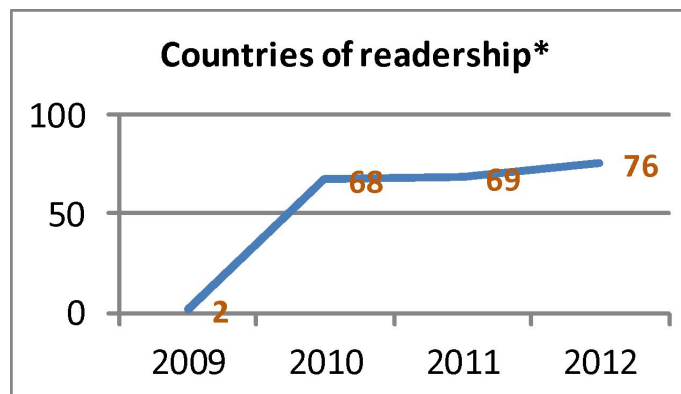


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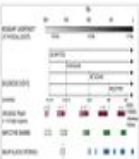


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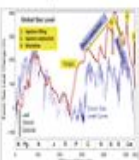


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Geoscience Frontiers

Volume 4, Issue 2, March 2013, Pages 185–194



Research paper

Speculations on the mechanisms for the formation and breakup of supercontinents

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Abstract

The supercontinent cycle has had a profound effect on the Earth's evolution since the Late Archean but our understanding of the forces responsible for its operation remains elusive. Supercontinents appear to form by two end-member processes: extroversion, in which the oceanic lithosphere surrounding the supercontinent (exterior ocean) is preferentially subducted (e.g. Pannotia), and introversion in which the oceanic lithosphere formed between dispersing fragments of the previous supercontinent (interior ocean) is preferentially subducted (e.g. Pangea). Extroversion can be explained by "top-down" geodynamics, in which a supercontinent breaks up over a geoid high and amalgamates above a geoid low. Introversion, on the other hand, requires that the combined forces of slab-pull and ridge push (which operate in concert after supercontinent break-up) must be overcome in order to enable the previously dispersing continents to turn inward. Introversion may begin when subduction zones are initiated along boundaries between the interior and exterior oceans and become trapped within the interior ocean. We speculate that the reversal in continental motion required for introversion may be induced by slab avalanche events that trigger the rise of superplumes from the core-mantle boundary.

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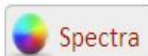
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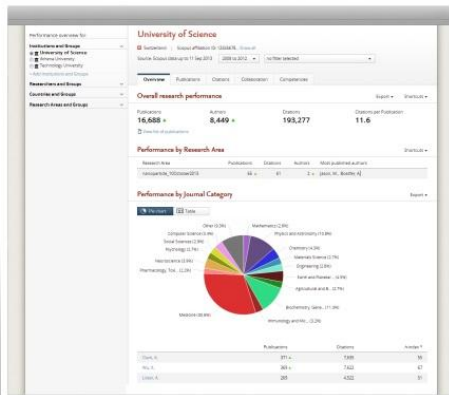
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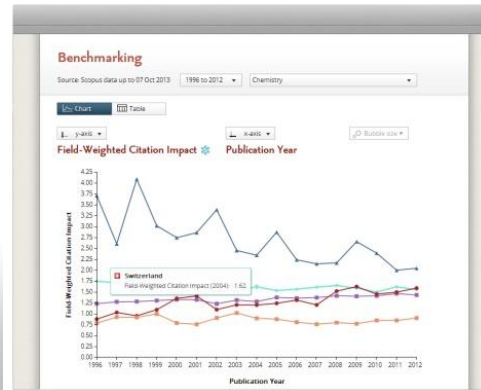
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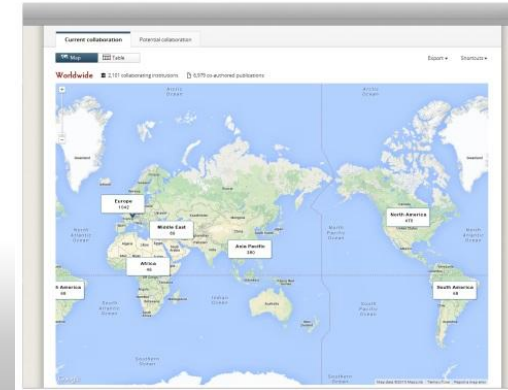
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Гибкость в создании и сравнении любых исследовательских наборов данных



