

Harnessing the H-index

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Trinity College Library Dublin



FHS Career Development Seminar,
Thursday, December 11th 2014

outline

- Research evaluation
- Tools, resources, methods
- Citations, impact, h-index, normalised citation impact
- Journal impact and citations
- Predatory publishers
- Harnessing the H-index

Generic research evaluation metrics

- what counts?

- Number of publications
 - Research productivity
 - Number of citations
 - Impact (citations per paper)
 - H-index
 - Collaborations (National, International, Industry)
 - Patents, licences, campus companies/spin-outs
 - PhDs supervised
 - Research income generated
 - Specific grants (e.g. ERC)
 - Altmetrics
 - Societal, economic, cultural impact
- Journal Impact Factor – not so much now*

Esteem Indicators

- Awards, honours, fellowships of learned societies
- Memberships, Representations (by invitation, by election)
- Editorships of prestigious journals/imprints
- Invited/keynote/plenary addresses
- Positions in national/international strategic advisory bodies
- Industry advisory roles
- Conference organisation (e.f. Programme chairs, programme committee membership)
- Significant professional service



Scientists talk. Let's listen.

Every day, thousands of scholarly papers are being discovered, discussed and shared.

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Altmetrics & Co. – key resource:

Users, narcissism and control – tracking the impact of scholarly publications in the 21st century



She had a magic looking-glass, and she used to stand
before it, and look in it, and say,

Looking-glass upon the wall,
Who is fairest of us all?

And the looking-glass would answer,

"You are fairest of them all."

Users narcissism and control

Users, narcissism and control – tracking the impact of scholarly publications in the 21st century

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Multidimensional Research Assessment Matrix

PURPOSE	RESEARCH PRODUCTIVITY	QUALITY AND SCHOLARLY IMPACT	INNOVATION AND SOCIAL BENEFIT	SUSTAINABILITY AND SCALE	RESEARCH INFRASTRUCTURE
Allocate Resources	<ul style="list-style-type: none"> • Research output/bibliometric data 	<ul style="list-style-type: none"> • Citation data • Peer review • Keynote, awards, etc. 	<ul style="list-style-type: none"> • Research income 		<ul style="list-style-type: none"> • 'research active' as percentage of total academic staff; libraries, equipment, etc.
Drive Research Mission Differentiation	<ul style="list-style-type: none"> • Research output/bibliometric data • Output per research academic 	<ul style="list-style-type: none"> • Peer review • Self-evaluation 	<ul style="list-style-type: none"> • Ratio of research income: teaching income • External research income 	<ul style="list-style-type: none"> • Ratio of undergraduate: master/phd students 	
Increase Regional/Community Engagement	<ul style="list-style-type: none"> • Publications, Policy Reports, etc. 	<ul style="list-style-type: none"> • End User Reviews • Keynote, Media Awards, etc. 	<ul style="list-style-type: none"> • Percentage Funding from End-users • Patents, Licenses, Spin-Offs 	<ul style="list-style-type: none"> • Number of collaborations and partnerships 	
Improve Research Performance	<ul style="list-style-type: none"> • Research output/bibliometric data 	<ul style="list-style-type: none"> • Citation data • Number and percentage publication in top-ranked, high impact journals • Peer review 			
Assess Value-For-Money or Cost-Benefit of Research	<ul style="list-style-type: none"> • Research output/bibliometric data • Output per research academic 	<ul style="list-style-type: none"> • Peer review and/or citation data • Commercialisation data • End user reviews 	<ul style="list-style-type: none"> • Social, economic, cultural and environmental impact/benefits indicators • External research income • Employability of PhD graduates 	<ul style="list-style-type: none"> • Number of collaborations and partnerships 	
Encourage International Co-operation	<ul style="list-style-type: none"> • Research Output/Bibliometric data with focus on European & International collaborations 		<ul style="list-style-type: none"> • Percentage of Research Income from International Sources 	<ul style="list-style-type: none"> • Number of collaborations and partnerships 	
Increase Multi-disciplinary Research	<ul style="list-style-type: none"> • Research Output/Bibliometric data with focus on interdisciplinary fields 	<ul style="list-style-type: none"> • Peer Review • Self-Evaluation 	<ul style="list-style-type: none"> • New research fields, interdisciplinary teaching programmes, etc. 		<ul style="list-style-type: none"> • Research Conducted by People from Different Disciplines

'Assessing Europe's University-Based Research'

– European Commission Expert Group on Assessment of University-based Research 2010

<http://arrow.dit.ie/cserrep/17/>



LISTED BY CITATIONS PER PAPER

Rank	Country	Papers	Citations	Cites per paper
1	SWITZERLAND	181,636	3,070,458	16.90
2	DENMARK	98,083	1,574,167	16.05
3	USA	3,049,662	48,862,100	16.02
4	NETHERLANDS	252,242	3,974,719	15.76
5	SCOTLAND	109,135	1,709,814	15.67
6	ENGLAND	697,763	10,508,202	15.06
7	SWEDEN	179,126	2,686,304	15.00
8	BELGIUM	137,878	1,918,993	13.92
9	FINLAND	88,874	1,224,037	13.77
10	GERMANY	784,316	10,518,133	13.41
11	CANADA	451,588	6,019,195	13.33
12	AUSTRIA	95,690	1,253,930	13.10
13	ISRAEL	110,558	1,426,421	12.90
14	NORWAY	72,277	922,183	12.76
15	WALES	36,949	465,429	12.60
16	FRANCE	557,322	7,007,693	12.57
17	AUSTRALIA	304,160	3,681,695	12.10
18	ITALY	429,301	5,151,675	12.00
19	NORTH IRELAND	18,025	212,810	11.81
20	IRELAND	45,774	534,270	11.67

SOURCE: *ESSENTIAL SCIENCE INDICATORS*SM FROM THOMSON REUTERS,
 TIME PERIOD: 2001-AUGUST 31, 2011 (FOURTH BIMONTHLY PERIOD OF 2011).

Top 20 Countries in All Fields*

In 2008 Ireland appeared in the 'Top Countries in All Fields' list for the first time.

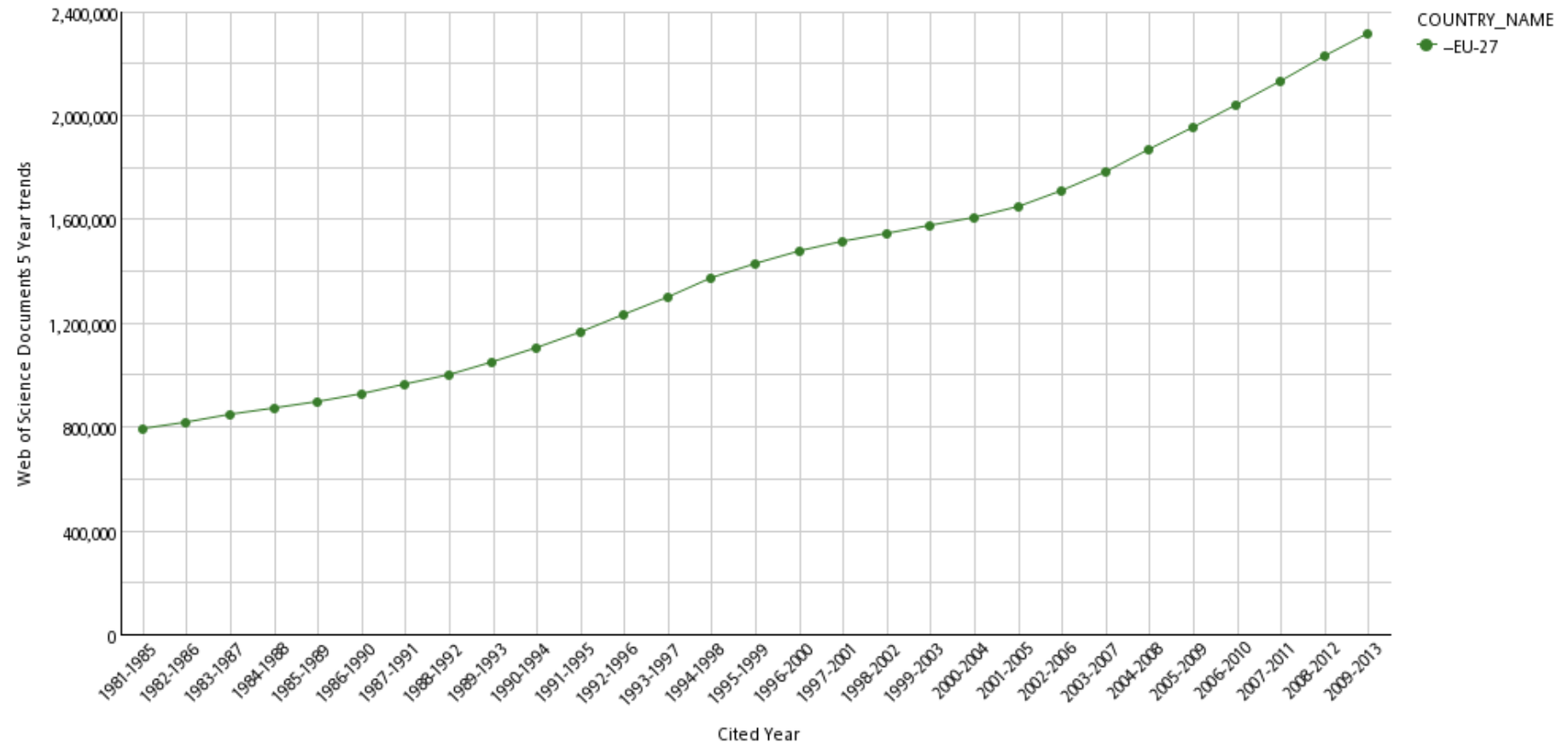
Currently at 20th place in the world, we have moved up from 36th in the world in 2003

•in terms of citations per paper)

Sources: <http://archive.sciencewatch.com/dr/cou/2011/11decALL/>
<http://sciencewatch.com/dr/cou/2008/08decALL/>
<http://www.in-cites.com/countries/ireland.html>

