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Nixon, William J.; Lipitakis, Evangelia A. E. C.
2014

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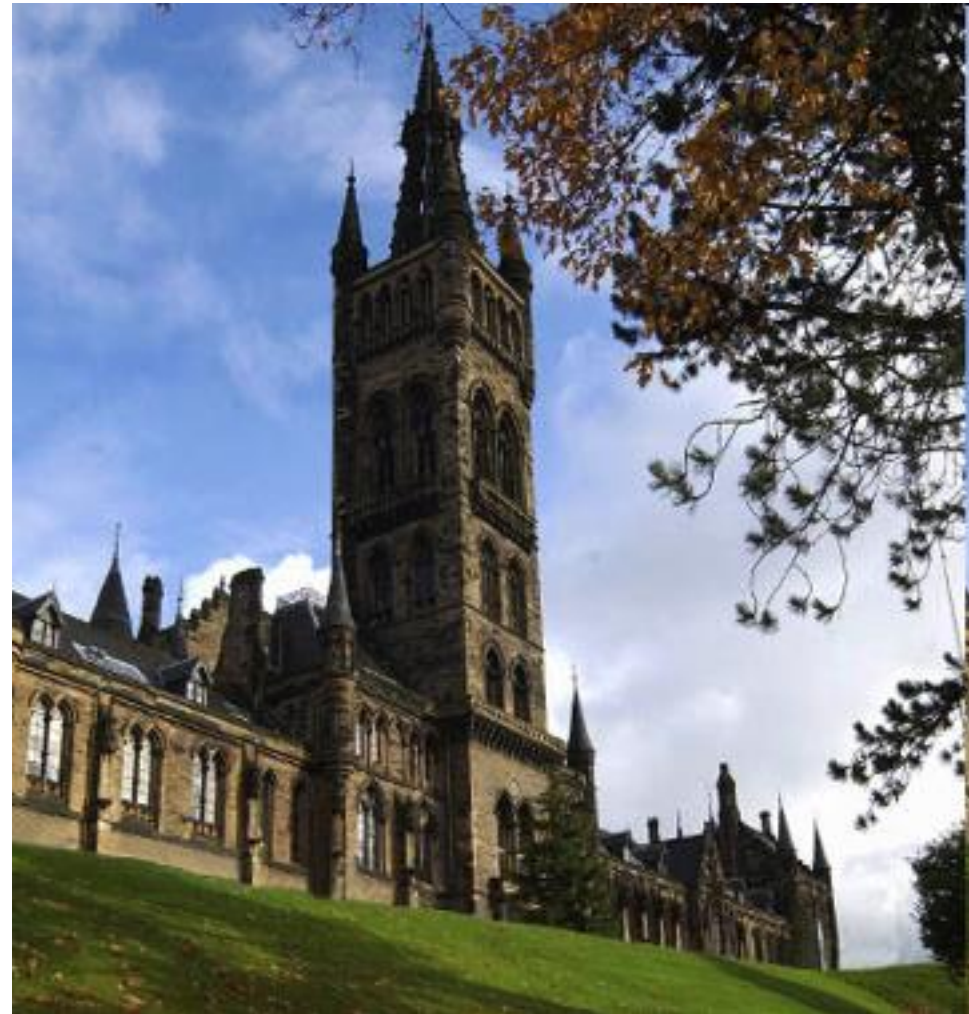
Bibliometrics at the University of Glasgow

William J Nixon
Head of Digital Library Services

Strategic Management of Research and the Role of Bibliometrics,
Prague, October 2014



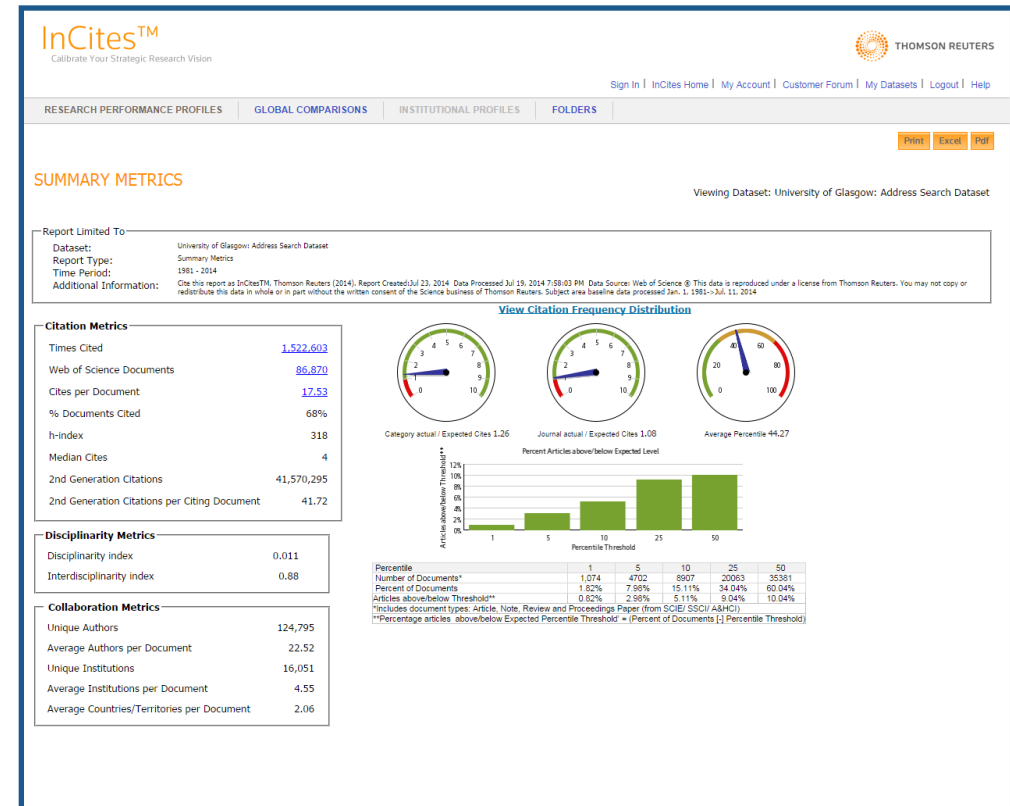
- Founded in 1451
- 2nd oldest University in Scotland (4th UK)
- 6,000+ Staff
 - 2000 Researchers
- 26K Students
 - 16K UGs / 6K PGs
- In top 1% of world universities
- 94th in THE 2015 Rankings
- In the UK's top 10 earners for research
- Rated 3rd in the UK for international student satisfaction



