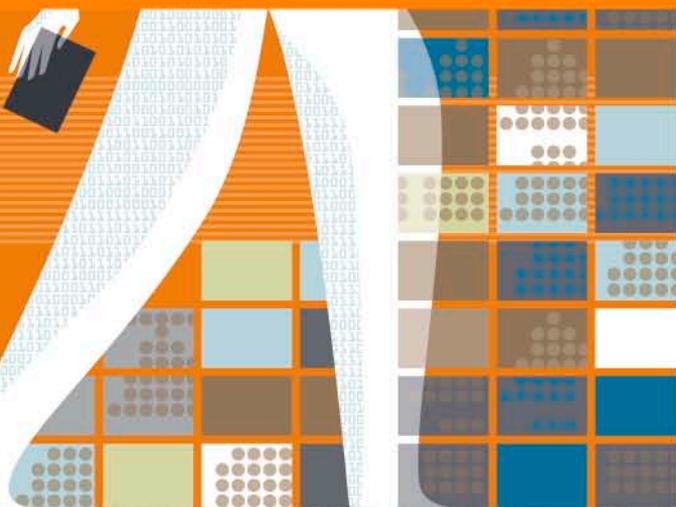


Journal Publishing and the Basket of Metrics



1ST YOUNG TRANSPORTATION GEOTECHNICS ENGINEERS MEETING

Christopher Greenwell

Publishing Director

Elsevier

Elsevier's Engineering Team



131 Journals

Chemical Engineering;
 Mechanical Engineering;
 Civil Engineering;
 Aerospace Engineering;
 Computational Engineering;
 Ocean Engineering;
 Etc.



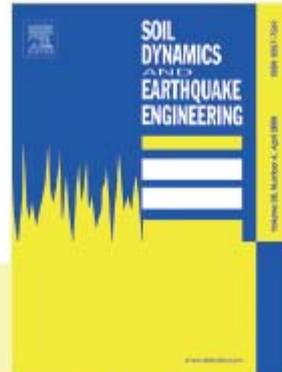
Geotechnical Engineering Journal Portfolio



2014 Impact Factor[®]
1.741

5 year IF: 2.005
SNIP: 2.160
SJR: 2.023

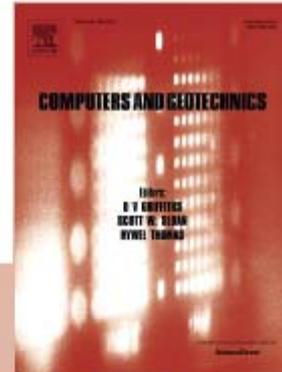
elsevier.com/locate/tust



2014 Impact Factor[®]
1.481

5 year IF: 1.897
SNIP: 1.787
SJR: 1.516

elsevier.com/locate/soildyn



2014 Impact Factor[®]
1.705

5 year IF: 2.179
SNIP: 2.073
SJR: 2.033

elsevier.com/locate/compgeo



Updated
Impact Factor

2014 Impact Factor[®]
1.686

5 year IF: 2.312
SNIP: 2.607
SJR: 1.849

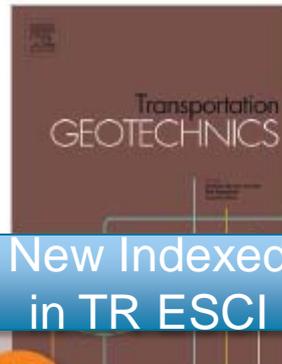
elsevier.com/locate/ijrmms



2014 Impact Factor[®]
2.366

5 year IF: 2.682
SNIP: 2.367
SJR: 2.952

elsevier.com/locate/geotextmem

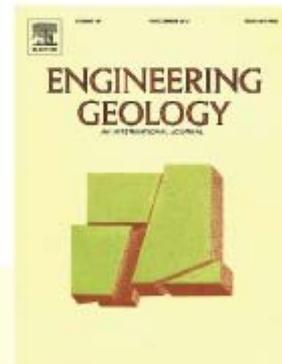


New Indexed
in TR ESCI

NEW
Journal

SNIP: 0.595
SJR: 0.281

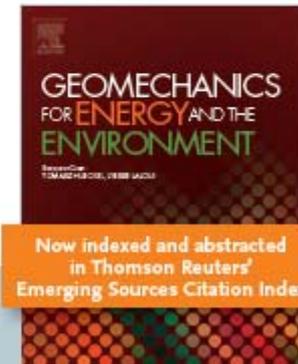
elsevier.com/locate/trgeo



2014 Impact Factor[®]
2.196

5 year IF: 2.663
SNIP: 1.865
SJR: 1.810

elsevier.com/locate/enggeo



Now indexed and abstracted
in Thomson Reuters'
Emerging Sources Citation Index

elsevier.com/locate/gete

Content

- Introduction to Scholarly Publishing
- Basket of Metrics
- Getting Your Paper Noticed

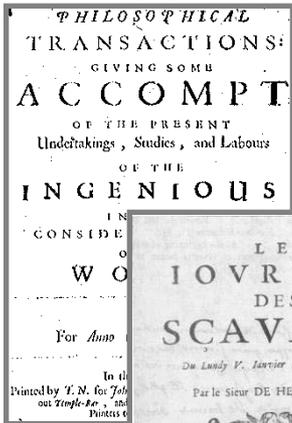


Introduction to Scholarly Publishing

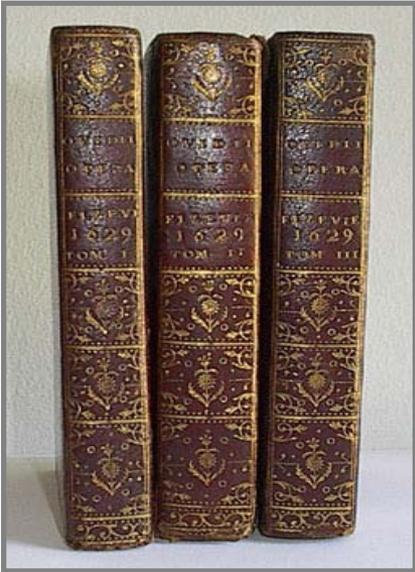
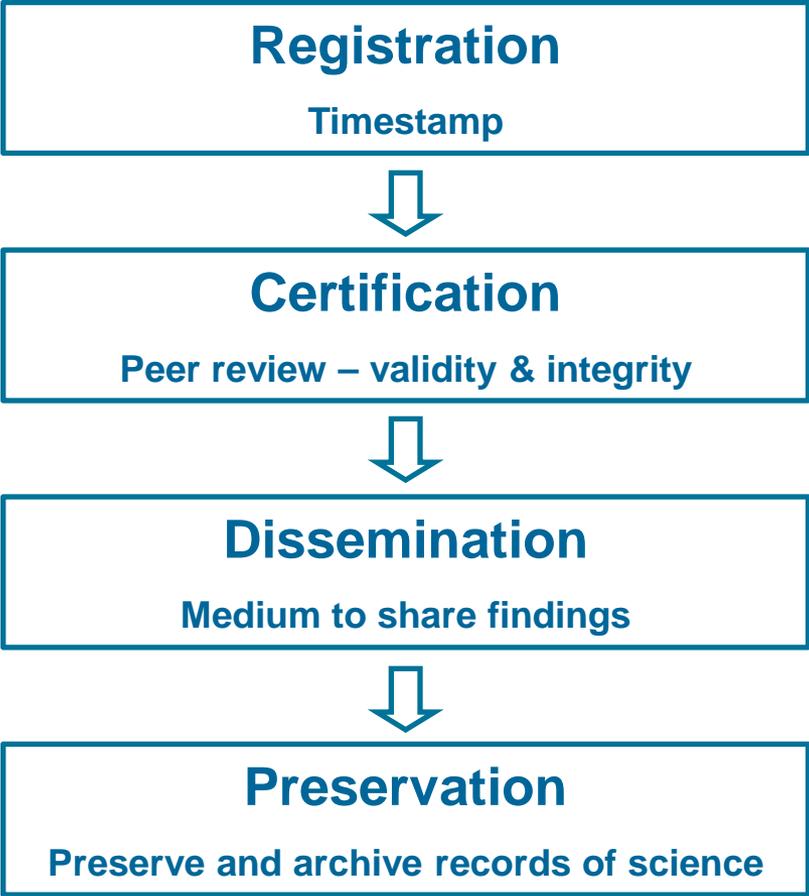
Elsevier Publishing Campus

