



**Publishing
Connect**

Partnering with the Global Research Community

Publishing State of the art

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Journal Publisher
Agronomy & Remote Sensing



The Innovation Age of Publishing



Publication Process



Peer Review



Format of the Article - innovations



Access



Ethics



Data

Peer Review Evolutions

Publication and review process

- From print to digital

Nowadays ca. 80% digital



- Online submission systems

Essential for efficient, effective and fast peer review



- Mobile publishing

e.g. health care, apps



- Abstract and indexing services

Increased findability of articles and authors



Peer Review Evolutions

Publication and review process

- New peer review models
 - Open peer review
 - Pre-submission review
 - Paid peer review
 - Discussion fora
- New ways to communicate
 - E.g. Twitter, Facebook, LinkedIn
- New communities



Peer Review Evolutions

Publication and review process

- Reviewers wanted!
 - Each paper requires 2-3 reviewers
 - Increasing work pressure for researchers
 - Lack of review skills in scientifically developing countries
 - No appropriate recognition for reviews
- **what is needed to ensure the future of peer-review?**



**Publishing
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Innovation

Technological innovations

Article of the Future

PDF (12 pages) E-mail Export More Display mode

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Task based browsing

TEG

Proteins (54)

Article information

Author information (10)

Related articles (5)

Figures (5)

Tables (2)

Experimental flowcharts (4)

Proteins (54)

Supplementary (5)

References (68)

Highlight links

Easy Navigation

| Subcellular Location | Bound (%) | Unbound (%) |
|----------------------|-----------|-------------|
| Cytosol/Nuclear | 22 | 38 |
| Mitochondria | 8 | 10 |
| Heat Shock | 10 | 16 |
| Membrane Associated | 52 | 18 |
| Extracellular | 8 | 5 |
| Other | 5 | 5 |

PDF-Like text

Abstract

The ability of the mammalian blood fluke *Schistosoma japonicum* to survive in the inhospitable environment of the mammalian bloodstream can be attributed, at least in part, to its host-exposed outer surface, called the tegument. The tegument is a dynamic organ and is involved in nutrition, immune evasion and modulation, osmoregulation and signal transduction. Given its importance for parasite survival, proteins exposed to the host at the surface of the tegument are ideal targets for the development of vaccines and drugs. By biotinylating live adult worms and using a combination of OFFGEL electrophoresis and tandem mass spectrometry 54 proteins were identified as putatively host-exposed in *S. japonicum*. These included glucose transport proteins, an amino permease, a leucine aminopeptidase and a range of transporters, heat shock proteins and novel immune-active proteins. Members of the Sm29 family, including the Sm29 homologue of Sm 29, a tegument membrane protein from *Schistosoma mansoni*, were also identified. The fate of labelled proteins was investigated using electron microscopy and revealed that biotinylated proteins were rapidly internalised from the surface of the tegument and trafficked into the cytoplasmic bridges that connect the distal cytoplasm of the tegument to the underlying cell bodies. The results reported herein dramatically increase the number of *S.*

Links to external sources

Outline Show thumbnails Article top

Research highlights

Abstract

1. Introduction

2. Materials and methods

2.1. Harvesting of adult worms

2.2. Preparation of biotinylated tegument proteins by labelling worms in culture

2.3. Fluorescence and electron microscopy to observe surface biotinylation

2.4. OFFGEL electrophoresis

2.5. LC-MS/MS analysis

2.6. Protein identification

2.7. Bioinformatic analysis

3. Results

3.1. Fate of LC-biotin probes in tegument of live schistosomes

3.2. Proteomic characterisation of

Google Maps

ScienceDirect - Carbon : Com... Article of the future

Download PDF E-mail Export citation More Display mode Text size

Article outline Show thumbnail

Top

Abstract

1. Introduction

2. Materials and methods

2.1. Study areas



2.2. Sample collections

2.3. Molecular analyses

3. Results

3.1. Species distribution



Fig. 1: Map of republic of Benin showing the position of the 30 study sites within each bioclimatic area.

