



*The 'publish or perish'-pressure - beneficial
to academic research?*

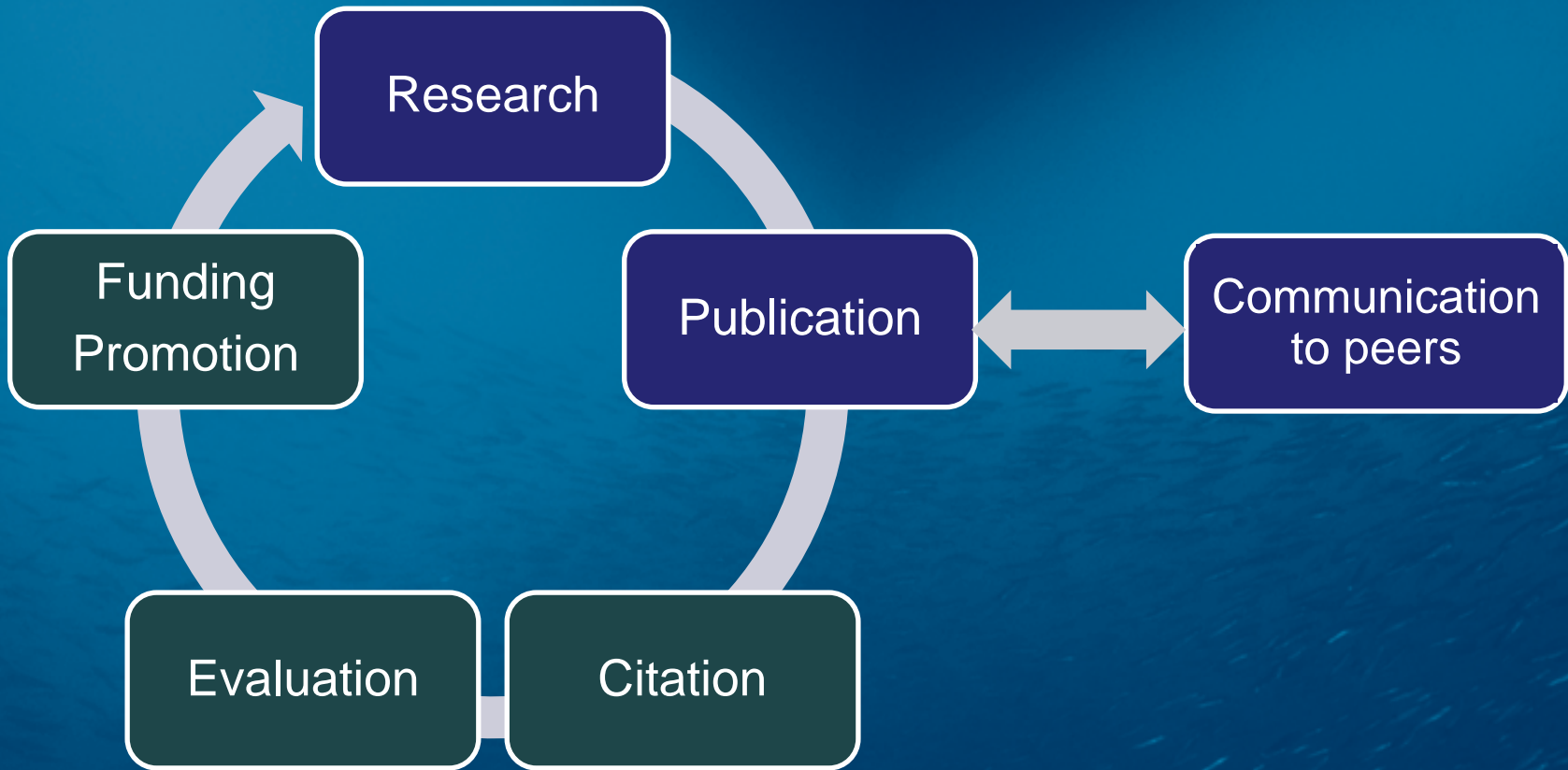
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INSTITUTE OF MARINE RESEARCH
HAVFORSKNINGSINSTITUTTET

Research, communication, evaluation



Publish or perish – beneficial to academic research?