Let's Start at the Beginning

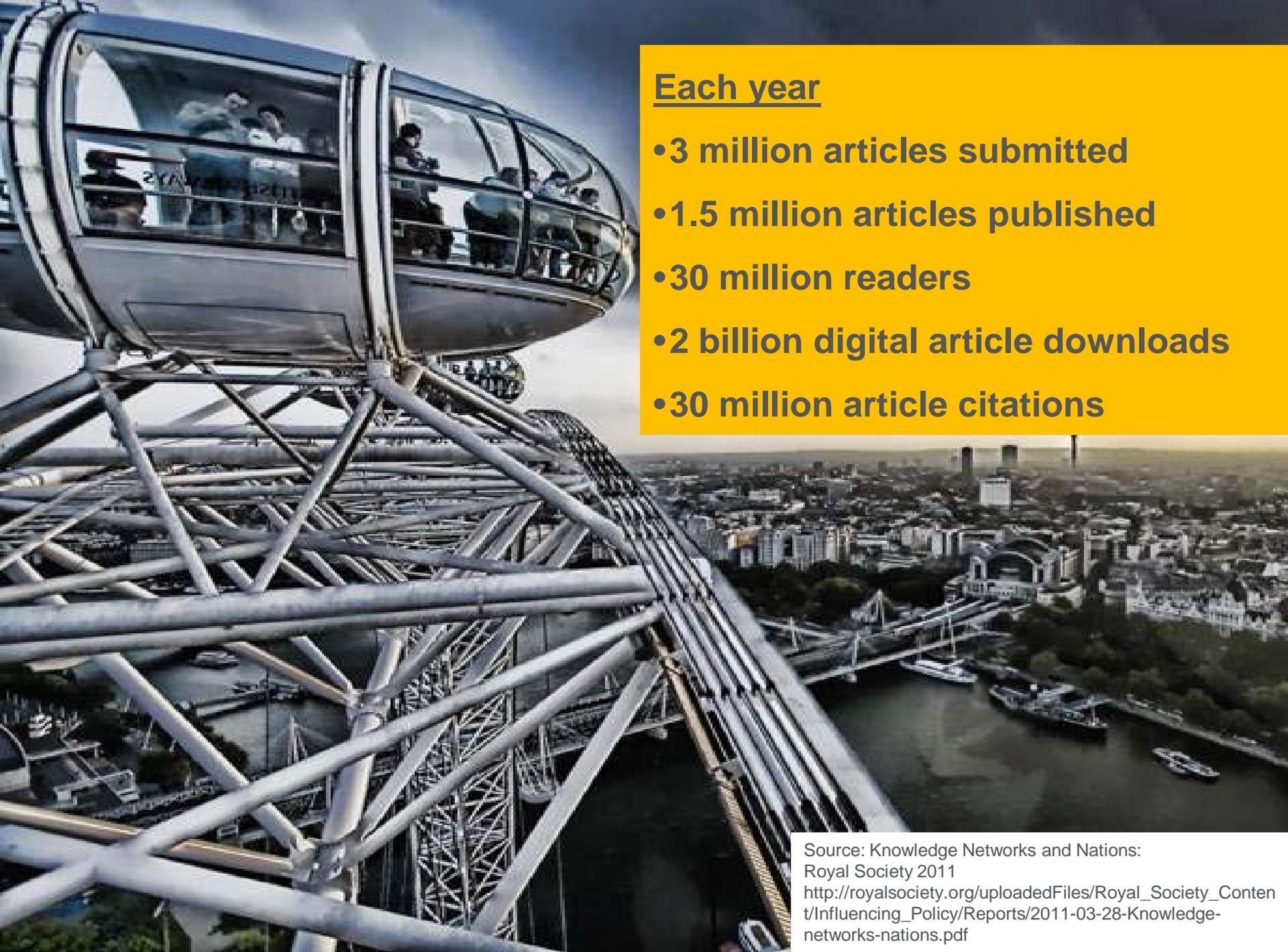
Journal publishing has thrived for over 350 years but the fundamental role of Publishers remains unchanged



