

EVENTOS

International Open Access Week

2023



Pandelis Perakakis

Universidad Complutense de Madrid

INNOVACIÓN EN PRÁCTICAS DE REVISIÓN POR PARES

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La Comunidad frente a la comercialización

Innovación en prácticas de revisión por pares

Pandelis Perakakis

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24 de octubre, 2023

<https://pandelisperakakis.info>

<https://openscholar.info>

International
OpenAccess**Week**

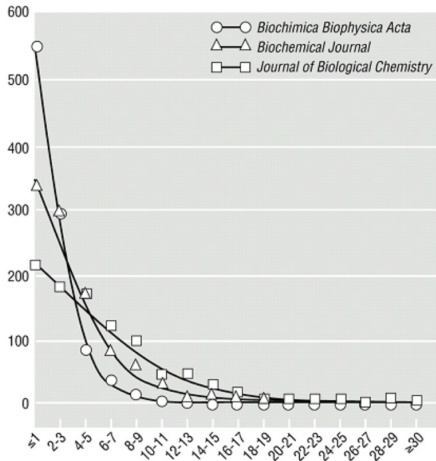
#OAWEEK

23-29 octubre 2023

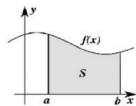
NO. 4817 February 24, 1962 NATURE

709

PUBLISH OR PERISH



Taylor M., Perakakis P., Trachana V. (2008). [The Siege of Science. Ethics in Science and Environmental Politics](#). 8(1), pp. 17–40.





The peer review drugs don't work

A process at the heart of science is based on faith rather than evidence, says Richard Smith, and vested interests keep it in place

Peer review is supposed to be the quality assurance system for science, weeding out the scientifically unreliable and reassuring readers of journals that they can trust what they are reading. In reality, however, it is ineffective, largely a lottery, anti-innovatory, slow, expensive, wasteful of scientific time, inefficient, easily abused, prone to bias, unable to detect fraud and irrelevant.

Perhaps the biggest argument against the peer review of completed studies is that it simply isn't needed. With the World Wide Web everything can be published, and the world can decide what's important and what isn't. This proposition strikes terror into many hearts, but with so much poor-quality science published what do we have to lose?

Richard Smith, former *British Medical Journal* editor

May 28, 2015

Effects of Editorial Peer Review

A Systematic Review

Tom Jefferson, MD

Philip Alderson, MBChB

Elizabeth Wager, MA

Frank Davidoff, MD

Conclusions Editorial peer review, although widely used, is largely untested and its effects are uncertain.

JAMA. 2002;287:2784-2786

www.jama.com



Cochrane

Trusted evidence.
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Editorial peer review for improving the quality of reports of biomedical studies

Published:

18 April 2007

Authors:

Jefferson T, Rudin M, Brodney

Folse S, Davidoff F

Authors' conclusions:

At present, little empirical evidence is available to support the use of editorial peer review as a mechanism to ensure quality of biomedical research.

News Feature

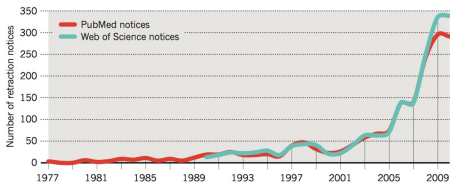
Science publishing: The trouble with retractions

A surge in withdrawn papers is highlighting weaknesses in the system for handling them.

Richard Van Noorden

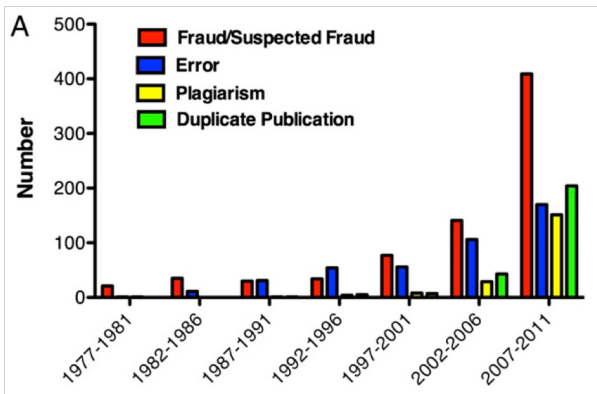
RISE OF THE RETRACTIONS

In the past decade, the number of retraction notices has shot up 10-fold (**top**), even as the literature has expanded by only 44%. It is likely that only about half of all retractions are for researcher misconduct (**middle**). Higher-impact journals have logged more retraction notices over the past decade, but much of the increase during 2006–10 came from lower-impact journals (**bottom**).