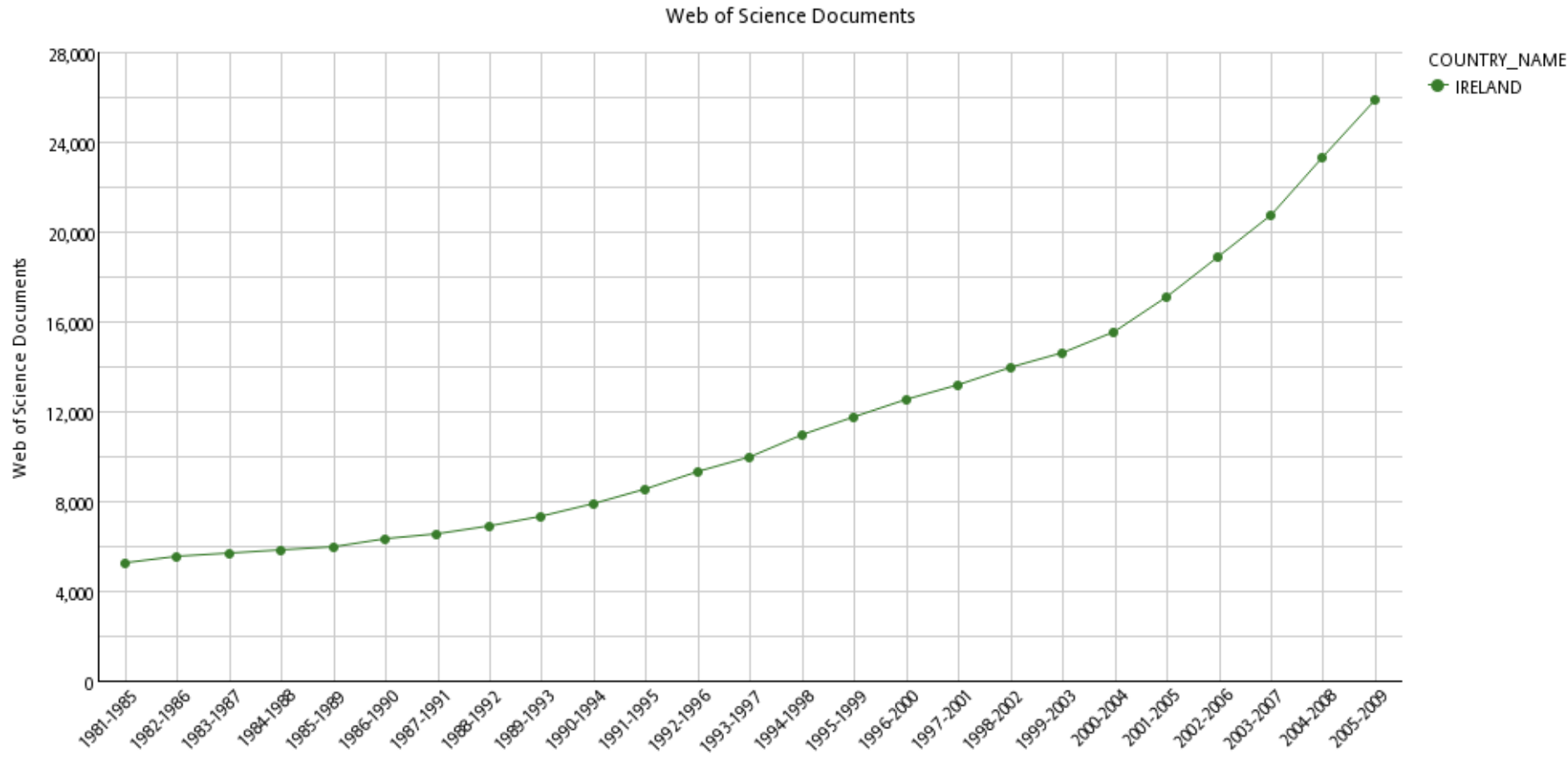
The number of research papers produced in the EU has increased by just under 200%

Web of Science Documents 5 Year trends



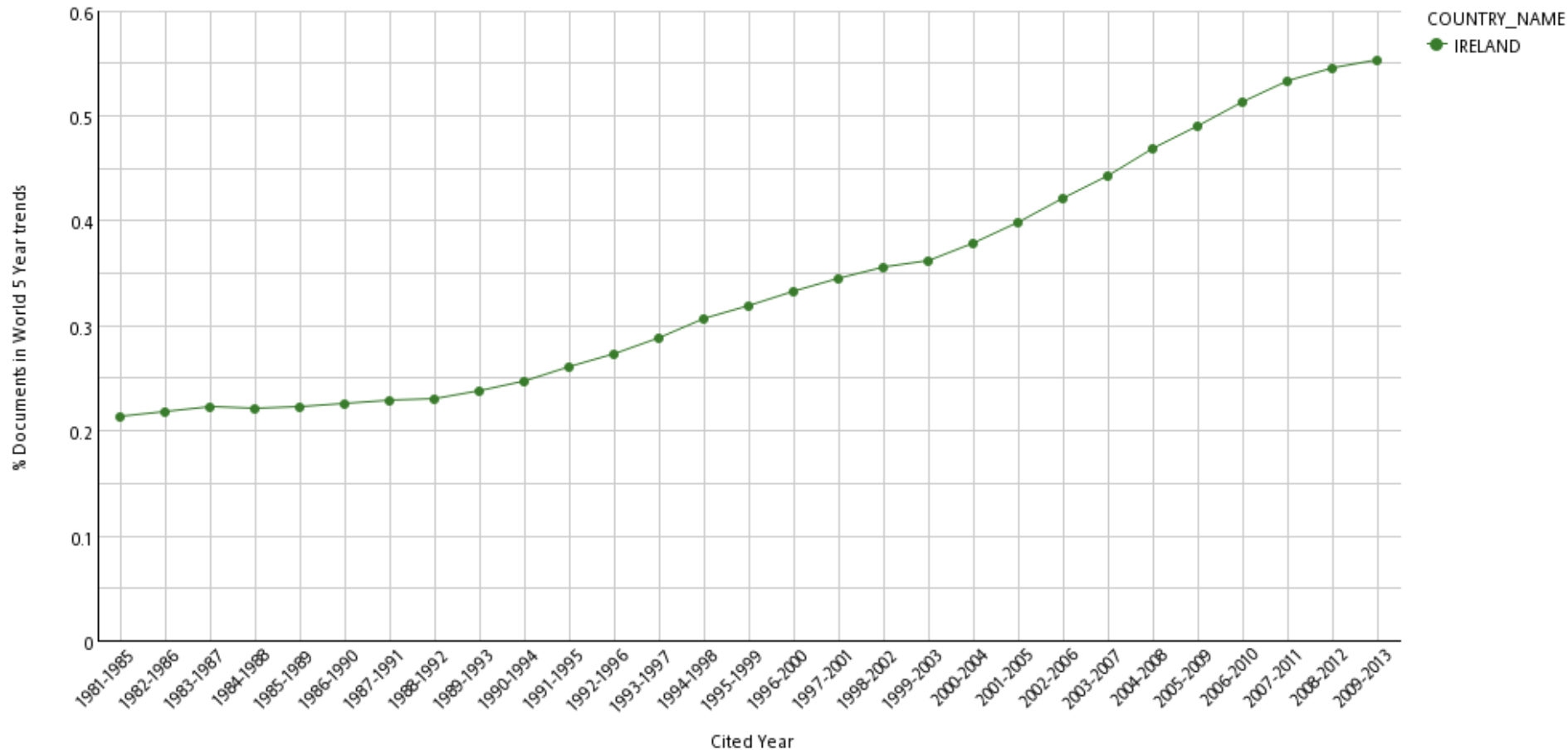
Source: InCites (Thomson Reuters)

Over the same period, the number of research papers produced in Ireland has increased by over 560%



Source: InCites (Thomson Reuters) – accessed December 2014

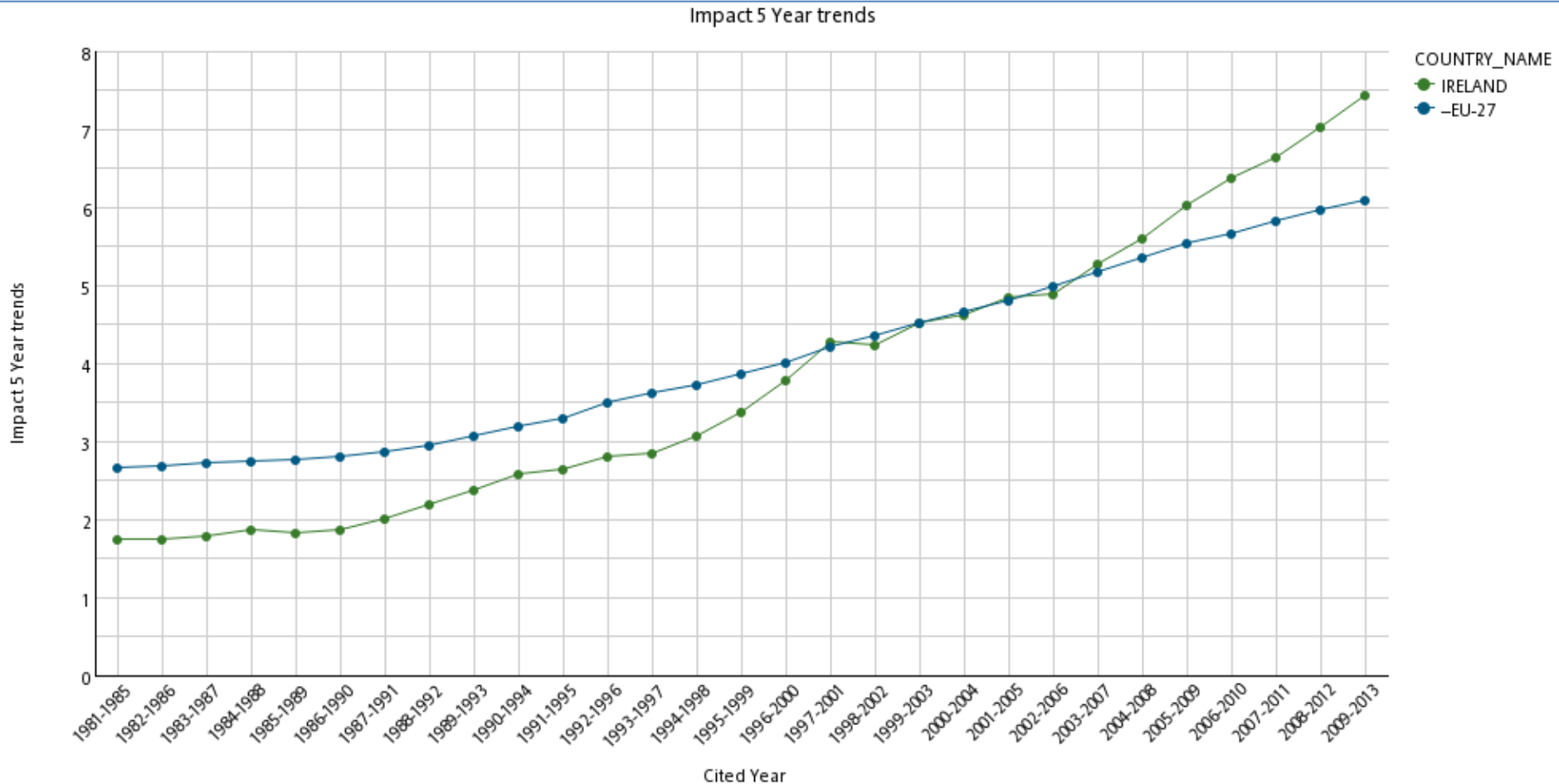
% Documents in World 5 Year trends



.. and at the same time, Ireland more than *doubled* its *percentage share* of world research papers. Currently Ireland produces 0.55% of all world research papers.