Legend:

- Sudanian
- Sudano-Guinean
- Guinean

Display: Bioclimatic area

Close map

Show: Article information

Acta Tropica

Volume 114, Issue 2, May 2010, Pages 116-122
doi:10.1016/j.actatropica.2010.02.001
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Article history:

Received 2009-7-21;
Received in revised form 2010-1-22;
Accepted 2010-2-1;

Keywords:

Anopheles gambiae;
Malaria;
Specie;
Molecular form;
Benin;

Article extra's:

Interactive maps:

- Figure 1

This article contains the following additional content and features:

- Author information (8)
- Related articles (5)
- Figures (2)
- Tables (2)

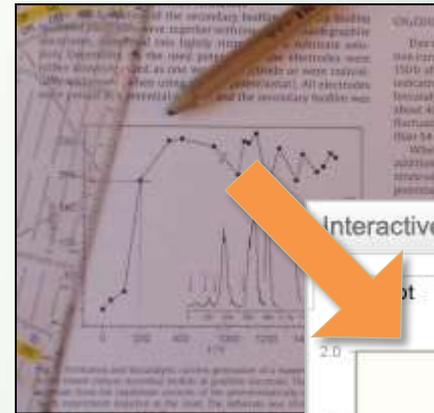
2.2. Sample collections

Mosquitoes were collected as larvae or pupae during the rainy seasons, between March and July 2006, between April and May 2007, and in October 2007. The sampling was guided by the availability and the accessibility of larvae in breeding sites of *An. gambiaes.s.l*. Larvae and pupae were stored in separate bottles for each breeding site of each locality. They were transported to the OIEC laboratory. Pre-imaginal stages were then reared to adults as follows: larvae from

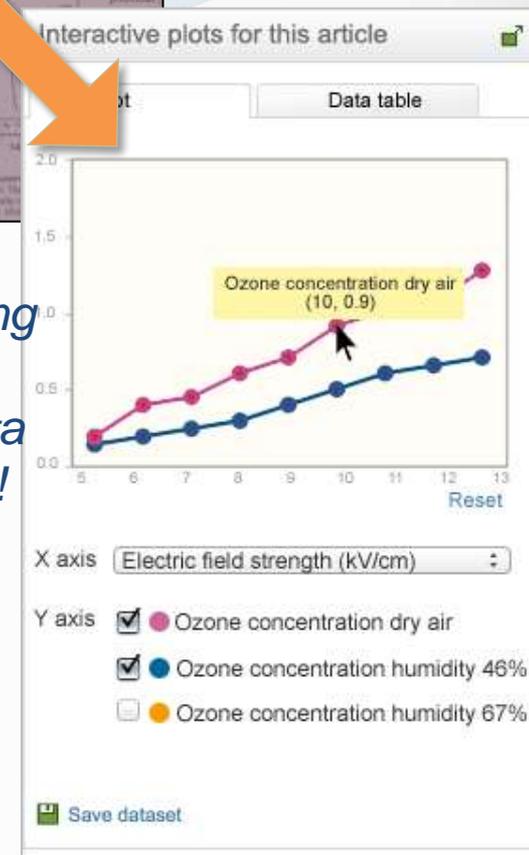
Done Local intranet 90%

Interactive Plots

- Allow readers to access data that used to be “buried” in plots
- Interactive visualization capabilities
 - Data cursor
 - Switch between plot and table view
- Download data
- Works with .CSV files, easily exported from any scientific software