First scientific journals published in 1665



Elzevirianas circa 1629

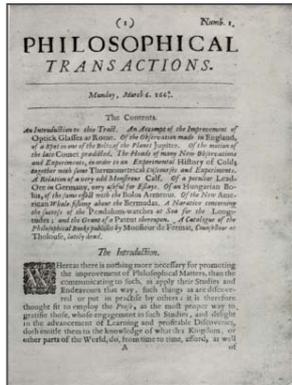


Each year

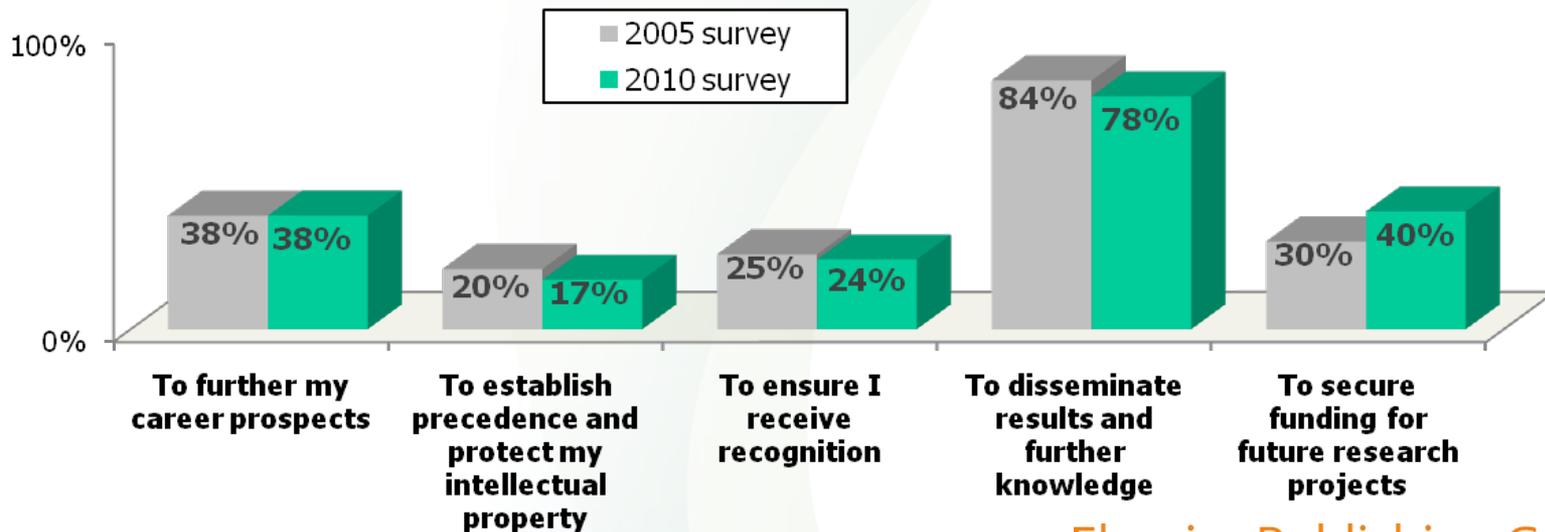
- 3 million articles submitted
- 1.5 million articles published
- 30 million readers
- 2 billion digital article downloads
- 30 million article citations

Source: Knowledge Networks and Nations:
Royal Society 2011
http://royalsociety.org/uploadedFiles/Royal_Society_Content/Influencing_Policy/Reports/2011-03-28-Knowledge-networks-nations.pdf

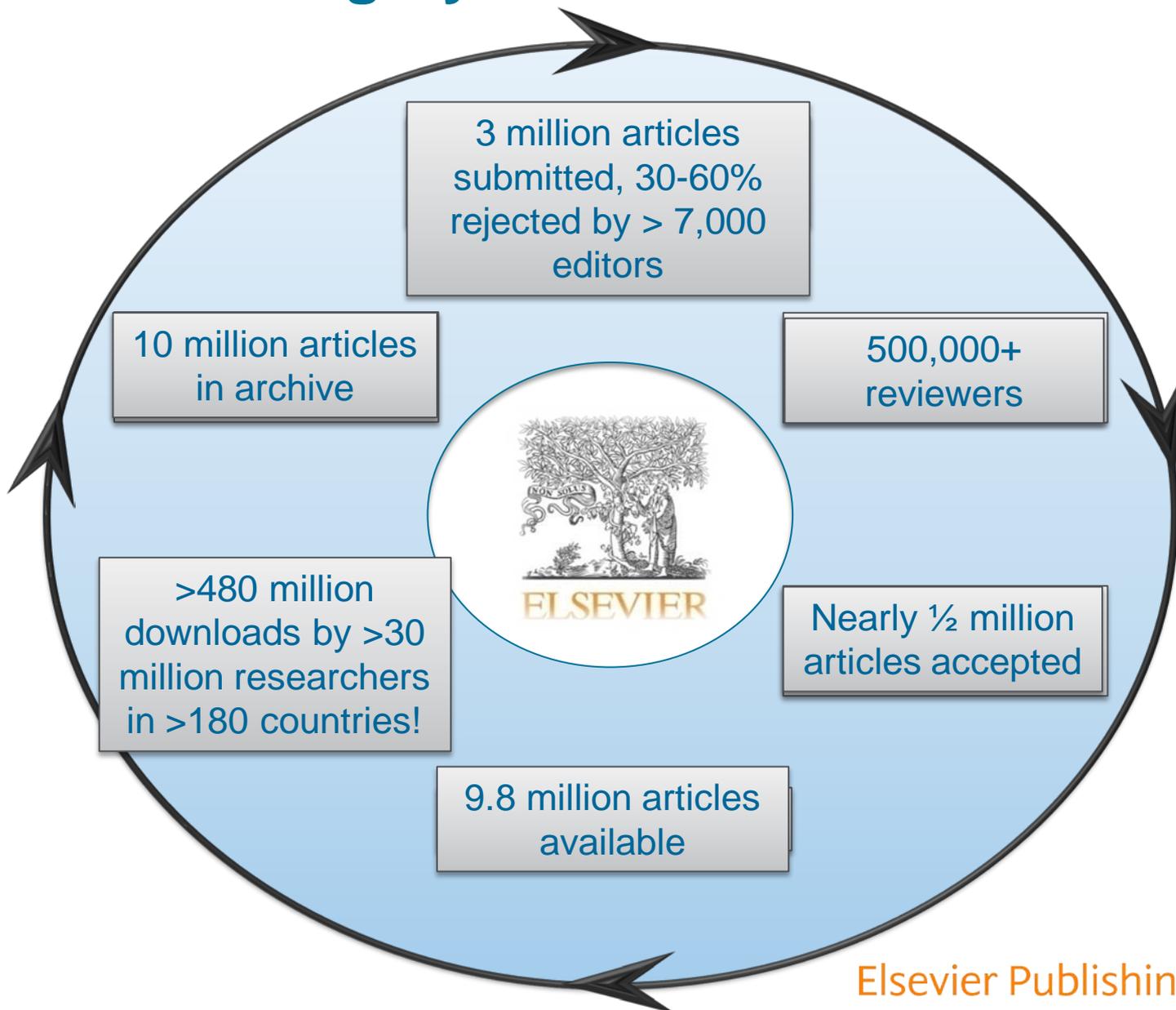
Why Do People Publish



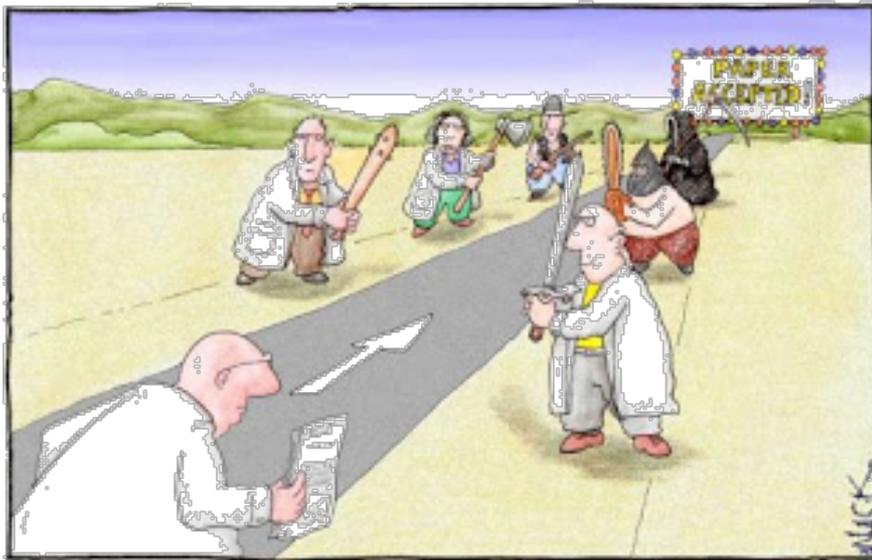
- First peer-reviewed journal founded in 1665 by Royal Society
- Journal publishing has evolved dramatically since, but its core functions remain:
 - Registration of new research findings
 - Quality assurance through peer review
 - Dissemination globally
 - Archiving in perpetuity