2 universities



ELSEVIER

Research Policy 32 (2003) 143–155

research
policy

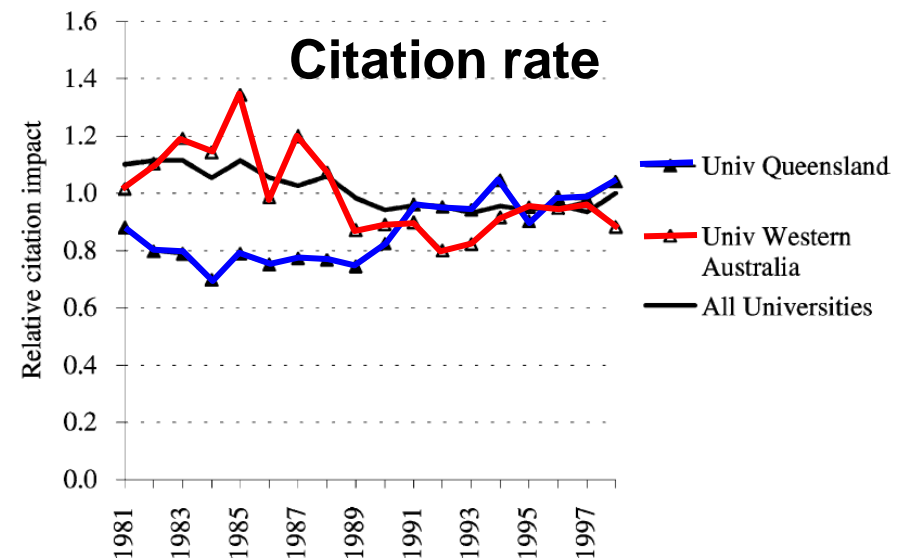
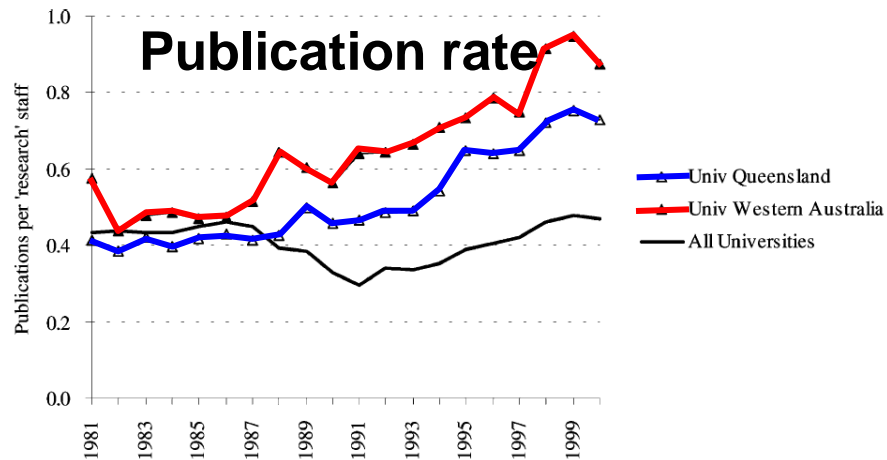
www.elsevier.com/locate/econbase

Explaining Australia's increased share of ISI publications—the effects of a funding formula based on publication counts

Linda Butler

Research Evaluation and Policy Project (REPP), Research School of Social Sciences,
Australian National University, Canberra, ACT 0200, Australia

Received 20 August 2001; received in revised form 7 November 2001; accepted 15 January 2002

