



Publishing Scientific Research

Antonella Cerri

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Diana Alkema

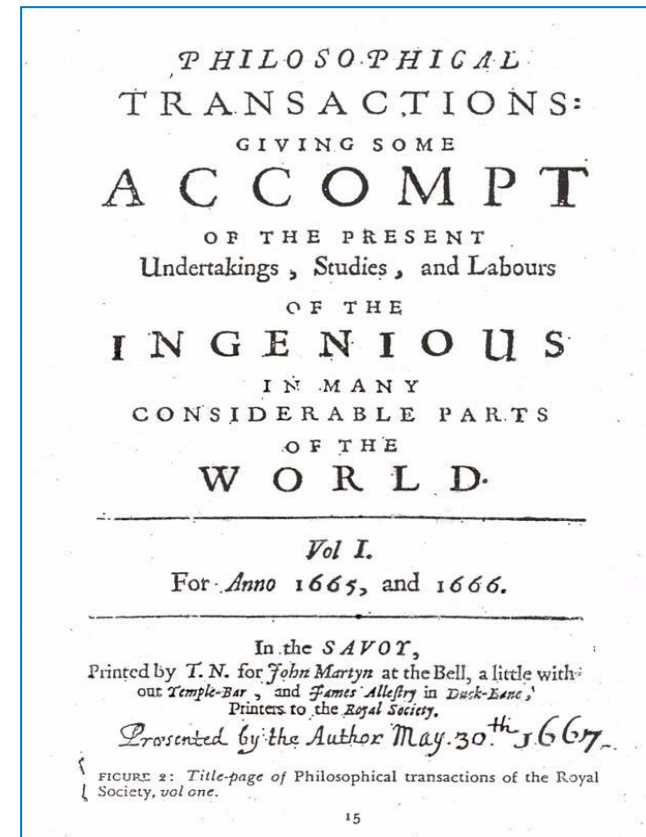
Senior Account Development Specialist

Agenda

- Introduction
 - Why should you publish?
 - Trends in STM Publishing: publication rates
 - What is the status of scholarly publications in Greece?
- All about Journals
- Tools & Tips to help you research, write & publish scientific articles
- All about Open Access
- All about Books

Philosophical Transactions – the world's first science journal

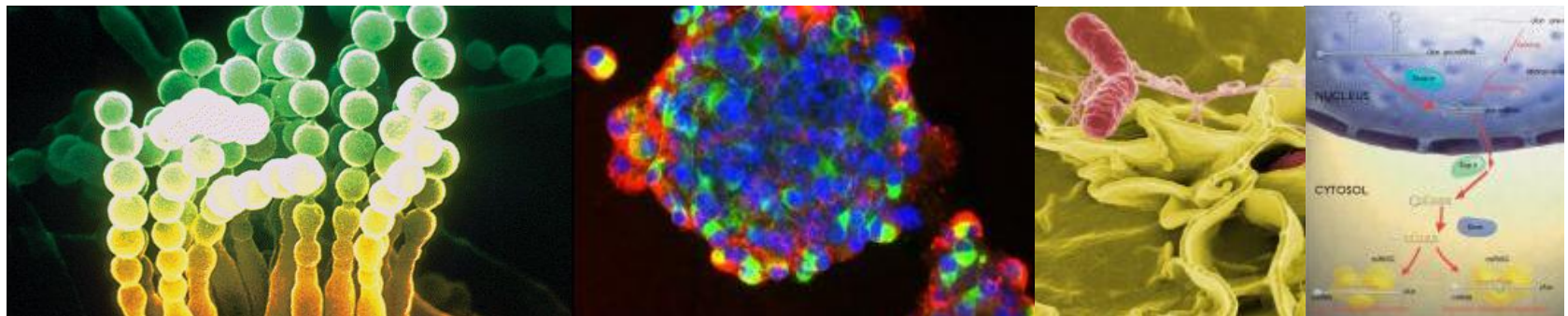
- In 1662, the 'Royal Society of London for Improving Natural Knowledge' was given permission to publish by King Charles II
- In March 1665, the first issue of *Philosophical Transactions* was published
- The world's first scientific journal looked different from today's journals, but it served the same function: informing the Fellows of the Society, and other interested readers, of the latest scientific discoveries
- As such, *Philosophical Transactions* established the important principles of **scientific priority** and **peer review**, which have become the central foundations of scientific journals since



Source: Royal Society Publishing ([link](#))

Why should you publish?

- Present new and original results or methods
- Exchange ideas, communicate with peers
- Advance (not repeat) scientific knowledge and enhance scientific progress
- Credibility of results
- Grant writing, research funding
- Recognition and career advancement
- Personal prestige, satisfaction and enjoyment



Why not just blog about your work?

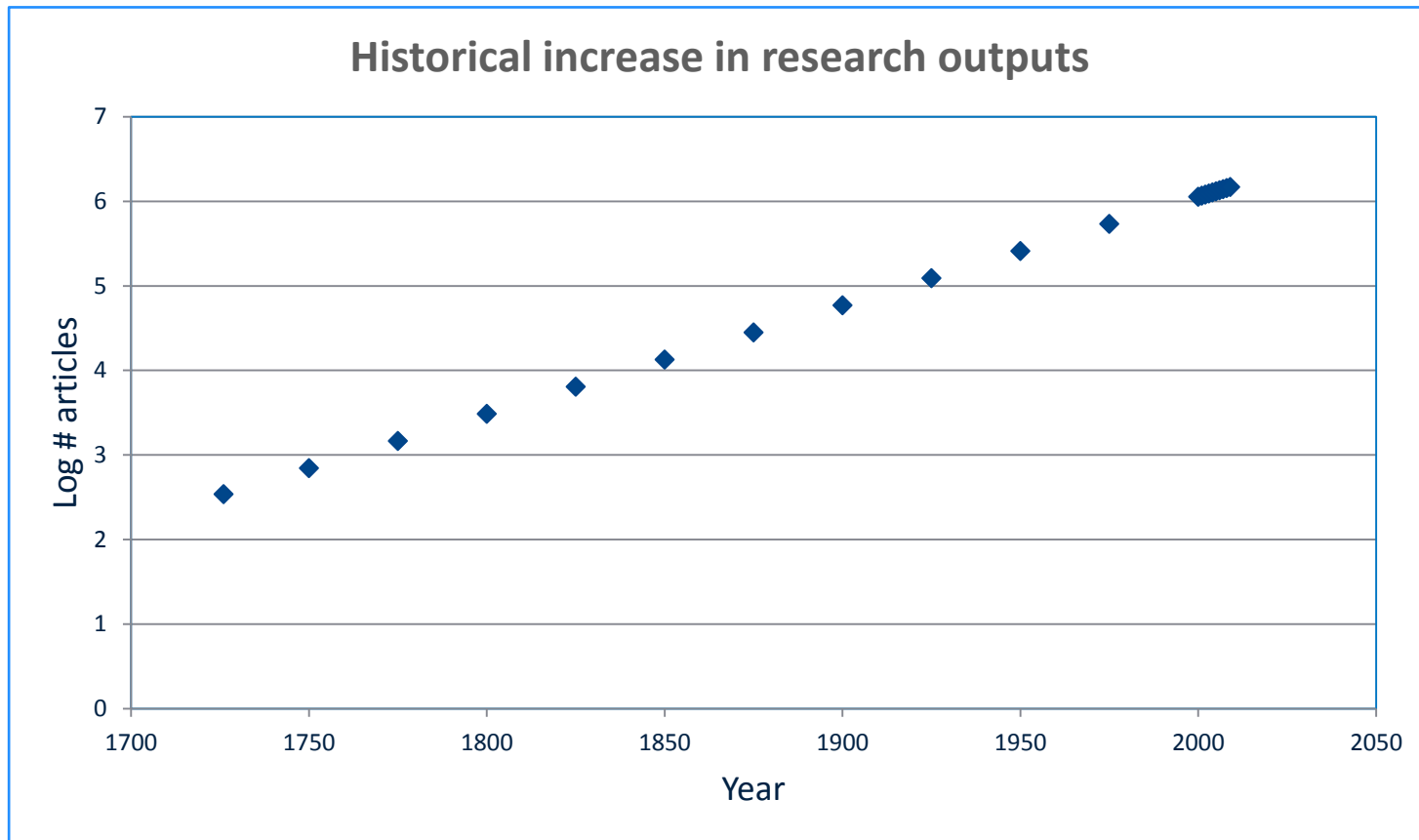
Scientific publishing ensures:

- Quality control
- Professional publishing services (e.g. Abstracting & Indexing)
- Innovative publishing technology (POD/PTO, XML)
- Global marketing, global visibility



Trends in STM* Publishing: publication rates

- Research output – the number of citable documents published – is growing globally with a rate of about 3% per year.

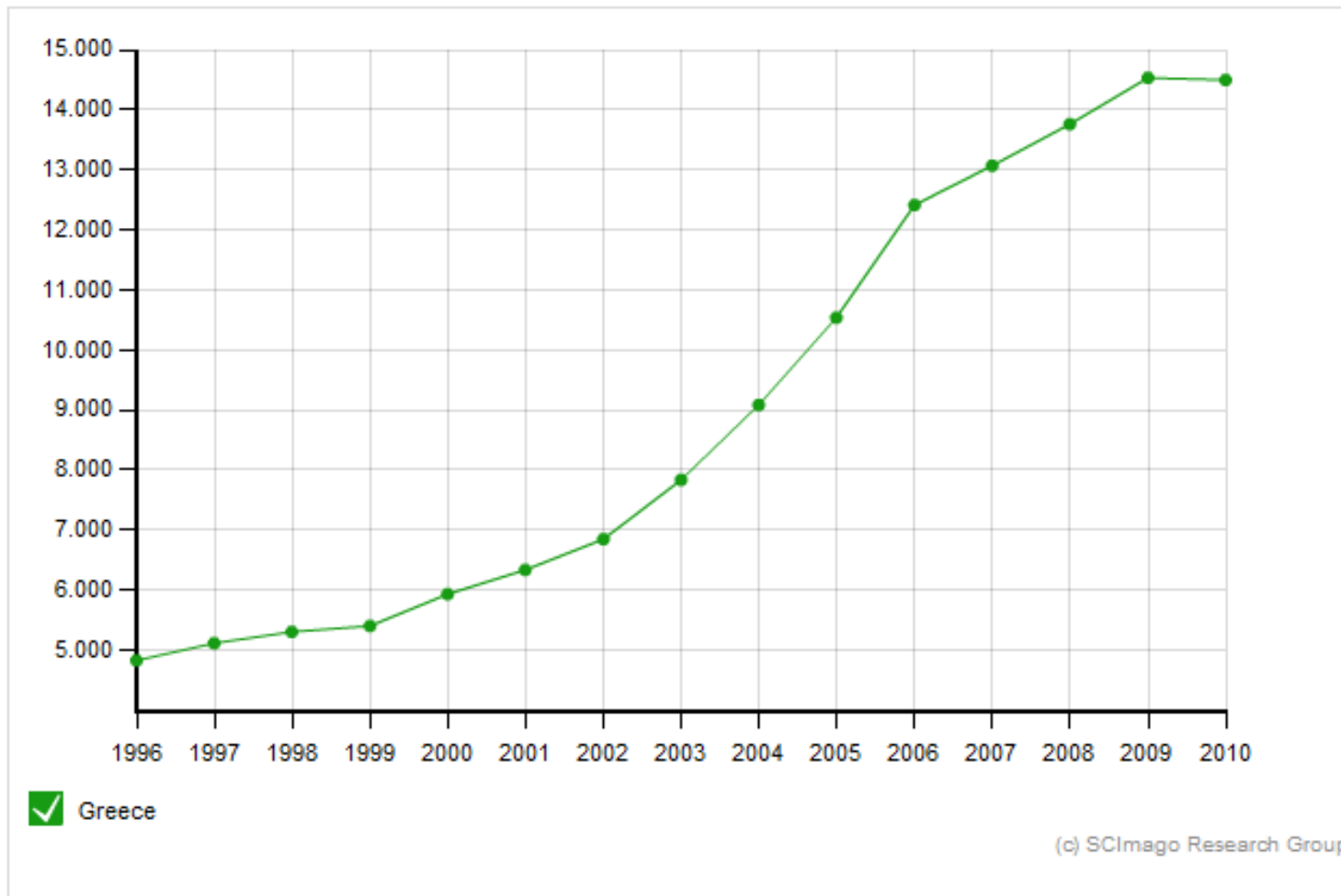


* STM =
Science,
Technology,
Medicine

Based on data published in Jinha, A. E. (2010). "Article 50 million: An estimate of the number of scholarly articles in existence". *Learned Publishing* 23 (3): 258–263.