Collaboration

Определение и анализ существующих и потенциальных возможностей сотрудничества





Получение всестороннего обзора и изучение деталей

Overview

Harvard University

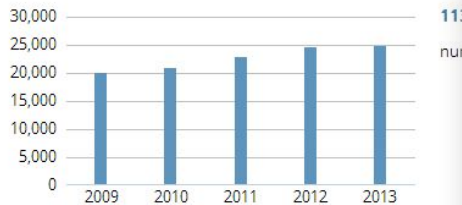
United States | Scopus affiliation ID: 60000650... Show all

Source: Scopus data up to 19 Mar 2014 | 2009 to 2013 | no filter selected

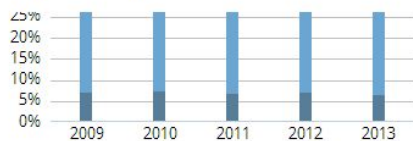
Summary **Publications** Citations Collaboration Competencies

Overall by Journal Category by journal

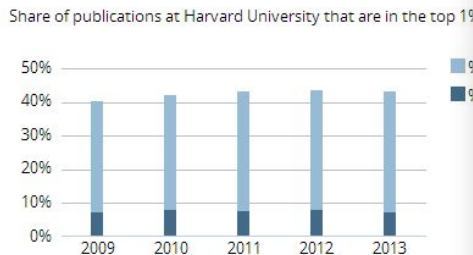
Scholarly Output



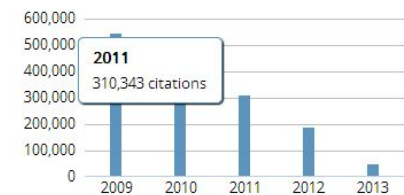
Outputs in Top Percentiles



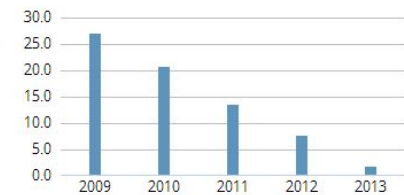
Publications in Top Journal Percentiles



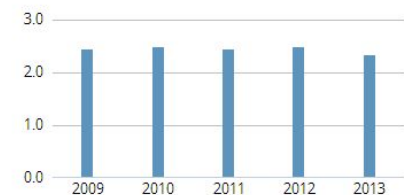
Citation Count



Citations per Publication



Field-Weighted Citation Impact



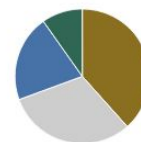
Навигация по тематическим закладкам по метрикам для получения всестороннего понимания выбранных исследовательских объектов основанных на публикациях, цитировании, сотрудничестве и компетенциях

Summary Publications Citations **Collaboration** Competencies

Overall Top collaborating Institutions

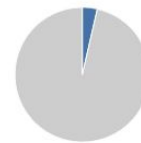
Collaboration

Publication output of Harvard University, by amount of international, national, and institutional co-authorship



- 38.4% International collaboration**
43,564 publications (38.4%) were co-authored with Institutions in other countries
Citations per Publication: 17.1
- 31.0% National collaboration**
35,233 publications (31.0%) were co-authored with other Institutions in the United States, but not with Institutions in other countries
Citations per Publication: 14.1
- 20.8% Institutional collaboration**
23,637 publications (20.8%) were co-authored with others at Harvard University, but not with other Institutions
Citations per Publication: 9.9
- 9.8% Single authorship**
11,084 publications (9.8%) were not co-authored but had a single author
Citations per Publication: 4.7

Academic-Corporate Collaboration



- 3.6% Academic-corporate collaboration**
4,083 publications (3.6%) had one or more authors with both academic and corporate affiliation
Citations per Publication: 31.3
- 96.4% No academic-corporate collaboration**
109,435 publications (96.4%) did not have authors with both academic and corporate affiliation
Citations per Publication: 12.8



Определение исследовательских компетенций и междисциплинарных исследовательских тем

Overview



Изучение карты компетенций для определения сильных сторон и новых исследовательских трендов в междисциплинарных областях.

