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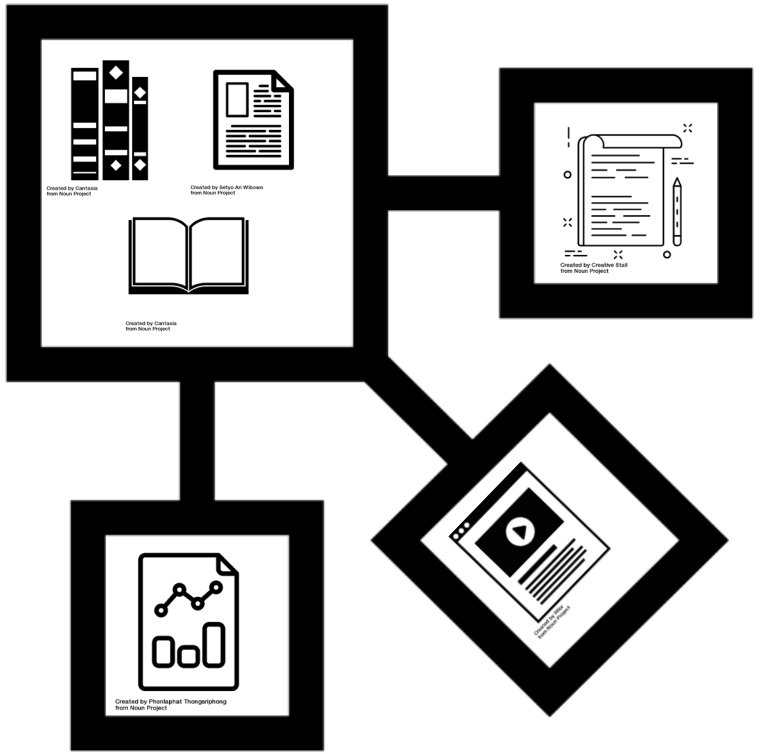

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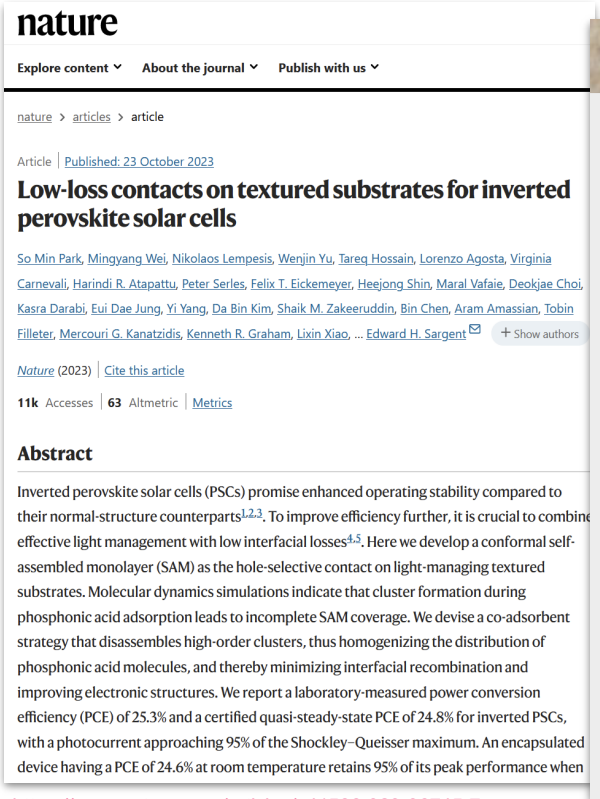

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Article | Published: 23 October 2023

Low-loss contacts on textured substrates for inverted perovskite solar cells

So Min Park, Mingyang Wei, Nikolaos Lempesis, Wenjin Yu, Tareq Hossain, Lorenzo Agosta, Virginia Carnevali, Harindi R. Atapattu, Peter Serles, Felix T. Eickemeyer, Heejong Shin, Maral Vafaie, Deokjae Choi, Kasra Darabi, Eui Dae Jung, Yi Yang, Da Bin Kim, Shaik M. Zakeeruddin, Bin Chen, Aram Amassian, Tobin Filleter, Mercouri G. Kanatzidis, Kenneth R. Graham, Lixin Xiao, ... Edward H. Sargent + Show authors

Nature (2023) | Cite this article

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Abstract

Inverted perovskite solar cells (PSCs) promise enhanced operating stability compared to their normal-structure counterparts[1,2,3]. To improve efficiency further, it is crucial to combine effective light management with low interfacial losses[4,5]. Here we develop a conformal self-assembled monolayer (SAM) as the hole-selective contact on light-managing textured substrates. Molecular dynamics simulations indicate that cluster formation during phosphonic acid adsorption leads to incomplete SAM coverage. We devise a co-adsorbent strategy that disassembles high-order clusters, thus homogenizing the distribution of phosphonic acid molecules, and thereby minimizing interfacial recombination and improving electronic structures. We report a laboratory-measured power conversion efficiency (PCE) of 25.3% and a certified quasi-steady-state PCE of 24.8% for inverted PSCs, with a photocurrent approaching 95% of the Shockley–Queisser maximum. An encapsulated device having a PCE of 24.6% at room temperature retains 95% of its peak performance when