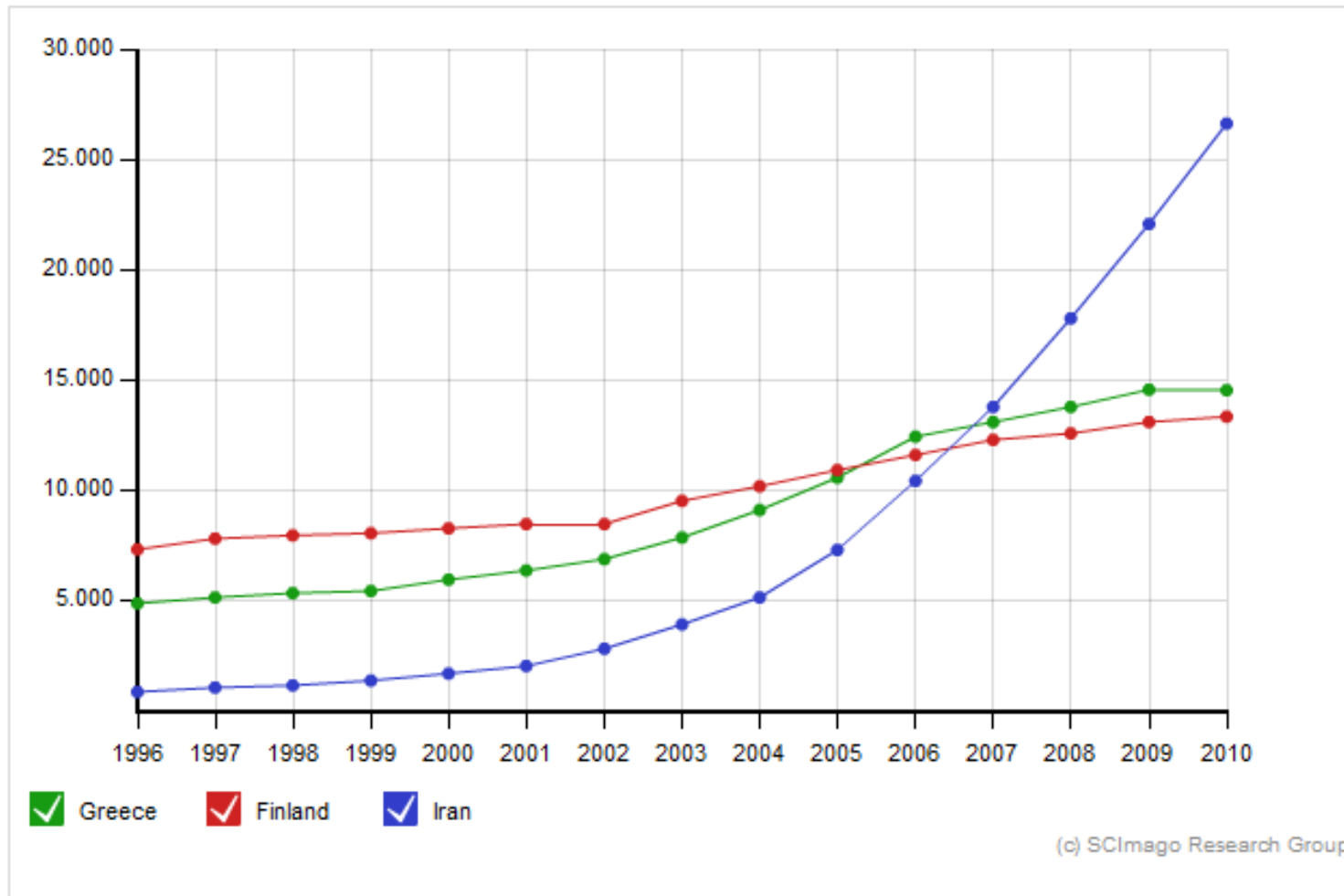
What is the status of scholarly publications in Greece?

- Research output – the number of citable documents published – is growing in Greece. It almost tripled in the last 15 years.



What is the status of scholarly publications in Greece?

- Research output (citable documents) in Greece compared with countries with similar GDP per capita, according to the World Bank ranking



What has Greece published on SpringerLink to date?

- When we enter “Greece” in AuthorMapper (www.authormapper.com), we find about 36,000 documents on SpringerLink from Greece
- Roughly 68% journal articles, 32% book chapters
- Main subject is Medicine & Public Health
- Most articles are from the University of Crete

SUBJECT (see all 940)

Medicine & Public Health	10361
Computer Science	5577
Physics	3502
Internal Medicine	3481
Engineering	2918

INSTITUTION

University of Crete	3642
University of Athens	3069
Aristotle University of Thessaloniki	2718
University of Patras	2718

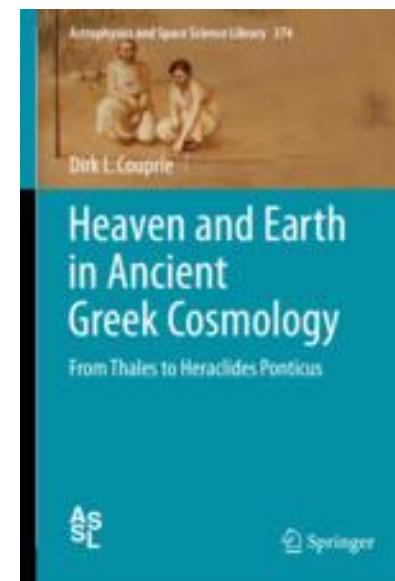
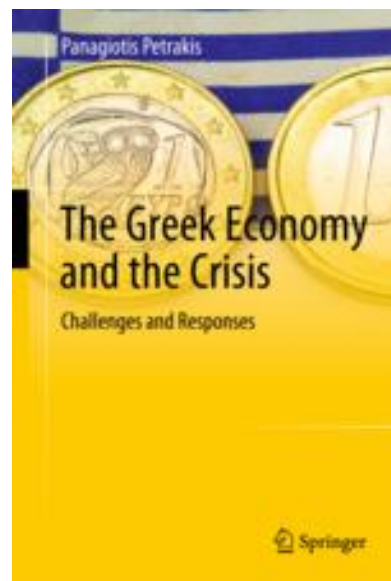
PUBLICATION

(see all 4738)

Rheumatology and Immunology Therapy	2377
Astrophysics and Space Science	457
Annals of General Psychiatry	432
Critical Care	309
International Urology and Nephrology	231

Selection of regional eBooks on SpringerLink

- Global publisher- still very interested to publish local issues



- The Greek Language in the Digital Age, by Georg Rehm, Hans Uszkoreit
- The Greek Economy and the Crisis, by Panagiotis Petrakis
- Heaven and Earth in Ancient Greek Cosmology, by Dirk L. Couprie