Competency DC #1
Stroke; Muscles; Rehabilitation

Summary Trends Disciplines Institutions Authors Compare Methodology

Based on an analysis of publications over the period 2008-2012, ScVal has identified **DC #1** as a distinctive competency of Northwestern University. See why this field is a distinctive competency of Northwestern University.

Articles published in this field (2008-2012)

	Articles	Annual growth	Citations
Articles published worldwide	9,365	+4.6%	48,038
Articles published in the United States	3,459	+2.9%	23,531
Articles published at Northwestern University	440	+2.9%	2,823

Show the contribution to this field from:

- Northwestern University
- all contributing institutions worldwide

Top keywords for Northwestern University show all »

Muscles	██████████
Stroke	██████████
Biomechanics	██████████
Torque	██████████
Muscle, Skeletal	██████████
Reflex	██████████
Joints	██████████
Electromyography	██████████
Rehabilitation	██████████
Humans	██████████

Top authors from Northwestern University details »

Rymer W.Z.	██████████
Perreault E.J.	██████████
Heckman C.J.	██████████
Dewald J.P.A.	██████████
Kemper D.G.	██████████
Mussa-Ivaldi F.A.	██████████
Zhang L.	██████████
Hansen A.H.	██████████
Knikou M.	██████████
Hornby G.G.	██████████

Top disciplines for Northwestern University details »

Rehabilitation	██████████
General Neuroscience	██████████
Neurology (clinical)	██████████
Biomedical Engineering	██████████
Orthopedics and Sports Medicine	██████████

Top journals for Northwestern University

Journal of Neurophysiology	██████████
Proceedings of the Annual Internation...	██████████
Experimental Brain Research	██████████
Journal of Rehabilitation Research an...	██████████
Proceedings of the 31st Annual Intern...	██████████



Комбинация различных наборов метрик

Home Overview **Benchmarking** Collaboration My SciVal

Benchmarking

Source: Scopus data up to 23 Nov 2013 1996 to >2013 Chemistry

Chart Table

y-axis x-axis Bubble size

Scholarly Output Citations per Publication Collaboration

Collaboration

Extent of institutional, national and international co-authorship.

View:

- International collaboration
- National collaboration
- Institutional collaboration
- Single authorship

Show as:

- Percentage
- Absolute number

Include:

All publication types

Choose as bubble size

Collaboration

Change to a different metric below:

- Academic-Corporate Collaboration Impact
- Academic-Corporate Collaboration Impact
- Citation Count
- Citations per Publication
- Cited Publications

Collaboration

- Collaboration Impact
- Field-Weighted Citation Impact
- /Indices
- Journal Category Count
- Journal Count
- Number of Citing Countries
- Outputs in Top Percentiles
- Publications in Top Journal Percentiles
- Scholarly Output
- Don't show a third metric

Просмотр в виде графиков или таблицы.

Выбор любой комбинации метрик из вариативного пула

Name	Scholarly Output	Citations per Publication	International collaboration (%)
K Technology Institute	4,700	18.8	39.4
K University	2,015	14.2	21.1
N Institute of Science	1,011	17.8	17.9
N University	8,393	28.1	22.3
O University	12,753	18.0	19.1
S University	5,578	10.2	19.3
University M	919	6.7	37.4
University of C	8,596	24.9	44.7
University of Science	2,862	22.8	49.1
University of T	15,568	21.2	17.7

Набор метрик SciVal

Детальное изучение данных о вас в различных аспектах для определения ключевых сильных позиций