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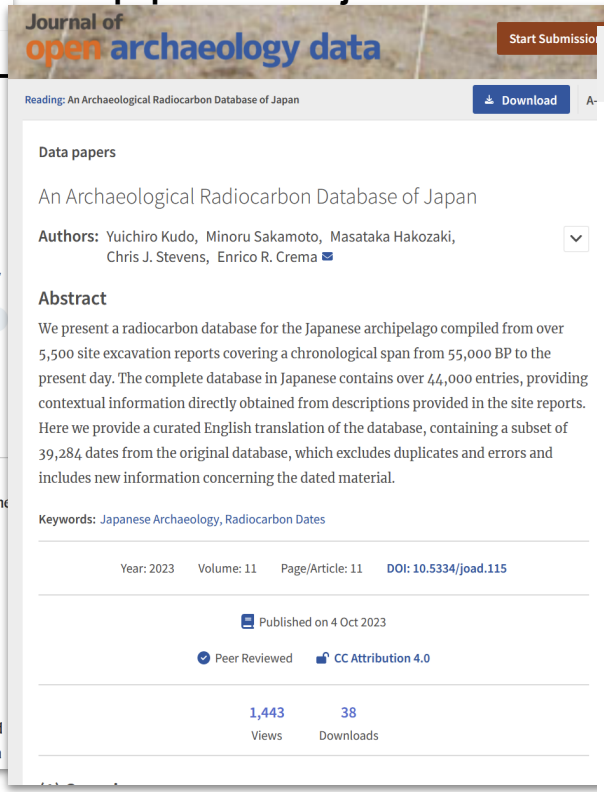

Journal of open archaeology data

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Reading: An Archaeological Radiocarbon Database of Japan

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An Archaeological Radiocarbon Database of Japan

Authors: Yuichiro Kudo, Minoru Sakamoto, Masataka Hakozaki, Chris J. Stevens, Enrico R. Crema

Abstract

We present a radiocarbon database for the Japanese archipelago compiled from over 5,500 site excavation reports covering a chronological span from 55,000 BP to the present day. The complete database in Japanese contains over 44,000 entries, providing contextual information directly obtained from descriptions provided in the site reports. Here we provide a curated English translation of the database, containing a subset of 39,284 dates from the original database, which excludes duplicates and errors and includes new information concerning the dated material.

Keywords: Japanese Archaeology, Radiocarbon Dates

Year: 2023 Volume: 11 Page/Article: 11 DOI: 10.5334/joad.115

Published on 4 Oct 2023

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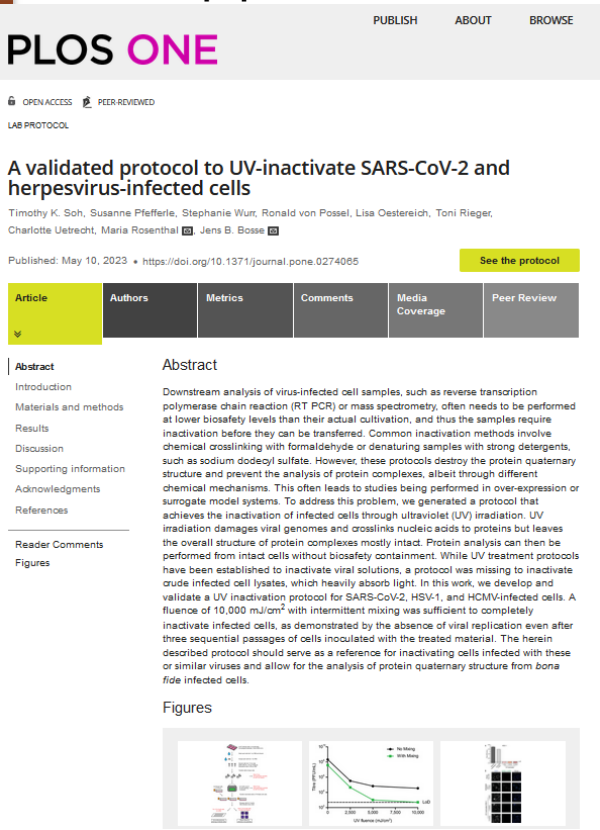
Protocol paper



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LAB PROTOCOL

A validated protocol to UV-inactivate SARS-CoV-2 and herpesvirus-infected cells

Timothy K. Soh, Susanne Pfefferle, Stephanie Wurr, Ronald von Possel, Lisa Oestereich, Toni Rieger, Charlotte Uetrecht, Maria Rosenthal, Jens B. Bosse

Published: May 10, 2023 • https://doi.org/10.1371/journal.pone.0274065

See the protocol

Article | Authors | Metrics | Comments | Media Coverage | Peer Review

Abstract
Introduction
Materials and methods
Results
Discussion
Supporting information
Acknowledgments
References
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Figures