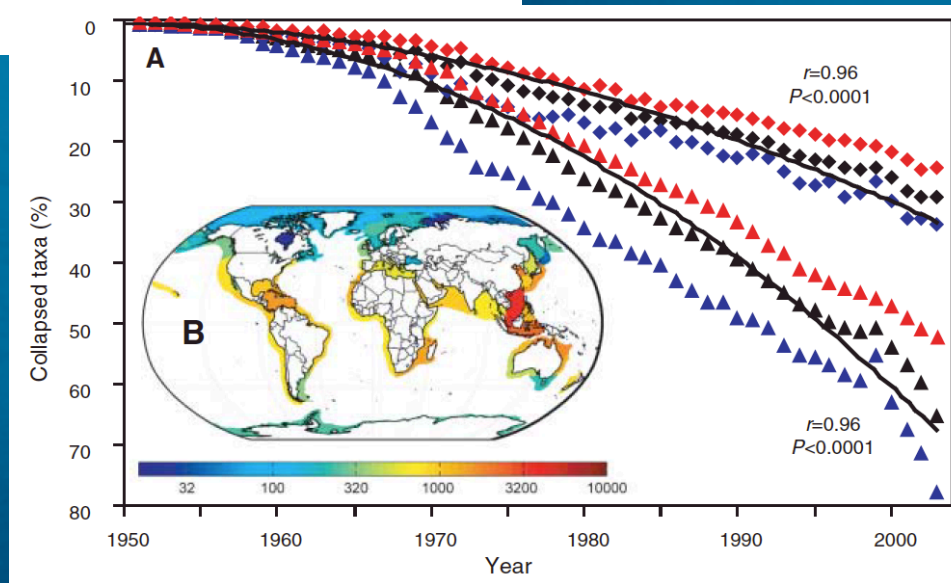


Publish or perish – beneficial to academic research?

Fish will disappear by 2048!

Impacts of Biodiversity Loss on Ocean Ecosystem Services

Boris Worm,^{1*} Edward B. Barbier,² Nicola Beaumont,³ J. Emmett Duffy,⁴ Carl Folke,^{5,6} Benjamin S. Halpern,⁷ Jeremy B. C. Jackson,^{8,9} Heike K. Lotze,¹ Fiorenza Micheli,¹⁰ Stephen R. Palumbi,¹⁰ Enric Sala,⁸ Kimberley A. Selkoe,⁷ John J. Stachowicz,¹¹ Reg Watson¹²



(Fig. 3A). This

trend is of serious concern because it projects the global collapse of all taxa currently fished by the mid-21st century (based on the extrapolation of



Publish or perish – beneficial to academic research?

More equations = less citations

COMMUNITY
CHOICE

*The most viewed
papers in science*

ECOLOGY

Equations in papers = fewer citations

★ HIGHLY READ
on www.pnas.org
in July

Biologists have a reputation for avoiding mathematics, and a study of citation rates shows that this is not misplaced.

Tim Fawcett and Andrew Higginson at the University of Bristol, UK, examined whether the inclusion of equations affected the citation rates of papers published in 1998 in three leading ecology and evolution journals. The authors found that papers received 28% fewer citations overall for each additional equation per page of the main text; for citations in experimental papers, this rose to 35%.

The duo recommends that researchers use equations sparingly in their main article text to ensure that their ideas reach a wide audience.

Proc. Natl Acad. Sci. USA 109, 11735–11739 (2012)

After Fawcett and Higginson 2012- PNAS

Publish or perish – beneficial to academic research?



Institutional response

- IMR publishing strategy 2012
- Key recommendations:
 - Increase average number of publications/staff/year
 - Publish more in peer-reviewed journals
- 20 specific recommendations
 - Zero on research quality



Become author and editor

Subject: Call for Papers: Special Issue "Marine Biodiversity" - Diversity (ISSN 1424-2818)

Date: Thursday, October 11, 2012 11:07:44 AM Norway Time

From: This Special Issue will be **fully open access**. Open access (unlimited and free access by readers) increases publicity and promotes more frequent citations as indicated by several studies. Open access is supported by

Dear Dr.