The Publishing Cycle



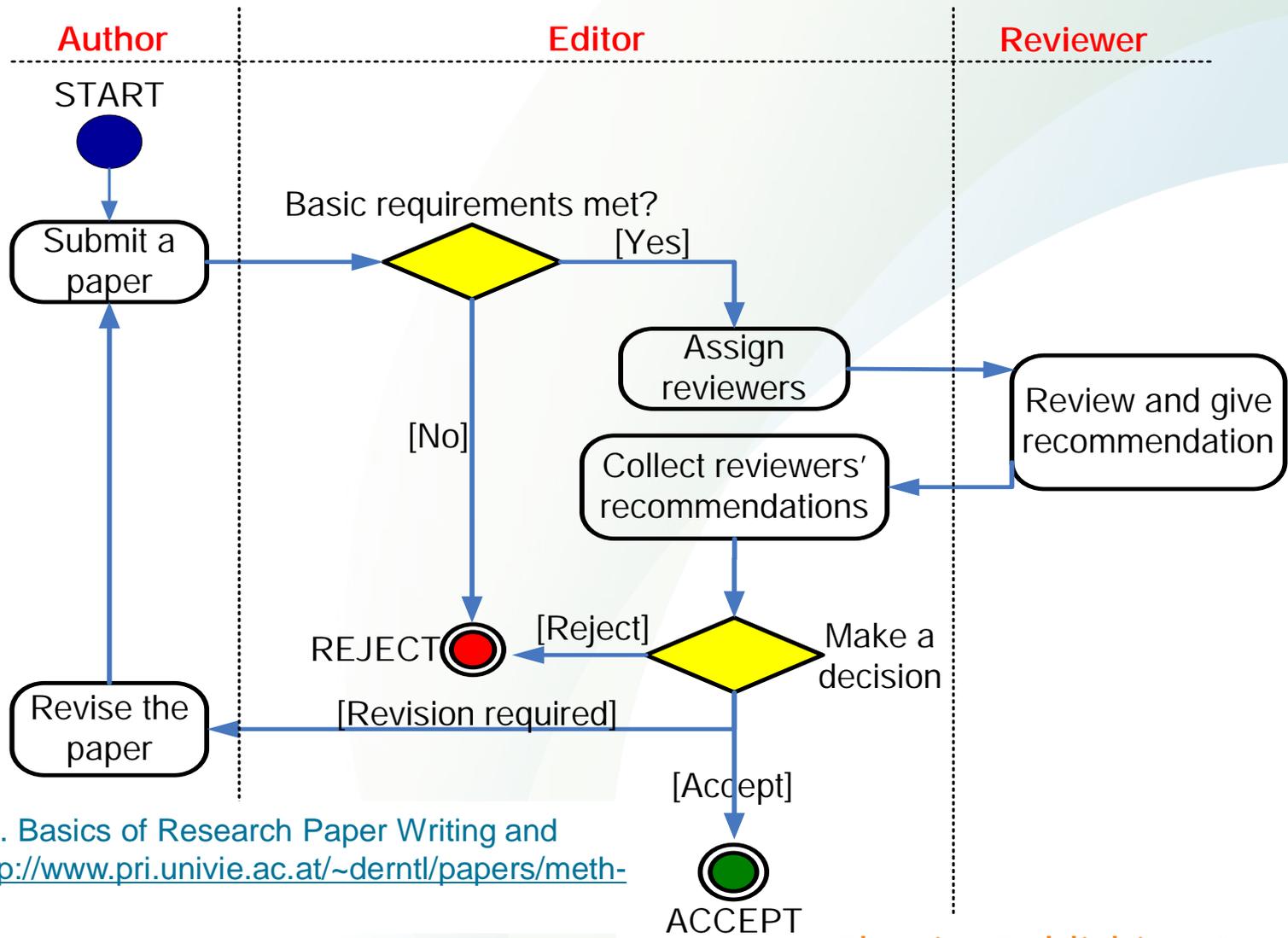
Peer Review



Most scientists regarded the new streamlined peer-review process as 'quite an improvement.'

- Helps to determine the quality, validity, significance, and originality of research
- Helps to improve the quality of papers
- Publishers are outside the academic process and are not prone to prejudice or favour
- Publishers facilitate the review process by investing in online review systems and providing tools to help Editors and Reviewers

Demystifying the 'Black Hole'



Michael Derntl. Basics of Research Paper Writing and Publishing. <http://www.pri.univie.ac.at/~derntl/papers/meth-se.pdf>

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Welcome to the online submission and editorial system for *Transportation Geotechnics*.

Important Announcement

Transportation Geotechnics is moving to an enhanced online submission and peer review system. From Friday, July 08, 2016 NEW submissions must be uploaded to our new online system, EVISE.

All submissions currently in EES will be processed to completion in this system. To complete a task for a submission currently in EES, log in as usual.

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 EVISE will be unavailable on 11 August 2016 from 05:00 to 17:00 BST for a system upgrade.

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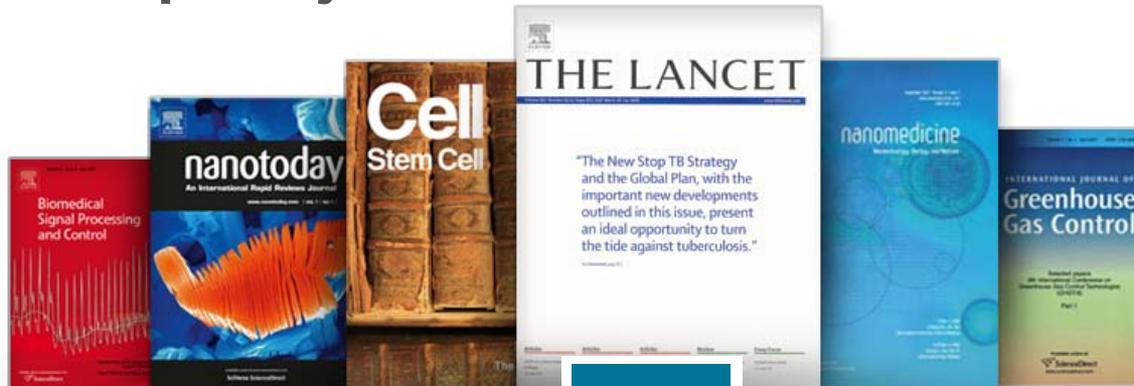
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Methods of Dissemination