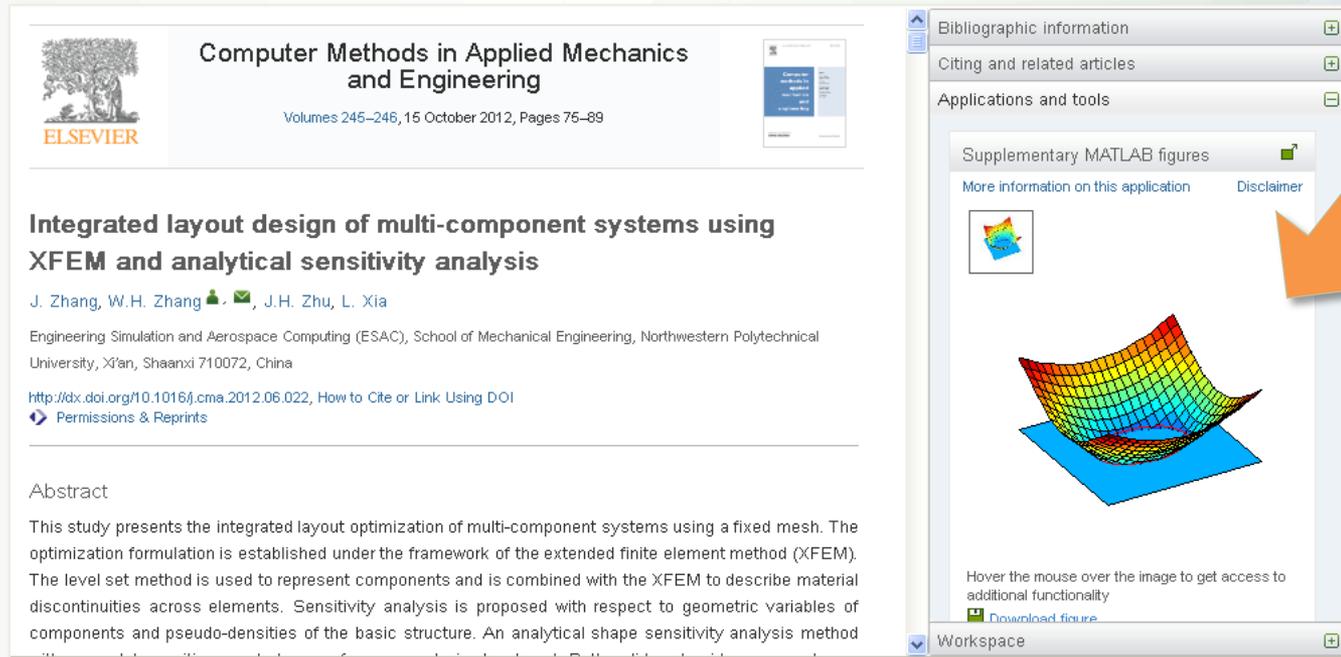


No more printing out figures to reconstruct data points by hand!



interactive figure viewer

Making plots more valuable for research



The screenshot shows a web page for the journal "Computer Methods in Applied Mechanics and Engineering" (Elsevier). The article title is "Integrated layout design of multi-component systems using XFEM and analytical sensitivity analysis" by J. Zhang, W.H. Zhang, J.H. Zhu, and L. Xia. The article is from Volume 245-246, 15 October 2012, Pages 75-89. The abstract describes the integrated layout optimization of multi-component systems using a fixed mesh and the extended finite element method (XFEM).

Overlaid on the right side of the page is an interactive figure viewer window. It contains a sidebar with navigation options: "Bibliographic information", "Citing and related articles", "Applications and tools", and "Supplementary MATLAB figures". The main area of the viewer displays a 3D surface plot with a color gradient from blue to red. A large orange arrow points from the sidebar towards the plot. Below the plot, there is a "Download figure" button and a "Workspace" section at the bottom.

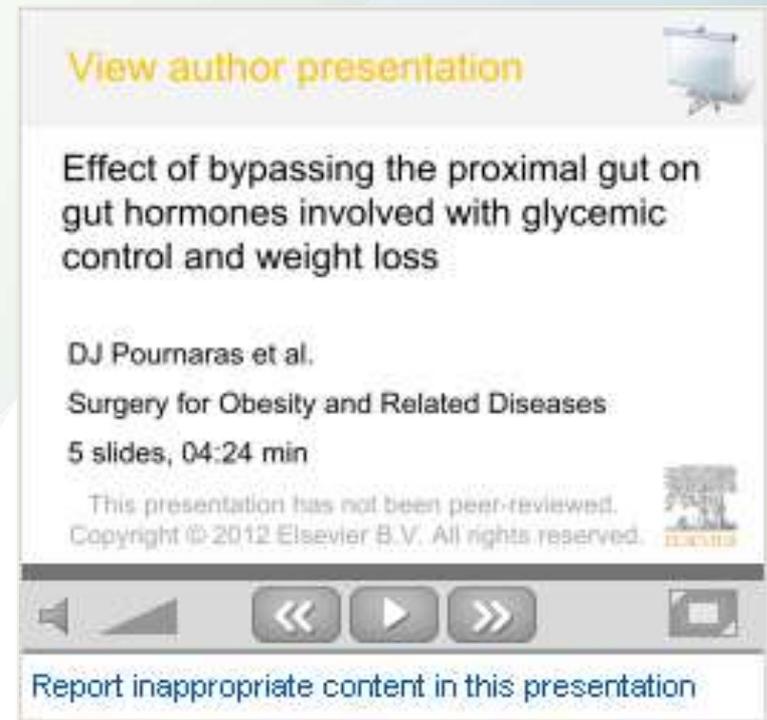
- Explore figures interactively – zoom, rotate, etc.
- Download underlying data for validation & re-use
- Works with MATLAB .FIG files

See <http://www.elsevier.com/matlab>

AudioSlides

Authors explain their paper in their own words

- 5-minute, webcast-style presentations by the author
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- Online authoring tool developed by Elsevier



The screenshot shows a presentation player interface. At the top, it says "View author presentation" in yellow text next to a small whiteboard icon. The main content area displays the title "Effect of bypassing the proximal gut on gut hormones involved with glycemc control and weight loss" in black text. Below the title, it lists the author "DJ Pourmaras et al.", the journal "Surgery for Obesity and Related Diseases", and the duration "5 slides, 04:24 min". A disclaimer at the bottom of the content area states "This presentation has not been peer-reviewed. Copyright © 2012 Elsevier B.V. All rights reserved." next to the Elsevier logo. At the bottom of the player, there is a control bar with a speaker icon, a volume slider, and navigation buttons (back, play, forward). Below the control bar, there is a link that says "Report inappropriate content in this presentation".

