For links to resources used in this workshop go to: http://www.symbaloo.com/mix/ullibraryresearch
Course Outline

• Getting Published
• Maximising Your Research Impact
• Measuring Your Research Impact
Why do you Publish?

- Inform the discipline & share knowledge
- Career advancement
- Research grants
- Attract collaborators

How do you Publish?

- Journal Articles, Books, Chapters, Conference Lectures & Posters, Reviews, Reports, Patents, Datasets, Interviews, Newspaper/Magazine Articles, Blogs, Tweets...
Book Publishing

- How reputable and suitable is the publisher?
- Editorial Board / Peer-Review System / Distribution / Promotion
- Publisher website
- Avoid vanity presses & print-on-demand publishers
## UL’s List of High Impact Book Publishers 1

### A+ major European and US university presses
- Cambridge University Press
- Columbia University Press
- Cornell University Press
- Harvard University Press (and imprints such as Belknap)
- Johns Hopkins University Press
- MIT Press
- Oxford University Press (and imprints such as Clarendon)
- Princeton University Press
- Stanford University Press (and imprints such as Hoover)
- University of California Press
- University of Chicago Press
- Yale University Press

### A other large European and US university presses and high impact international commercial publishers
- Allen Lane/Penguin
- Basic
- Duke University Press
- Manchester University Press
- Michigan University Press
- Palgrave Macmillan
- Polity
- Routledge
- Rowman & Littlefield
- Sage
- University of Pennsylvania Press
- Verso
### UL’s List of High Impact Book Publishers 2

**B+ more specialised US and European commercial presses specialising in academic publishing and smaller university presses**
- Blackwell
- Edinburgh University Press
- Hurst
- Indiana University Press
- Lynn Rienner
- Pluto Press
- Random House
- Rutgers University Press
- Westview
- Zed

**B more specialised commercial presses in academic publishing, national university presses**
- Allen and Unwin
- Ashgate
- Berg
- Blackhall Publishing
- Brill
- Cork University Press
- Edward Arnold
- Edward Elgar
- Gill and Macmillan
- Hart
- I.B. Tauris
- John Wiley
- M.E. Sharpe
- Methuen
- Praeger
- Pinter
- Prentice Hall
- Random House
- Roundhall
- Sweet & Maxwell
- Springer
- St Martins Press
- Texas University Press
- UCD Press

**C others**
- Anthem
- Clarus
- Four Courts
- Frank Cass
- Irish Academic Press
- Irish Manuscripts Commission
- Jessica Kingsley
- Kluwer
- Lexington
- New Island
- Nova Science Publishers Inc
- Ohio State University Press
- Open University Press
- Reaktion
- Rodopi
- Scribner
- Taylor & Francis
- Transaction
- Woodhead Publishing
CERES System of Research Valuation


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Journal Publishing

- Journal scope
- Editorial Board / Peer-Review System / Waiting time
- Terms and Conditions
- Publisher website
- Impact factor metrics – JIF, SJR, SNIP
Tools to Help You Select an Appropriate Journal

- In **EndNote Online** there is a tool called **“Match”** which will suggest suitable Web of Science journals for an article title & abstract. It will also give you the Journal Impact Factor and quartile(s) of each journal it suggests with links to similar articles from that journal (see [http://endnote.com/product-details/manuscript-matcher](http://endnote.com/product-details/manuscript-matcher)).
- The **analyse results tools** in **Web of Science** and **Scopus** can be used to find appropriate journals for your article:
  - Web of Science: [Video tutorial](http://endnote.com/product-details/manuscript-matcher)
  - Scopus: [Video tutorial](http://jane.biosemantics.org/)
Maximising Your Research Impact

1. Publish in high impact journals
2. Collaborate with other researchers
3. Ensure research is easily identifiable
4. Increase the visibility of research outputs
5. Communicate & promote research outputs
1. Publish in High Impact Journals

• Impact factor metrics (JIF, SJR & SNIP) should be used as a guide to selecting high impact journals
• You should consult with your peers & check that the scope of the journal matches your article topic before submitting to a journal
• Publishing in high impact journals does not guarantee that an article will receive high citations
Journal Impact Factor Calculation

Citations in 2016 for items published in 2015 + 2014

\[ \div \]

Total No. of articles published in 2015 + 2014

\[ = \]

Journal Impact Factor

*Impact factor is a relative number*
### Journals By Rank

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<th>Total Cites</th>
<th>Journal Impact Factor</th>
<th>Eigenfactor Score</th>
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<td>2</td>
<td>NEW ENGLAND JOURNAL OF MEDICINE</td>
<td>268,652</td>
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<td>3</td>
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<td>10,750</td>
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</table>
Exercise 1 – JCR

1. Open the UL Library website at www.ul.ie/library and go to Databases in the left hand navigation bar. Then select J and go to Journal Citation Reports (New Version) (https://jcr.incites.thomsonreuters.com/)

2. Is Peptides included in the 2016 Journal Citation Reports?

3. What is its impact factor?

4. What subject category or categories does it belong to?

5. Based on Impact Factor, what is its ranking and quartile in each subject category?
JCR Online Tutorials

http://wokinfo.com/training_support/training/journal-citation-reports/

WEB OF SCIENCE™

JOURNAL CITATION REPORTS

Journal Citation Reports® (JCR) offers a systematic, objective means to critically evaluate the world’s leading journals, with quantifiable, statistical information based on citation data.