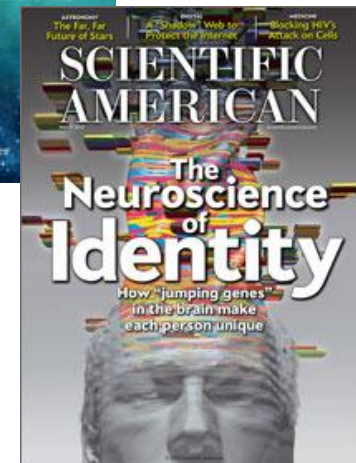
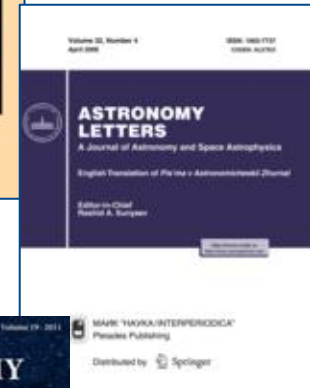
Writing and publishing scientific articles

- Types of journals
- Before you start writing
- How to choose the right journal
- What journal editors want
- How to structure your article
- Submitting your article
- Submission considerations – ethics
- Peer review
- Improve your chances of getting accepted
- Using an editing service - Language editing with Edanz
- Acceptance and publication of your article
- Impact Factor



Types of journals

- **Traditional academic research journal** – Main venue for primary research, rigorously peer-reviewed.
- **Letters journal** – Rapid communication of interim work, peer-reviewed, a good way to get very new and ongoing research initially published.
- **Review journal** – Covers current trends, usually peer-reviewed, contains some commissioned material.
- **Professional journal / magazine** – Mainly review and how-to articles, lots of commissioned material, heavily edited but not necessarily peer-reviewed.

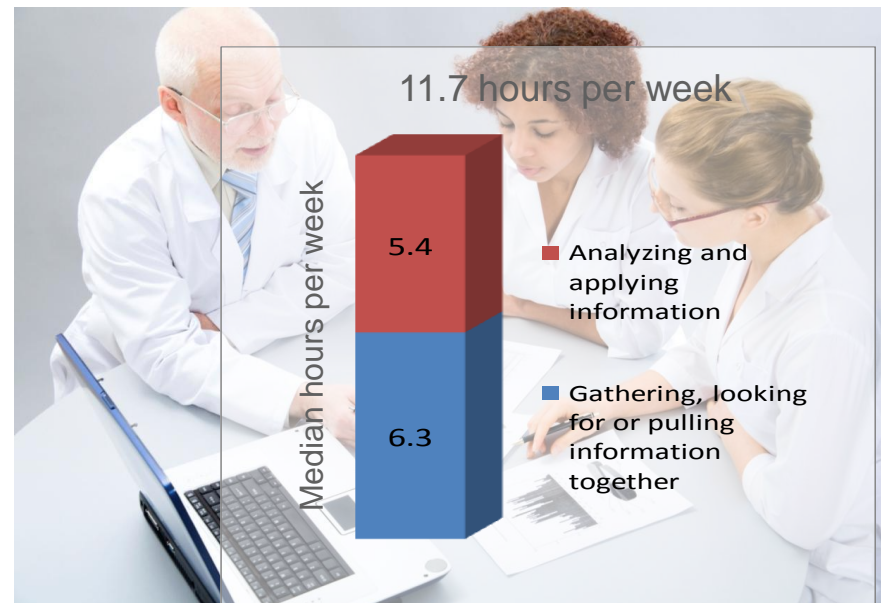


Before you start writing: research first

- Read broadly, know the background material, know the key papers in your field
- Have a hypothesis or research question
- Use appropriate methods and controls
- Ensure sample sizes are large enough
- Use appropriate statistical tests
- Remove investigator/researcher/patient bias
- Comply with ethical requirements

Before you start writing: research first (cont.)

- Why do you need to read? To Write = To Read
- There is a direct relationship between the number of articles downloaded by a researcher or institution, and the number of articles published
- Access to high-quality content leads to more and better research output
- Low amount of content available will result in a lower amount of papers being produced
- Scientists spend about 12 hours a week on information tasks



How to choose the right journal

- Who is the audience for your paper?
- Read the journal and the journal product page (aims/scope)
- Talk to colleagues / peers about their experiences with journals you are considering
- Make use of the expertise of your library staff
- Check where collaborating / competing researchers publish their work
- Is an Impact Factor Important to you? Or are you more concerned about usage / visibility?
- Follow the references in your own paper. Where were the original papers published and read? Check publisher sites, you can often find useful information in the 'for authors' section
- Avoid journals with no clear submission and reviewing process

How to choose the right journal – What our authors say

How important are the following factors for you when deciding to submit a manuscript to a particular journal?



(N = 19,220 respondents, 5-point rating: 1=very important to 5=not important at all) Results 2009

How to choose the right journal – springer.com journal pages

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 Journal no. 11476

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2010 Impact Factor **0.655**

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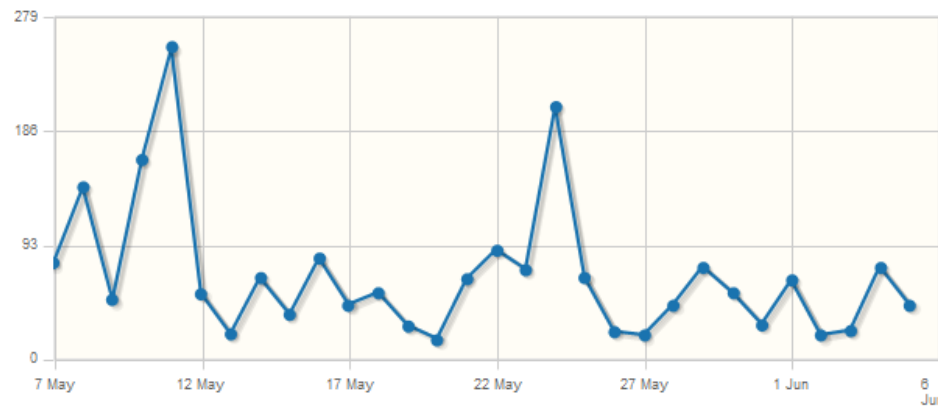
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What journal editors want

- **Good quality science!**
- Work which will stand up to peer review
- Original research
- Research interesting to the journal's readership (so choose the right journal!)
- Active research areas (many citations)
- Clear concise writing



How to structure your article

Title	Read first and most. Keep it short and to the point. Must reflect the content of the paper.
Authors	Correct spelling, consistency in affiliation.
Abstract	75-200 word summary of objective and results. Includes key message of paper.
Keywords	Synonyms relevant as search terms e.g. in Google. Ideally not words from title because title words are automatically keywords.
Introduction	Explain i) why the work was conducted ii) what methodology was employed iii) why you chose this particular methodology iv) How the methodology accomplished the hypothesis set out in your abstract.
Methodology	Written clearly and concisely so that someone can follow what you did.