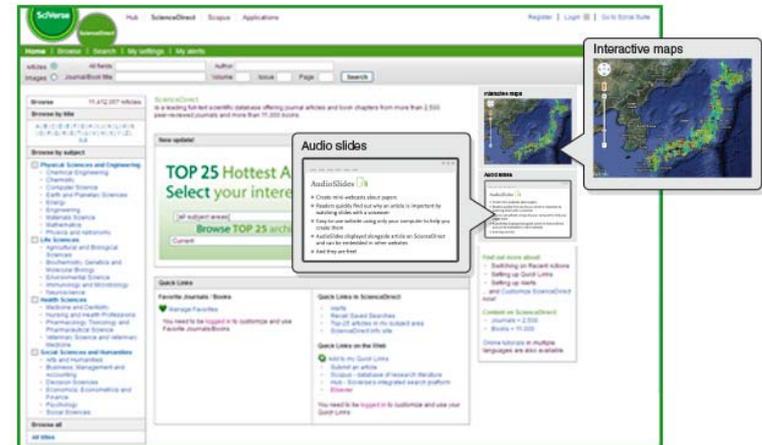
Traditional print journals



and

Electronic journal platforms like Elsevier's ScienceDirect improve online dissemination and access

ScienceDirect



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Other Publishing Models

Traditional publishing

- Authors publish free of charge
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Open access publishing

- Author (or institution/funding agency) pays an article publication fee
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Gold Open Access vs. Green Open Access

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After publication	<p>Gold open access articles can be shared:</p> <ul style="list-style-type: none"> • Anytime, anywhere on non-commercial platforms. • Via commercial platforms if the author has chosen a CC-BY license, or the platform has an agreement with us. <p>Subscription articles can be shared:</p> <ul style="list-style-type: none"> • As a link anywhere at any time. • Privately with students or colleagues for their personal use. • Privately on commercial partner sites.
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Basket of Metrics



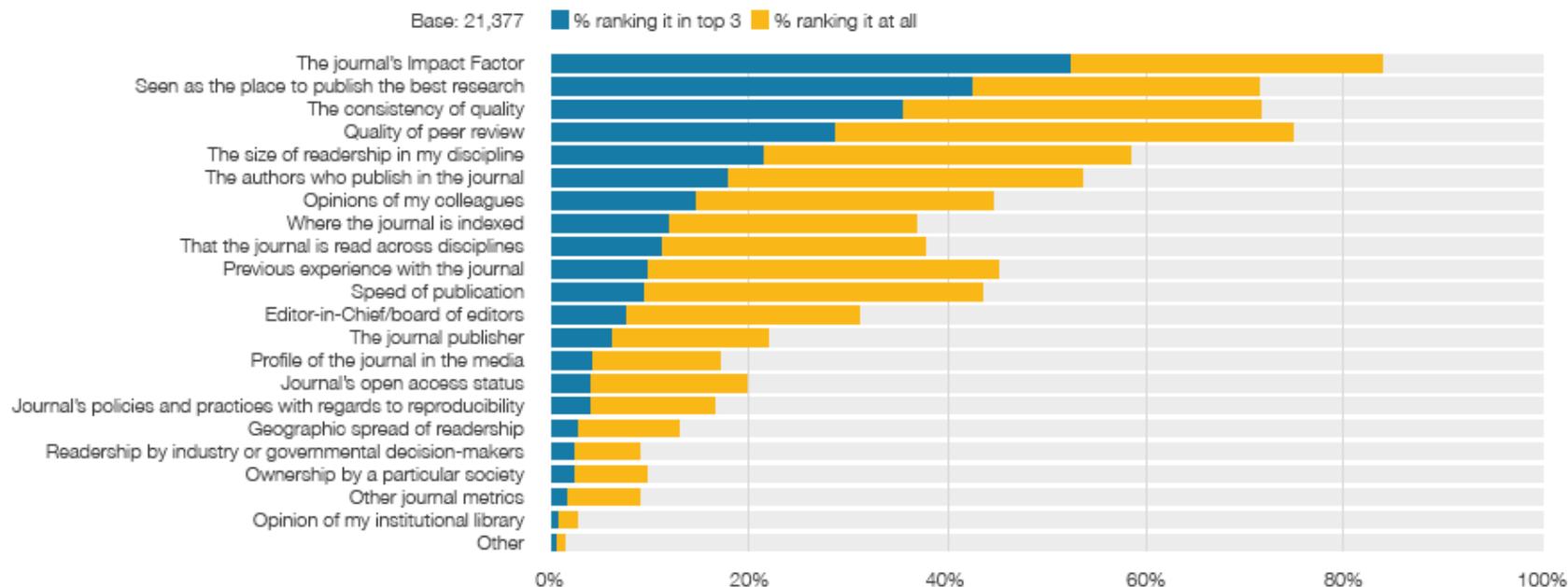
‘Publish or Perish’ Drives Reliance on the Impact Factor

5

Factors contributing to journal reputation

“What is it about this journal that gives it a high reputation? Please select the 8 most significant factors from the list below, in terms of how you judge the reputation of this journal.”

Factors that contribute most to the perception of a journal’s reputation are **Impact Factor** and **‘seen as the place to publish the best research by my community’**.



Impact Metrics: What Do They Offer?

- Impact metrics are used to measure research impact for benchmarking and quality comparison purposes.
- Metrics allow us to measure research impact at a variety of different levels:

' There is no single "best" indicator that could accommodate all facets of the new reality of journal metrics '

Wolfgang Glanzel, of the Expertisecentrum O&O Monitoring (Centre for R&D Monitoring, ECOOM)

- Problems arise when metrics are used for assessment in ways they weren't intended for.

The Tide Has Turned...

THE CHRONICLE OF HIGHER EDUCATION

RESEARCH



The Number That's Devouring Science

The impact factor, once a simple way to rank scientific journals, has become an unyielding yardstick for hiring, tenure, and grants

By *RICHARD MONASTERSKY* | OCTOBER 14, 2005



PROFESSIONAL JOBS SUMMITS RANKINGS

Journal impact factors 'no longer credible'

The measure of scholarly impact is now being manipulated so much that it has ceased to be meaningful, editorial claims

November 5, 2015

Impact Factor

To all items
(regardless of type)

'Source' items only

Cites in 2014 to items published in:	2013 =2563	Number of items published in:	2013 =803
	2012 =2801		2012 =703
	Sum: 5364		Sum: 1506

Calculation=	$\frac{\text{Cites to recent items}}{\text{Number of recent items}}$	$\frac{5364}{1506}$	= 3.562
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**What is counted as a
'Source' item?**

- Original research articles
- Review articles
- Proceedings papers
- Technical notes