See <http://www.elsevier.com/audioslides>

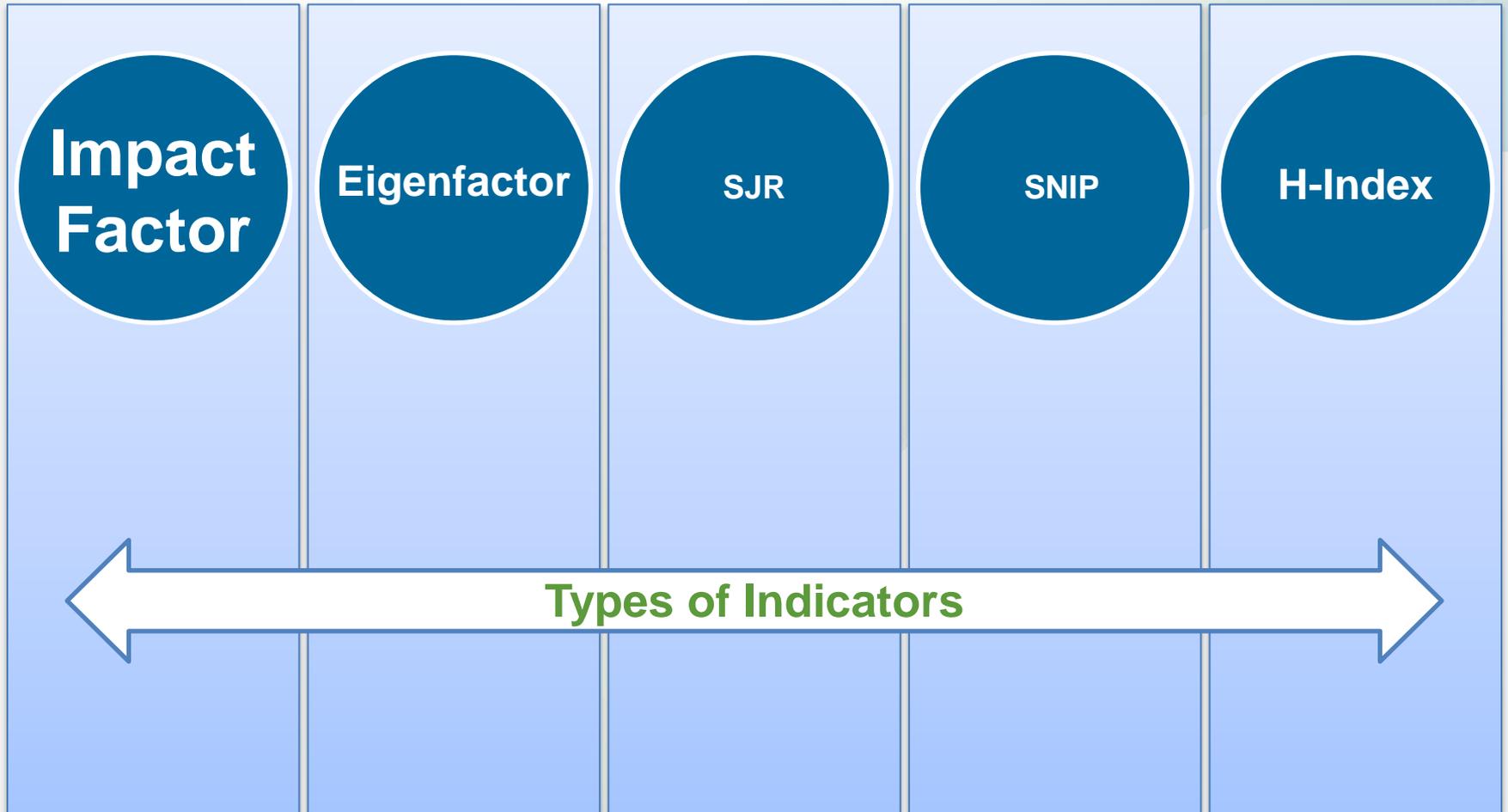


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Bibliometrics

Impact Factors and more



THE CHRONICLE OF HIGHER EDUCATION

October 14, 2005

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

Impact Factor Press Coverage

THE WALL STREET JOURNAL.