Misconduct accounts for the majority of retracted scientific publications

Ferric C. Fang^{a,b,1}, R. Grant Steen^{c,1}, and Arturo Casadevall^{d,1,2}



processes

Validation

Evaluation

Dissemination

ideal

many expert reviewers
no conflicts of interest
argumentation

many expert reviewers
no conflicts of interest
argumentation

preservation
licencing
visibility

Current

2-3 anonymous reviewers
disclosed reviews

citation metrics (IF)
journal prestige
altmetrics

private servers
restrictive licenses
APCs or subscriptions

processes

Validation

Evaluation

Dissemination

ideal

many expert reviewers
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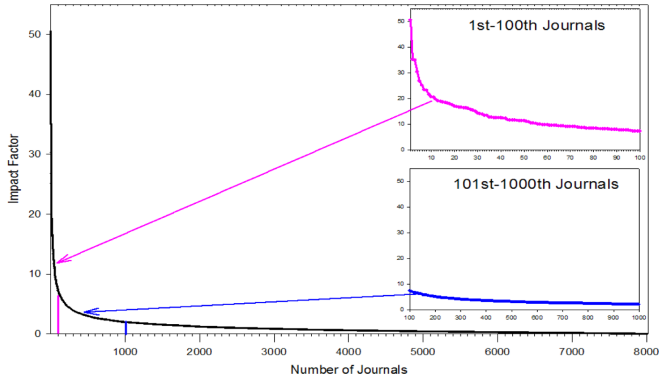
Journal dependent

2-3 anonymous reviewers
disclosed reviews

citation metrics (IF)
journal prestige
altmetrics

private servers
restrictive licenses
APCs or subscriptions

Journal Impact Factors (1974-2001): 8011 ISI Journals

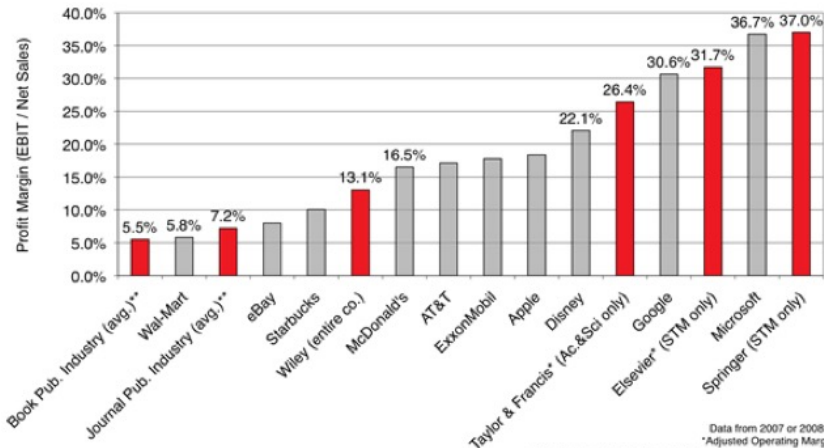


Taylor M., Perakakis P., Trachana V. (2008). [The Siege of Science. Ethics in Science and Environmental Politics](#). 8(1), pp. 17–40.

“Una oleada de **adquisiciones** en el negocio editorial ha creado **empresas gigantescas** con el poder de extraer de las bibliotecas universitarias **precios cada vez más altos** por las revistas.”

Taylor M., Perakakis P., Trachana V. (2008). [The Siege of Science. Ethics in Science and Environmental Politics](#). 8(1), pp. 17–40.

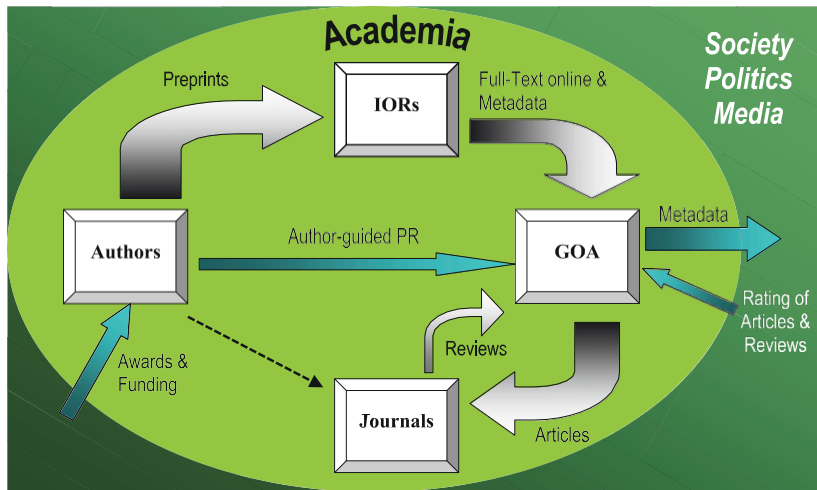
Profit Margins: Journal Publishers v. Other Companies