How to structure your article (cont.)

Analysis/Results	Present the results clearly and carefully.
Discussion	Discuss the results here. If the results were not what you were expecting this is where you can provide insights or speculations as to what happened and/or what you could have done differently.
Conclusions	Write down your conclusions from the study.
Acknowledgements	Acknowledge the people and institutions who have made your research possible e.g. funding.
References	Properly cite your referenced material; use the style of the journal.
Supplementary Material	List any supplementary materials, appendices.

Writing and publishing scientific articles

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- Submitting your article
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- Peer review
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- Using an editing service - Language editing with Edanz
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- Impact Factor



Submitting your article

- Read the guidelines for the journal very carefully and make sure that you conform to these
- Prepare a cover letter in which you explain why you think your paper falls within the scope of the journal and in which you outline the paper's originality and/or significance
- NEVER submit your paper to more than one journal at the same time, that would be violating Publishing Integrity

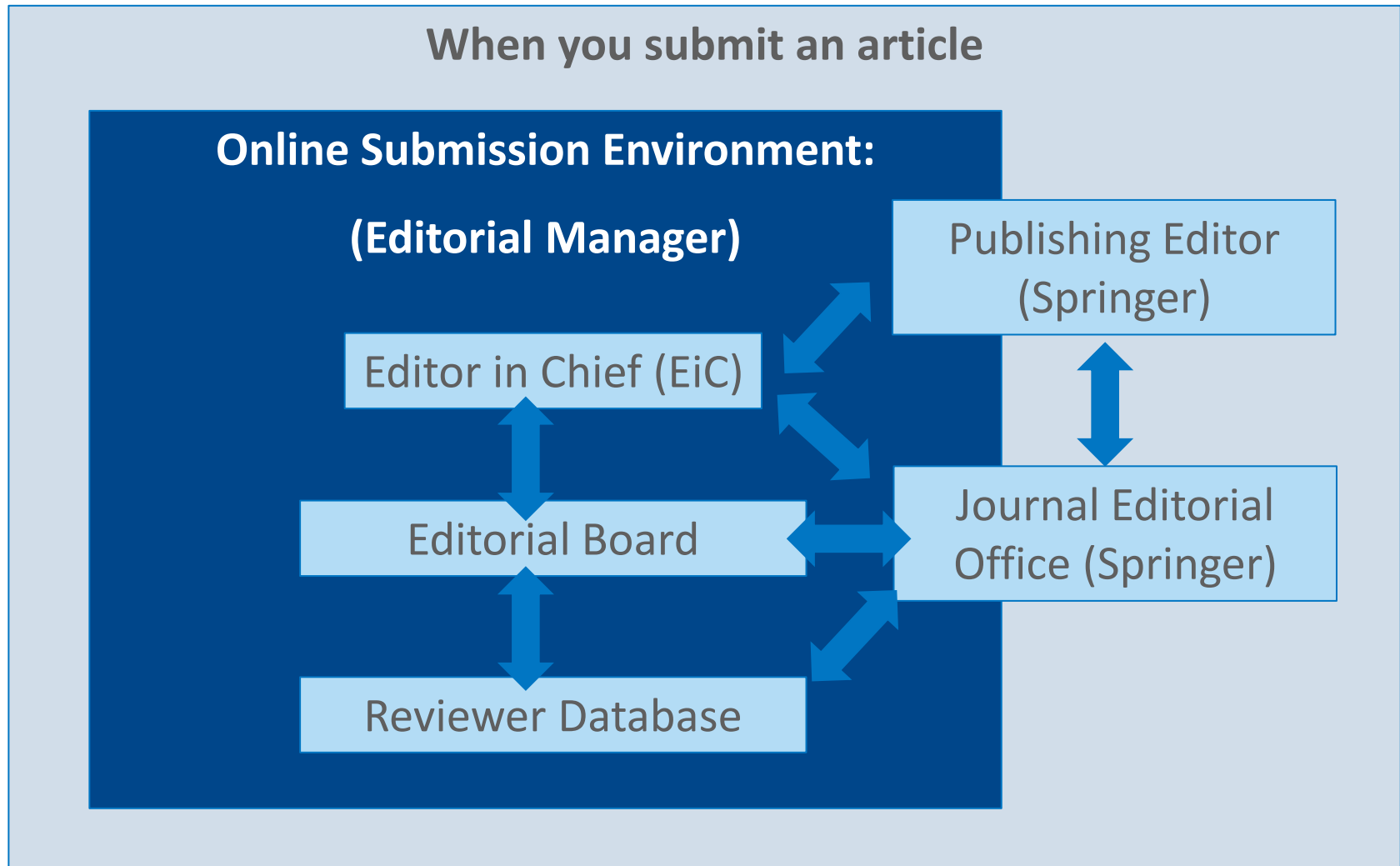


Submission considerations - ethics

- The work described has not been published before
- It is not under consideration anywhere else
- Publication has been approved by co-authors and responsible authorities
- Permissions obtained from copyright owners
- No data fabrication or falsification

conduct as a
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eth·ics (eth'ik
The study and
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of right conduc
of life, etc. 3.
E·thi·o·ni

Submitting your article – What happens to it?



Peer review - What is it and why is it important?

- Peer review is a process of self-regulation. When you submit an article, other experts in the field evaluate your article, your research and methodology, to determine if your paper is suitable for publication
- Peer review is employed to maintain a high quality standard of published papers and to provide credibility



Peer review - How to deal with feedback

- Nearly every manuscript requires revisions, often two or three revisions
- If you receive reviewer comments for re-submission, ACT on them
- Consider peer review feedback as advice to help you improve your article, do NOT take offense
- Minor revision does not guarantee acceptance after revision. Address all comments carefully
- Do not be disheartened if you receive a rejection: very often the article and the research are good, but it is rejected because it is not in the scope of the journal it was submitted to



Improve your chances of getting accepted

- Make sure that your paper has a clear message (highlighted in abstract)
- Is the content important and is it offering something new?
- Is your paper really relevant to the scope of the journal to which you are submitting? Meet the publishing criteria of the journal
- Make sure that the science that supports your research is valid and supports your conclusions
- Work on your writing style. Clear and concise is good. If English is not your native language, ask a native English speaking colleague to proofread your paper

Using an editing service - Edanz



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 - an expert scientific review of your manuscript (similar to a peer review) before you submit to your target journal
 - interpreting the peer review comments, and assess whether the changes you have made are sufficient to satisfy a peer-reviewer