REGISTER FOR LIVE TRAINING

RECORDED TRAINING MATERIALS

Impact Factor

Immediacy Index

View in: English | Czech | Deutsch | Español | Français | Português
SCImago Journal Rank (SJR)

- Freely available on the web & via Scopus
- Uses Scopus dataset & Google PageRank™ algorithm
- Coverage is wider than Web of Science / JCR
- SJR gives higher weight to citations from high impact journals
- Calculated over a 3 year period
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CiteScore

https://journalmetrics.scopus.com/

- Freely available on the web & via Scopus
- Similar calculation to Journal Impact Factor except 3 year period
SNIP

- SNIP = source normalized impact per paper
- Based on Elsevier’s Scopus data
- Freely available on the web
  www.journalindicators.com & via Scopus
- SNIP numbers can be compared for any two journals, regardless of the field
- SNIP is defined as the ratio of the Raw Impact per Paper divided by the Database Citation Potential
Scopus – Compare Journals Tool
(http://www.scopus.com/source/eval.url)
Discipline Specific Rankings

- Washington and Lee Law Journal Ranking
  (http://lawlib.wlu.edu/LJ/)

- Harzing’s Journal Quality List
  (http://www.harzing.com/jql.htm)
**ENTREPRENEURSHIP AND SMALL BUSINESS MANAGEMENT**

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<td>1042-2587</td>
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<td>0894-4865</td>
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<tr>
<td>1355-2554</td>
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European Reference Index for the Humanities & the Social Sciences (ERIH PLUS)

• ERIH PLUS includes scientific journals in humanities & social sciences published in Europe that meet benchmark standards

• Journals are not allocated to particular categories

• [https://dbh.nsd.uib.no/publiseringskanaler/erihplus/](https://dbh.nsd.uib.no/publiseringskanaler/erihplus/)
The European Science Foundation (ESF) signed in January 2014 a memorandum of understanding with the NSD - Norwegian Centre for Research Data to transfer the maintenance and operations of the European Reference Index for the Humanities (ERIH) to NSD. The ERIH database operated by NSD is called ERIH PLUS.

Search

NOTE: The search is not working for ISSN ending with X.

Search hits

The search returned 947 hits.

1. Zeitschrift für französische Sprache und Literatur
   Print ISSN: 0044-2747   Electronic ISSN: 2366-2425
   Country of publication: Germany   Language: Multiple languages
   Discipline: Linguistics

2. ITL International Journal of Applied Linguistics
   Print ISSN: 0019-0810   Electronic ISSN: 1783-1490
   Country of publication: Belgium   Language: Multiple languages
   Discipline: Linguistics

3. Journal of the Chinese Language Teachers Association
   Print ISSN: 0009-4595   Electronic ISSN: 2352-2259
   Country of publication: United States   Language: Chinese
   Discipline: Linguistics

4. Kwartalnik neofilologiczny
   Print ISSN: 0023-5911
   Discipline: Linguistics
2. Collaborate with Other Researchers

- Collaborate with researchers in other institutions
- Co-authored papers, especially with international authors, are cited more frequently
- Collaboration can lead to better quality research due to the complementary skills of the team
- Tips on getting started with co-authoring:
  
  [http://www.jobs.ac.uk/media/pdf/careers/resources/case-study-co-authorship-or-how-to-publish-without-losing-friends-or-colleagues.pdf](http://www.jobs.ac.uk/media/pdf/careers/resources/case-study-co-authorship-or-how-to-publish-without-losing-friends-or-colleagues.pdf)
3. Ensure Research is Easily Identifiable

- You should always use the same name version consistently throughout your career
- Create online researcher profile(s):
  - ORCID
  - ResearcherID
  - Google Scholar Profile
ORCID = Open Researcher and Contributor ID

“ORCID is like a DOI for researchers”

http://orcid.org/0000-0002-1228-5109
ORCID Helps You to:

• Ensure your work is **discoverable** & connected to you throughout your career
• Eliminate name ambiguity, distinguishing you from other researchers & ensuring your work **is easily identifiable** as your own (i.e. proper attribution)
• Save time by **associating your existing IDs** (e.g. ResearcherID, Scopus Author Profile) with ORCID & exchanging profile and/or publication data between them
### My Publications: View

This list contains papers that I have authored.

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<tr>
<td>1. Title: Measuring the value of e-resources&lt;br&gt;Author(s): Bracken, Fintan&lt;br&gt;Source: An Leabharlann - The Irish Library Volume: 23 Pages: 4-11 Published: 2014&lt;br&gt;Author-provided URL:</td>
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</table>
### Fintan Bracken

**Research Services & Bibliometrics Librarian, University of Limerick**

Verified email at ul.ie

Library and information science Bibliometrics Virtual Research Environment Usability studies Ornithology

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<td>Effects of set-aside management on birds breeding in lowland Ireland</td>
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<td>Agriculture, Ecosystems &amp; Environment 117 (2), 178-184</td>
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<td>Breeding bird populations of Irish peatlands</td>
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<td>Bird Study 55 (2), 169-178</td>
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<td>The impact of farming on over-wintering bird populations</td>
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**Cited by**