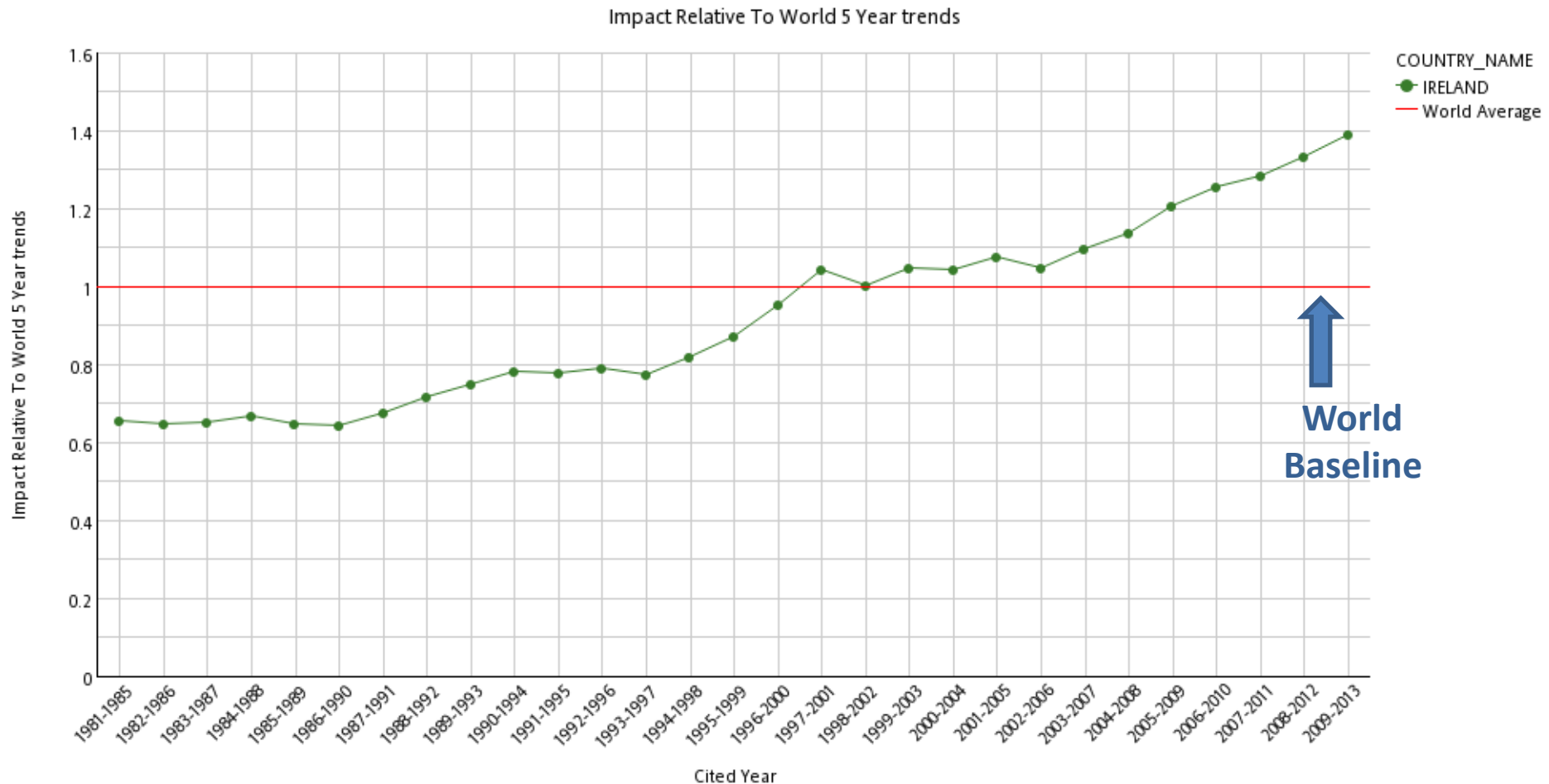
Source: InCites (Thomson Reuters) accessed December 2014

... while in terms of research impact, Ireland has come from behind to outstrip the European average...



Source: InCites (Thomson Reuters) accessed December 2014

Similarly, Ireland's research impact has exceeded the world average over the past 10 years, and is rising...