The follow

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Subject: Reminder: Call for Papers: Special Issue "Marine Biodiversity" - Diversity (ISSN 1424-2818)

Date: Monday, October 22, 2012 11:36:43 AM Norway Time

From: gruetter@mdpi.com

To: **Subject:** Call for Papers: Special Issue "Bioactive Compounds from Marine Plankton" - Marine Drugs (ISSN 1660-3397)

Dear Dr.

Date: Tuesday, October 30, 2012 2:49:37 PM Norway Time

We conta **From:** gruetter@mdpi.com

"Marine **To:** Planque Benjamin

<http://w>

Dear Dr. Planque,

The following Special Issue will be published in Marine Drugs (ISSN 1660-3397, <http://www.mdpi.com/journal/marinedrugs/>), and is now open to receive submissions of full research papers and comprehensive review articles for peer-review and possible publication.



Publish or perish – beneficial to academic research?

PhD students

- Pressure to publish is highest
- Capacity to resist is lowest
- ‘Publish or perish’ is mentally integrated
- PhD objectives:
 - Primary: publish three papers
 - Secondary: learn how to conduct research



Summary

- Publication & citation rates are used for the assessment and management of research
- Researchers and students adapt to publication and citation incentives,
- Institutes also adapt to publication and citation incentives,
- Publishers adapt to this new situation
- None of these adaptations have a focus on research quality



Who am I going to be?

- Marine biologist (zooplankton and fish)
- Climate and fishing effects on marine populations
- Numerical ecology
- Spatial ecology
- Food-web modeling
- Fish stock Assessments

Results found:	41
Sum of the Times Cited [?]:	1942
Sum of Times Cited without self-citations [?]:	1891
Citing Articles [?]:	1394
Citing Articles without self-citations [?]:	1370
Average Citations per Item [?]:	47.37
h-index [?]:	21



Thank you





Publish or perish – beneficial to academic research?

High Impact High Fraud

TOP TEN RETRACTORS

Journals with the most retractions attributable to fraud or suspected fraud, as recorded in PubMed.

Journal	Number of articles	2011 impact factor
<i>The Journal of Biological Chemistry</i>	37	5.12
<i>Anesthesia & Analgesia</i>	33	3.07
<i>Science</i>	32	32.45
<i>The Journal of Immunology</i>	30	5.86
<i>Proceedings of the National Academy of Sciences</i>	27	10.47
<i>Blood</i>	21	9.79
<i>Nature</i>	19	36.24
<i>The Journal of Clinical Investigation</i>	17	15.43
<i>Cancer Research</i>	16	8.16
<i>Cell</i>	13	34.77

PUBLISHING

Misconduct is the main cause of life-sciences retractions

Opaque announcements in journals can hide fraud, study finds.

BAD COPY

Most retracted papers listed in PubMed were withdrawn owing to fraud or suspected fraud.

Fraud/suspected fraud **43.4%** Duplication **14.2%** Other **11.3%**

TOTAL RETRACTED ARTICLES: 2,047

Error **21.3%** Plagiarism **9.8%**

After Fang et al. 2012 - PNAS



Publish or perish – beneficial to academic research?

Wednesday, October 17, 2012 9:56:24 AM Norway Time

Subject: Call for Papers

Date: Tuesday, October 16, 2012 3:10:24 PM Norway Time

From: Editor, Aquatic Science and Technology

To: Planque Benjamin

Dear BENJAMIN PLANQUE,

I have had an opportunity to read your paper "Understanding what controls the spatial distribution of fish populations using a multi-model approach" published in "Fisheries Oceanography" and can tell from your work that you are an expert in this field.

I am Jiao Liu, editor of Aquatic Science and Technology (ISSN 2168-9148). Aquatic Science and Technology is a new journal published by Macrothink Institute in **open access model**.

Author Fees

This journal charges the following author fees.

Article Publication Fee- Aquatic Science and Technology: 100.00 (USD)



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