- Web of Science
- InCites
- Journal Citation Reports
- Scopus
- Journal and Country Rankings
- Google Scholar and tools to analyse its data, such as Publish or Perish



- Citations are normalised by discipline, date and journal
- Provides essential context for raw citation counts
- Identifies areas of strength (and weakness)
- Allows easy benchmarking with other researchers, departments and institutions
- Enables identification of potential collaborators
- Using a mix of old and new InCites




- Research Excellence Framework
- Citation data will be used by 11 panels to inform their decisions
- University carried out an internal 'mini-REF' exercise
- Library supplied citation data from InCites to relevant panels
- Citation data provided essential check in addition to peer review



REF2014
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Dataset: University of Glasgow: Address Search Dataset

Report Type: Source Articles Listing

Time Period: 2008 - 2013

Subject Areas: OPTICS

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Times Cited	Journal Expected Citations	Category Expected Citations	Journal Actual/Expected Citations	Category Actual/Expected Citations	Percentile in Subject Area	2012 Journal Impact Factor	Publication Year	Subject Area View Ranking	Document Type View Ranking	First Author View Ranking	Journal View Ranking	Document Title	Volume	Page
185	46.38	54.69	3.99	3.38	0.13	7.98	2008	OPTICS	REVIEW	FRANKE-ARNOLD, S et al.	LASER & PHOTONICS REVIEWS	Advances in optical angular momentum	2	299-313
129	35.43	5.00	3.64	25.80	0.06		2011	OPTICS	ARTICLE	YAO, AM et al.	ADVANCES IN OPTICS AND PHOTONICS	Orbital angular momentum: origins, behavior and applications	3	161-204
113	37.30	32.77	3.03	3.45	0.26	2.44	2009	OPTICS	REVIEW	DENNIS, MR et al.	PROGRESS IN OPTICS, VOL 53	Singular Optics: Optical Vortices and Polarization Singularities	53	293-363
98	122.19	29.33	0.80	3.34	0.09	27.25	2011	OPTICS	REVIEW	PADGETT, M et al.	NATURE PHOTONICS	Tweezers with a twist	5	343-348
70	16.99	9.15	4.12	7.65	1.05	3.55	2008	OPTICS	ARTICLE	GIBSON, GM et al.	OPTICS EXPRESS	Measuring the accuracy of particle position and force in optical tweezers using high-speed video microscopy	16	14561-14570
68	16.99	9.15	4.00	7.43	1.13	3.55	2008	OPTICS	ARTICLE	ZAIN, ARM et al.	OPTICS EXPRESS	Ultra high quality factor one dimensional photonic crystal/photonic wire micro-cavities in silicon-on-insulator (SOI)	16	12084-12089
63	7.57	5.00	8.32	12.60	0.26	3.38	2011	OPTICS	ARTICLE	MA, Y et al.	OPTICS LETTERS	A terahertz polarization insensitive dual band metamaterial absorber	36	945-947

- University of Glasgow Singapore
- Identified collaborations between Glasgow and Singapore
- Identified the most highly cited Glasgow staff by Singapore researchers

BEng (Honours) in
Aeronautical Engineering
in partnership with the
Singapore Institute of
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Time Period: 1979 - 2013
Countries/Territories: SINGAPORE
Subject Areas: ENGINEERING, AEROSPACE, ENGINEERING, BIOMEDICAL, ENGINEERING, CHEMICAL, ENGINEERING, CIVIL ENGINEERING, ELECTRICAL & ELECTRONIC, ENGINEERING, ENVIRONMENTAL, ENGINEERING, GEOLOGICAL, ENGINEERING, INDUSTRIAL, ENGINEERING, MANUFACTURING, ENGINEERING, MARINE, ENGINEERING, MECHANICAL, ENGINEERING, MULTIDISCIPLINARY, ENGINEERING, OCEAN, ENGINEERING, PETROLEUM, PHYSICS, APPLIED, PHYSICS, ATOMIC, MOLECULAR & CHEMICAL, PHYSICS, CONDENSED MATTER, PHYSICS, FLUIDS & PLASMAS, PHYSICS, MATHEMATICAL, PHYSICS, MULTIDISCIPLINARY, PHYSICS, NUCLEAR, PHYSICS, PARTICLES & FIELDS

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Rank	Institution	Times Cited	Web of Science Documents	Average Cites per Document
1	NATL UNIV SINGAPORE	5,483	387	14.17
2	NANYANG TECHNOL UNIV	2,934	324	9.06
3	AGCY SCI TECHNOL & RES A STAR	2,361	218	10.83
4	UNIV SYDNEY	382	2	191.00
5	QUEEN MARY UNIVERSITY OF LONDON	309	2	154.50
6	UNIVERSITY OF SOUTHAMPTON	301	3	100.33
7	RICE UNIV	293	1	293.00
7	UNIV STUTTGART	293	1	293.00
9	DUKE UNIV	266	4	66.50
10	UNIVERSITY OF OXFORD	246	5	49.20
11	JOHNS HOPKINS UNIV	244	5	48.80
12	MIT	232	13	17.85
13	PACIFIC NW NATL LAB	229	1	229.00
14	UNIVERSITY OF CALIFORNIA	229	1	229.00

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This dataset contains 86,870 source articles from 124,795 authors published between 1981 and 2014. This dataset also contains 996,509 articles that have cited the 86,870 source articles in this dataset. Data updated from the Web of Science on Jul 19, 2014.

University of Glasgow: Author Profile Dataset

This dataset contains 30,753 source articles from 80,256 authors published between 1981 and 2014. This dataset also contains 478,743 articles that have cited the 30,753 source articles in this dataset. Data updated from the Web of Science on May 19, 2014.