- **All**: 68
- **Since 2012**: 37
- **h-index**: 4
- **i10-index**: 2

---

**Co-authors**

- Barry John McMahon
  - Lecturer in Wildlife Conservation Management
- Stephanie Ronan
  - Marine Institute
- Judith Wustemen
  - Lecturer in Information Studies
### Ranking of scientists in Irish institutions according to their Google Scholar Citations public profiles


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<thead>
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<td>Werner Blau</td>
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<td>University College Cork</td>
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<td>20</td>
<td>John Cryan</td>
<td>University College Cork</td>
<td>71</td>
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**From the “Webometrics Ranking of World Universities” – an initiative of the Cybermetrics Lab, a research group belonging to the Consejo Superior de Investigaciones Científicas (CSIC), the largest public research body in Spain.**
Welcome Dr. Fintan Bracken
BSC MLIS PHD
Assistant Librarian
Academic & Registrar

Profile last published:

Search Profiles

You can search all active profiles and research publications by keyword:

Search For:

Include Staff Profiles □
Include Publications □

Activities By Year

Select Chart: Publications by Year

UL Research Information System

Overview

Your publishing alias(es) are: Bracken, F, Bracken F. You can change them here.

You do not have any unclaimed publications.

UL Research Information System User Guide

If you have any problems using the system, please e-mail ulris@ul.ie

Welcome to UL’s Research Information System for recording your Research profile information and research outputs (publications, project, patents etc.) The aim of the Research Information System is to provide researchers with a system that is easy and quick to populate and also allows the end user to extract their data quickly and easily. The main benefits of the new Research Information System are:

Automatic download of new publications from ISI & PubMed.
Dr. Fintan Bracken BSC MLIS PHD

Contact Details
Title: Research Services & Bibliometrics Librarian
Address: Library & Information Services Division G10-021 Glucksman Library University of Limerick Limerick Ireland
Telephone: +353 61 202168
Email: fintan.bracken@ul.ie
Homepage: Web Page

Title: Assistant Librarian
Address: Address
Email: fintan.bracken@ul.ie

Biography:
I am currently working as Research Services and Bibliometrics Librarian based in the Glucksman Library. I offer research support to all researchers including post-graduate students and faculty members. I previously worked as Assistant Librarian with IRIS Electronic Information Services Ltd. providing access to electronic resources via IReL. I also worked in the research library of the Marine Institute. I have conducted research on bird biodiversity in various farmland, woodland and peatland habitats during my PhD and post-doctoral studies in University College Dublin.

Peer Reviewed Journals
Bracken, F; Earls, D; Madders, C; O’Leary, F; Ronan, S; Tolan, P; Ward, C; Wusteman, J (2014) ‘The potential use of online tools for scientific collaboration by biology researchers’. ASLIB Proceedings, 66 (11).

Book Chapters

Article

Thesis
4. Increase the Visibility of Research Outputs

- Search Engine Optimisation (SEO)
  - The process of identifying factors which impact search engine accessibility
- Make your work available on Open Access (OA)
  - The practice of granting free Web access to research articles and other products of research
1. Ensure the title is clear & descriptive & incorporates a key phrase related to your topic. Avoid humorous titles.

2. Choose appropriate keywords & phrases for your abstract and repeat them 3-4 times throughout the abstract.

3. Provide at least five keywords or phrases in the keywords field including those you repeated in your abstract. Provide additional relevant keywords & synonyms for those keywords as they relate to your article.

4. Use headings for the various sections of your article to tip off search engines to the structure and content of your article.

Well-Optimized Abstract Example

Ocean Acidification and Its Potential Effects on Marine Ecosystems

Keywords
ocean acidification, climate change; carbonate saturation state; seawater chemistry; marine ecosystems; anthropogenic CO₂

Abstract
Ocean acidification is rapidly changing the carbonate system of the world oceans. Past mass extinction events have been linked to ocean acidification, and the current rate of change in seawater chemistry is unprecedented. Evidence suggests that these changes will have significant consequences for marine taxa, particularly those that build skeletons, shells, and tests of biogenic calcium carbonate. Potential changes in species distributions and abundances could propagate through multiple trophic levels of marine food webs, though research into the long-term ecosystem impacts of ocean acidification is in its infancy. This review attempts to provide a general synthesis of known and/or hypothesized biological and ecosystem responses to increasing ocean acidification. Marine taxa covered in this review include tropical reef-building corals, cold-water corals, crustose coralline algae, Halimeda, benthic mollusks, echinoderms, coccolithophores, foraminifera, pteropods, seagrasses, jellyfishes, and fishes. The risk of irreversible ecosystem changes due to ocean acidification should enlighten the ongoing CO₂ emissions debate and make it clear that the human dependence on fossil fuels must end quickly. Political will and significant large-scale investment in clean-energy technologies are essential if we are to avoid the most damaging effects of human-induced climate change, including ocean acidification.