Productivity metrics



Scholarly Output



h -indices (h , g , m)

Citation Impact metrics



Citation Count



Citations per Publication

Cited Publications



h -indices (h , g , m)



Field-Weighted Citation Impact

Publications in Top Percentiles

Publications in Top Journal Percentiles

Collaboration Impact (geographical)



Academic-Corporate Collaboration Impact

Collaboration metrics

Authorship Count



Number of Citing Countries

Collaboration (geographical)

Academic-Corporate

Collaboration

Disciplinary metrics

Journal count

Journal category

count



Изучение потенциальных возможностей для сотрудничества

Collaboration

Доступ к списку организаций, ее экспертам, потенциальных для сотрудничества: у вас еще нет совместных публикаций, но есть схожие темы исследований.

SciVal User Help

Home Overview Benchmarking **Collaboration** My SciVal

View collaboration by:

Institutions and Groups

- Northwestern University
- Cornell University**
- University of Geneva
- Harvard University
- Peking University
- University of Cambridge
- Arizona
- + Add Institutions and Groups

Researchers and Groups

Publication Sets and Groups

Countries and Groups

Research Areas and Groups

Collaboration by Northwestern University

United States | Scopus affiliation ID: 60001590... Show all

Source: Scopus data up to 19 Mar 2014 | 2011 to 2013 | **Mathematics**

Current collaboration **Potential collaboration**

Map Table Export Shortcuts Find Institution

Institutions not yet collaborating with Northwestern University

South America | All countries | All sectors

141 not yet collaborating Institutions

Institution	Publications	Authors	Citations
CONICET	403	431	501
Comision Nacional de Energia Atomica	92	124	134
Comision de Investigaciones Cientificas de la Provincia de Buenos Aires	20	31	16
Fundacao Oswaldo Cruz	31	55	43
Fundacao Universidade Federal do Rio Grande	28	32	15
Instituto Militar de Engenharia	25	31	24
Instituto Nacional de Pesquisas Espaciais	118	155	127
Instituto Tecnologico de Aeronautica	86	94	97
Instituto Venezolano de Investigaciones Cientificas	29	38	10
Laboratorio Nacional de Computacao Cientifica	118	77	166
Petrobras	26	29	33
Pontificia Universidad Catolica de Chile	331	239	451
Pontificia Universidad Catolica de Valparaiso	84	82	117

no filter selected

- Agricultural and Biological Sciences
- Arts and Humanities
- Biochemistry, Genetics and Molecular Biology
- Business, Management and Accounting
- Chemical Engineering
- Chemistry
- Computer Science
- Decision Sciences
- Dentistry
- Earth and Planetary Sciences
- Economics, Econometrics and Finance
- Energy
- Engineering
- Environmental Science
- Health Professions
- Immunology and Microbiology
- Materials Science
- Mathematics**
- Medicine
- Multidisciplinary
- Neuroscience
- Nursing
- Pharmacology, Toxicology and Pharmaceutics
- Physics and Astronomy
- Psychology
- Social Sciences
- Veterinary

Без детального знания (аудита) своих текущих сил невозможно планировать и эффективно осуществлять научно-исследовательскую деятельность

- **Сколько времени и сколько департаментов надо задействовать, чтобы получить информацию/ отчет о текущих научных грантах в вашей организации, кто их получил, кто и как из ваших ученых и даже студентов какой научной деятельностью занимается и насколько эффективно?**

Pure: Международные стандарты



The European Organisation for
International Research Information

EuroCRIS - Некоммерческая организация, осуществляющая стандартизацию научно-исследовательских информационных систем и их взаимодействие.

Стандарт **CERIF**: Common European Research Information Format. Формат обязателен для отчетности по грантам EU. Согласован с методиками стат-наблюдения OECD.

REF2014

Research Excellence Framework (**REF**) – система аттестации качества научных исследований в Великобритании



Snowball Metrics

GLOBAL STANDARDS FOR INSTITUTIONAL BENCHMARKING

Стандартизованные метрики для оценки научных исследований



Какие данные поступают в Pure?