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Count	Add	Authors
0	+	PAAPE, DANIEL
289	+	PADGETT, MILES
3	+	PADMANABHAN, NEAL
79	+	PADMANABHAN, SANDOSH
27	+	PAGE, ANTONY
48	+	PAGE, RODERIC
2	+	PAISEY, CATRIONA

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146	+	COLLEGE OF SCIENCE & ENGINEERING ADMIN
2330	+	COLLEGE OF SOCIAL SCIENCES
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Dataset: University of Glasgow: Author Profile Dataset

Report Type: Source Articles Listing

Time Period: 2009 - 2014

Departments: COLLEGE OF SCIENCE & ENGINEERING, COLLEGE OF SCIENCE & ENGINEERING ADMIN

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Documents 1 - 20 of 5,623 Sort By: Times Cited ▼

Times Cited	Journal Expected Citations	Category Expected Citations	Journal Actual/Expected Citations	Category Actual/Expected Citations	Percentile in Subject Area	2012 Journal Impact Factor	Publication Year	Subject Area View Ranking	Document Type View Ranking	First Author View Ranking	Journal View Ranking	Document Title	Volume	Page
1287	12.28	4.09	104.80	314.67	0.00	4.57	2012	PHYSICS, MULTIDISCIPLINARY	ARTICLE	AAD, G et al.	PHYSICS LETTERS B	Observation of a new particle in the search for the Standard Model Higgs boson with the ATLAS detector at the LHC	716	1-29
555	114.60	58.37	4.84	9.51	0.06	13.73	2010	CHEMISTRY, MULTIDISCIPLINARY	REVIEW	LONG, DL et al.	ANGEWANDTE CHEMIE-INTERNATIONAL EDITION	Polyoxometalates: Building Blocks for Functional Nanoscale Systems	49	1736-1758
444	334.00	39.70	1.33	11.18	0.01	1.66	2008	INSTRUMENTS & INSTRUMENTATION	REVIEW	AAD, G et al.	JOURNAL OF INSTRUMENTATION	The ATLAS Experiment at the CERN Large Hadron Collider	3	
424	187.48	71.98	2.26	5.89	0.18	13.73	2009	CHEMISTRY, MULTIDISCIPLINARY	REVIEW	SENN, HM et al.	ANGEWANDTE CHEMIE-INTERNATIONAL EDITION	QM/MM Methods for Biomolecular Systems	48	1198-1229
389	134.05	13.15	2.90	29.58	0.07	35.75	2009	MATERIALS SCIENCE, MULTIDISCIPLINARY	ARTICLE	FAN, ZY et al.	NATURE MATERIALS	Three-dimensional nanowire-array photovoltaics on low-cost and flexible substrates	8	648-653
374	77.40	54.60	4.83	6.85	0.07	13.23	2009	PHYSICS, MULTIDISCIPLINARY	REVIEW	ABBOTT, BP et al.	REPORTS ON PROGRESS IN PHYSICS	LIGO: the Laser Interferometer Gravitational-Wave Observatory	72	
325	10.86	5.38	29.93	60.41	0.01	5.32	2011	BIOTECHNOLOGY & APPLIED MICROBIOLOGY	ARTICLE	EDGAR, RC et al.	BIOINFORMATICS	iChime improves sensitivity and speed of chimera detection	27	2194-2200
325	76.35	15.37	4.26	21.15	0.09	23.56	2009	BIOCHEMICAL RESEARCH METHODS	ARTICLE	QUINCE, C et al.	NATURE METHODS	Accurate determination of microbial diversity from 454 pyrosequencing data	6	639-647

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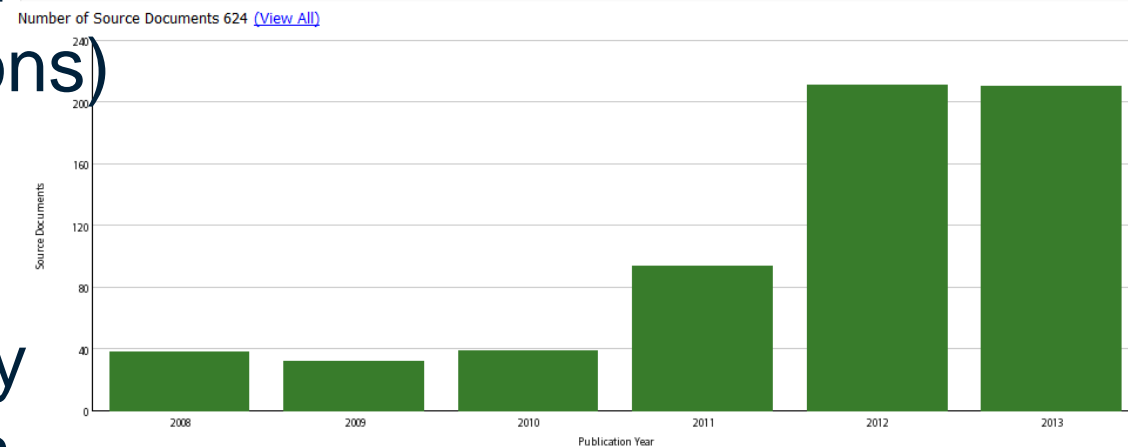
Dataset: University of Glasgow: Author Profile Dataset
Report Type: Journal Ranking
Time Period: 2008 - 2014
Departments: COLLEGE OF SCIENCE & ENGINEERING, COLLEGE OF SCIENCE & ENGINEERING ADMIN
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Sort By:

Rank	Journal	Times Cited	Web of Science Documents	Average Cites per Document	Journal Actual/Expected Citations	Category Actual/Expected Citations	Average Percentile
1	PHYSICAL REVIEW LETTERS	6,012	222	27.08	1.22	3.41	18.18
2	PHYSICS LETTERS B	4,265	146	29.21	2.64	5.45	16.47
3	PHYSICAL REVIEW D	3,275	199	16.46	1.41	1.79	31.11
4	ANGEWANDTE CHEMIE-INTERNATIONAL EDITION	2,313	54	42.83	1.23	2.88	25.89
5	JOURNAL OF THE AMERICAN CHEMICAL SOCIETY	1,549	44	35.20	1.14	2.39	18.26
6	OPTICS EXPRESS	1,231	85	14.48	1.49	2.56	24.55
7	JOURNAL OF INSTRUMENTATION	1,187	26	45.65	0.98	4.28	54.18
8	EUROPEAN PHYSICAL JOURNAL C	1,135	82	13.84	1.69	2.11	31.35
9	CLASSICAL AND QUANTUM GRAVITY	1,046	60	17.43	1.80	1.74	32.60
10	SCIENCE	997	22	45.32	0.64	4.60	7.13
11	ASTROPHYSICAL JOURNAL	809	49	16.51	1.23	1.81	42.19
12	JOURNAL OF HIGH ENERGY PHYSICS	780	100	7.80	1.02	1.35	48.80
13	PHYSICAL REVIEW C	715	43	16.63	1.62	3.24	28.40
14	APPLIED PHYSICS LETTERS	706	55	12.84	1.37	1.87	37.10
15	NATURE MATERIALS	676	4	169.00	1.61	15.61	0.58
16	BIOINFORMATICS	671	10	67.10	2.56	5.79	13.17