Types of Open Access

- **Green open access** → immediate or delayed open access that is provided through self-archiving
  - Free
  - E.g. Institutional Repositories

- **Gold open access** → immediate open access that is provided by a publisher either in a fully OA journal or a hybrid journal
  - Usually author pays fee (approx. US$500-US$5,000)
  - E.g. PLoS One, Blood Cancer Journal
Benefits of Open Access

- No subscriptions necessary
- Greater visibility of your research – indexed by Google Scholar, Google, etc.
- Dissemination of knowledge – a public good
- Satisfy funding agency requirements (e.g. SFI, IRC, EU)
  - Peer-reviewed publications from projects funded by Horizon 2020 must be made OA within 6 months (social sciences & humanities 12 months)
- Increases research exposure and citation rate (Open Access citation advantage)
# The Open Access Citation Advantage

<table>
<thead>
<tr>
<th>Total number of studies up to 2015</th>
<th>70</th>
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</thead>
<tbody>
<tr>
<td>Studies that found a citation advantage</td>
<td>46 (66%)</td>
</tr>
<tr>
<td>Studies that found no citation advantage</td>
<td>17</td>
</tr>
<tr>
<td>Studies that were inconclusive, found non-significant data or measured other things than citation advantage for articles</td>
<td>7</td>
</tr>
</tbody>
</table>

Source: [http://sparceurope.org/oaca/](http://sparceurope.org/oaca/)
Green OA & Copyright

- Many publishers allow authors to deposit some form of their work in an open access repository – e.g. post-print
- Use SHERPA RoMEO to check journals’ policies (http://www.sherpa.ac.uk/romeo/)
- Engage with publishers – negotiate contracts & copyright transfer agreement
Post-print of an Article

• The post-print is the author’s final peer reviewed draft
• All corrections & suggestions from peer-reviewers have been incorporated into the draft
• The post-print hasn’t been formatted by the publisher & doesn’t include the publisher’s logo
• The post-print is normally still a Word document
Example of a Post-print

http://ulir.ul.ie/handle/10344/3640

The potential use of online tools for scientific collaboration by biology researchers

Fintan Bracken, Daniel Earls, Catherine Madders, Faye O’Leary, Stephanie Ronan, Paul Tolan, Ciara Ward and Judith Wusteman

School of Information and Library Studies, University College Dublin

Abstract:

Purpose – This study aims to discover the research practices of biology researchers and to assess the suitability of the OJAX++ Virtual Research Environment (VRE) for these researchers.

Design/methodology/approach – Usability testing was used to evaluate the usability of OJAX++ in relation to biology researchers. Interviews with biology researchers in a large Irish university were conducted to investigate their research information behaviour, to establish user requirements in their discipline and to evaluate the feasibility of using OJAX++ in their research.

Findings – The results show that biology researchers used online tools extensively in their research but do not use social networking tools. Email and phone conversations are the preferred methods of collaborating with colleagues. The biology researchers found that OJAX++ was easy to use, intuitive and professionally presented but in its present format, OJAX++ does not fit in with current research practices as they do not use Web 2.0 tools that facilitate tagging. A list of requirements of a VRE for biology researchers is presented.
UL Institutional Repository (ULIR)

https://ulir.ul.ie/

Welcome to the University of Limerick Institutional Repository.
Access digital archive collections, and published and unpublished works of faculty and researchers at the University of Limerick.

Communities in ULIR
Select a community to browse its collections.

- Faculty of Arts, Humanities and Social Sciences
- Faculty of Education & Health Sciences
- Faculty of Science and Engineering
- Kemmy Business School
- Research Institutes, Centres and Units
- University of Limerick Publications
- University of Limerick Theses & Dissertations
- University Support Services

Recently Added
Social and traditional practices and their implications for family planning: a participatory ethnographic study in Pakp, South Sudan

Search ULIR

Browse
All of ULIR
- Communities & Collections
- Authors
- Titles
- Subjects

My Account
Login
Register

Discover
Author
- Welsh, Andrew (154)
- Ferrar, John (96)
- Richardson, Ila (93)
- Watson, Andrew (90)
- Fitzgerald, Brian (86)
- O'Connor, Rory V. (82)
- Mc Caffery, Fergal (80)
- Dunne, Colum (72)
- Cullen, Walter (66)
- Ali Babar. Muhammad (62)
How to Deposit in the ULIR?

1. Direct upload from UL’s Research Information System (ULRIS)

2. Register under My Account on the ULIR to self-archive

3. Email material directly to ir@ul.ie
# My Peer-Reviewed Journals

<table>
<thead>
<tr>
<th>Year</th>
<th>Journal</th>
<th>Title</th>
</tr>
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<tbody>
<tr>
<td>2014</td>
<td>Aslib Proceedings</td>
<td>The potential use of online tools for scientific collaboration by biology researchers</td>
</tr>
<tr>
<td>2008</td>
<td>Bird Study</td>
<td>Breeding bird populations of Irish peatlands</td>
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<td>2008</td>
<td>Agriculture Ecosystems &amp; Environment</td>
<td>Effects of set-aside management on birds breeding in lowland Ireland</td>
</tr>
<tr>
<td>2003</td>
<td>Teamann, Jr., L. Agricultural Research</td>
<td>The impact of farming on overwintering bird populations</td>
</tr>
</tbody>
</table>

Click here to start uploading this publication to the repository.
Additional Benefits of ULIR