- **Внутренние системы**

- Отдел кадров - Студенты и преподавателей
- Бухгалтерия и финансы - Грантовый департамент

- **Архивные данные**

- Старые системы со списками публикаций, репозитории, данные о завершенных проектах, и т.п.

- **Внешние данные**

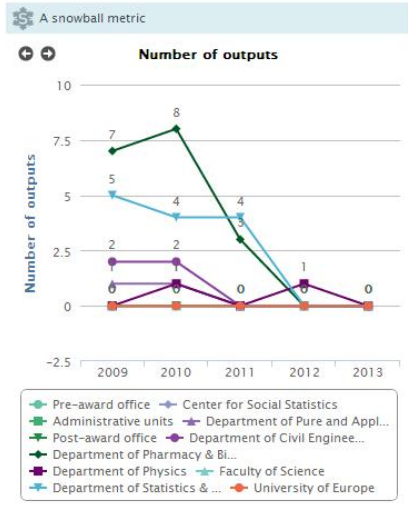
- Scopus, Web of Knowledge (Web of Science), InCites, SciVal, ArXiv, PubMed, etc.
- EU's FP7 project database, DFG's GEPRIS, RCUK's award database (in planning)

- **Ручной ввод данных**

- Actual data input
- Enrichment of synchronized or imported data
- Quality assurance of synchronized or imported data

Аналитика

Scholarly Output



Performance Indicators by calendar year

Year	Organisation	Value	Goal	Deviation
2009	University of Europe	15	0	15
2010	University of Europe	15	12	3
2011	University of Europe	7	0	7
2012	University of Europe	1	8	-7
2013	University of Europe	0	26	-26

SNOWBALL - Number of scholarly outputs - Research output

Year	Organisation	Value	Goal	Deviation
2009	University of Europe	15	0	15
2010	University of Europe	15	12	3
2011	University of Europe	7	0	7
2012	University of Europe	1	8	-7
2013	University of Europe	0	26	-26

Collaboration between people

View as graph

	Liza F White	Chris Robertson	Richard Williams	Ian Smith	Michael Cousin	Debbi MacMillan	Helen Keenan	Patrick Becker	Peter Cormack	Edmund Cussen	Christine Dufes	Bob Kalin	Elizabeth Ellis	Jim Smith	Mary Ann Wright
Liza F White		10	2	1	1										
Chris Robertson	10		1												
Richard Williams	2	1		5	1										
Ian Smith	1	5			1	2									
Michael Cousin						1					1			1	1
Debbi MacMillan	1	1	1	1											
Helen Keenan			2				1					2			
Patrick Becker							1								
Peter Cormack										3					
Edmund Cussen									3						
Christine Dufes					1								2		
Bob Kalin							2								
Elizabeth Ellis											2				
Jim Smith					1										1
Mary Ann Wright					1										1

Research Output Types



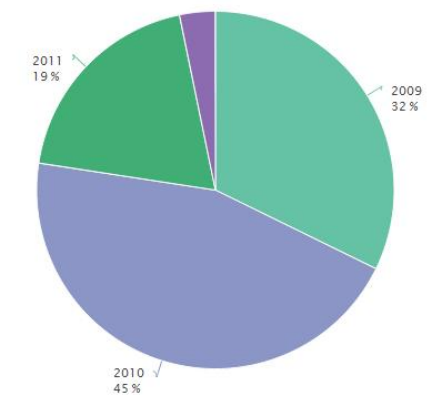
Performance Indicators by academic year

Year	Organisation	Value	Goal	Deviation
------	--------------	-------	------	-----------

Book Chapters - Research output

Year	Organisation	Value	Goal	Deviation
2009	University of Europe	0	0	0
2010	University of Europe	0	4	-4
2011	University of Europe	0	0	0
2012	University of Europe	0	10	-10
2013	University of Europe	0	12	-12