- Identification of publications which Glasgow staff have co-authored with particular countries (and institutions) for Recruitment and International Office
- Ranked data by country including times cited as well as records in WoS



*To view the source documents for a particular year click the associated bar in the chart or the year on the x axis

Person Name or ID	Name	Rank	Web of Science Documents	Normalized Citation Impact	Times Cited	% Docs Cited
Organization Name: University of Glasgow	SCOTLAND	1	25,833	1.66	234,402	58%
	ENGLAND	2	7,203	2.29	106,813	71%
	USA	3	4,312	3.17	90,209	74%
	GERMANY (FED REP GER)	4	2,783	3.15	68,529	79%
	ITALY	5	2,326	3.36	56,706	80%
	FRANCE	6	2,070	3.54	51,470	79%
	NETHERLANDS	7	1,826	3.68	50,317	77%
	CANADA	8	1,806	3.7	46,878	78%
	SPAIN	9	1,769	3.65	45,995	82%
	AUSTRALIA	10	1,552	3.68	39,757	73%
	SWITZERLAND	11	1,523	3.42	39,537	82%
	SWEDEN	12	1,203	4.53	36,482	75%
	JAPAN	13	1,116	3.19	27,508	84%
	RUSSIA	14	1,174	3.14	27,455	87%
	POLAND	15	934	3.61	23,030	82%
	DENMARK	16	756	4.22	22,365	79%
	FINLAND	17	600	3.95	22,046	86%
	NORWAY	18	754	4.39	22,025	78%
	BELGIUM	19	658	4.91	20,884	76%
	GREECE	20	871	3.42	19,727	86%
	AUSTRIA	21	678	3.98	18,567	75%
	CHINA MAINLAND	22	881	3.66	18,264	80%
	BRAZIL	23	694	3.81	17,746	81%
	ISRAEL	24	509	4.41	16,365	82%
	HUNGARY	25	483	4.24	15,852	83%


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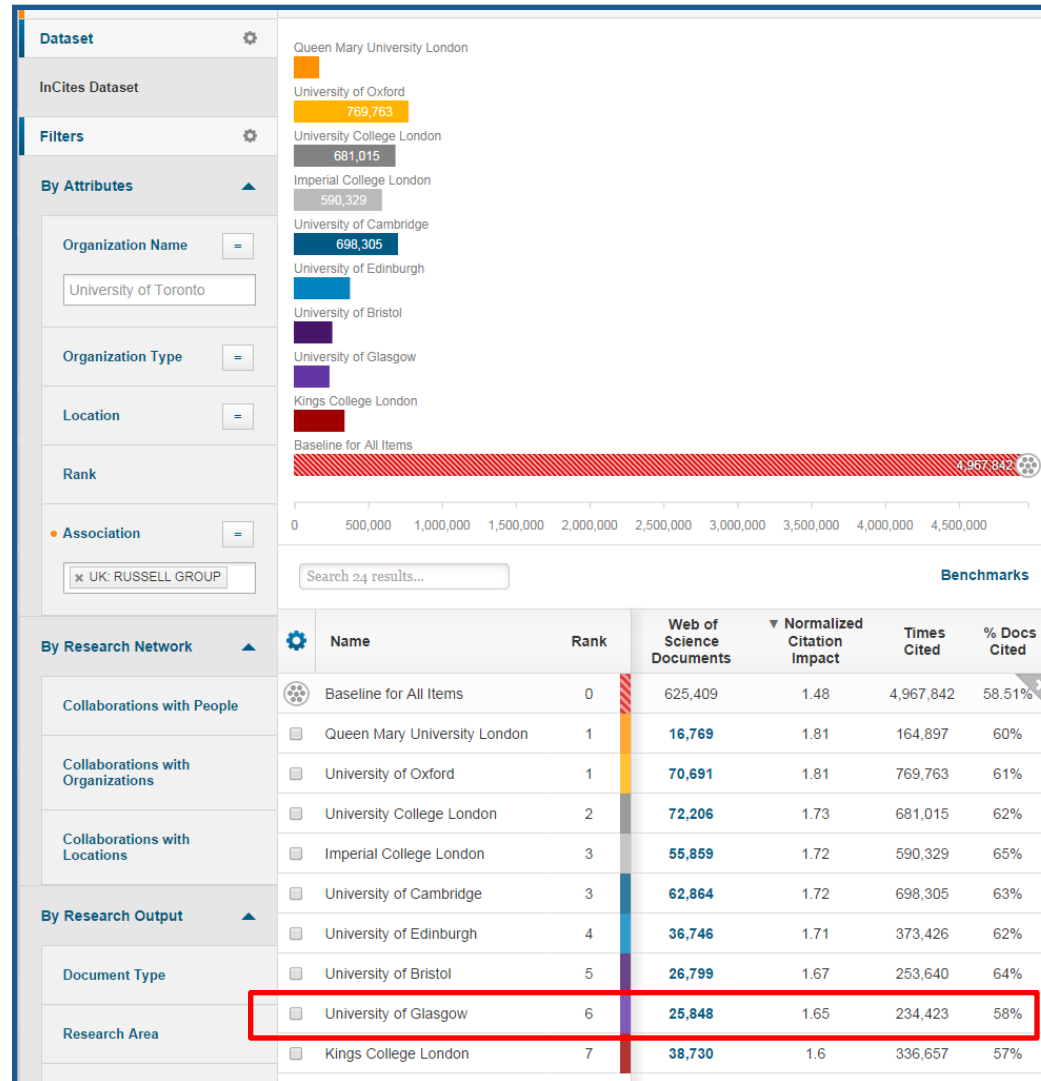
8 Creative Writing Lecture with Author Karen Russell

Dilemmas of Campaigning and Governing in the United States: A Conversation with Governor Lincoln D. Chafee