- Provides an online searchable database of your research outputs
- Provides a permanent web link for each publication
- Increases brand awareness
- Allows theses, grey literature and multimedia formats to be published
- Allows easy upload of the full text of articles via ULRIS http://ulris.ul.ie/live
- Provides usage metrics
To determine and overcome misconceptions in biology held by students and educators in the Irish schooling system

Galvin, Eilisna

Statistics

Total Abstract Views

To determine and overcome misconceptions in biology held by students and educators in the Irish schooling system

57

Total Downloads


Galvin_2015_determine.pdf 0 0 34 33

Downloads by country

Turkey United Kingdom United States China Greece South Africa Spain France Ireland Italy

Thesis uploaded to ULIR 17th Dec 2015
Statistics as on 11th Jan 2016
ULIR Target in Excellence & Impact 2020

- Adding your paper to the ULIR will help the University to achieve Goal 4 of Excellence & Impact 2020.
- This goal aims to extend UL’s global reach by engaging in collaborative partnerships & by increasing the percentage of peer-reviewed publications in the ULIR to 70% (p.35).
Enterprise Ireland’s Knowledge Transfer Ireland Portal

- A tool called Aficionado Experts is included as part of Enterprise Ireland’s Knowledge Transfer Ireland portal
- Aficionado Experts draws its information from the institutional repositories in Ireland including ULIR
- This version of Experts covers over 5,000 academic experts from 19 institutions across Ireland and is publicly accessible
  - http://expert.knowledgetransferireland.com/
  - http://ei.aficionado.ie/
FIND A RESEARCH EXPERT

Agriculture & Food Science
Architecture
Biochemistry
Biology
Business
Chemistry
Computer Science
Art & Design
Economics
Education
Engineering
Environment
Geology
History
Journalism & Mass Media
Language
Law
Linguistics
Mathematics
Medicine & Nursing
Microbiology
Music
Pharmacology
Philosophy
Physics
Psychiatry
Psychology
Sociology
Physiotherapy & Sport
Veterinary

Search for experts or topics...

Filter experts by subject area by clicking below

Experts  Publications  Topics  Explore  Help
<table>
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<tr>
<th>Rank</th>
<th>Name</th>
<th>Institution</th>
<th>Subject(s)</th>
<th>Total Publications</th>
<th>Relevant Publications</th>
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<td>1</td>
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<td>Dublin City University</td>
<td>Chemistry</td>
<td>354</td>
<td>145</td>
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<tr>
<td>2</td>
<td>Stefano Sanvito</td>
<td>Trinity College Dublin</td>
<td>Physics</td>
<td>116</td>
<td>84</td>
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<tr>
<td>3</td>
<td>Jonathan Coleman</td>
<td>Trinity College Dublin</td>
<td>Physics, Chemistry</td>
<td>124</td>
<td>83</td>
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<tr>
<td>4</td>
<td>Dermot Brabazon</td>
<td>Dublin City University</td>
<td>Engineering</td>
<td>109</td>
<td>80</td>
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<tr>
<td>5</td>
<td>Igor Shvets</td>
<td>Trinity College Dublin</td>
<td>Physics</td>
<td>155</td>
<td>58</td>
</tr>
<tr>
<td>6</td>
<td>Fernando Benito-Lopez</td>
<td>Dublin City University</td>
<td>Chemistry, Engineering</td>
<td>87</td>
<td>54</td>
</tr>
</tbody>
</table>
Exercise 2 – Search Google Scholar


2. What type of document is it?

3. Who is the author?

4. Is the full-text available & if so from where?

5. Have many times has the document been cited in Google Scholar?
5. Communicate & Promote Research Outputs

- Attend & present at conferences & seminars
  - To communicate the results of research & meet potential collaborators
- Profiles on academic social networking sites e.g.:
  - Academia.edu
  - ResearchGate
  - Mendeley
- Tips on managing your digital identity:
You can use Social Media to:

• Publicise your research & engage with your audience:
  ▪ Twitter
  ▪ Blogs
  ▪ Slideshare
  ▪ YouTube
  ▪ Personal Website
Twitter

• Tweet about new publications
• Get feedback on ideas
• Engage industry, funders & the wider public
• Keep up to date with emerging research, researchers & trends
• Get live updates from conferences & seminars
A clever use of SciPy’s ndimage.generic_filter for n-dimensional image processing

This year I am privileged to be a mentor in the Google Summer of Code for the scikit-image project, as part of the Python Software Foundation organisation. Our student, Vignesh Birodkar, recently came up with a clever use of SciPy’s ndimage.generic_filter that is certainly worth sharing widely.

- http://www.blogger.com/
- http://wordpress.com/

SOFTWARE ENGINEERING: VERIFICATION

TDD IMPROVES QUALITY

TDD improves quality! That might sound obvious, but evidently it isn’t. Test driven development (TDD) is often cited as a key agile practice (1,2). But still, the evidence has been equivocal until now.
The potential use of online tools for scientific collaboration by biology researchers

Fintan Bracken, Daniel Earls, Catherine Madders, Faye O'Leary, Stephanie Ronan, Clara Ward, Paul Tolan, Judith Wusteman

Published in: Aslib Journal of Information Management
Publication date: January 2014
Publisher: Emerald
DOI: http://dx.doi.org/10.1108/ejim-02-2013-0009

These are the key metrics for this publication.