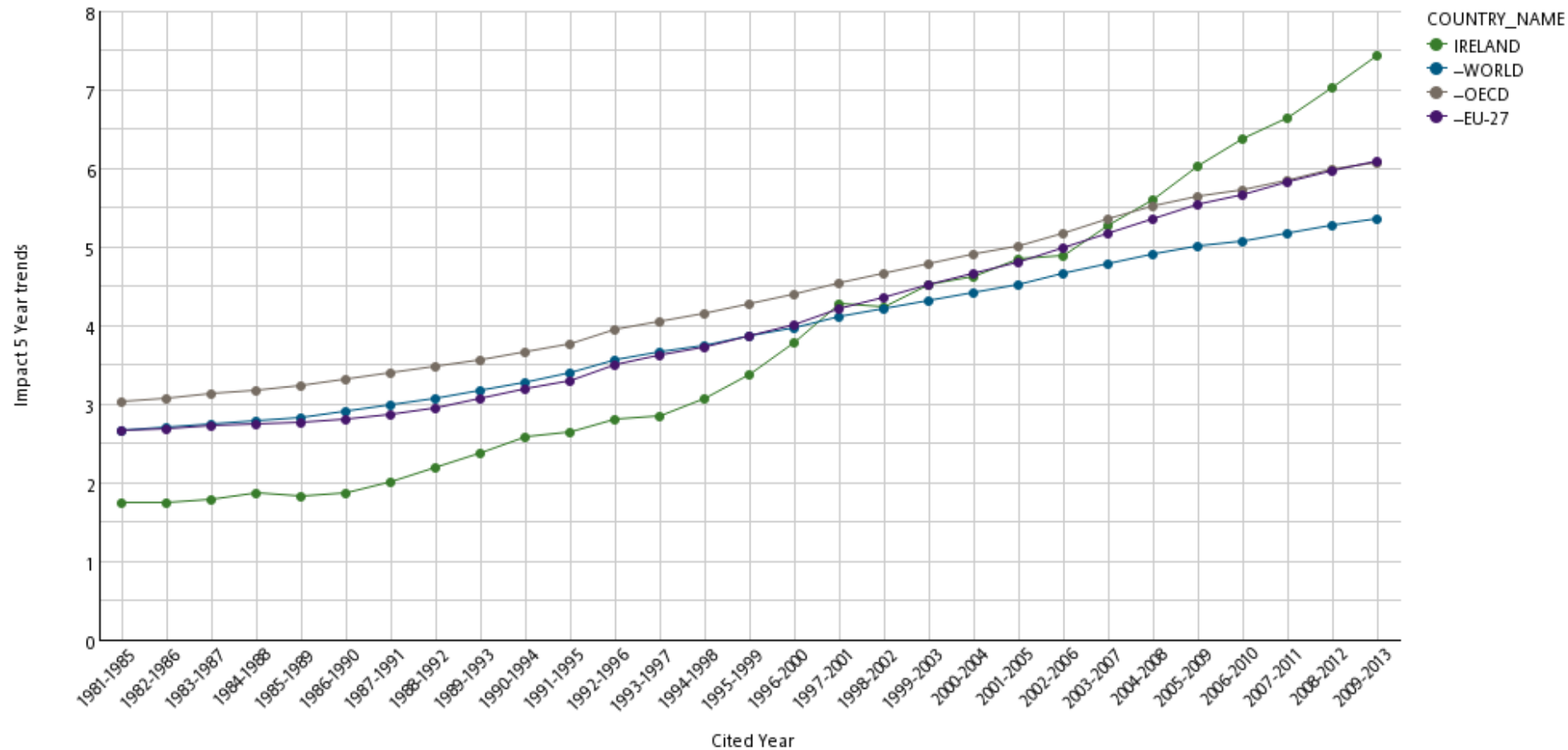


Impact (cites per paper) relative to world average:
Baseline=1.0

Source: InCites (Thomson Reuters) accessed December 2014

Research Impact: Ireland compared with: EU-27, World, OECD

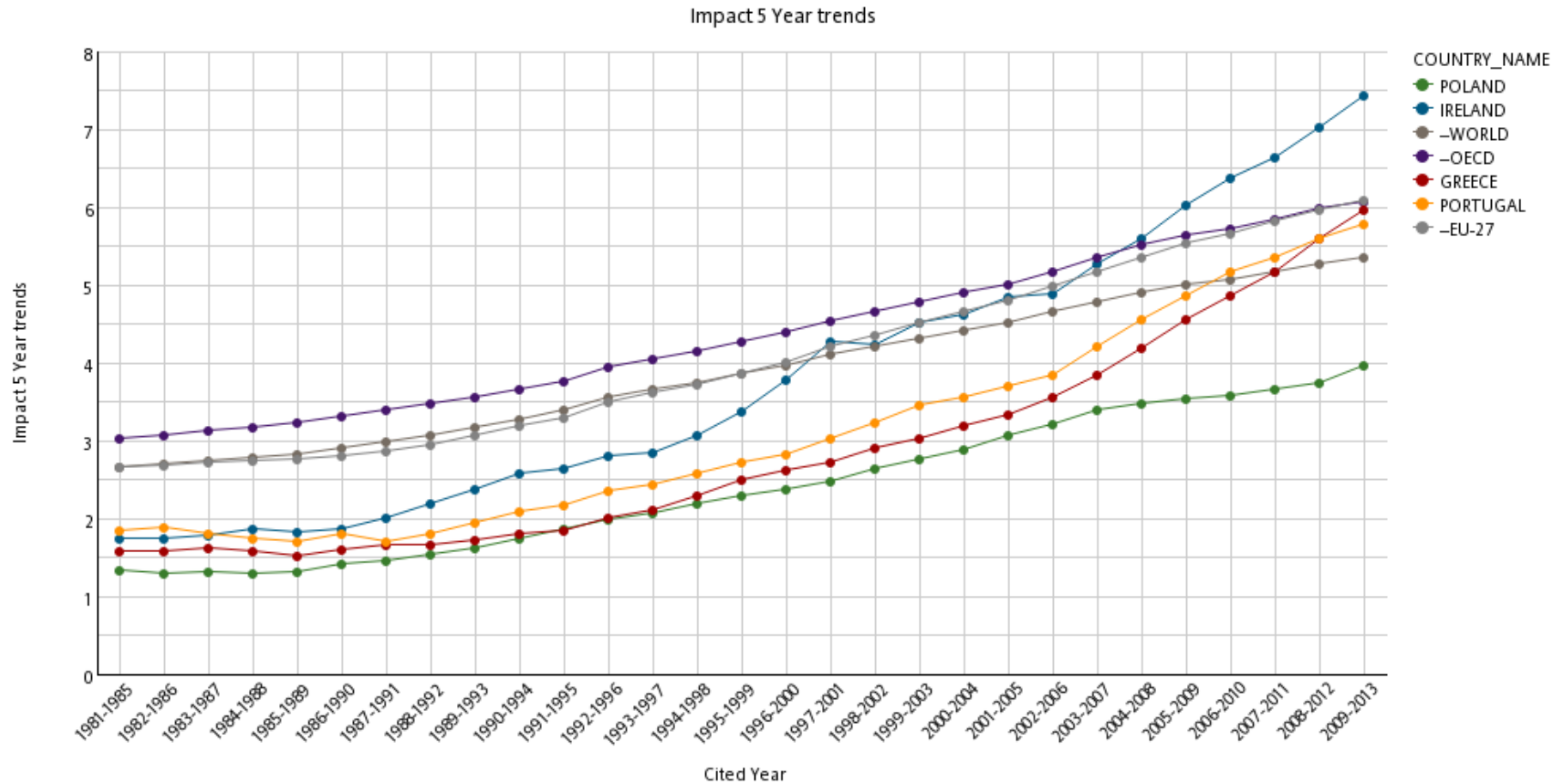
Impact 5 Year trends



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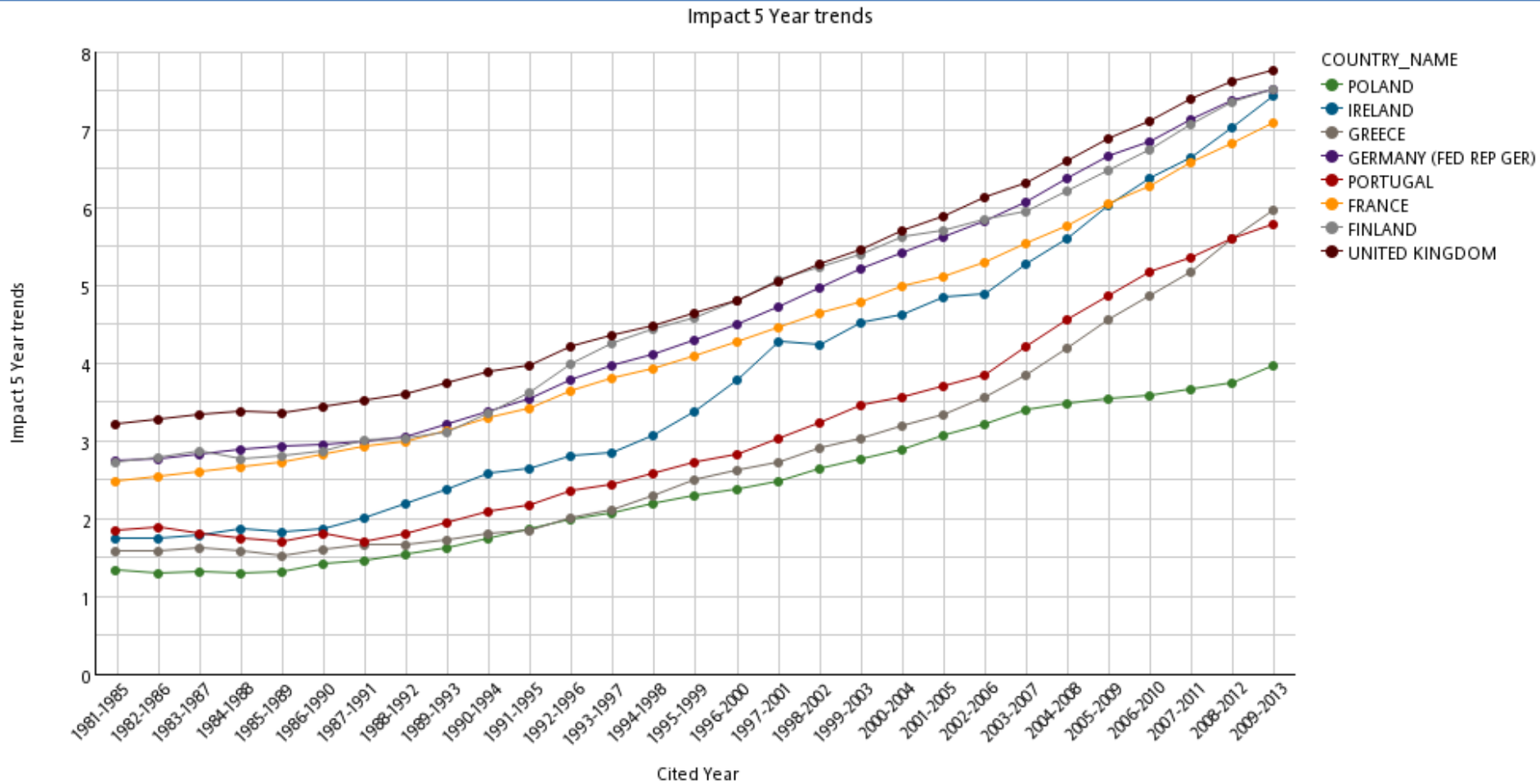
The Growth of Ireland's Research Impact

In the early 1980's the impact of Irish research was on a par with Greece, Poland and Portugal. From 2000 onwards Ireland's research impact grew, exceeding the world, EU-27 and (by 2008) the OECD averages.



Source: InCites (Thomson Reuters) accessed December 2014

Where we came from. Where we are now.



Source: InCites (Thomson Reuters) accessed December 2014



Jorge E. Hirsch

What is the h-index?

“An index that quantifies both the actual scientific productivity and the apparent scientific impact of a scientist”

- e.g. a h-index of 20 means the researcher has 20 papers each of which has been cited 20+ times.
- An alternative to total citations which can be disproportionately affected by a few very highly cited papers.

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3. Research experience

- 306 PubMed registered scientific publications.
- More than 180 publications in journals with Impact Factor above 5, 50 in journals with Impact Factor above 9.
- H index of 41.
- Approx. 180 abstracts at International scientific congresses.
- Postdoctoral Fellowship from the Research Council of Norway (1997-98). "The pathogenic role of TNF and oxidative stress in human immunodeficiency".
- From 1996 supervision of 28 PhD candidates at the University of Oslo.
- From 2002 supervision of 4 postdoctoral researchers at the University of Oslo.
- Regular Reviewer in several international scientific journals including Lancet, Blood, FASEB J, Circulation, J Am Coll Cardiol, Arterioscler Thromb Vasc Biol, AIDS, J Infect Dis, Eur Heart J, Cardiovasc Res, Thromb Haemost, Eur J Heart Fail, Am J Cardiol, Am Heart J, Atherosclerosis, and Heart.
- Editorial Consultant in J Am Coll Cardiol (2004-).

Total staff

RIIM publications

Pål Aukrust's research

[CV](#)

About our research

Publications

Selected publications

Bente Halvorsen's group

Arne Yndestad's group

Thor Ueland's group

Børre Fevang's group

Pål André Holme's group

Grethe Skretting's group

Espen Melum's group

Johannes R. Hov's group

Links

RIIM Collaborators

- Senior Consultant at Section of Clinical Immunology and Infectious Diseases, Rikshospitalet, University of Oslo, Oslo.
- In the leadership of the thematic research group "Chronic inflammation in the pathogenesis of human disease", University of Oslo.
- Professor at Research Institute of Internal Medicine, Rikshospitalet, University of Oslo, Oslo..

3. Research experience

- 306 PubMed registered scientific publications.
- More than 180 publications in journals with Impact Factor above 5, 50 in journals with Impact Factor above 9.
- H index of 41.
- Approx. 180 abstracts at International scientific congresses.
- Postdoctoral Fellowship from the Research Council of Norway (1997-98). "The pathogenic role of TNF and oxidative stress in human immunodeficiency".
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- Editorial Consultant in J Am Coll Cardiol (2004-).

Extracts from SFI Grant Applications

5. Background and Overview of event (max. 500 words)

- Include details of **sponsorship** from international scientific society or organisation if applicable.
- **Include plan for dissemination of conference/workshop output if applicable.**
- Include relevant information pertaining to the three most recent international meetings in the conference/workshop series (including but not limited to publication acceptance rate and single track or multi-track), if applicable.

6. Scientific impact of the event (max. 500 words)

Value of the proposed research to Ireland (max. 2 pages)

Applicants should make the case for the value of their research proposal to Ireland in terms of the programme's potential impact on Irish society; the quality of life of Ireland's citizens; the education and training of Ireland's students; career development of research team members; the development of Irish industry and economy etc. Applicants are encouraged to give due regard to the Government's Strategy for Science, Technology and Innovation (SSTI) 2006-2013.

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Biography

Last Updated: 12-NOV-14

Dr. Patrick Prendergast, BA, BAI, PhD, ScD, C.Eng, FIEI, FTCD, MRIA is Provost of Trinity College Dublin. Following his election on 2nd April 2011, he commenced his 10-year term as the 44th Provost of the College on 1st August 2011. Dr Prendergast held the Chair of Bio-engineering from 2007 to 2011. He is a Principal Investigator of the Trinity Centre for Bioengineering. Prior to working in TCD he held post-doctoral positions in Rizzoli Orthopaedic Institute, Bologna and the University of Nijmegen. On a sabbatical year (2001–2002) he was Visiting Professor, Institute of Fundamental Technological Research, Poland and Senior Research Fellow, Koiter Institute, Technical University of Delft, The Netherlands. He is a Chartered Engineer and a Fellow of the Institution of Engineers of Ireland. He is a past-president of the Section of Bioengineering of the Royal Academy of Medicine in Ireland (2000-2002), and a Past-President of the European Society of Biomechanics (2002-2004). He won the Parsons Medal in Engineering Science from the Royal Irish Academy in 2003. His research interests are in biomechanics and implant design, and in tissue engineering and mechanobiology. He was Dean of Graduate Studies at the University of Dublin from 2004-2007. In 2007 he was President of the European Alliance of Medical and Biological Engineering Societies. Also in 2007 he obtained a Chair in Bio-Engineering. In March 2008 he was elected to membership of the Royal Irish Academy. In July 2009 he was invited to deliver the Wartenweiler Memorial Lecture at the International Society of Biomechanics in Capetown, South Africa. He was Director of the Trinity Centre for Bioengineering from 2002 to 2008. He was Vice Provost/Chief Academic Officer from July 2008 to October 2010. He obtained a ScD from the University of Dublin in 2009.

Teaching interests and responsibilities

Last Updated: 12-NOV-14

No data has yet been entered for the "Teaching interests and responsibilities " section!

Description of Research Interests

His research interests are in biomechanics and implant design, and in tissue engineering and mechanobiology.

Professional Qualifications

Last Updated: 06-MAY-14

Qualification	Institution	Class of Degree	Title of Dissertation	Date Conferred	Public
BA, BAI	University of Dublin			1987	Y X
PhD	University of Dublin			1991	Y X
Chartered Engineer	Institution of Engineers of Ireland			1993	Y X

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+ Publications and Other Research Outputs

Last Updated: 15-NOV-13

Click on the underlined column headings to reorder your publications and other research outputs.