Discussion: Global Governance

Lecture: The Chinese Economy – Boom or Bust

Journal						
Journal	<input type="checkbox"/> CNRS	8	1,101	3.12	24,602	87%
	<input type="checkbox"/> University of Michigan	9	798	3.69	24,320	87%
Open Access	<input type="checkbox"/> University of Michigan System	9	796	3.7	24,320	87%
	<input type="checkbox"/> Massachusetts Institute of Te...	10	843	4.01	23,844	87%
Thresholds	<input type="checkbox"/> University of Liverpool	11	1,117	2.88	22,084	83%
	<input type="checkbox"/> University of Chicago	12	805	3.38	21,238	88%
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	<input type="checkbox"/> United States Department of ...	16	857	3.11	20,511	88%
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	<input type="checkbox"/> University of Wisconsin System	18	756	3.38	20,204	88%
Time Period	<input type="checkbox"/> Imperial College London	19	743	3.29	20,120	79%
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Update Results	<input type="checkbox"/> Max Planck Society	21	777	3.37	19,200	83%
	<input type="checkbox"/> PRES University Sorbonne P...	22	708	4.04	19,172	83%
	<input type="checkbox"/> University of Helsinki	23	462	4.02	19,012	88%
	<input type="checkbox"/> Lund University	24	543	4.77	18,870	82%
	<input type="checkbox"/> Ohio State University	25	711	3.47	18,824	87%
	<input type="checkbox"/> Istituto Nazionale di Fisica Nu...	26	853	2.87	18,709	88%
	<input type="checkbox"/> University of Pennsylvania	27	710	3.68	18,673	85%
	<input type="checkbox"/> University of Illinois System	28	674	3.46	18,296	88%
	<input type="checkbox"/> Columbia University	29	525	4.24	18,152	82%
	<input type="checkbox"/> Consejo Superior de Investig...	30	728	3.29	18,006	87%
	<input type="checkbox"/> University of Manchester	31	978	3.3	17,734	79%
	<input type="checkbox"/> University of Washington Sea...	32	474	5.19	17,731	82%
	<input type="checkbox"/> McGill University	32	727	3.49	17,731	88%



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At the meeting of Senate on 5th June 2008 a new University Publications Policy was approved. The key aim of the new policy is to maximise the impact of the University's research by making publications as widely and freely available as possible through the University's institutional repository Enlighten. The policy will apply from the beginning of the 2008/2009 academic session.

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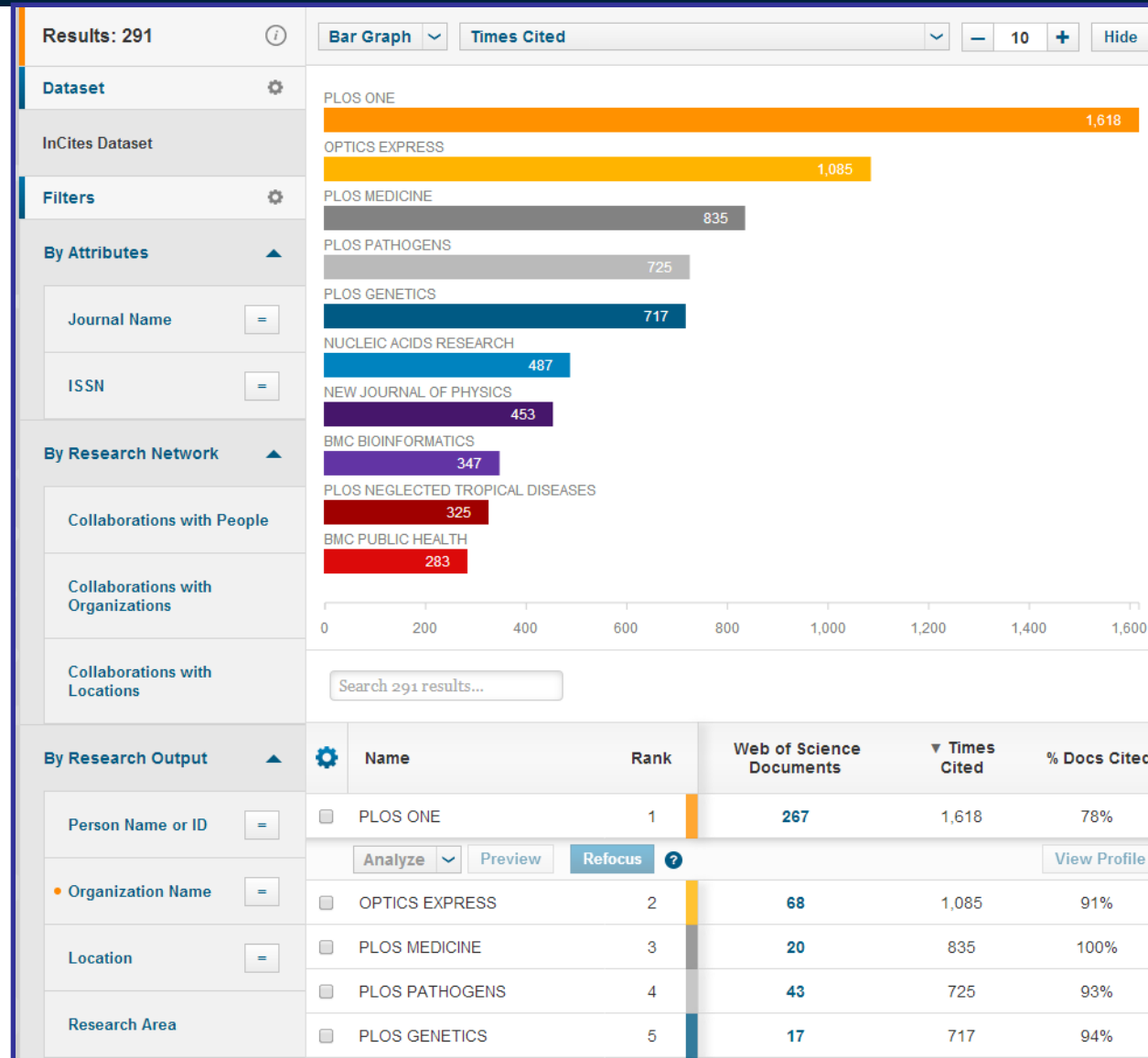
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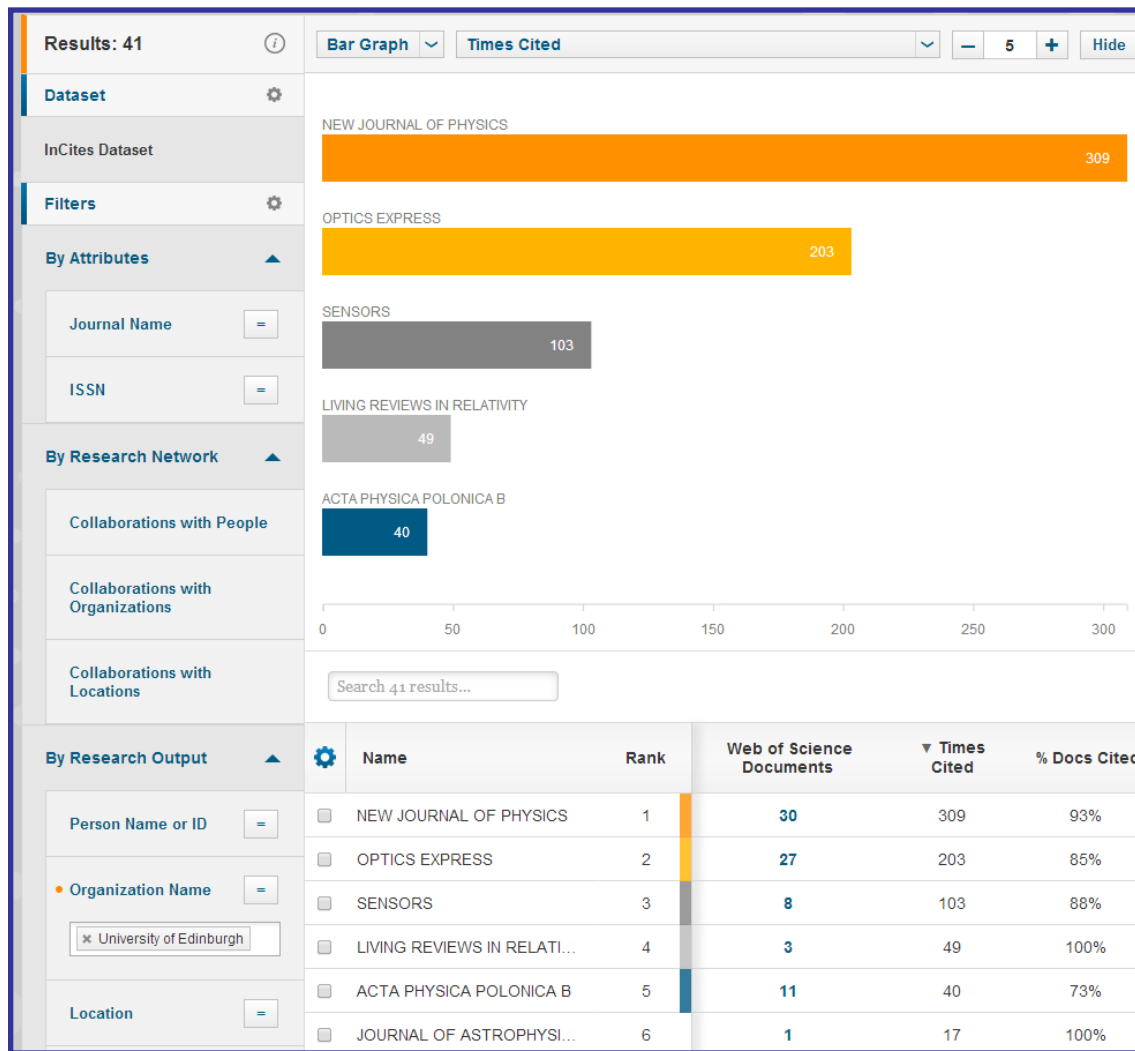
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Entropic uncertainty minimum for angle and angular momentum