Science Journals Artfully Try To Boost Their Rankings

June 5, 2006

By SHARON BEGLEY

Journal of Documentation

Vol. 64, Iss. 2 (2008)

Is the impact of journal impact factors decreasing?

Jan Reedijk

Leiden Institute of Chemistry, Leiden University, Leiden, The Netherlands, and

Henk F. Moed

*Centre for Science and Technology Studies (CWTS), Leiden University,
Leiden, The Netherlands*



**Impact
Factor**

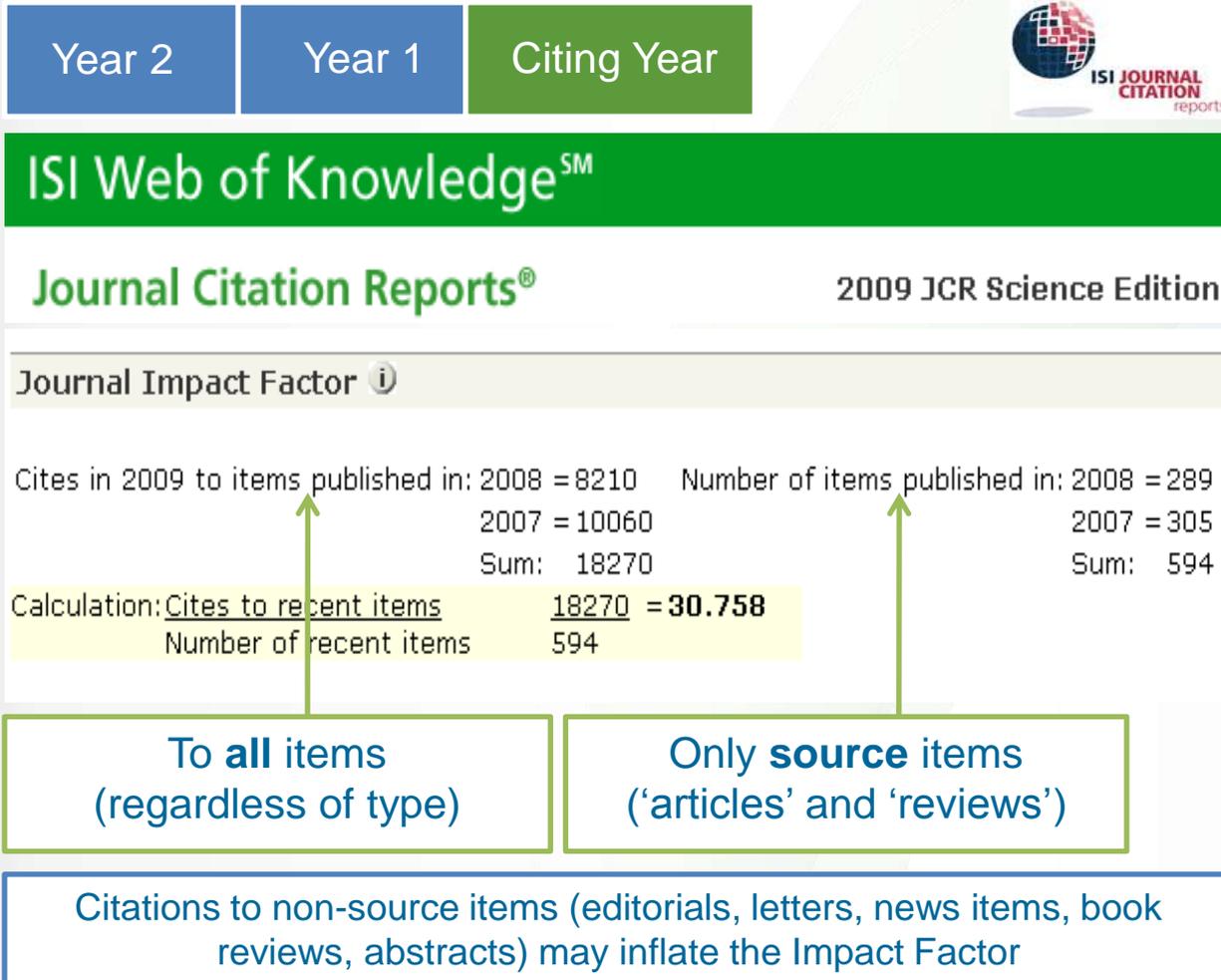
Bibliometrics Trends

Impact Factor and more

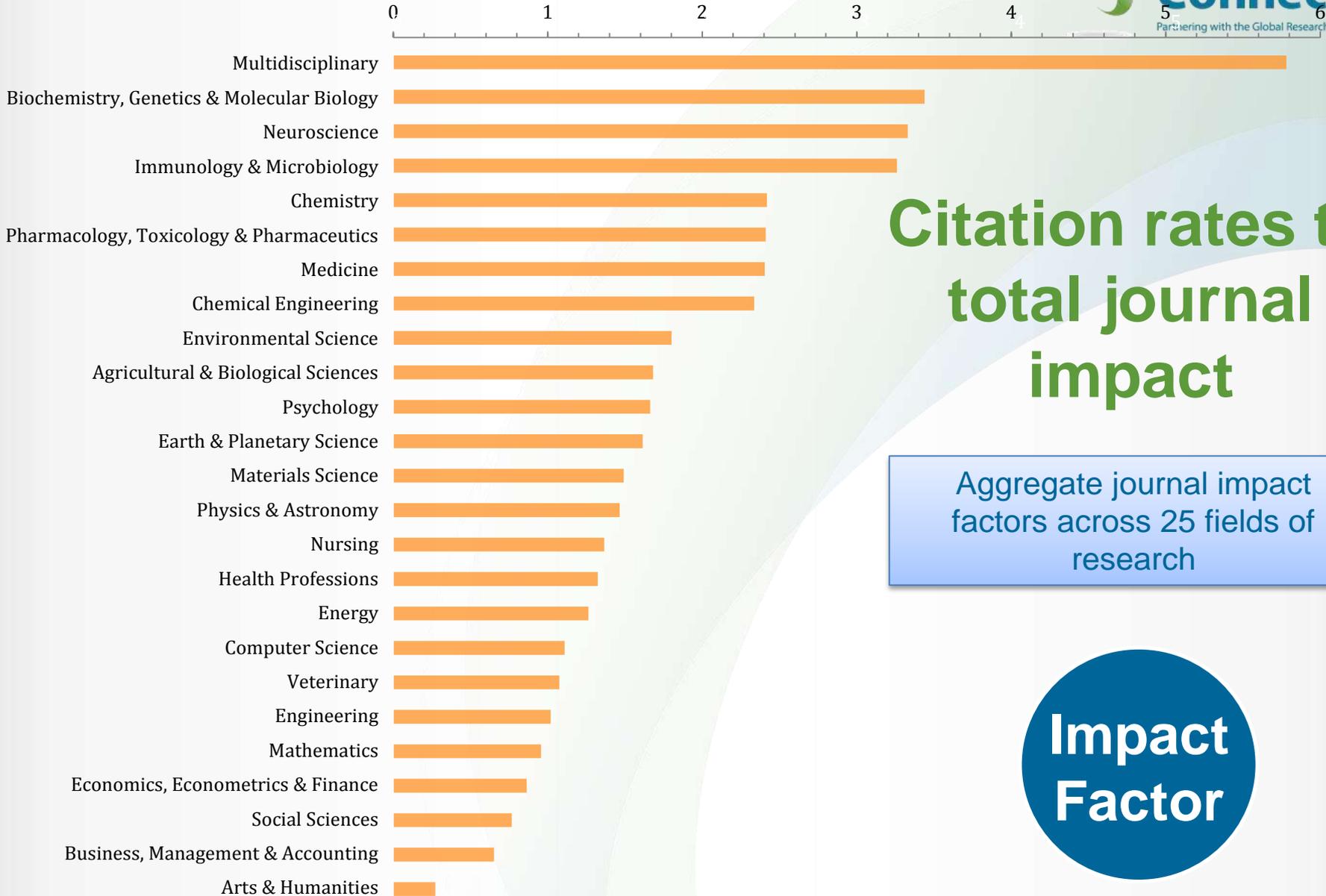
- Increasing importance of bibliometrics, e.g. impact factor, H-index, eigen factor
- Impact Factor perceived as most important
- Dedicated department for bibliometrics in publishing to advise publishers and editors on strategy to ensure highest impact factor

→ How important is this for NASA?