Peer Reviewed Publications and Other Research Outputs. Total: 265

Edit	Type	Reference	Year	Status	Delete
	Book Chapter	Finite element modelling in orthopaedic implant design in, editor(s)RW Lindsey, Z Gugala , <i>Orthopaedic Implants: Applications, Complications and Management</i> , [Prendergast, P.J, Taylor, M]		IN_PRESS	✘
	Journal Article	Khayyeri H, Prendergast PJ, The emergence of mechanoregulated endochondral ossification in evolution., <i>Journal of biomechanics</i> , 46, (4), 2013, p731-7	2013	PUBLISHED	✘
	Journal Article	Boyle CJ, Lennon AB, Prendergast PJ, Application of a mechanobiological simulation technique to stents used clinically., <i>Journal of biomechanics</i> , 46, (5), 2013, p918-24	2013	PUBLISHED	✘
	Journal Article	Khayyeri H, Isaksson H, Prendergast PJ, Corroboration of computational models for mechanoregulated stem cell differentiation., <i>Computer methods in biomechanics and biomedical engineering</i> , 2013	2013	PUBLISHED	✘
	Journal Article	Newe, C., Cunningham, E., Buchanan, F., Walker, G., Prendergast, P.J., Lennon, A., Dunne, N., Static and dynamic degradation of sintered calcium phosphate ceramics, <i>Key Engineering Materials</i> , 493-494, 2012, p861 - 865 DOI	2012	PUBLISHED	✘
	Journal Article	Nowlan, N.C., Dumas, G., Tajbaksh, S., Prendergast, P.J., Murphy, P., Biophysical stimuli induced by passive movements compensate for lack of skeletal muscle during embryonic skeletogenesis., <i>Biomechanics and Modelling in Mechanobiology</i> , 11, 2012, p207 - 219	2012	PUBLISHED	✘
	Journal Article	Galibarov PE, Prendergast PJ, Lennon AB, A probabilistic modelling scheme for analysis of long-term failure of cemented femoral joint replacements., <i>Proceedings of the Institution of Mechanical Engineers. Part H, Journal of engineering in medicine</i> , 226, (12), 2012, p927-38	2012	PUBLISHED	✘
	Journal Article	Kelly, G.M., Kilpatrick, J.I., van Es, M.H., Weafer, P.P., Prendergast, P.J., Jarvis, S.P., Bone cell elasticity and morphology changes during the cell cycle , <i>Journal of Biomechanics</i> , 44, (8), 2011, p1484-1490 DOI	2011	PUBLISHED	✘
	Journal Article	Khayyeri, H., Checa, S., Tägil, M., Aspenberg, P., Prendergast, P.J, Variability observed in mechano-regulated in vivo tissue differentiation can be explained by variation in cell mechano-sensitivity, <i>Journal of Biomechanics</i> , 44, (6), 2011, p1051-1058 DOI	2011	PUBLISHED	✘
	Journal Article	Checa, S., Prendergast, P.J., Duda, G.N, Inter-species investigation of the mechano-regulation of bone healing: Comparison of secondary bone healing in sheep and rat, <i>Journal of Biomechanics</i> , 44, (7), 2011, p1237-1245 DOI	2011	PUBLISHED	✘
	Book Chapter	Computational techniques for selection of biomaterial scaffolds for tissue engineering in, editor(s)P.R. Fernandes, P. Bártolo , <i>Advances on Modelling in Tissue Engineering</i> , Berlin, Springer, 2011, [Checa, S, Sandino, C, Byrne DP, Kelly, DJ, Lacroix, D & Prendergast, PJ]	2011	PUBLISHED	✘
	Journal Article	Karen A. Roddy, Geraldine M. Kelly, Maarten H. van Esc, Paula Murphy, and Patrick J. Prendergast, Dynamic patterns of mechanical stimulation co-localise with growth and cell proliferation during morphogenesis in the avian embryonic knee joint, <i>Journal of Biomechanics</i> , 44, (11), 2011, p143-149 TARA - Full Text	2011	PUBLISHED	✘
	Journal Article	Roddy KA, Prendergast PJ, Murphy P, Mechanical Influences on Morphogenesis of the Knee Joint Revealed through Morphological, Molecular and Computational Analysis of Immobilised Embryos., <i>PLoS one</i> , 6, (2), 2011, pe17526 TARA - Full Text	2011	PUBLISHED	✘
	Journal Article	Nowlan N.C., Dumas, G., Tajbaksh S., Prendergast P. And Murphy P. , Passive Movement Due to External Mechanical Stimulation Plays a Role in Embryonic Skeletal Development. , <i>Biomechanics and Modeling in Mechanobiology</i> , epub ahead of print, 2011	2011	PUBLISHED	✘
	Journal Article	P.J. Prendergast, P.E. Galibarov, C. Lowrey, A.B. Lennon, Computer simulating a clinical trial of a load-bearing implant: example of an intramedullary prosthesis, <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 4, (8), 2011, p1880-1887 TARA - Full Text	2011	PUBLISHED	✘
	Journal Article	Nowlan, N.C., Dumas, G., Tajbaksh, S., Prendergast, P.J., Murphy, P., Biophysical stimuli induced by passive movements compensate for lack of skeletal muscle during embryonic skeletogenesis , <i>Biomechanics and Modelling in Mechanobiology</i> , 11, (1-2), 2011, p207-219 TARA - Full Text	2011	PUBLISHED	✘

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Dr. Patrick Prendergast

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Population Health, Healthcare and Innovation

Student Research Opportunities

Research Reports

Staff

Name	Position	Email	Phone
Nursing			
Comiskey, Professor Catherine	Professor/ Head of School	catherine.comiskey@tcd.ie	+353 1 896 2776
O'Rourke, Mr. Frank	School Administrator	frank.orourke@tcd.ie	+353 1 896 3009
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Begley, Ms. Thelma	Assistant Professor	tbegley@tcd.ie	+353 1 896 4041
Brady, Dr. Anne-Marie	Asst Prof/Director of Centre for Practic	anne-marie.brady@tcd.ie	+353 1 896 3004
Brady, Ms. Vivienne	Assistant Professor	vivienne.brady@tcd.ie	+353 1 896 4149
Brennan, Dr. Damien	Assistant Professor	dbrennan@tcd.ie	+353 1 896 3114
Brennan, Dr. Michael	Assistant Professor	hbrennam@tcd.ie	+353 1 896 3950

The academic staff member shall meet at least one of the criteria below.

- (A) In the immediate past six year period, be the author or co-author of at least one book² published by a recognised academic publisher. The 6 year period is chosen to reflect the time taken to write a book of high-quality;
- (B) In the immediate past four year period, have four outputs of demonstrable high-quality in research. (A four year period is chosen, rather than a shorter period, because it is recognised that there may be periods in an academic career when research is under preparation or awaiting publication and 4 years is considered an appropriate 'averaging' period – clearly a longer period might be better but there is a bureaucratic overhead in assessments over long periods.) Outputs may include a combination of³ :
- i. research publications (journal articles in peer-reviewed journals of high standing⁴, edited books or special issues of journals, articles or chapters in edited volumes, full length papers (but not simply abstracts) in edited conference proceedings according to either of the following numerics: (a) publications (reflecting outputs from individual research/scholarship) count as 1 requiring 4 such publications to fully meet the criterion, or (b) publications (reflecting outputs from team-based research/scholarship) count as 0.5 requiring 8 such publications to fully meet the criterion;
 - ii. Translations (literary, legal, etc.)
 - iii. Curation of exhibitions (art, science)
 - iv. Fieldwork collection for archives (speech, folklore, music, material culture)
 - v. Data sets and databases: linguistic corpora, online collections of materials, etc.
 - vi. Research bibliographies, discographies, filmographies, etc.
 - vii. Test and assessment development
 - viii. Development of formal protocols in research-based practice (especially in education and health sciences)
 - ix. Geographical information: GIS data mapping, interactive maps, conventional cartography
 - x. Manuscript editing (including electronic dissemination thereof)
 - xi. Conservation and restoration: art, artifacts, architecture
 - xii. Nonfiction works for the general public
 - xiii. Public outreach in radio and television
 - xiv. Archaeological excavations (and reports thereof)
 - xv. Research-based websites and CD-ROMs
 - xvi. Publically-available public service reports
 - xvii. Film (documentary, dramatic, non-narrative)
 - xviii. Creation and maintenance of visual portfolios (art, photography)
 - xix. Creative works (literature, visual arts, music, drama, etc.) as appropriate to university activity
 - xx. Patents and other forms of Intellectual Property
 - xxi. Campus companies (entrepreneurial activity)

Note that the review periods (six years in A and four years in B) are to be extended to account for breaks in employment, e.g. parental leave.

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1 book in past 6 years
or
4 single-authored peer reviewed/quality publications over the past 4 years /
8 multi-authored peer reviewed/quality publications over the past 4 years

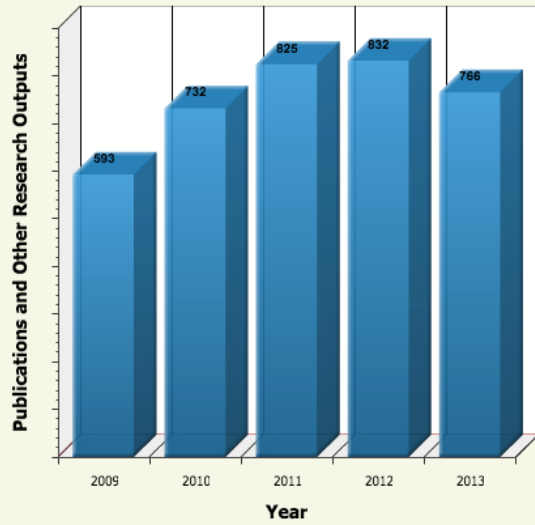
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Publication or Other Research Output	New to RSS?
Archaeological excavation work	[new]
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Book	Existing
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Campus company	[new]
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Computer Science technical report	Existing
Computer software	[new]
Conference Paper	Existing
Conservation, restoration work	[new]
Dataset	[new]
Digital research resource production	[new]
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Editorial Board	Existing
Exhibition	[new]
Fiction, Creative prose	[new]
Fieldwork collection	[new]
Film production	[new]
Invited Talk	Existing
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Journal	Existing
Journal Article	Existing
Map, GIS map	[new]
Meeting Abstract	Existing
Meetings / Conferences Organised	Existing
Music production	[new]
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Working Paper	Existing
Miscellaneous [<i>Links to a retained secondary list of additional outputs types</i>]	Existing