Peer Reviewed by year



Подготовка отчетов

Choose a content type

EDITORIAL

- Activities
- Applications / Funding C
- Impacts
- Press clippings
- Projects C
- Funded Projects
- Non-funded Projects
- Research output
- Student theses

REF2014

- REF1 a/c (Staff REF2014) C
- REF1 b (ISC REF2014)
- REF2 (Outputs REF2014)
- REF3a (Impact template)
- REF3b (Impact case study)
- REF5 (Environment template)
- Units of assessment C

MASTER DATA

- Equipment/facilities
- Events
- External organisations

Matrix (analysis)

Organisation	2005	2006	2007	2008	2009	2010
Faculty Of Science	386	350	339	817	784	125
Faculty Of Engineering	311	376	331	663	712	231
Professional Services	69	73	63	39	49	12
Faculty Of Law, Arts And Social Sciences	134	119	100	202	216	164
Faculty Of	78	70	104	198	274	89

Combined content

	Articles		Chapter	Awards	Total awards
	Count	Count	Count	Count	
Aerospace Engineering	807	259	38	28,126,11	
Pharmacology	82	3	0	n/a	
Mathematics	93	10	0	n/a	
Institute Of Photonics	395	50	90	21,003,20	
Bioscience	5	0	0	n/a	
Pure Chemistry	1624	56	509	42,114,68	
Pharmaceutical Sciences	53	1	0	n/a	
Chemical Engineering	388	27	110	6,552,30	
Information Sciences	374	121	80	5,226,20	

Table (analysis)

Organisation	Author's gender	Research output year	Count
Faculty Of Science	Female	2008	291
		2009	265
	Male	2008	702
		2009	647
Faculty Of Engineering	Female	2008	165
		2009	2010

Chart (analysis)

Table

Title	Type	pages
RAG Test	Article	n/a
An experimental and finite element study of the low-cycle fatigue failure of a galvanised steel lightning column	Paper	n/a
Temperature gradient effects on moisture transport in porous building materials	Article	11
An optimal gains matrix for time-delay feedback control	Paper	n/a

Scheduled execution

Interval: Quarterly

Language: English

Output format:

PDF

Word

Excel


HTML


Recipient email addresses:

cd.james@elsevier.com


Raw data spreadsheet

Страница ученого



DK



VBN - RESEARCHER

[Overview](#) [Publications](#) [Projects](#) [Activities](#) [Press clippings](#) [Journals](#) [Publishers](#)



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[Ditipology : a short tutorial](#) [Published](#)
Report chapter
[Preface : Proceedings of the workshop on Geometric and Topological Methods in Computer Science \(GETCO\) 2010](#) [Published](#)
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Project
[Directed lifting properties](#)
Project
[Geometric analysis of mutual exclusion models](#)
Project