Ratio between citations and citable items published in a journal



Impact Factor



Citation rates to total journal impact

Aggregate journal impact factors across 25 fields of research



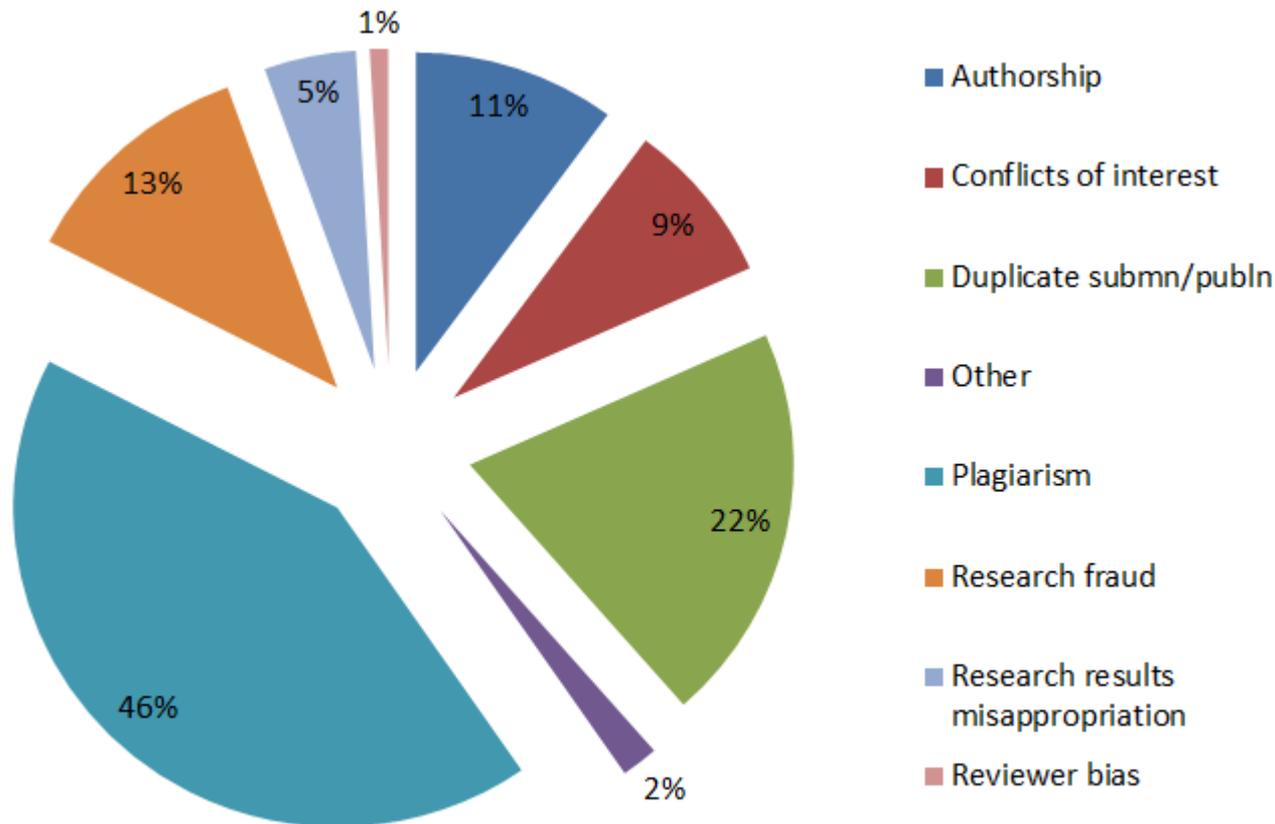


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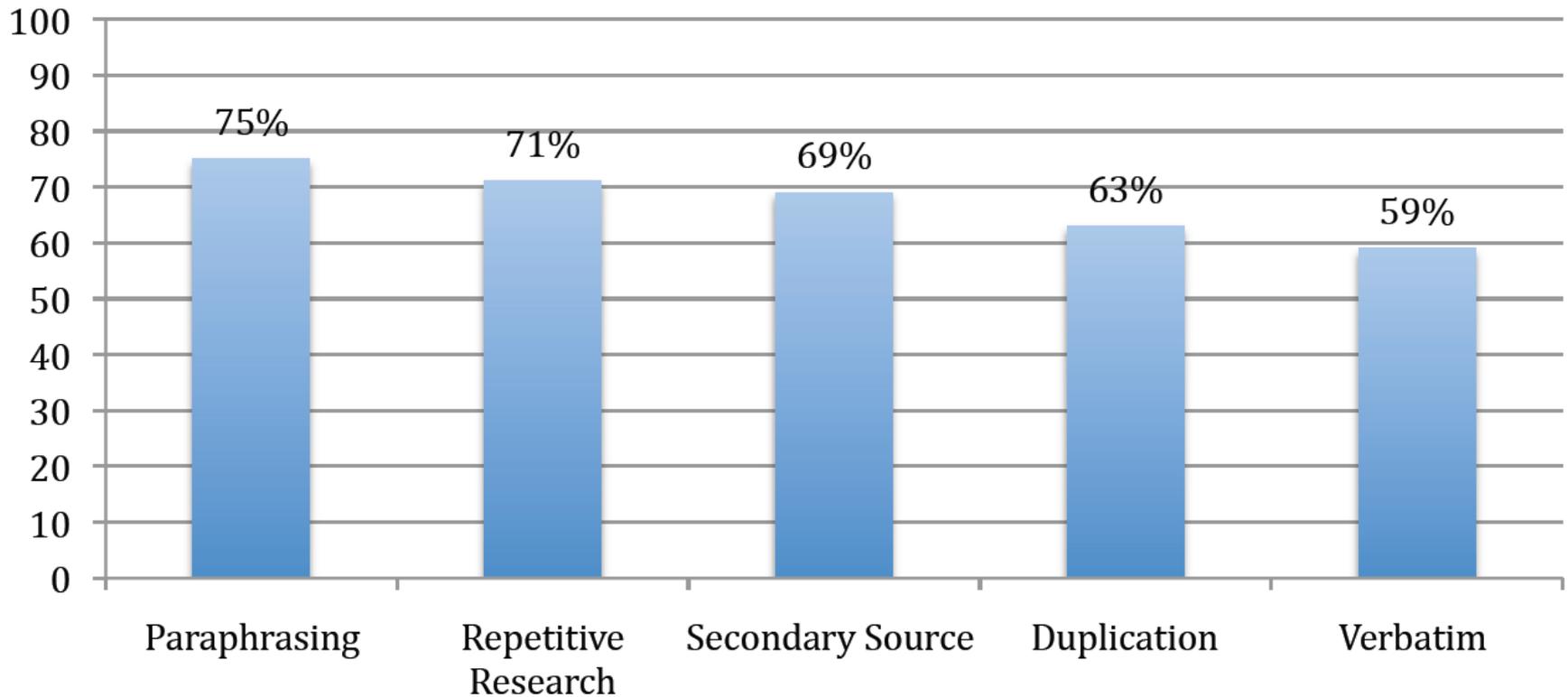
Ethics Developments and Innovation

Plagiarism high amongst ethics issues



Sample of cases reported to Elsevier Journals publishing staff in 2012

Most Common Forms of Plagiarism and Attribution Issues in Research



Peer Review Evolutions

Ethical issues

- Increase in ethical issues with increase submissions
- COPE
- Cross Check
- Educations – e.g. Author workshops



COPE

- Committee on Publication Ethics (COPE)
- Independent body that provides Codes of Conduct & training