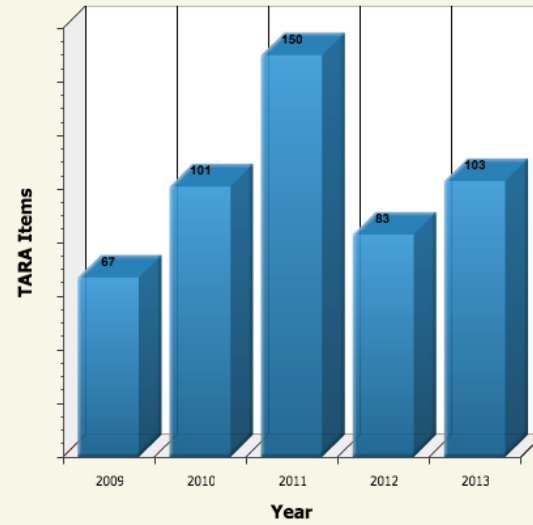
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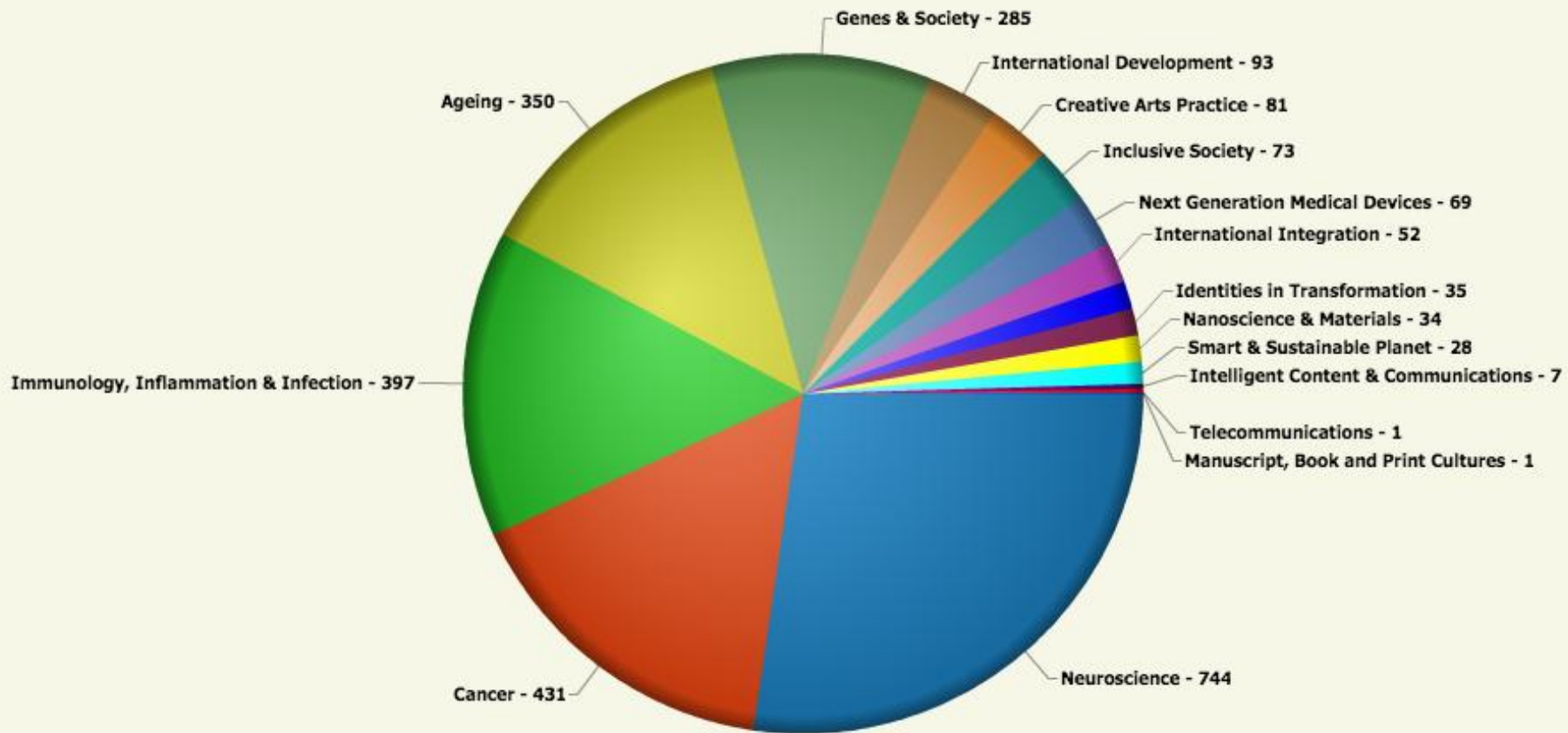
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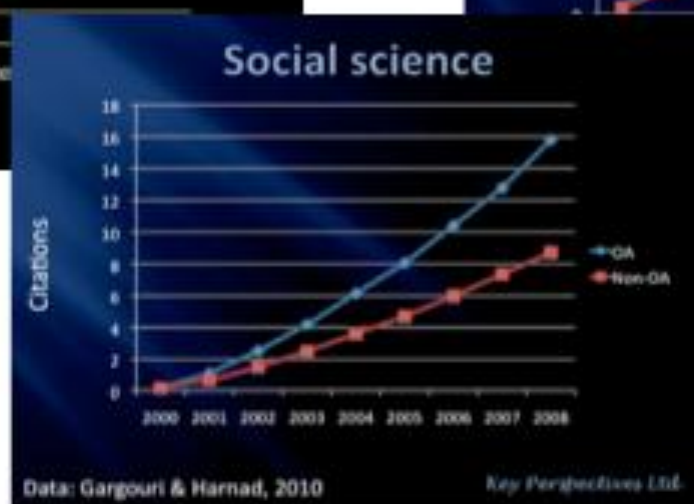
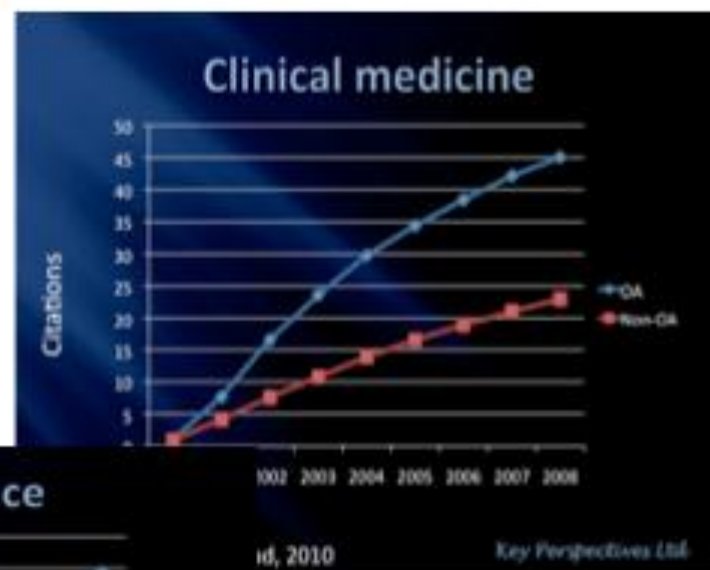
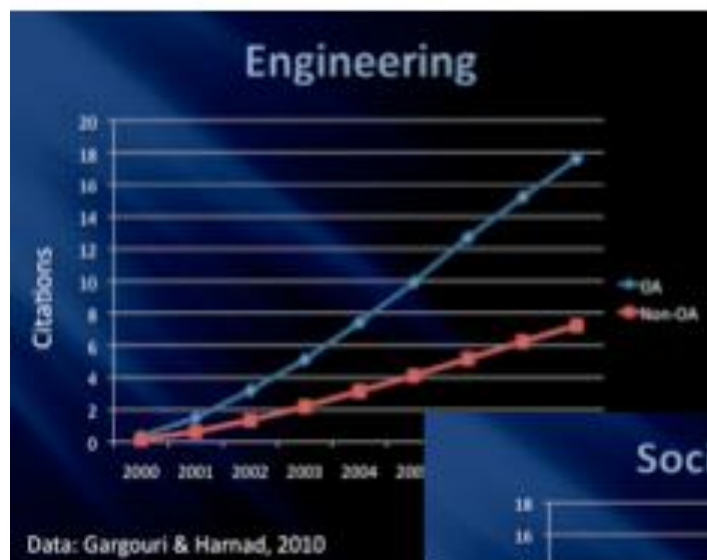
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Awadhesh Narayan, Aaron Hurley and Stefano Sanvito, Gate controlled spin pumping at a quantum spin Hall edge, *Applied Physics Letters*, 103, 2013, 142407-

Abstract:

We propose a four-terminal device designed to manipulate by all electrical means the spin of a magnetic adatom positioned at the edge of a quantum spin Hall insulator. We show that an electrical gate, able to tune the interface resistance between a quantum spin Hall insulator and the source and drain electrodes, can switch the device between two regimes: one where the system exhibits spin pumping and the other where the adatom remains in its ground state. This demonstrates an all-electrical route to control single spins by exploiting helical edge states of topological materials.