- Number of times shared: 4
- Clicks on Shares*: 86
- Views on Kudos: 39
- Click throughs to Read Publication: 7
- Altmetric score**: 5
- Web of Science Times Cited***: 0

Did you know?

There are some quick and easy actions you can take right now to help increase the impact of your work. Find out how by reading our top tips.
Publons [https://publons.com](https://publons.com)

- Allows you to get credit for the peer reviews you write (without breaking reviewer anonymity)
- You control how each review is displayed on their profile (blind, open, or published)
- You can add both pre-publication reviews for journals & post-publication reviews of any article

https://publons.com/author/519700/fintan-bracken

See this article in Nature for more information on Publons: [http://dx.doi.org/10.1038/nature.2014.16102](http://dx.doi.org/10.1038/nature.2014.16102)
Other Methods to Maximise Your Research Impact

• Don’t be too frugal with your references – papers that cite more tend to be more highly cited (Corbyn, 2010)

• Share your articles with authors you’ve cited as this can have a positive impact on you being cited

• Include a link in your paper to your underlying research data – sharing data, especially quantitative data, can increase citations (King, 2006; Piwowar & Vision, 2013)

• Publication throughout a project may generate more citations than just one at the end (Bornmann & Daniel, 2007)
Measuring Your Research Impact

**Bibliometrics**

Bibliometrics refers to the quantitative measures used to assess research output i.e. publication & citation data analysis

- **h-index**
  - Measure of consistency
- **Times cited**
  - Amount of times an author/paper has been cited

**Alternative metrics**

- Altmetrics / Article level metrics
The h-index is a simple metric to quantify the scientific output of an individual (Hirsch, 2005).

A h-index of 10 means that of all of the papers written by this author, 10 papers have been cited at least 10 times each.

Only meaningful when compared to others within the same discipline area & at the same career stage.

<table>
<thead>
<tr>
<th>Title</th>
<th>Journal Title</th>
<th>Year</th>
<th>Google Scholar Citations</th>
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<tr>
<td>Effects of set-aside management on birds breeding in lowland Ireland</td>
<td>Agriculture, ecosystems &amp; environment</td>
<td>2006</td>
<td>27</td>
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<td>Breeding bird populations of Irish peatlands</td>
<td>Bird Study</td>
<td>2008</td>
<td>5</td>
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<tr>
<td>The impact of farming on over-wintering bird populations</td>
<td>Tearmann</td>
<td>2003</td>
<td>5</td>
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<td>The diversity of birds and butterflies in Irish lowland landscapes with special reference to the effects of set-aside management on birds in the breeding season</td>
<td>PhD Thesis</td>
<td>2004</td>
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<tr>
<td>Lowland bogs, fens and reedswamps</td>
<td>Bird Habitats in Ireland</td>
<td>2012</td>
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<tr>
<td>The value of the Open Access Repository to the Marine Institute</td>
<td>GLINT</td>
<td>2012</td>
<td>0</td>
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<td>The potential use of online tools for scientific collaboration by biology researchers</td>
<td>Aslib Journal of Information Management</td>
<td>2014</td>
<td>0</td>
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<tr>
<td>Measuring the value of e-resources</td>
<td>An Leabharlann</td>
<td>2014</td>
<td>0</td>
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</table>

The **h-index** is 3 as 3 publications have at least 3 citations each. In order to obtain a **h-index** of 4, the 4th ranked publication (the PhD thesis) would need to receive 3 more citations.
Tools to find citations & calculate the h-index

- Web of Science
- Scopus
- Google Scholar (Publish or Perish)
https://scholar.google.com/

- Google Scholar covers more books, conference papers, technical reports, etc. than Web of Science & Scopus
- Coverage is uncontrolled
Fintan Bracken
Research Services & Bibliometrics Librarian, University of Limerick
Verified email at ul.ie

Library and information science, Bibliometrics, Virtual Research Environment, Usability studies, Ornithology

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<td>Lowland bogs, fens and reedswamps</td>
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<td>The impact of farming on over-wintering bird populations</td>
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<td>The potential use of online tools for scientific collaboration</td>
<td>2</td>
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<td>The diversity of birds and butterflies in Irish lowland landscapes</td>
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<tr>
<td>Getting the Measure of Analytics: Using bibliometrics and usage</td>
<td>2015</td>
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</table>

Cited by

| Citations | 68       | 37   |
| h-index   | 4        | 3    |
| i10-index | 2        | 2    |

Co-authors

- Barry John McMahon
  Lecturer in Wildlife Conservation
- Stephanie Ronan
  Marine Institute
- Judith Wustemen
  Lecturer Information Studies
Publish or Perish

http://www.harzing.com/pop.htm

- Free software created by Anne-Wil Harzing
- Uses Google Scholar data (or Microsoft Academic Search data)
Exercise 3 – h-index

1. Using the Web of Science Core Collection (www.webofscience.com), what is Stephen Hawking’s h-index (Hint: search for Hawking S* in Basic Search under the field ‘Author’ & then ‘Create Citation Report’)?