- Many large Publishers are members of COPE
- Website with searchable database of sample cases back to 1997
publicationethics.org
- COPE arbitrates where a complainant is still unsatisfied after contacting Editor & publishing company



CrossCheck

Consists of database of published content and plagiarism-detecting software from Iparadigms

- Huge database: 31 million+ articles from 175,000+ journals and books from 240 publishers
- Software shows any similarities between the article and previously published articles, incl. a “similarity rating”





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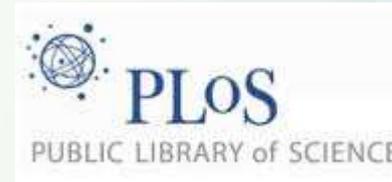
Partnering with the Global Research Community

Open Access

Open Access

An overview

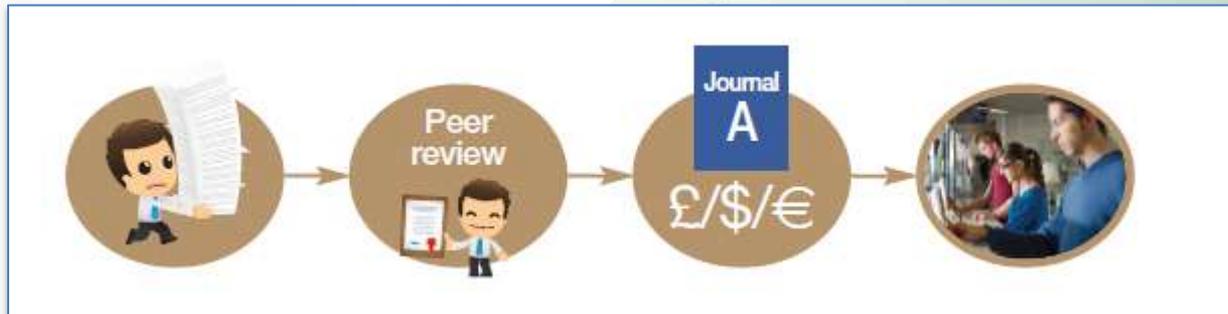
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