Data from 2007 or 2008.
*Adjusted Operating Margin

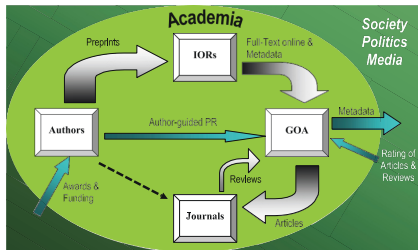
Data Source: MIT Libraries **RMA Annual Statement Studies, 2007

NSAP (2010): A disruptive proposal



Perakakis, P., Taylor, M., & Trachana, V. (2010). [Natural Selection of Academic Papers](#). *Scientometrics*, 85(2), 553–559.

NSAP (2010): Una propuesta disruptiva



- ✓ Preprints
- ✓ Green OA
- ✓ Open Peer Review (Reports, Identities, Participation)
- ✓ Community Governance
- ✓ Sustainable

Open Scholar (2012)



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The Academia that Science Deserves

Anonymous reviewers.

Paywalls.

Publish or perish.

Journal metrics.

Subscription fees.

Publication costs.

...

We can, and must do better...



<https://www.openscholar.info>

LIBRE (2012)

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- ✓ Open Peer Review (Reports, Identities, Participation)
- ✓ Community Governance
- ✓ Reputation metrics
- ✓ Sustainable

The screenshot displays the LIBRE website interface. At the top, there is a navigation bar with tabs for BIBLIOGRAPHIES, RESEARCH STORIES, KNOWLEDGE, AUTHORS, and LOGIN. Below this is the LIBRE logo and a search bar. A user profile header for Pandelis Perakakis is visible, including a welcome message and navigation links for HOME PAGE, MY PROFILE, and NOTIFICATIONS. The main content area is titled 'Document Profile' and features a 'Document Profile' tab, 'ARTICLES' tab, 'BIBLIOGRAPHIES' tab, 'REVIEWS' tab, and 'METRICS' tab. The 'ARTICLES' section is divided into 'UNPUBLISHED' and 'PUBLISHED' categories. Under 'UNPUBLISHED', there are two articles: 'Measuring internationality: Reflections and perspectives on academic journals' (2 reviews) and 'Cardiac defense: From attention to action' (0 reviews). Under 'PUBLISHED', there is one article: 'The sage of science' (5 reviews). To the right of the articles, there is a 'YOUR DATA' section for Pandelis Perakakis, showing his affiliation with the University of Granada and his scientific areas. Below this is a 'FOLLOWING YOU:' section with user avatars for Michael Taylor, Ioanna Xenakis, Athanasios Georgopoulos, and Antonis Ntzis. A 'FAVOURITE ARTICLES:' section lists three articles. At the bottom right, there is a 'KNOWLEDGE DOMAINS:' section with a list of domains: PSYCHOLOGY (2322 Articles & 234 Authors), PHYSICS (123 Articles & 234 Authors), PHYSIOLOGY (123 Articles & 234 Authors), and STATISTICS (123 Articles & 234 Authors). The footer contains links for About LIBRE, Privacy Policy, Security Policy, Terms of Use Policy, Copyright: LIBRE 2012, Open Peer Review, Open Bibliographies, Open Classification system, Open Metrics, and Research Stories, along with contact details for the organization.

https://youtu.be/25ji9-52k7c?si=eZxq1U_HeNVsckSl

Open Peer Review Module (2015)

Open Peer Review Module

Open Scholar coordinated a consortium of five partners to develop an open source module that can be installed on institutional repositories to enable overlay open peer review.



OUR PROJECT PARTNERS



<https://www.openscholar.org.uk/open-peer-review-module-for-repositories/>

Next Generation Repositories (2015)



November 28, 2017

Other Open Access

Next Generation Repositories: Behaviours and Technical Recommendations of the COAR Next Generation Repositories Working Group

Rodrigues, Eloy; Bollini, Andrea; Cabezas, Alberto; Castelli, Donatella; Carr, Les; Chan, Leslie; Humphrey, Chuck; Johnson, Rick; Knoth, Petr; Manghi, Paolo; Matizirofa, Lazarus; Perakakis, Pandelis; Schirrwagen, Jochen; Selematsela, Daisy; Shearer, Kathleen; Walk, Paul; Wilcox, David; Yamaji, Kazu

Our vision is to position **repositories** as the **foundation** for a **distributed, globally networked infrastructure for scholarly communication**, on top of which layers of value added services will be deployed, thereby transforming the system, making it more research-centric, open to and supportive of innovation, while also **collectively managed by the scholarly community**.