Yao, A. M., Brougham, T., Eleftheriadou, E., Padgett, M. J., and Barnett, S. M. (2014) *Entropic uncertainty minimum for angle and angular momentum*. Journal of Optics, 16 (10). p. 105404. ISSN 2040-8978 (doi:10.1088/2040-8978/16/10/105404)



Text
97416.pdf - Published Version
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397Kb

Publisher's URL: <http://dx.doi.org/10.1088/2040-8978/16/10/105404>

Abstract

Uncertainty relations are key components in the understanding of the nature of quantum mechanics. In particular, entropic relations are preferred in the study of angular position and angular momentum states. We propose a new form of angle-angular momentum state that provides, for all practical purposes, a lower bound on the entropic uncertainty relation, $H\Phi + Hm$, for any given angular uncertainty, thus improving upon previous bounds. We establish this by comparing this sum with the absolute minimum value determined by a global numerical search. These states are convenient to work with both analytically and experimentally, which suggests that they may be of use for quantum information purposes.

Item Type:	Article
Status:	Published
Refereed:	Yes
Glasgow Author(s) Enlighten ID:	Barnett, Professor Stephen and Brougham, Dr Thomas and Yao, Dr Alison and Padgett, Professor Miles
Authors:	Yao, A. M., Brougham, T., Eleftheriadou, E., Padgett, M. J., and Barnett, S. M.
College/School:	College of Science and Engineering > School of Physics and Astronomy
Journal Name:	Journal of Optics
Publisher:	Institute of Physics Publishing Ltd.
ISSN:	2040-8978
ISSN (Online):	2040-8986
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First Published:	First published in Journal of Optics 16(10):105404
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University Staff: Request a correction | Enlighten Editors: Update this record

Altmetric

No Altmetrics are currently available for this publication.

Funder and Project Information

Project Code	Award No	Project Name	Principal Investigator	Funder's Name	Funder Ref	Lead Dept
54987	1	Challenges in Orbital Angular Momentum	Miles Padgett	Engineering & Physical Sciences Research Council (EPSRC)	EP/I012451/1	P&A - PHYSICS & ASTRONOMY

Tools

Citation count dataset and import plug-ins v1.1.0

Sheppard, Nicholas and Gregson, Mark and Francois, Sebastien (2011) *Citation count dataset and import plug-ins v1.1.0*.

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EPrints 3 > EPrints 3.3
Date: 28 February 2011
Creators Name: Sheppard, Nicholas and Gregson, Mark and Francois, Sebastien
Department: Library eServices
Institution: Queensland University of Technology
Date Deposited: 13 Dec 2012 15:15
Last Modified: 03 May 2013 10:54
Wiki Page: [Files/Citation count dataset and import plug-ins v1.1.0](#)
Date Deposited: 13 Dec 2012 15:15

Abstract

These scripts and plug-ins enable an EPrints repository to retrieve and store citation counts from Scopus, Web of Science and Google Scholar. All citation data is stored in a dataset called 'citation', which contains a complete history of requests for citation counts. The most recent counts for any given eprint are cached in the 'scopus', 'wos' and 'gscholar' fields of that eprint so that they can be accessed from citation files and export plug-ins. Updates (December 2012): support for v3 of the WoS API, support for the updated Scopus API (view README for more details). Note that the package seems to work fine on 3.3.10.

Requirements

Importing citation counts from Scopus requires a subscription to Scopus and a developer key for the Scopus XML Search API. Importing citation counts from Web of Science requires a subscription to Web of Science and access to Web of Science Web Services Premium. The Web of Science plug-in requires SOAP::Lite to be installed from CPAN, and the Google Scholar plug-in requires WWW::Mechanize::Sleepy.