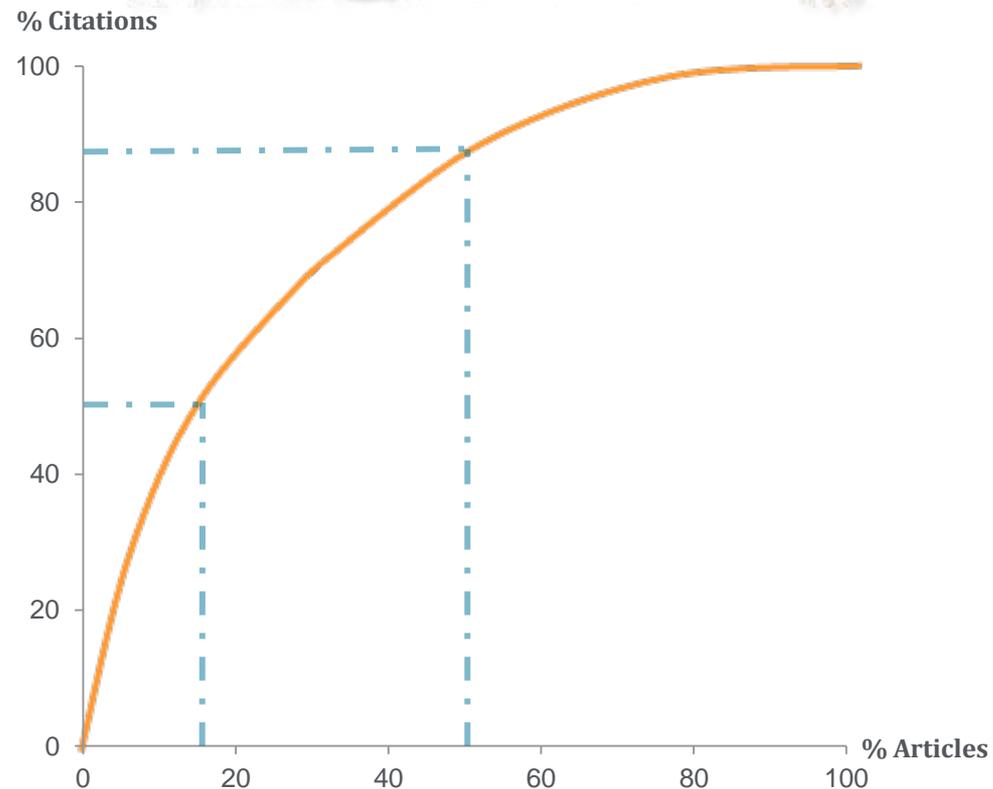
(Any publication that can significantly impact the world of research will be counted)

Skewed Distribution of Citations Across Articles

thebmj

Why the impact factor of journals should not be used for evaluating research

Seglen, P.O., *BMJ* (15th Feb 1997): Vol. 314, pp. 497



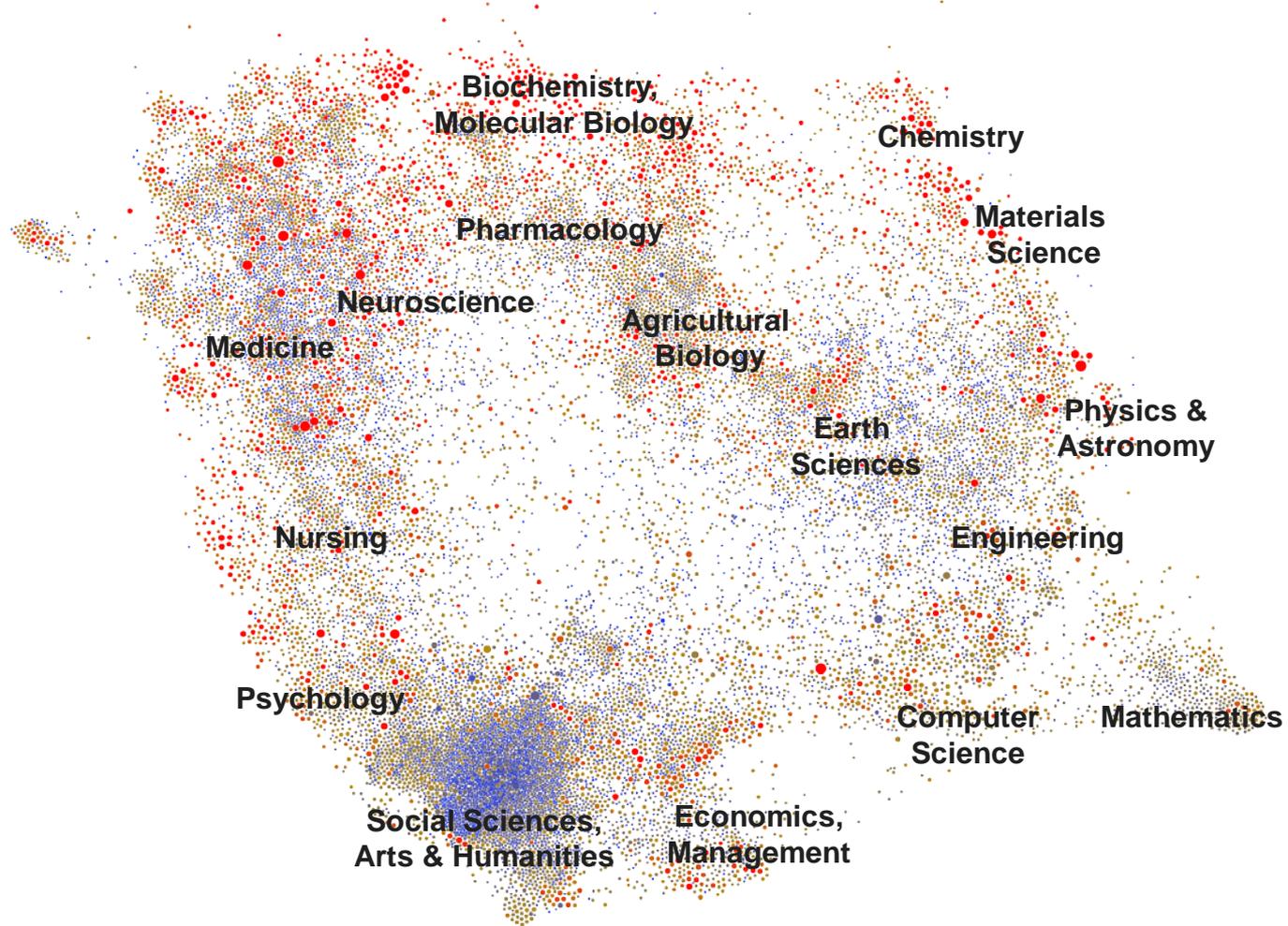
Skewed Distribution of Citations Across Journals

InCites™ Journal Citation Reports®

 THOMSON REUTERS™

Rank	Full Journal Title	Total Cites	Journal Impact Factor
1	NEW ENGLAND JOURNAL OF MEDICINE	268,652	55.873
2	LANCET	185,361	45.217
3	JAMA-JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION	126,479	35.289
4	ANNALS OF INTERNAL MEDICINE	48,356	17.81
5	BMJ-British Medical Journal	89,031	17.445
6	ARCHIVES OF INTERNAL MEDICINE	38,021	17.333
7	PLOS MEDICINE	18,649	14.429
8	JAMA Internal Medicine	2,934	13.116
9	BMC Medicine	5,708	7.356
10	Journal of Cachexia Sarcopenia and Muscle	713	7.315
11	MAYO CLINIC PROCEEDINGS	9,990	6.262
12	JOURNAL OF INTERNAL MEDICINE	8,802	6.063
13	Cochrane Database of Systematic Reviews	43,592	6.035
14	CANADIAN MEDICAL ASSOCIATION JOURNAL	12,121	5.959
15	MEDICINE	4,912	5.723
16	ANNALS OF FAMILY MEDICINE	3,556	5.434
17	Translational Research	2,112	5.03
18	AMERICAN JOURNAL OF MEDICINE	22,662	5.003
19	AMERICAN JOURNAL OF PREVENTIVE MEDICINE	15,857	4.527
20	MEDICAL JOURNAL OF AUSTRALIA	10,268	4.089