<https://doi.org/10.5281/zenodo.1215014>

COAR: Notify project (2020)

Notify: Repository and Services Interoperability Project



COAR Confederation of
Open Access Repositories



DIGITAL.CSIC
CIENCIA EN ABIERTO

 **HARVARD**
LIBRARY



HAL
archives-ouvertes.fr

PCI
peercommunityin.org


<https://www.coar-repositories.org/notify/>

2022: Psicológica Journal

Journal of the Spanish Society for Experimental Psychology

PSICOLÓGICA Journal

ARTICLES About For Authors For Reviewers Submit Manuscript



Evidence that numerical estimates of subjective ratios may be numerical ratings of subjective differences

The hypothesis that people can make non-learned numerical estimates of ratios [...]

By Sergio Castejo-Ibañeta | 01/08/2022 | 2019-2022, IVA 45(1), IVA45(2)(2)(2)

Read more >

Effects of Divided Attention and Cued Recall Test on True and Illusory Memories in the DRM Paradigm

In this study, we were interested in examining how the reduction of attentional resources during the encoding of word lists and the type of recall test affected true and false memories in the Deese-Roediger-McDermott paradigm (DRM paradigms). Three DRM lists were presented visually under full attention conditions or while participants had to monitor a concurrent auditory task of letters and digits. After the presentation of each list, participants completed a [...]

By Esther Fontán-Castellanos, Andrea Martínez, Juan Lora-Félix | 28/07/2021 | 2019-2022, IVA 45(1), IVA 45(2)(2)(2)

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English español

Psicológica Journal : [7]



The journal Psicológica was born in 1982 as the flagship journal of the Spanish Society for Experimental Psychology to support the publication of high quality articles spanning the entire spectrum of Experimental Psychology. Since 1996, Psicológica has been an electronically open access journal.

Starting from 2022, all journal contents, including articles, peer reviews, data, and software code will be published exclusively at DSpace, CSIC, the institutional open access repository of the Spanish National Research Council, at no cost for authors or readers.

The journal is financially supported by the Spanish Society for Experimental Psychology and the University of Valencia in Spain. The implementation of the journal's innovative publication and peer review model is supported by the organization Open Scholar and the OPMW software.

psicologicajournal.com

Discover

Author

- Arciniegas, Carlos
- Alcalá, José A.
- Alonso Martínez, José M.
- Calvo Aguilera, José E.
- Castillo-Pérez, Gabriela
- Compañón, Montserrat
- Díez, Margarita
- Fraga, Isabel
- García, Yolanda
- Gálvez, María
- next >

Keywords

- Activation monitoring account
- Attention
- Automated facial expression analysis
- Basic emotions
- Cued recall test
- Divided attention
- DRM paradigm
- Dual-hits model
- Emotion
- Expression performance
- next >

Date issued

- 2022

Issue

Issue Date Author Title Keywords Submit Date

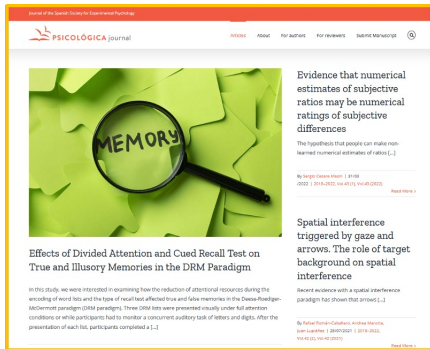
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Rights	Preview	Issue Date	Title	Author(s)	Type
		2022	The Role of the Physical Environment and Size of Objects in Length Estimation	Gálvez, María; Vercoschi, Lavin; Loreo, Raquel	documento de trabajo
		2022	Experiencing Extinction Facilitates Independent Acquisition of Positive, but not Negative Preferring in Human Predictive Learning	Alcalá, José A.; Gómez, Mónica; Cigales, Pedro A.; Calvo Aguilera, José E.; Rivas, Juan M.	documento de trabajo
		2022	Analyzing facial expressions of basic emotions with FaceReader: An experimental study	Schwarz, Konstantin; Vekic, Jelena; Sany, Aneta-Dana; Páez, Olga; Gómez, José-Antoni; Montoya-García, Rosalinda	documento de trabajo
		2022	Effects of Divided Attention and Cued Recall Test on True and Illusory Memories in the DRM Paradigm	Pérez-Mate, Mónica; Cigales, Virginia; Páez, Olga	artículo