Acceptance and publication of your article

- Once the article has been accepted and is ready for publication, it will immediately be published online
- This is called ‘Online First’.
- The article receives a DOI number (Digital Object Identifier) and can now be read and cited, e.g.: DOI: 10.1007/s10681-012-0632-1
- Page numbers and an issue number are only assigned once it is included in the next available or appropriate issue
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PLANT MOLECULAR BIOLOGY
Volume 69, Number 4 (2009), 473-488, DOI: 10.1007/s11103-008-9435-0

Role of plant hormones in plant defence responses

Rajendra Bari and Jonathan D. G. Jones

From the issue entitled "Plant Hormone Interaction"

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Plant Mol Biol (2009) 69:473–488
DOI 10.1007/s11103-008-9435-0

Role of plant hormones in plant defence responses

Rajendra Bari · Jonathan D. G. Jones

Received: 5 August 2008 / Accepted: 22 November 2008 / Published online: 16 December 2008
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Abstract Plant hormones play important roles in regulating developmental processes and signaling networks involved in plant responses to a wide range of biotic and abiotic stresses. Significant progress has been made in identifying the key components and understanding the role of salicylic acid (SA), jasmonic acid (JA) and ethylene (ET) in plant responses to biotic stresses. Recent studies indicate that other hormones such as abscisic acid (ABA), auxin, gibberellic acid (GA), cytokinin (CK), brassinosteroids (BR) and peptide hormones are also implicated in plant

to attack any particular plant species. Plants are able to protect themselves against microbes and disease in the exception rather than the rule. Plant defence mechanisms are usually complex and composed of multiple layers of defence that are effective against diverse array of pathogens. Plants utilize preformed physical and chemical barriers that hinder pathogen entry and infection. In addition, plants have evolved a wide variety of inducible defence mechanisms that are triggered upon pathogen recognition. These inducible defences include multifaceted

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- Types of journals
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- **Impact Factor**



Impact Factor

There is much debate over Impact Factors in the scientific community, particularly with regard to the fairness of the system. However, there is no doubt that an Impact Factor is seen as a benchmark of quality of the journal in many academic communities.

Formula for the 2011 Impact Factor:

Number of citations in 2011 to articles published in 2009 + 2010

Total citable articles published in 2009 + 2010

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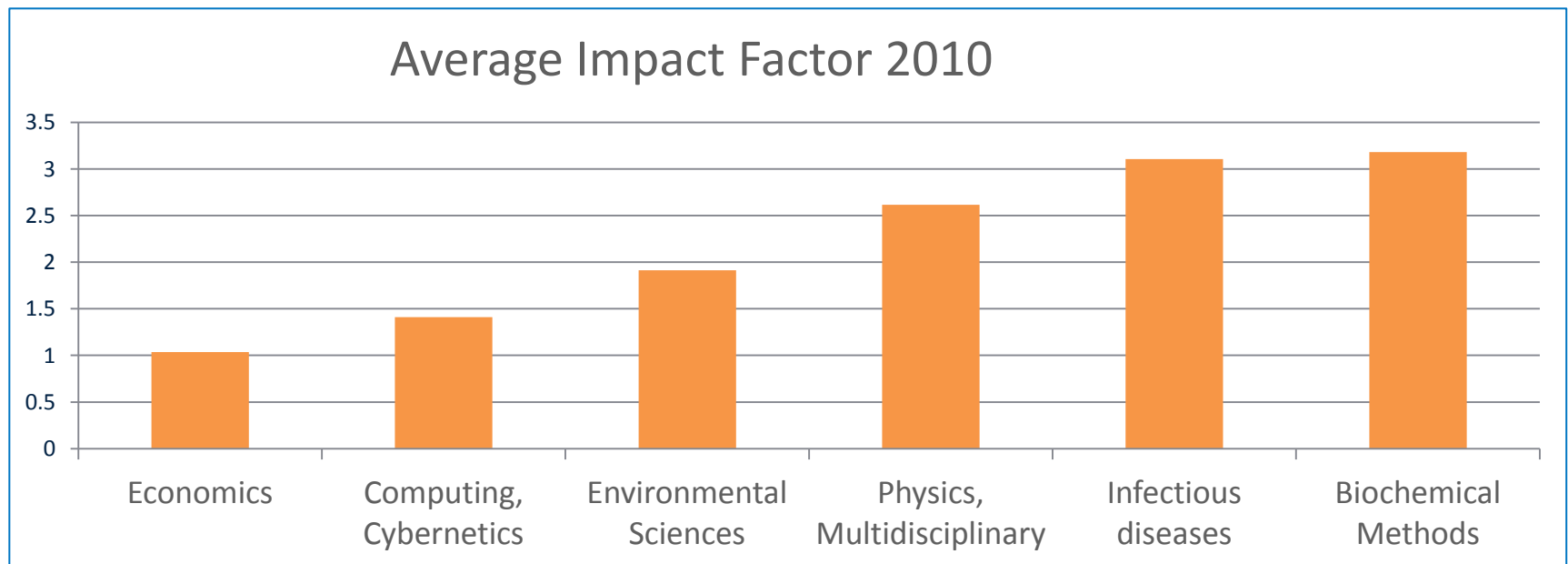
120 citations in 2011 (to articles published 2009 or 2010)

----- = 1.5

80 articles published in 2009 and 2010

Impact Factor - Points to consider

- Discipline specific – does the subject lend itself to citations?
- How big is the field? What is the number of scientists who research and write in a particular area?
- Other factors influence the formula e.g. number of issues published per year
- How “hot” the topic is



Questions about writing and publishing scientific articles?



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Article

Comorbidity and subgroups in childhood autism

...The objective of this study was to identify clinical subgroups in children with **childhood autism** and to examine comorbidity in each subgroup. ... IQ above 50 and fulfilling research criteria for **childhood autism**

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Journal of Autism and Developmental Disorders
September 1980, Volume 10, Issue 3, pp 287-292

Minor physical anomalies in childhood autism

Paul S. Links

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Abstract

A group of autistic children have been found to have an excess of minor physical anomalies (MPA) and birth and pregnancy complications. However, there was not a significant positive correlation between the birth and pregnancy complications and the MPA. The relationship between MPA and maternal age in these autistic children was investigated. In the 45 autistic children studied, there was a significant positive correlation between MPA and maternal age at birth. The significance of the relationship between MPA and maternal age deserves further study.