2. What is the average number of citations his articles have received?

3. What is his second highest impact article based on citations & how many citations has it received?

4. How many articles did he author/co-author in 2011?
Altmetrics

- Altmetrics are measures that capture the attention a resource generates on the social web or other sources.
- They are measures of scholarly activity & impact which differ from the traditional measures such as citations.
- They aim to provide a more comprehensive picture of scholarly activity & of the use & impact of a researcher's work.
Each day, scholarly articles receive ~44,000 new mentions across social media, news, and blogs. That’s 1 mention every 2 seconds!

Each week, ~50k unique articles are shared.

Mentions range in complexity, from quick shares to comprehensive reviews.

Altmetrics or article-level metrics are worth paying attention to.

Altmetric data, March 2015
Potential of Altmetrics in:

- Providing real-time indicators of impact
- Capturing ‘practitioner’ impact of those who may never publish
- Showing evidence of industry & public engagement
- Being an indicator for future citations?
Impactstory (http://impactstory.org/) tracks impact from across the Web. Create a profile with your ORCID credentials in a minute.

**Fintan Bracken**
University of Limerick Research Services & Bibliometrics Librarian
open access 100%
Open Hero!

### ACHIEVEMENTS

**Open Hero** Top 10%
Every single one of your papers is free to read online. Wow! That's a level of access only 2% of other researchers achieve. Open access helps real people, and that's pretty heroic.

**Hot Streak** Top 25%
People keep talking about your research. Someone has shared your research online every month for the last 2 months. That's a sharing streak matched by only 20% of scholars.

**Global Reach**
Your research has been saved and shared in 13 countries.

### TIMELINE

*16* Online mentions over 13 years

15 1

### PUBLICATIONS

- The potential use of online tools for scientific collaboration by biology researchers
  2014 *Aslib Journal of Information Management*
  10

- Effects of set-aside management on birds breeding in lowland Ireland
  2006 *Agriculture Ecosystems & Environment*
  4

- Breeding bird populations of Irish peatlands
  2008 *Bird Study*
  2

https://impactstory.org/u/0000-0002-1228-5109
Altmetric.com tracks the following sources:

**News outlets**
- Over 2,000 sites
- Manually curated list
- Text mining
- Global coverage
  - Irish Daily Star
  - Irish Examiner
  - Irish Independent
  - Irish Times
  - TheJournal.ie

**Social media and blogs**
- Twitter, Facebook, Google+, Sina Weibo
- Public posts only
- Manually curated list

**Post-publication peer review**
- Publons
- PubPeer

**Reference managers**
- Mendeley, CiteULike
- Reader counts
  - Don’t count towards the Altmetric score

**Other sources**
- Wikipedia
- YouTube
- Reddit
- F1000
- Pinterest
- Q&A

**Policy documents**
- NICE Evidence
- Intergovernmental Panel on Climate Change
- European Food Safety Authority
  - WHO
  - Many more
Altmetric.com bookmarklet
- works for any paper with a DOI [http://altmetric.it]
### Altmetric Explorer for Institutions

**www.altmetricexplorer.com**

#### Explore the Altmetric Database

<table>
<thead>
<tr>
<th>Rank</th>
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<th>Journal/Source</th>
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<tr>
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<td>The impact of middle names: Middle name initials enhance evaluations of...</td>
<td>European Journal of Social Psychology, April 2014</td>
<td>432</td>
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<td>The Effect of Strength Training on Performance in Endurance Athletes.</td>
<td>Sports Medicine, February 2014</td>
<td>403</td>
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<td>3</td>
<td>Going to political extremes in response to boredom.</td>
<td>European Journal of Social Psychology, November 2015</td>
<td>381</td>
<td></td>
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<tr>
<td>5</td>
<td>Confirmation of suboptimal protocols in spinal immobilisation?</td>
<td>Emergency Medicine Journal, September 2015</td>
<td>365</td>
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<td>7</td>
<td>The effects of eccentric training on lower limb flexibility: a systematic...</td>
<td>British Journal of Sports Medicine, April 2012</td>
<td>165</td>
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<td>Is thoracic spine posture associated with shoulder pain, range of motion and...</td>
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<td>Physiotherapists may stigmatise or feel unprepared to treat people with low...</td>
<td>Journal of Physiotherapy, Australian Physiotherapy Association, January 2015</td>
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<td>What influences Patient-Therapist Interactions in Musculoskeletal Physical...</td>
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<td>Email for the provision of information on disease prevention and health...</td>
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<td>Biomechanical analysis of spinal immobilisation during prehospital...</td>
<td>Emergency Medicine Journal, June 2013</td>
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<td>CATALISE: A Multinational and Multidisciplinary Delphi Consensus Study...</td>
<td>PLoS ONE, July 2016</td>
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<td>From van Gogh to Lady Gaga: Artist eccentricity increases perceived artistic...</td>
<td>European Journal of Social Psychology, March 2014</td>
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</table>

**Overview**

- Total mentions: 16,675
- Research outputs: 5,308
- Outputs with mentions: 1,453
- Sources of attention: 18

**Attention Summary**

- All overview statistics and institutional data were last updated about 15 hours ago. The next update will run in about 9 hours.
How can Researchers use Altmetric Explorer

- Track attention to your research immediately
- Uncover (unknown) conversations about your research
- Use in grant applications & funder reporting
ULRIS & Altmetric Explorer

- All publications in UL’s Research Information System (ULRIS) that have a DOI (digital object identifier) are added to Altmetric for Institutions & tracked for altmetrics
- A DOI looks something like this: 10.1038/nature14307
- Ensure that if your publication has a DOI that it is added to the field “DOI Link” in the reference in ULRIS so that it will be tracked by Altmetric for Institutions
Exercise 4 – Altmetric For Institutions

• In the “Full Database”, use Advanced Search to find the article with the highest Altmetric attention score that has been mentioned during the past week on the topic of “climate change” AND carbon

• **Hint:** Use the filters “Keyword” and “Mentioned During”
Research Services: Altmetrics

The Glucksman Library's guide to assist researchers with all aspects of the research process from finding information to maximising impact.