Skewed Distribution of Citations Across Fields



Overview of Selected Journal Citation Metrics

Impact Factor



- + Easy calculation
- + Easy-to-handle value
- Short citation window (2 yrs)
- Field-dependent
- +/- Self-citations included
- Available for 11k journals (paid)
- Numerator & denominator misaligned

SNIP

- Complex calculation
- + Easy-to-handle value
- + Medium citation window (3 yrs)
- + Normalized to local citation environment
- +/- Self-citations included
- + Available for 22k journals (free)

eigenFACTOR



- Complex calculation
- Hard-to-handle value
- + Long citation window (5 yrs)
- + Measures journal prestige
- +/- Self-citations excluded
- Available for 11k journals (paid)
- Journal size influences score

SJR

- Complex calculation
- + Easy-to-handle value
- + Medium citation window (3 yrs)
- + Measures journal prestige
- +/- Self-citations limited
- + Available for 22k journals (free)

The Basket of Metrics

Discover your journal's metrics



Impact

- > Impact Factor
- > 5 year Impact Factor
- > Article Influence & Eigenfactor
- > SNIP/IPP
- > SJR
- > Acceptance Rate



Speed

- > Review Speed
- > Online Article Publication Time



Reach

- > Downloads
- > Authors

A “basket of metrics”: flexible and sophisticated, breadth and depth

Portfolio Journals
Sections
Conferences
Book series

Community

Contributions

Consumption

Esteem

Impact

Editor Board
Authors

Outputs

Usage
Citations
Audience

Scholarly Activity
Academic opinion

Social Activity
Media Activity

Journal Metrics, Where to Find Them?

Journal Homepage

Home > Journals > Soil Dynamics and Earthquake Engineering

Soil Dynamics and Earthquake Engineering

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Journal Metrics

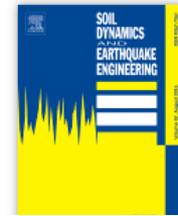
Source Normalized Impact per Paper (SNIP): **1.787**

SCImago Journal Rank (SJR): **1.516**

Impact Factor: **1.481**

5-Year Impact Factor: **1.897**

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understanding of new technical concepts.

Fields Covered:

Seismology and geology relevant to earthquake engineering problems with modeling and methodologies rather than case studies. Wave scattering and dynamic crack propagation in soil: elastic or inelastic material behavior. Dynamic constitutive behavior of materials.

Dynamic interaction problems (soil-structure interaction, fluid-structure interaction).

Seismicity

Read **Impact Factor**



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- AudioSlides

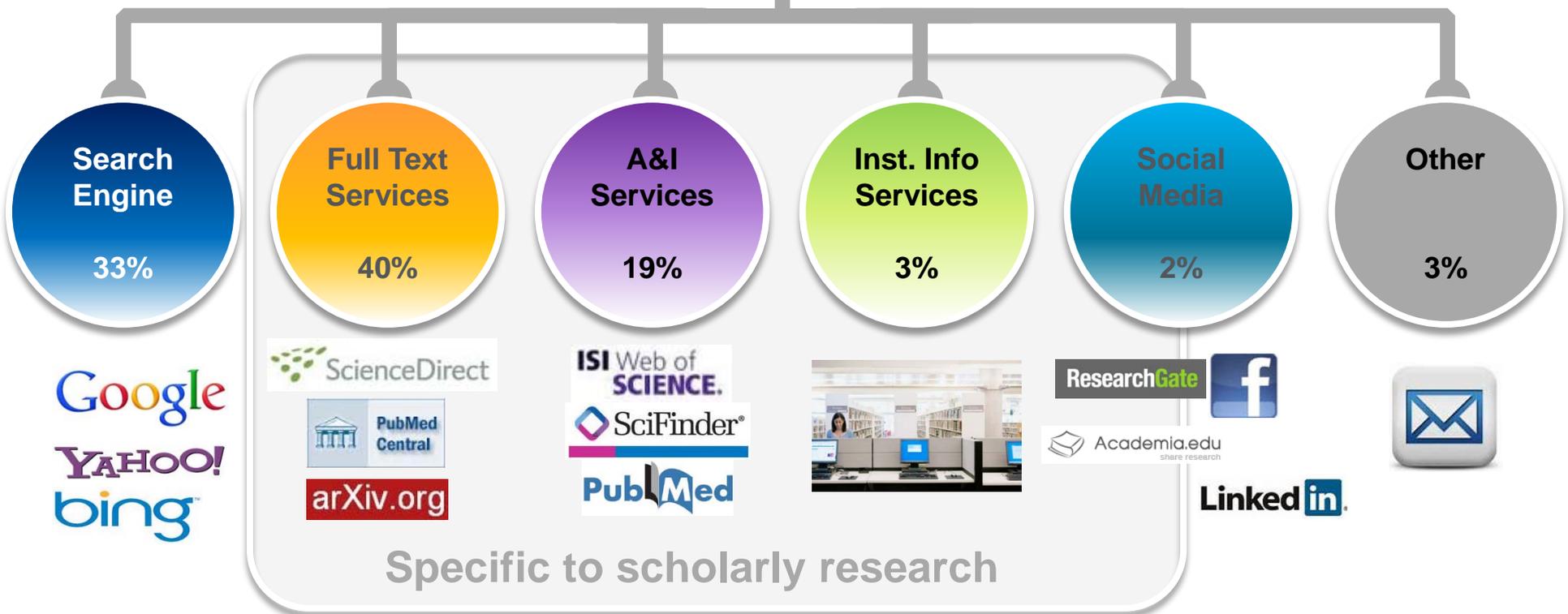


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Field of Science
Physics, Biology, Chemistry, Astronomy, Earth, Geography

Physical scientists typically start in Google
Health and Life scientists typically start in PubMed
Social scientists typically start in Google Scholar

Source: Survey of 4,668 published authors in December 2014

Search Efficiency

43'

average time of a search & discovery session
24' seeking a known article
47' keeping up to date in the field or expanding
knowledge outside the field

6h59'

average time spent searching & reading articles per
week
2h36' searching
4h23' reading

5.4

average number of articles downloaded per week

56%

of articles downloaded are regarded as useful

Source: Survey of 6,009 published authors in Q3 2013

Be Clear!