** The author thanks M. Stockwell, Reg. N., F. Abichandani, M.D., and J. Simeon, M.D., for their work on the initial project, and A. Kopyts and D. Offord, M.D., for their helpful assistance.*



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Abstract

A group of autistic children h
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- Features research and case studies involving the entire spectrum of interventions, including behavioral, biological, educational, and community aspects

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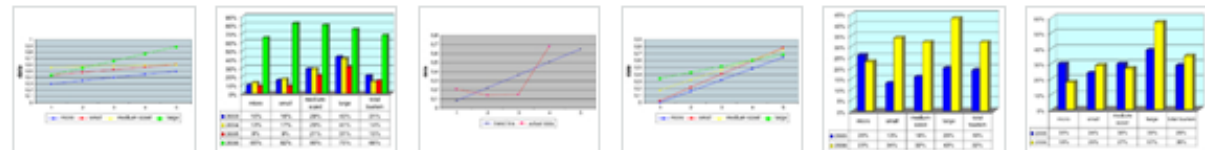
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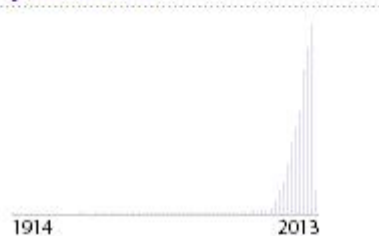
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Self-intersections of random walks on lattices

Acta Mathematica Hungarica (2002) 96:187-220, August 01, 2002

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Journal of Cardiovascular Translational Research (2010) 3:704-716, November 29, 2010

 $\tilde{\beta}$

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results

Statistical issues in health impact assessment at the state and local levels

Air Quality, Atmosphere & Health (2009) 2:47-55, March 17, 2009

 $\mu^c | \hat{\beta}^c, \tilde{\beta}, S_{W,c}^2, \sigma_B^2$

EXACT


$$\sim N \left(\frac{S_{W,c}^2}{S_{W,c}^2 + \sigma_B^2} \tilde{\beta} + \frac{\sigma_B^2}{S_{W,c}^2 + \sigma_B^2} \hat{\beta}^c, \frac{S_{W,c}^2 \sigma_B^2}{S_{W,c}^2 + \sigma_B^2} \right),$$

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 $\tilde{\beta}$

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 $\mu^c \sim N(\tilde{\beta}, \sigma_B^2)$

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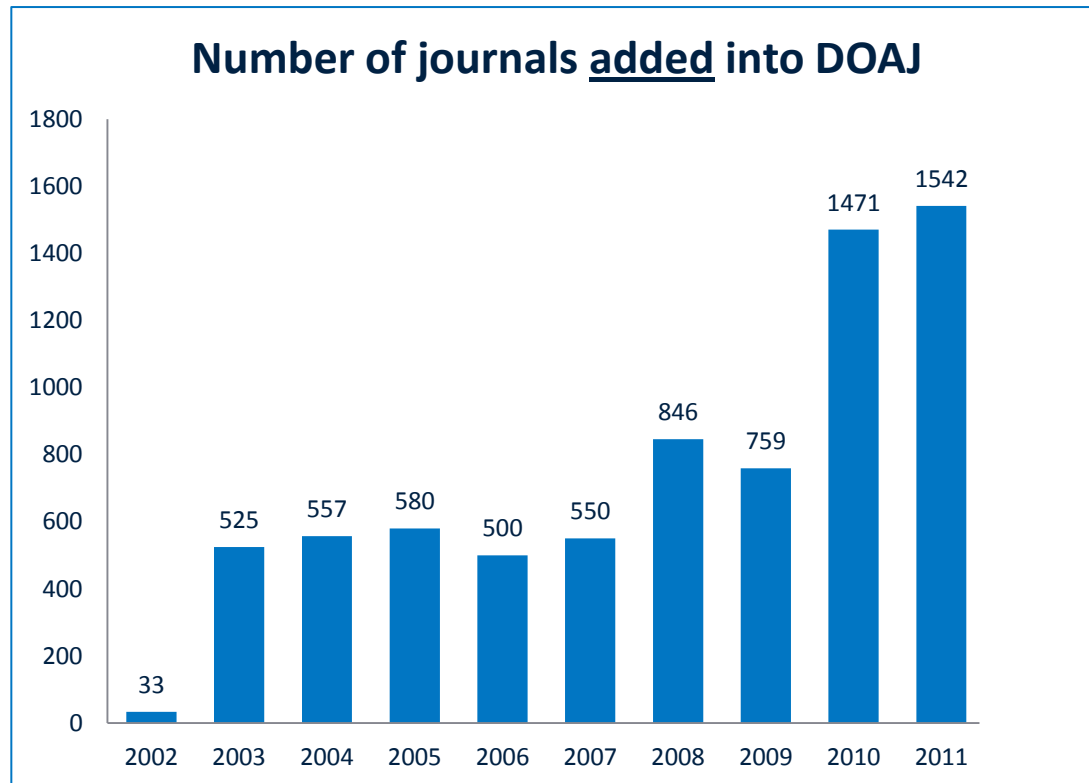
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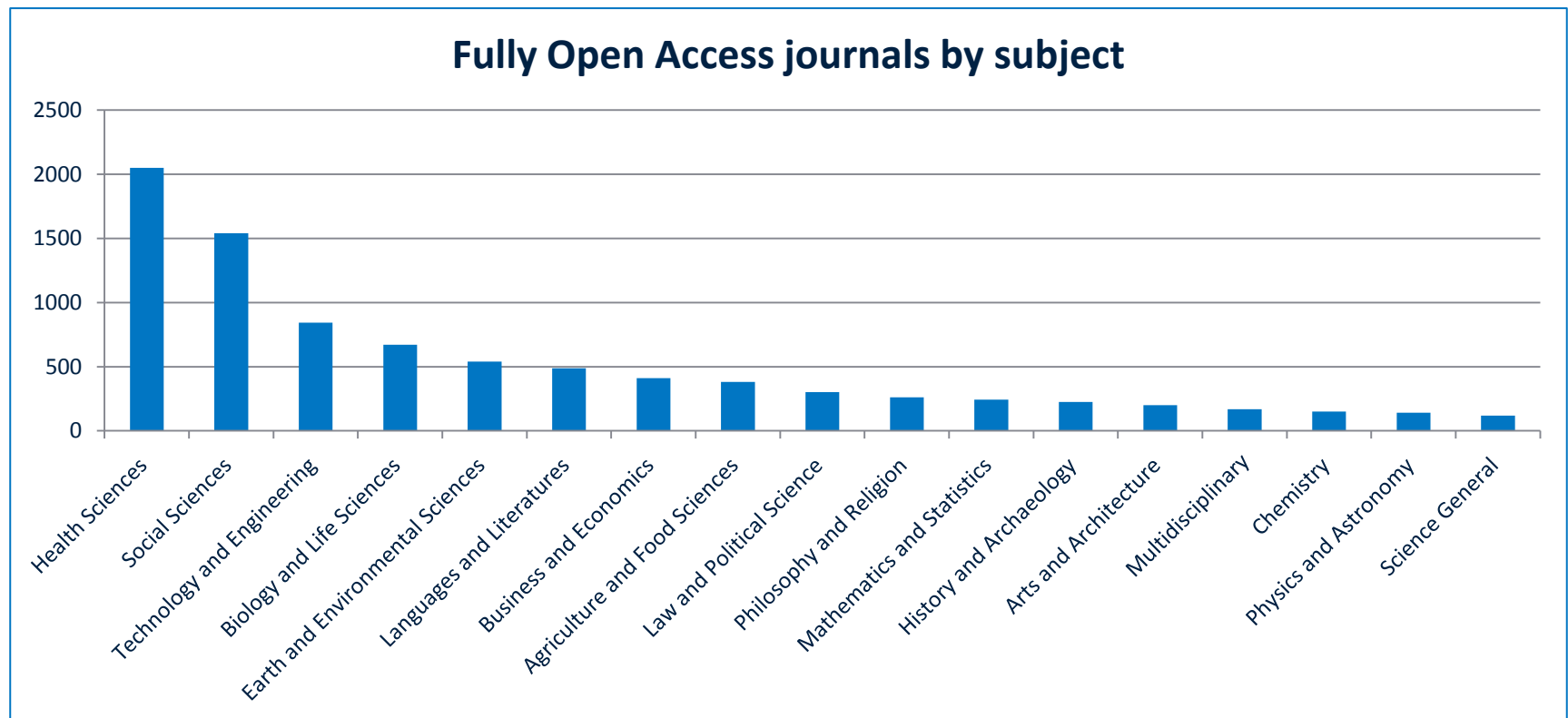