Activities (1)
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Participation in Interview for Printed Media
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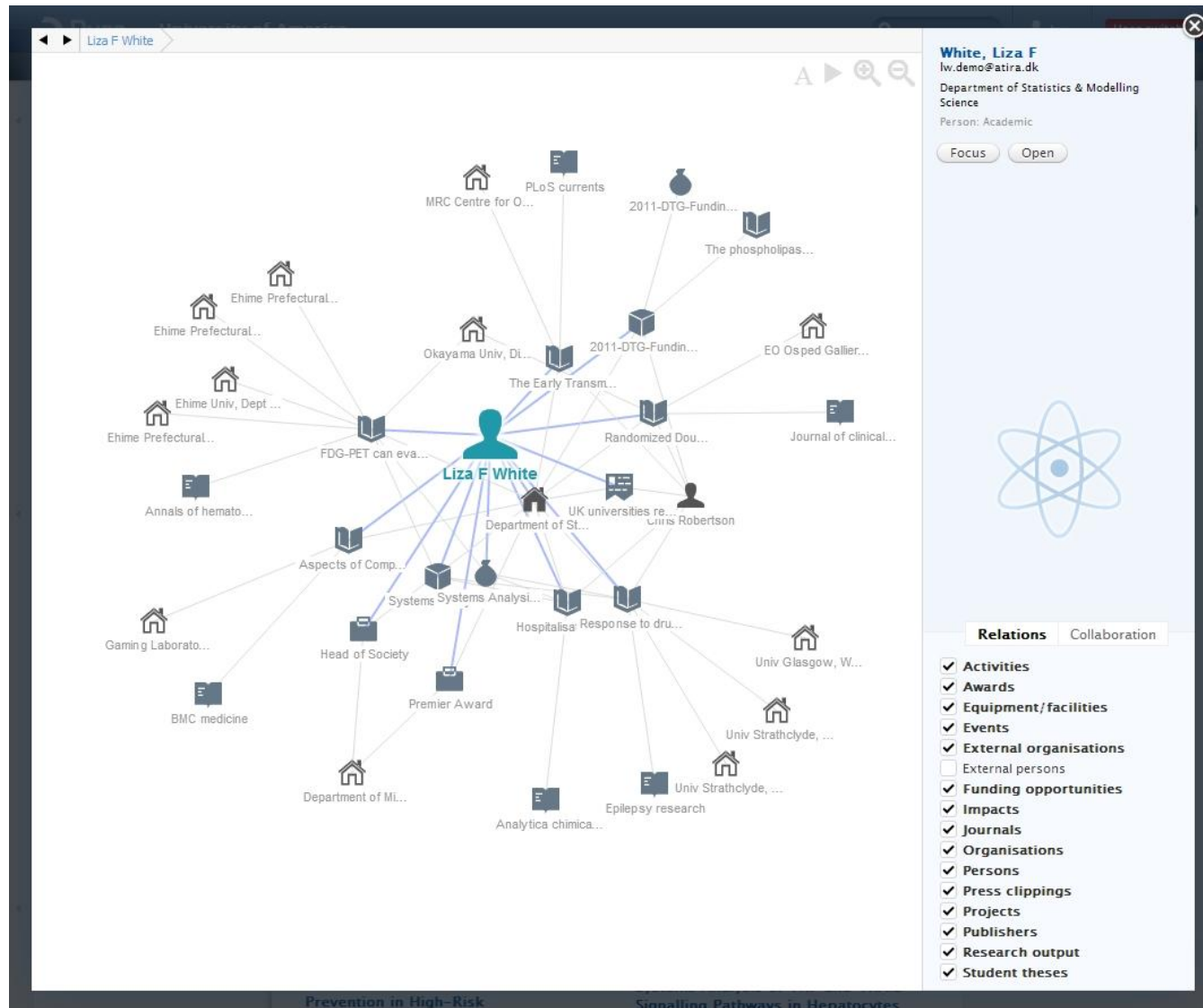
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Press clipping
[En ud af fem piger dumper matematik](#)
Press clipping
[Folkeskolen taber matematik-talenter](#)
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United States

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Взаимосвязи ученого



Основные группы пользователей Pure

Pure позволяет администраторам науки:

- Проводить мониторинг и управление всем жизненным циклом исследований, от получения грантов и практического осуществления, до получения наград и смежных проектов
- Устанавливать цели выполнения проектов с помощью настраиваемых показателей и отслеживать прогресс их выполнения
- Просматривать аналитику высокого уровня или перейти к детальным данным по отдельным исследователям или проектам
- Создавать и распространять отчеты по любым данным Pure в режиме реального времени
- Поддержка национальных систем оценки научных исследований (EuroCRIS, REF2014 и т.п.)

Pure позволяет ученым:

- Легко управлять своими авторскими профилями и резюме с помощью автоматического добавления публикаций, а также предоставлять их как дополнение к заявке на грант
- Повышать свою персональную видимость, автоматически публикуя свои достижения онлайн
- Создавать отчеты о своей деятельности для продвижения по службе и для заявок на доп. финансирование
- Автоматическое заполнение институционального репозитория данными из персонального профиля (например DSpace, ePrints, FEDORA, Equella и др.)