- Use keywords in your title and abstract – people are more likely to come to your work through these
- Think about the search terms you use in your research
- Research is becoming more interdisciplinary – you know your core audience, but you may be able to reach people outside of your field
- Be concise and engaging in your communication – highlight the challenge you are addressing and specify what your research adds to this area

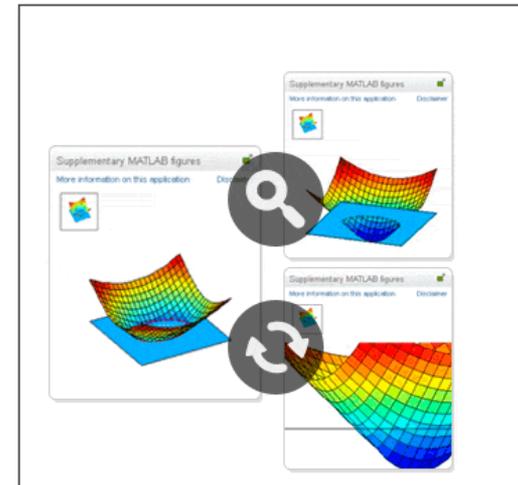
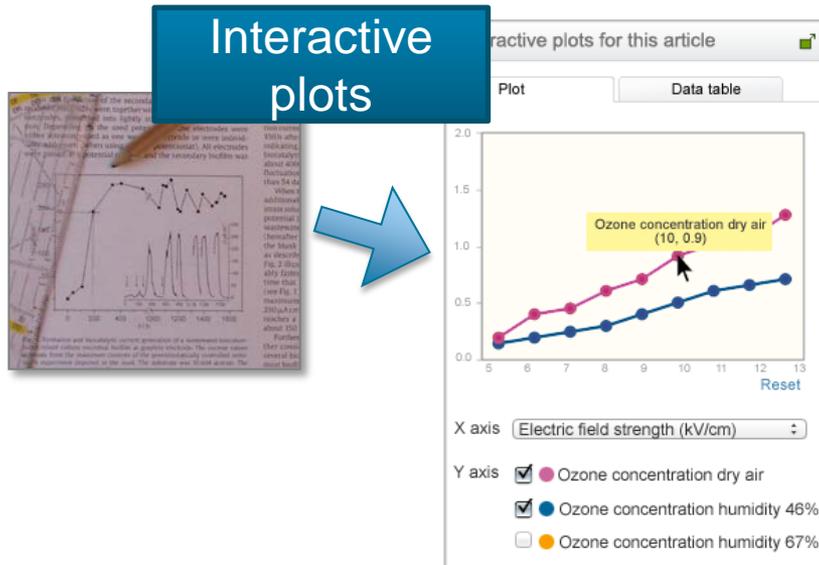
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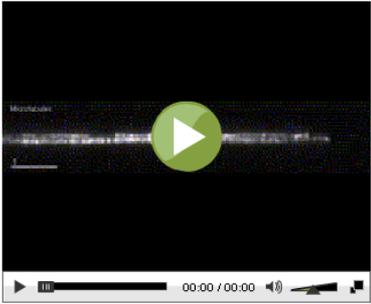


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et al., 2010). The movie collection represents the status of our current understanding in *U. maydis*, and it is important to realise that the sub-cellular organisation most likely varies between fungal species. However, most of the basic organising principles and mechanisms are expected to be conserved.

Microtubules



Help with MOV files Options ▾

Movie 1. Microtubule organisation in a hyphal cell. Microtubules form bundles that extend from the growing tip to the proximal septum, thereby providing continuous tracks that connect both cell poles. Note that individual microtubules can be very short



Interactive Map Viewer

Abstract

Keywords

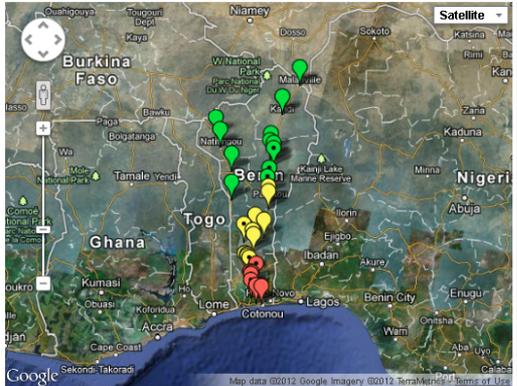
1. Introduction
2. Materials and methods
 - 2.1. Study areas
 - Table 1
 - 2.2. Sample collections
 - 2.3. Molecular analyses
3. Results
 - 3.1. Species distribution
 - Table 2
 - 3.2. Identification of the molecular forms of *An. gambiae s.s.*

References

A NEW open access journal

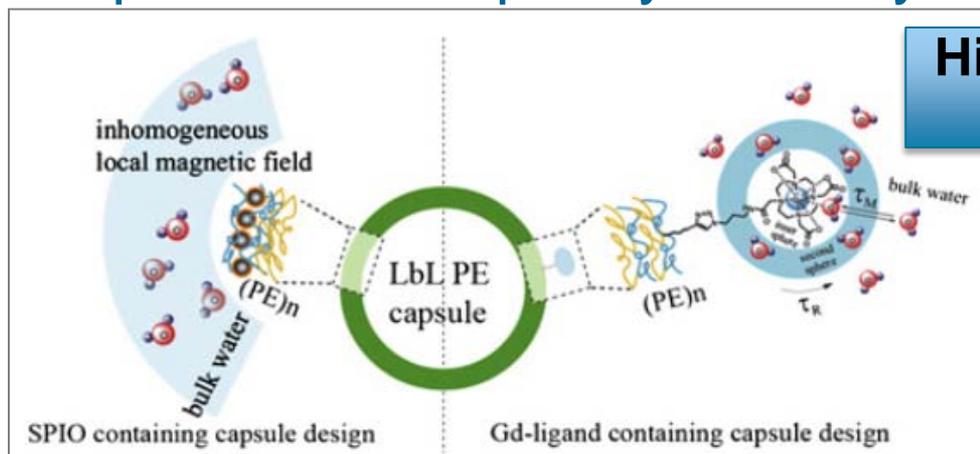
Factors that influence the distribution of these malaria vectors are discussed. This study underlines the need of further investigations of biological, ecological, and behavioral traits of these species and forms to better appreciate their vectorial capacities. Acquisition of entomological field data appears essential to better estimate the stratification of malaria risk and help improve malaria vector control interventions.

Supplementary Geospatial Data



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Help readers to quickly see why the paper is of interest



High Quality Graphical Abstracts

Highlights

- A conformational two-state mechanism for proton pumping complex I is proposed.
- The mechanism relies on stabilization changes of anionic ubiquinone intermediates.
- Electron-transfer and protonation should be strictly controlled during turnover.
- The mechanism explains the full reversibility of complex I.

Highlights

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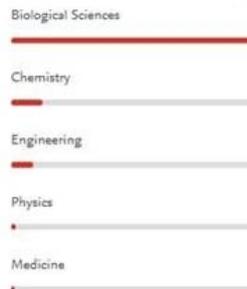


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"of the androgen receptor (AR) in prostate cancer Alastair D. Lamb, Charlie E. Massie and David E. Neal Cambridge University Department of Urology, Addenbrooke's Hospital and Cancer Research UK"
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April 2, 2015 | UK Nigeria Online (United Kingdom)



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Thank you!

We hope that we have given you the necessary information for journal publishing and metrics.

Good luck with the publication of your work!