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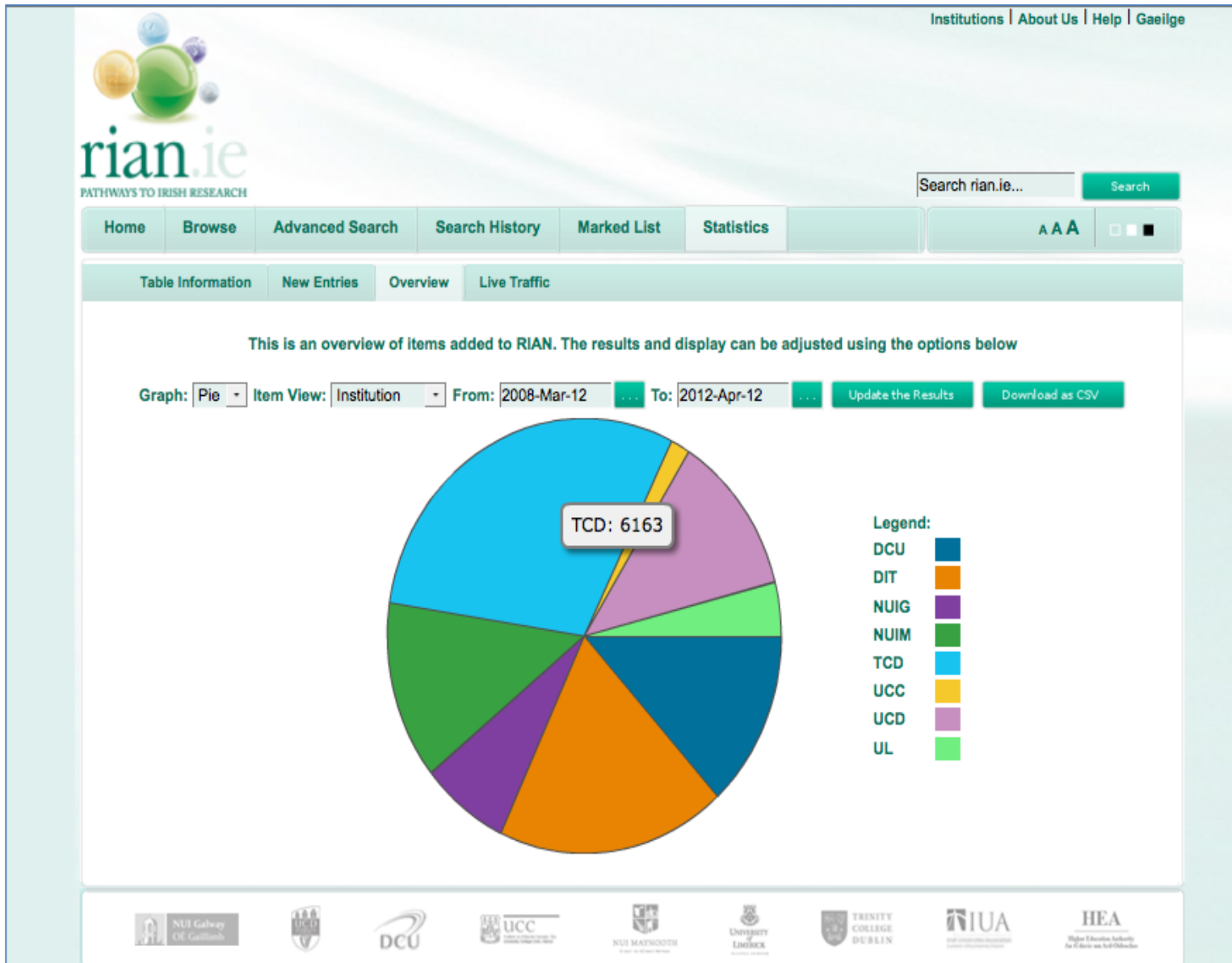
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	Journal Article	Khayyeri H, Prendergast PJ, The emergence of mechanoregulated endochondral ossification in evolution., <i>Journal of biomechanics</i> , 46, (4), 2013, p731-7	2013	PUBLISHED	✗
	Journal Article	Boyle CJ, Lennon AB, Prendergast PJ, Application of a mechanobiological simulation technique to stents used clinically., <i>Journal of biomechanics</i> , 46, (5), 2013, p918-24	2013	PUBLISHED	✗
	Journal Article	Khayyeri H, Isaksson H, Prendergast PJ, Corroboration of computational models for mechanoregulated stem cell differentiation., <i>Computer methods in biomechanics and biomedical engineering</i> , 2013	2013	PUBLISHED	✗
	Journal Article	Newe, C., Cunningham, E., Buchanan, F., Walker, G., Prendergast, P.J., Lennon, A., Dunne, N., Static and dynamic degradation of sintered calcium phosphate ceramics, <i>Key Engineering Materials</i> , 493-494, 2012, p861 - 865 DOI	2012	PUBLISHED	✗
	Journal Article	Nowlan, N.C., Dumas, G., Tajbaksh, S., Prendergast, P.J., Murphy, P., Biophysical stimuli induced by passive movements compensate for lack of skeletal muscle during embryonic skeletogenesis., <i>Biomechanics and Modelling in Mechanobiology</i> , 11, 2012, p207-219	2012	PUBLISHED	✗
	Journal Article	Galilbarov PE, Prendergast PJ, Lennon AB, A probabilistic modelling scheme for analysis of long-term failure of cemented femoral joint replacements., <i>Proceedings of the Institution of Mechanical Engineers. Part H, Journal of engineering in medicine</i> , 226, (11), 2012, p927-38	2012	PUBLISHED	✗
	Journal Article	Kelly, G.M., Kilpatrick, J.I., van Es, M.H., Weafer, P.P., Prendergast, P.J., Jarvis, S.P., Bone cell elasticity and morphology changes during the cell cycle , <i>Journal of Biomechanics</i> , 44, (8), 2011, p1484-1490 DOI	2011	PUBLISHED	✗
	Journal Article	Khayyeri, H., Checa, S., Tägil, M., Aspenberg, P., Prendergast, P.J, Variability observed in mechano-regulated in vivo tissue differentiation can be explained by variation in cell mechano-sensitivity, <i>Journal of Biomechanics</i> , 44, (6), 2011, p1051-1058 DOI	2011	PUBLISHED	✗
	Journal Article	Checa, S., Prendergast, P.J., Duda, G.N, Interspecies investigation of the mechano-regulation of bone healing: Comparison of secondary bone healing in sheep and rat, <i>Journal of Biomechanics</i> , 44, (7), 2011, p1237-1245 DOI	2011	PUBLISHED	✗
	Book Chapter	Computational modelling for selection of biomaterial scaffolds for tissue engineering in, editor(s)P.R. Fernandes, P. Bártolo , <i>Advances on Modelling in Tissue Engineering</i> , Berlin, Springer, 2011, [Checa, S., Serrano, C, Byrne DP, Kelly, D., Croix, D & Prendergast, PJ]	2011	PUBLISHED	✗
	Journal Article	Karen A. Roddy, Geraldine M. Kelly, Maarten H. van Esc, Paula Murphy, and Patrick J. Prendergast, Dynamic patterns of mechanical stimulation co-localise with growth and cell proliferation during morphogenesis in the avian embryonic knee joint, <i>Journal of Biomechanics</i> , 44, (11), 2011, p143-149 TARA - Full Text	2011	PUBLISHED	✗
	Journal Article	Roddy KA, Prendergast PJ, Murphy P, Mechanical Influences on Morphogenesis of the Knee Joint Revealed through Morphological, Molecular and Computational Analysis of Immobilised Embryos., <i>PLoS one</i> , 6, (2), 2011, pe17526 TARA - Full Text	2011	PUBLISHED	✗
	Journal Article	Nowlan N.C., Dumas, G., Tajbaksh S., Prendergast P. And Murphy P. , Passive Movement Due to External Mechanical Stimulation Plays a Role in Embryonic Skeletal Development . , <i>Biomechanics and Modelling in Mechanobiology</i> , epub ahead of print, 2011	2011	PUBLISHED	✗
	Journal Article	P.J. Prendergast, P.E. Galilbarov, C. Lowrey, A.B. Lennon, Computer simulating a clinical trial of a load-bearing implant: example of an intramedullary prosthesis, <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 4, (8), 2011, p1880-1887 TARA - Full Text	2011	PUBLISHED	✗
	Journal Article	Nowlan, N.C., Dumas, G., Tajbaksh, S., Prendergast, P.J., Murphy, P., Biophysical stimuli induced by passive movements compensate for lack of skeletal muscle during embryonic skeletogenesis , <i>Biomechanics and Modelling in Mechanobiology</i> , 11, (1-2), 2011, p207-219 TARA - Full Text	2011	PUBLISHED	✗

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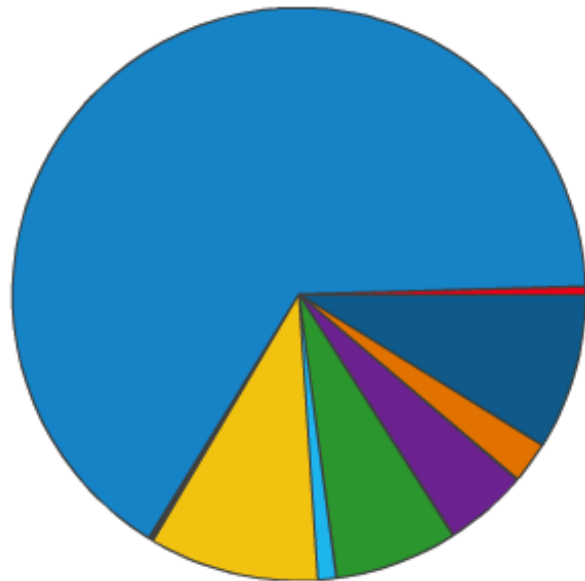
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ATHENA

Anthocyanin and polyphenol bioactives for Health Enhancement through Nutritional Advancement

From 2010-07-01 to 2014-06-30 | ATHENA website

Anthocyanins are health promoting dietary polyphenols that protect against cardiovascular disease, cancer and obesity in preclinical studies with animals. The ATHENA project will address how good dietary anthocyanins are in protecting against chronic disease, by addressing the following questions: Benefits and risks: What is the dose response to anthocyanin phytonutrients? Are anthocyanins from dif...

Project details

Project reference: 245121
Status: Execution
Total cost: EUR 4 173 888
EU contribution: EUR 2 996 226

Programme acronym: FP7-KBBE
Subprogramme area: KBBE-2009-2-2-02
Contract type: Small or medium-scale focused research project

Result in Brief

- Anthocyanin protection against obesity and cancer investigated

Report Summary

- Periodic Report Summary - ATHENA (Anthocyanin and polyphenol bioactives for health enhancement through nutritional advancement)

Documents

- Periodic Report - ATHENA (Anthocyanin and polyphenol bioactives for health enhancement through nutritional advancement)

Publications (17)

- Magnetic interaction of Co ions near the $\{10\bar{1}0\}$ ZnO surface**
Sanvito, Stefano; Archer, Thomas David
2010
- Prediction of large bias-dependent magnetoresistance in *al* I-oxide magnetic tunnel junctions with a ferroelectric barrier**
Sanvito, Stefano; Rungger, Ivan; Archer, Thomas David
2011
- Correlation of Rutin Accumulation with 3-O-Glucosyl Transferase and Phenylalanine Ammonia-lyase Activities During the Ripening of Tomato Fruit**
Capanoglu, E.; Beekwilder, J.; Matros, A.; Boyacioglu, D.; Hall, R. D.; Mock, H. P.
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Prediction of large bias-dependent magnetoresistance in *al* I-oxide magnetic tunnel junctions with a ferroelectric barrier

Citation:

Nuala M. Ca'rey, Thomas Archer, Ivan Rungger, and Stefano Sanvito, Prediction of large bias-dependent magnetoresistance in *al* I-oxide magnetic tunnel junctions with a ferroelectric barrier, *Physical Review B*, 83, 2011, 125409

Abstract:

All-oxide magnetic tunnel junctions (MTJs) incorporating functional materials as insulating barriers have the potential of becoming the founding technology for novel multifunctional devices. We investigate, by first-principles density functional theory, the bias-dependent transport properties of an all-oxide SrRuO₃/BaTiO₃/SrRuO₃ MTJ. This incorporates a BaTiO₃ barrier which can be found either in a nonferroic or in a ferroelectric state. In such an MTJ not only can the tunneling magnetoresistance reach enormous values, but also, for certain voltages, its sign can be changed by altering the barrier electric state. These findings pave the way for a new generation of electrically controlled magnetic sensors.