Alternative metrics or altmetrics "is the creation and study of new metrics based on the Social Web for analyzing and informing scholarship." Altmetrics include article downloads and views, bookmarks, saves, favourites, readers, blog posts, tweets, Wikipedia articles, news stories, likes, shares and ratings. Altmetrics provides impact of just-published work and includes all types of scholarly output.

Altmetrics is a new and emerging field and may have potential in:

- Providing real-time indicators of impact
- Capturing 'practitioner' impact of those who may never publish
- Showing evidence of industry and public engagement
- Being an indicator for future citations.

Altmetric.com is a service that allows you to see how much attention any article with a DOI (digital object identifier) has received online by using a bookmarklet tool. They also have another subscription product called Altmetric for Institutions that the University of Limerick has access to.

ImpactStory is a web-based tool that helps researchers explore and share the diverse impacts of all their research products including journal articles, blog posts, datasets and software. ImpactStory aggregates impact data from many sources including Mendeley, Twitter, Scopus and PubMed. The output is displayed in a single, permalinked report which can be included as a link in CVs. ImpactStory offers a free 30 day trial but after that there is a charge for using the service.

Plum Analytics is a paid altmetrics service that tracks more than 20 different types of artifacts, including journal articles, books, videos, presentations, conference proceedings, datasets, source code, cases, and more. Plum Analytics collect impact metrics in 5 major categories: usage, captures, mentions, social media, and citations.

Altmetrics Presentation

This recorded presentation explains what altmetrics are and how they could be beneficial.

Altmetrics for Institutions - Tutorial

Altmetric for Institutions is a tool that allows a university to track and evaluate the online dissemination and impact of their authored research. This tutorial shows you how to use some of the key features of Altmetric for Institutions with further information available in this PDF guide.

Dr. Finton Brocken
What you can do?

- Ensure that the details of all of your publications are added to ULRIS especially the DOI for each reference
- If your publication hasn’t got a DOI add it to the UL Institutional Repository (ULIR) as each item is also tracked by Altmetric
- Communicate & promote your research online: Twitter, blogs, etc
- When talking online about your publications include the DOI instead of the normal publisher’s URL to ensure it is tracked by Altmetric
- Add http://dx.doi.org/ in front of the DOI to convert it to a clickable URL e.g. http://dx.doi.org/10.1038/nature14307
Engagement with Social Media differs by Discipline

Researchers from **Biomedical & Health Sciences** and **Social Sciences & Humanities** use social media the most to disseminate their research (Costas et al. 2014)

<table>
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<th>p</th>
<th>tcs</th>
<th>mcs</th>
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<th>Blogs</th>
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<td>796321</td>
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<td>252799</td>
<td>0.51</td>
<td>75569</td>
<td>15.11%</td>
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http://dx.doi.org/10.1002/asi.23309
Summary

• You should try to:
   Publish in high impact journals - If possible in Q1 or Q2 journals
   Collaborate more
   Increase the visibility of your research
   Create researcher profiles to claim your research
   Communicate & promote your research to the widest possible audience via various means
Research Services Guide http://libguides.ul.ie/research

http://libguides.ul.ie/research/videos

5 Ways to Increase the Impact of your Research!

1. Publishing in high impact journals
2. Collaborating with other researchers
3. Ensuring your research is easily identifiable
4. Increasing the visibility of your research outputs
5. Communicating & promoting your research

Getting Published and Maximising Your Research Impact

This recorded lecture examines how to maximise the impact of your published research and summarises much of the content of this LibGuide.

Research Support at UL

The Glucksman Library in the University of Limerick including via the provision of quality research materials. In addition, there is a number of librarians that Research Services & Bibliometrics Librarian and

Research Services & Bibliometrics Librarian

- Provide training and support on bibliometric altmetrics
- Provide support on measuring your research
- Advise on how to increase the visibility of research
- Advise on open access publishing including
- Advise on author/publisher copyright permiss
- Provide training and support on the use of (ULIR)
- Provide EndNote training and support

Workshop Slides

Slides from recent workshops can be downloaded below:

- Altmetric for Institutions workshop
- Altmetrics workshop
- Google Scholar workshop
- How to calculate your h-index workshop
- How to Write a Great Research Paper, and get Published in a Top Journal (Elsevier seminar - Feb 2017)
- InCites workshop
- Metrics for Your CV workshop
- Open Access & Search Engine Optimisation presentation
- Open Access & ULIR workshop
- ORCID workshop
- Research Profiles - ORCID & Google Scholar
- Scopus workshop
- Selecting high impact journals workshop
- Web of Science workshop
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or at this link