<https://digital.csic.es/handle/10261/228593>

2022: Psicológica Journal



<https://psicologicajournal.com>

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- ✓ Reputation metrics
- ✓ Sustainable

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CORRESPONDENCE | 25 July 2023

No-pay publishing: use institutional repositories

[Isabel Bernal](#) & [Pandelis Perakakis](#) 

Nature 619, 698 (2023)

<https://doi.org/10.1038/d41586-023-02315-z>

ROYAL SOCIETY OPEN SCIENCE

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Perspective

Replacing academic journals

Björn Brembs , Philippe Huneman, Felix Schönbrodt, Gustav Nilsson, Toma Susi, Renke Siems, Pandelis Perakakis, Varvara Trachana, Lai Ma and Sara Rodriguez-Cuadrado

Published: 19 July 2023 | <https://doi.org/10.1098/rsos.230206>

“...replace traditional journals with a **decentralized, resilient, evolvable network** that is interconnected by **open standards** and **open-source** norms under the **governance of the scholarly community.**”

Brembs, B., Huneman, P., Schönbrodt, F., Nilsson, G., Susi, T., Siems, R., Perakakis, P., Trachana, V., Ma, L., & Rodriguez-Cuadrado, S. (2023). [Replacing academic journals](https://doi.org/10.1098/rsos.230206). Royal Society Open Science, 10(7), 230206.

¿Qué son las prácticas de ciencia abierta?

- Acceso abierto a los resultados de las investigaciones, como publicaciones, datos, programas informáticos, modelos, algoritmos y flujos de trabajo.
- Puesta en común abierta y en fase temprana de las investigaciones, por ejemplo a través del registro previo, los informes registrados, las prepublicaciones y la búsqueda participativa de soluciones a problemas específicos.
- Utilización de infraestructuras abiertas de investigación para la puesta en común de conocimientos y datos.
- Participación en revisiones por pares abiertas.
- Medidas para garantizar la reproducibilidad de los resultados.
- Colaboración abierta en el ámbito de la ciencia y con otros agentes del conocimiento, especialmente participación de los ciudadanos, la sociedad civil y los usuarios finales, por ejemplo en la ciencia ciudadana.



Liga de Universidades europeas de investigación (LERU)



Identificar cómo la Ciencia Abierta podría ayudar a detener comportamientos poco éticos en áreas como la **autoría fantasma**, la **omisión de autores** en los resultados de la investigación a pesar de sus importantes contribuciones, los comportamientos **poco éticos en la revisión por pares**, el plagio y el robo de ideas.



14 Contributor Roles

Conceptualization

Data curation

Formal Analysis

Funding acquisition

Investigation

Methodology

Project administration

Resources

Software

Supervision

Validation

Visualization

Writing – original draft

Writing – review &
editing



Contributor Roles Taxonomy

“Los roles no pretenden definir lo que constituye la autoría, sino captar todo el trabajo que permite producir publicaciones académicas.”

<https://credit.niso.org/>

CRediT

- **List all Contributions** – All contributions should be listed, whether from those listed as authors or individuals named in acknowledgements;
- **Multiple Roles Possible** – Individual contributors can be assigned multiple roles, and a given role can be assigned to multiple contributors;
- **Degree of Contribution Optional** – Where multiple individuals serve in the same role, the degree of contribution can optionally be specified as ‘lead’, ‘equal’, or ‘supporting’;
- **Shared Responsibility** – Corresponding authors should assume responsibility for role assignment, and all contributors should be given the opportunity to review and confirm assigned roles;
- **Make CRediT Machine Readable** – CRediT tagged contributions should be coded in JATS xml v1.2

Estrategia Nacional de Ciencia Abierta (ENCA)



Revisión por pares **abierta**: aportar mayor **rigor científico** a las revisiones y garantizar la **transparencia** y la rendición de cuentas de las partes involucradas.

UNESCO



Promoting, as appropriate, open peer review evaluation practices including possible disclosure of the **identity** of the reviewers, **publicly available reviews** and the possibility for a **broader community** to provide comments and participate in the assessment process.

Peer Community in

PCI, a free recommendation process of scientific preprints based on peer reviews and a journal



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Provide your revisions (optional)

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La Comunidad frente a la comercialización

- Priorizar los intereses de la Ciencia y la Sociedad
- Colaboración entre bibliotecas/repositorios e investigadores más allá de los acuerdos transformativos, cursos de Scopus, republicación de VORs (conversación, colaboración, pedagogía)
- Innovación en revisión por pares más allá de “cómo ser un buen revisor”
- Participación en coaliciones con una visión de futuro alineada con los intereses de la Ciencia y la Sociedad (p.ej. COAR, Open Scholar...)