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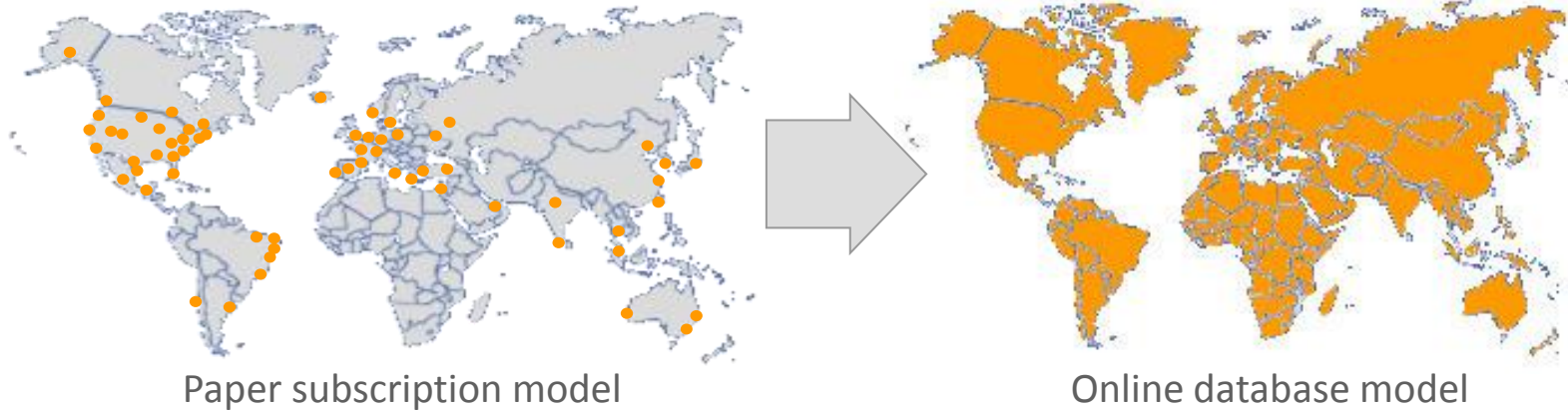
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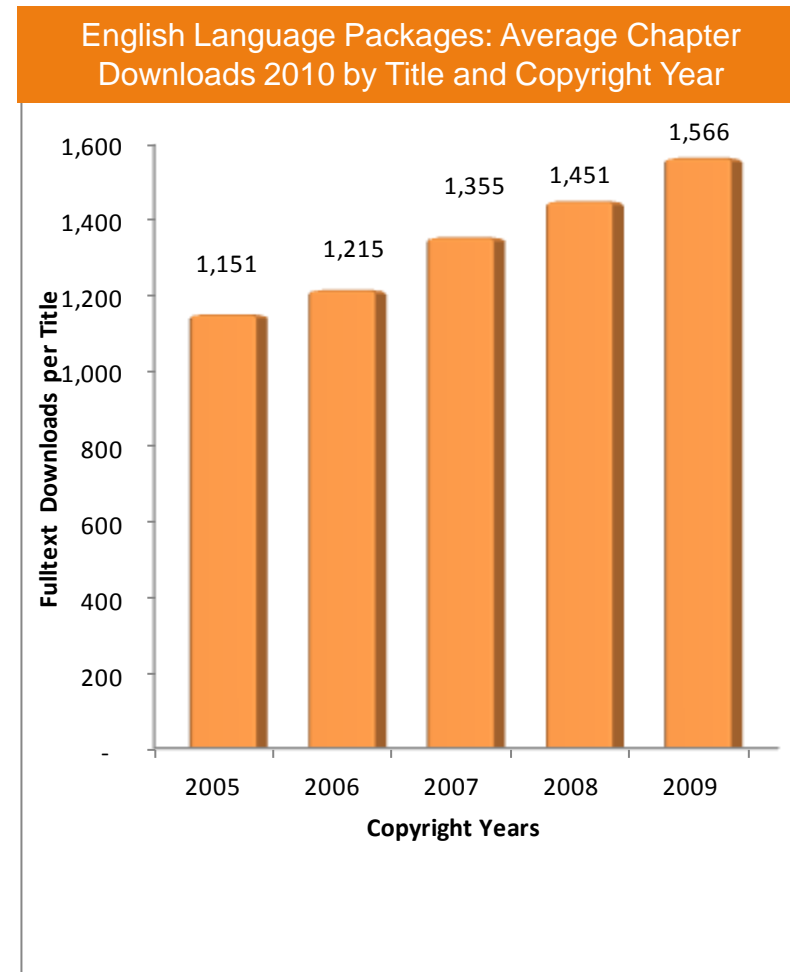
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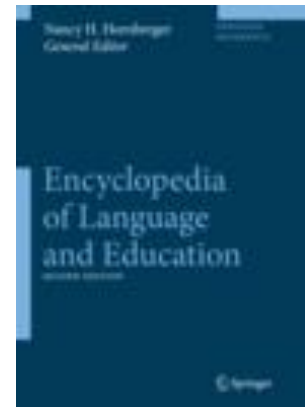
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