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Direct measurement of a 27-dimensional orbital-angular-momentum state vector

Malik, M., Mirhosseini, M., Lavery, M.P.J., Leach, J., Padgett, M.J., and Boyd, R.W. (2014) *Direct measurement of a 27-dimensional orbital-angular-momentum state vector*. Nature Communications, 5 . p. 3115. ISSN 2041-1723 (doi:10.1038/ncomms4115)

Full text not currently available from Enlighten.

Publisher's URL: <http://dx.doi.org/10.1038/ncomms4115>

Abstract

The measurement of a quantum state poses a unique challenge for experimentalists. Recently, the technique of 'direct measurement' was proposed for characterizing a quantum state in situ through sequential weak and strong measurements. While this method has been used for measuring polarization states, its real potential lies in the measurement of states with a large dimensionality. Here we show the practical direct measurement of a highdimensional state vector in the discrete basis of orbital angular momentum. Through weak measurements of orbital angular momentum and strong measurements of angular position, we measure the complex probability amplitudes of a pure state with a dimensionality, $d=27$. Further, we use our method to directly observe the relationship between rotations of a state vector and the relative phase between its orbital-angular-momentum components. Our technique has important applications in high-dimensional classical and quantum information systems and can be extended to characterize other types of large quantum states.

Item Type:	Article
Status:	Published
Refereed:	Yes
Glasgow Author(s) Enlighten ID:	Lavery, Mr Martin and Boyd, Prof Robert and Padgett, Prof Miles and Leach, Mr Jonathan
Authors:	Malik, M., Mirhosseini, M., Lavery, M.P.J., Leach, J., Padgett, M.J., and Boyd, R.W.
College/School:	College of Science and Engineering > School of Physics and Astronomy
Journal Name:	Nature Communications
Publisher:	Nature Publishing Group
ISSN:	2041-1723

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Funder and Project Information

Project Code	Award No	Project Name	Principal Investigator	Funder's Name	Funder Ref	Lead Dept
54987	1	Challenges in Orbital Angular Momentum	Miles Padgett	Engineering & Physical Sciences Research Council (EPSRC)	EP/I012451/1	P&A - PHYSICS & ASTRONOMY