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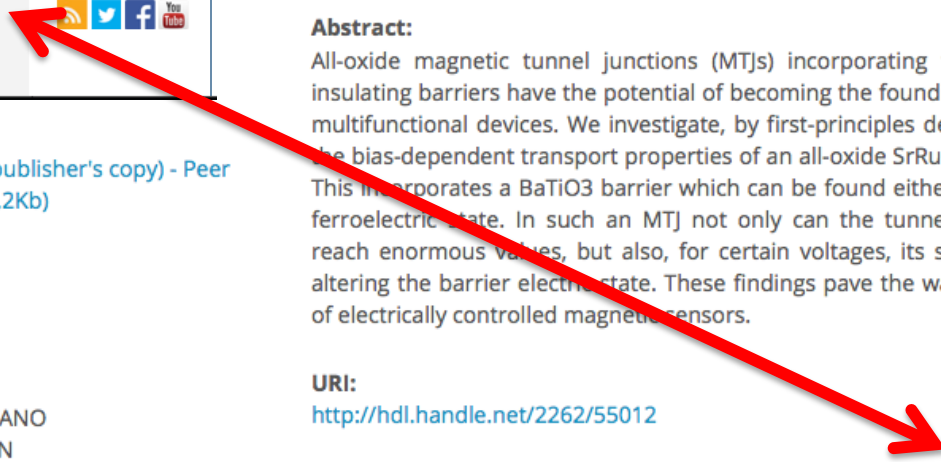
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COMPUTER METHODS IN BIOMECHANICS AND BIOMEDICAL ENGINEERING Volume: 18 Issue: 5 Pages: 468-476 Published: APR 4 2015

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- 2. **Corroboration of computational models for mechanoregulated stem cell differentiation**

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COMPUTER METHODS IN BIOMECHANICS AND BIOMEDICAL ENGINEERING Volume: 18 Issue: 1 Pages: 15-23
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- 3. **Identification of mechanosensitive genes during skeletal development: alteration of genes associated with cytoskeletal rearrangement and cell signalling pathways**

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BMC GENOMICS Volume: 15 Article Number: 48 Published: JAN 20 2014

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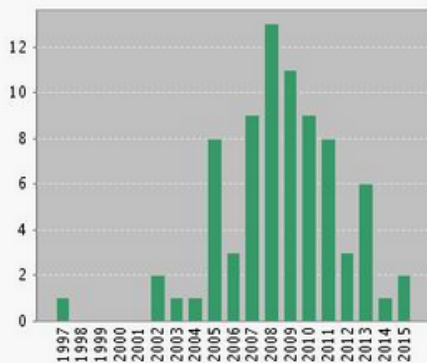
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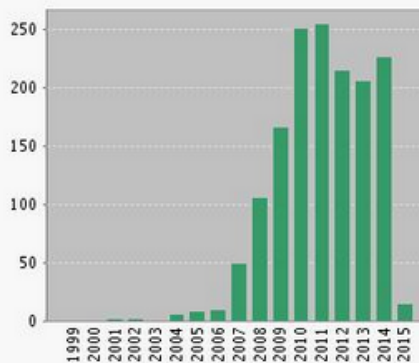
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Author Name

- Prendergast, P.J. (185)
- Lennon, A.B. (23)
- Kelly, D.J. (17)
- Checa, S. (13)
- Murphy, P. (13)

Subject Area

- Engineering (88)
- Medicine (80)
- Biochemistry, Genetics and Molecular Biology (69)
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<input type="checkbox"/>	1	Effect of membrane stiffness and cytoskeletal element density on mechanical stimuli within cells: an analysis of the consequences of ageing in cells	Xue, F., Lennon, A.B., McKayed, K.K., Campbell, V.A., Prendergast, P.J.	2015	Computer Methods in Biomechanics and Biomedical Engineering	0
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Top percentiles per field from Essential Science Indicators (Thomson Reuters)

RESEARCH FIELDS ▲	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
CLINICAL MEDICINE										
0.01%	2,103	2,104	1,309	1,363	1,150	1,083	710	554	377	167
0.10%	700	635	604	488	412	363	261	177	121	48
1.00%	218	206	178	154	131	109	84	59	36	16
10.00%	60	56	50	43	37	31	24	18	11	5
20.00%	36	34	30	26	22	19	15	11	7	3
50.00%	13	12	11	9	8	7	6	4	3	1
PHARMACOLOGY & TOXICOLOGY										
0.01%	958	1,371	1,233	906	733	606	513	295	168	91
0.10%	507	451	454	361	328	229	203	135	76	32
1.00%	177	160	154	131	116	94	69	49	31	14
10.00%	57	51	48	42	37	31	24	17	11	5
20.00%	36	33	31	27	24	20	16	12	8	3
50.00%	15	14	13	11	10	8	7	5	3	1

Scholarly Open Access

Critical analysis of scholarly open-access publishing

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Disclaimer

LIST OF PUBLISHERS

LIST OF STANDALONE JOURNALS

Other pages

LIST OF STANDALONE JOURNALS

Potential, possible, or probable predatory scholarly open-access journals

This is a list of questionable, scholarly open-access standalone journals. For journals published by a publisher, please look for the publisher on the list of publishers, [here](#). This list is only for single, standalone journals.

We recommend that scholars read the available reviews, assessments and descriptions provided here, and then decide for themselves whether they want to submit articles, serve as editors or on editorial boards. The criteria for determining predatory journals are [here](#).

We hope that tenure and promotion committees can also decide for themselves how importantly or not to rate articles published in these journals in the context of their own institutional standards and/or geo-cultural locus. We emphasize that journals change in their business and editorial practices over time. This list is kept up-to-date to the best extent possible but may not reflect sudden, unreported, or unknown enhancements

- o [Academic Exchange Quarterly](#)
- o [Academy of Contemporary Research Journal \(AOCRJ\)](#)
- o [Accountancy Business and the Public Interest](#)
- o [ACME Intellectuals](#)
- o [Acta de Gerencia Ciencia \(CAGENA\)](#)
- o [Acta Advances in Agricultural Sciences \(AAAS\)](#)
- o [Acta Medica International](#)
- o [Advances in Forestry Letter](#)
- o [Afrasian Journal of Humanities and Social Sciences \(AAJHSS\)](#)

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Predatory Publishers

<http://scholarlyoa.com/individual-journals/>

Checking Journal Legitimacy

- Entry in the [Directory of Open Access Journals](#) (DOAJ) – journals must meet strict criteria to qualify
- Publisher's membership of [Open Access Scholarly Publishers Association](#) (OASPA) – members are bound by a code of conduct based on standard publishing practices & transparency
- Publisher's membership of the [Committee on Publication Ethics](#) (COPE) – membership demonstrates commitment to widely accepted publishing practices
- Publisher's membership of the [International Association of Scientific, Technical & Medical Publishers](#) (STM) – membership demonstrates commitment to widely accepted publishing practices
- Named editor and editorial board – recognised experts in their field who include their editorial commitment on their own research profiles
- Full contact details (email, postal address, working telephone number)
- Visibility of costs associated with publishing

Good examples of high quality Open Access Journals:

[eLife](#)

[PeerJ](#)

[Social Sciences Directory](#)

Re-cap

Your Research Profile Health Check

- ✓ Keep your RSS profile updated.
- ✓ Make as many of your papers as possible available on Open Access through TARA.
- ✓ Use Research Professional for funding alerts (contact Oonagh Kinsman, Research Office).
- ✓ Promote your work (and your university!) via all means including social media (Twitter, Linked in, Facebook, Personal blog etc.).
- ✓ Get an ORCID id.
- ✓ Know your h-index.
- ✓ Set up alerts for your citations in WoS, Scopus, Google Scholar.
- ✓ Regularly analyse your citations and those of your network, change journals if where you're publishing is not reaching your audience/getting your work cited.
- ✓ Check how you are featured in WoS, Scopus etc. & consolidate your variant names if necessary.
- ✓ Organise conferences.
- ✓ Attend publisher workshops.

Key Resources

- MyRi Bibliometrics Toolkit:

<http://www.ndlr.ie/myri/>

Information literacy:

<http://www.informationliteracy.ie>

MyRi An Open Access toolkit to support bibliometrics training and awareness

Measuring your Research Impact

Home | About | Online Tutorial | For Workshops & Presentations | Partners area

MyRi promotion video

News

Testimonials
"Your tutorial and worksheets [...] are very thorough and demonstrate a comprehensive knowledge and understanding of the issues and challenges associated with measuring research impact." [More...](#)

CONUL Seminar May 2011
The MyRi project will be the subject of a presentation at the annual CONUL Advisory Committee on Information Literacy (ACIL) seminar in May 2011.

INULS June 2011
The official launch of the MyRi toolkit will be taking place at the INULS conference, June 22-24, at the pre-conference dinner reception which the project is sponsoring.

Explore the materials we have for you...

- An online tutorial
This is in 3 modules: introductory overview; Journal ranking; bibliometrics to support your career and research strategy. Includes videos, quizzes and other interactive elements.
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Graduate Information Literacy Module: Navigation | Printer Friendly | Credits

Ruth Graduate Information Literacy Skills Guide

Menu

- ▶ Unit 2: Evaluating your Search
- ▶ Unit 3: Tracking down Results
- ▶ Unit 4: Managing your Information
- ▶ Unit 5: Ethics in Using Information
- ▶ Unit 6: Publishing & Disseminating
- ▶ Unit 8: Publishing & Disseminating
- ▶ 6.1 Aim & Objectives and Learning Outcomes
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- 6.3 Self Reflection Activity
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6.7.1 Determining the quality of a Journal?

Peer Review

Journal Impact Factor

Sample Journal Citation Report

Measuring Impact: Bibliometrics

Interpreting Citation Analysis Data

Measuring Impact: Bibliometrics

use bibliometrics to some extent, often alongside other metrics. Examples are the UK Research Assessment Exercise (RAE) - now the UK Research Excellence Framework (REF), the Times Higher Education Supplement rankings, and the "Shanghai" rankings. The methodologies used in these rankings are often highly contentious.

Important tools for Bibliometric Analysis

Essential Science Indicators: shows the top institutions worldwide in a number of subjects based on bibliometrics.

ISI Web of Science: "seamless access to current and retrospective multidisciplinary information from approximately 8700 of the most prestigious peer-reviewed international journals".

Scopus: "the largest abstract and citation database of research literature and quality web sources".

Google Scholar: "a freely-accessible Web search engine that indexes the full text of scholarly literature across an array of publishing formats and disciplines".

Publish or Perish: "A citation analysis software program, designed to help individual academics to present their case for research impact to its best advantage". See <http://www.harzing.com/pop.htm>.

Key Papers

- Using Bibliometrics: A Guide to Evaluating Research Performance with Citation Data

http://interest.science.thomsonreuters.com/forms/Verify?doc=http://science.thomsonreuters.com/m/pdfs/325133_thomson.pdf&rt=Marketing&sbu=SSR&cid=70170000000152W&cn=2008-AG-BiblioWhitePaper#1

- "Charting Research Performance"

http://science.thomsonreuters.com/m/pdfs/IT_Reprint.pdf

Consolidate your identity in the bibliometric databases!

Google Scholar Citations

Create Account: <http://scholar.google.com/citations>

Search Page: http://scholar.google.com/citations?view_op=search_authors

ResearcherID (Thomson Reuters)

Create Account: www.researcherid.com/SelfRegistration.action

Search Page: www.researcherid.com/ViewProfileSearch.action

Scopus Author Profiles

Search Page: www.scopus.com/search/form/authorFreeLookup.url

ORCID Registry

Create Account: <https://orcid.org/register>

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