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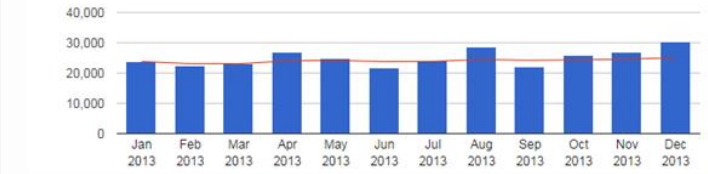
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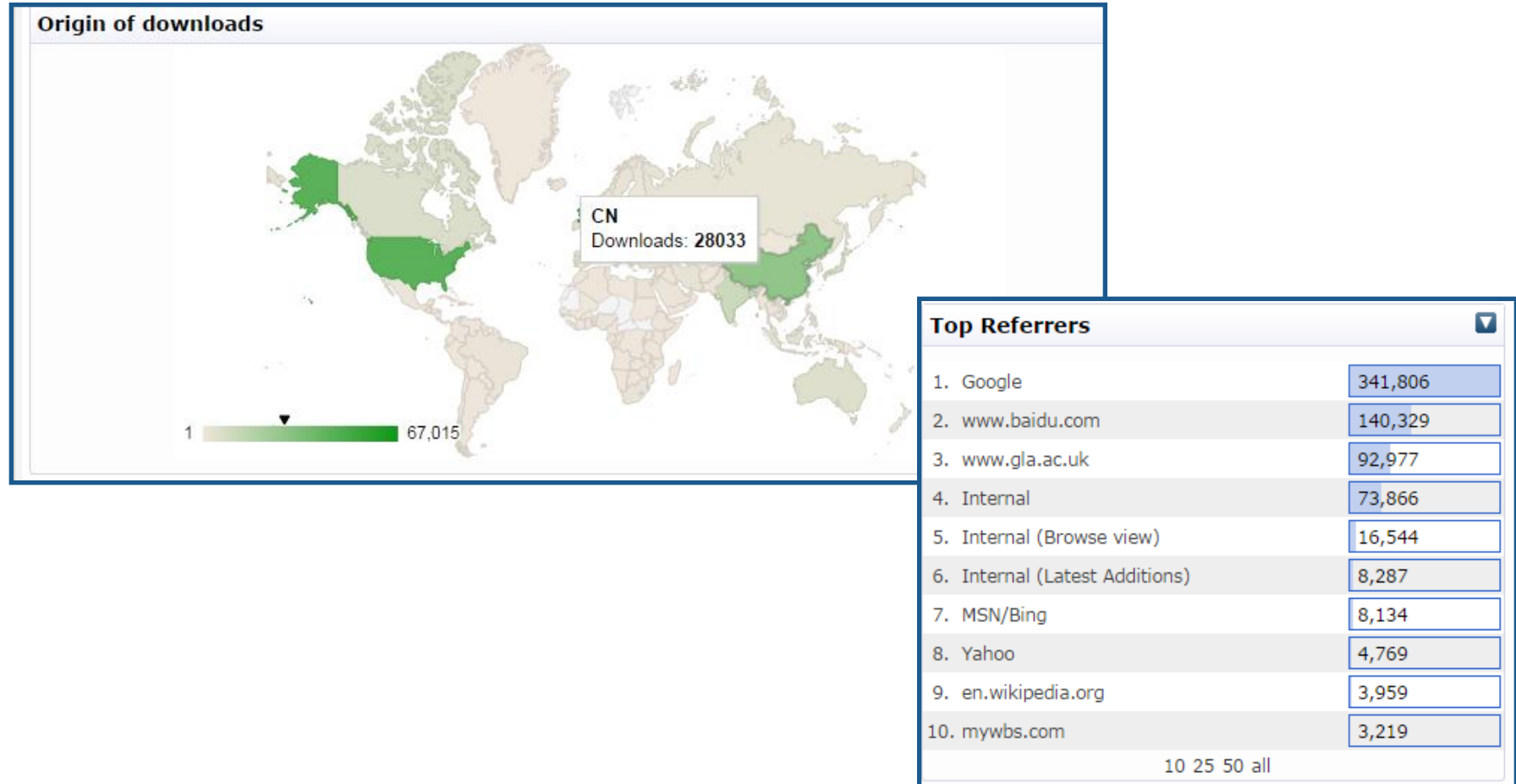
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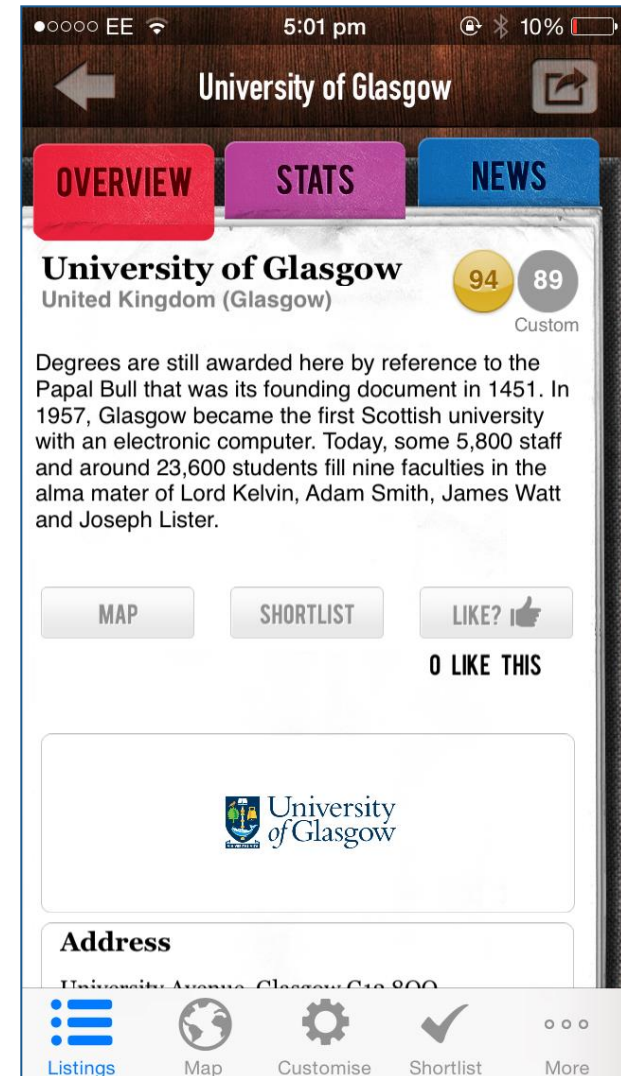
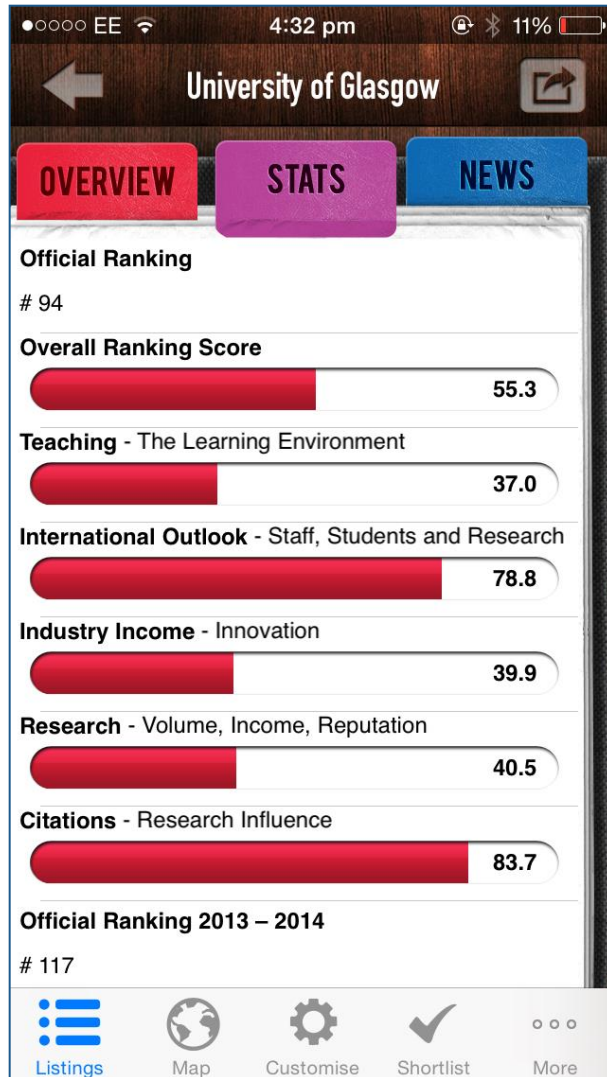
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- Training for Library and other staff
- Altmetrics: Exploring Institutional Rankings
- ORCID's assigned and matched with WoS (via Enlighten)

In metrics we trust? Prospects & pitfalls of new research metrics

A one-day workshop hosted by the University of Sussex, as part of the Independent Review of the Role of Metrics in Research Assessment

Tuesday 7 October 2014

Terrace Room, Conference Centre, Bramber House, University of Sussex



The quality and impacts of research are commonly assessed using a combination of peer review and a variety of quantitative metrics. The use of metrics and 'altmetrics' has developed rapidly, but is the subject of heated debate across the research community.

In April 2014, the Minister for Universities and Science asked HEFCE to undertake a review of the role of metrics in research assessment and management, to inform these debates and influence the design of the next Research Excellence Framework (REF). Details of the review can be found on the [HEFCE](#) website. The review will consider current uses of

metrics for research assessment, the robustness of metrics across different disciplines, and their potential contribution to the development of research excellence and impact. The review is being chaired by [James Wilsdon](#), Professor of Science and Democracy at the University of Sussex, and will publish its findings in the spring of 2015.

As a contribution to the work of the review, HEFCE and the Science Policy Research Unit (SPRU) at the University of Sussex are co-hosting a one-day workshop on 7 October 2014.

Culture > Music > Bob Dylan

Scientists sneak Bob Dylan lyrics into articles as part of long-running bet

Group of Swedish academics – authors of papers such as *Nitric Oxide and Inflammation: The Answer is Blowing in the Wind* – reveal 17-year bet: whoever has written most articles including Dylan quotes before going into retirement wins a lunch at a local restaurant

Sean Michaels

The Guardian, Monday 29 September 2014 07.44 BST

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Bob Dylan ... Blood on the Tracks: an insight into non-neutral cells. Photograph: The Estate of David Gahr/Getty Images

Five Swedish-based scientists have been inserting Bob Dylan lyrics into research articles as part of a long-running bet. After 17 years, the researchers revealed their race to quote Dylan as many times as possible

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Thanks for your attention