Abstract

Downstream analysis of virus-infected cell samples, such as reverse transcription polymerase chain reaction (RT PCR) or mass spectrometry, often needs to be performed at lower biosafety levels than their actual cultivation, and thus the samples require inactivation before they can be transferred. Common inactivation methods involve chemical crosslinking with formaldehyde or denaturing samples with strong detergents, such as sodium dodecyl sulfate. However, these protocols destroy the protein quaternary structure and prevent the analysis of protein complexes, albeit through different chemical mechanisms. This often leads to studies being performed in over-expression or surrogate model systems. To address this problem, we generated a protocol that achieves the inactivation of infected cells through ultraviolet (UV) irradiation. UV irradiation damages viral genomes and crosslinks nucleic acids to proteins but leaves the overall structure of protein complexes mostly intact. Protein analysis can then be performed from intact cells without biosafety containment. While UV treatment protocols have been established to inactivate viral solutions, a protocol was missing to inactivate crude infected cell lysates, which heavily absorb light. In this work, we develop and validate a UV inactivation protocol for SARS-CoV-2, HSV-1, and HCMV-infected cells. A fluence of 10,000 mJ/cm^2 with intermittent mixing was sufficient to completely inactivate infected cells, as demonstrated by the absence of viral replication even after three sequential passages of cells inoculated with the treated material. The herein described protocol should serve as a reference for inactivating cells infected with these or similar viruses and allow for the analysis of protein quaternary structure from *bona fide* infected cells.

Figures

https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0274065

Eurotherm Seminar 118 — Hydrogen Energy Technologies IOP Publishing
Journal of Physics: Conference Series **2812** (2024) 012001 doi:10.1088/1742-6596/2812/1/012001

Development of a hydrogen permselective silica membrane and its application to the thermochemical water splitting method

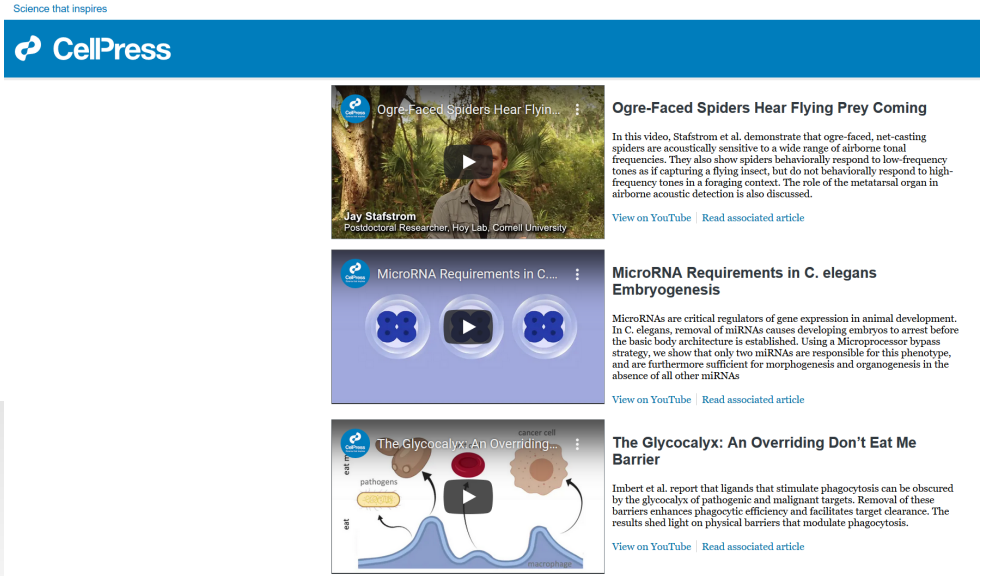
Mikihiro Nomura

Department of Applied Chemistry, Shibaura Institute of Technology, Tokyo, Japan

*E-mail: Lscathy@shibaura-it.ac.jp

Abstract. The thermochemical water splitting IS process is one of the hydrogen production method to use a heat directly. The temperature of the thermal decomposition of water (4000 K) can be reduced under 700 K by introducing I_2 and SO_2 as recycling catalysts. One of the problems in the IS process is that the conversion of the HI decomposition reaction is low at about 20%. If a membrane reactor with the H_2 permselective membrane is applied to the HI decomposition reaction, the hydrogen can be extracted to improve the HI conversion. We focus on a counter diffusion CVD method for the preparation method of the membranes. Two reactants (e.g. silica precursor and oxidant) are provided at the opposite side of the porous substrates and hybrid silica is deposited inside the pore of the substrate. The pore sizes are controlled by introducing organic functional groups to silica precursor. In this study, the silica hybrid membrane with high H_2 permeation performance and high H_2/HI selectivity were developed by introducing organic functional groups. Effects of the organic functional groups were summarized by using a pore model. The HI gas and other inorganic gases permeation performance were tested through silica hybrid membranes.

Video abstract



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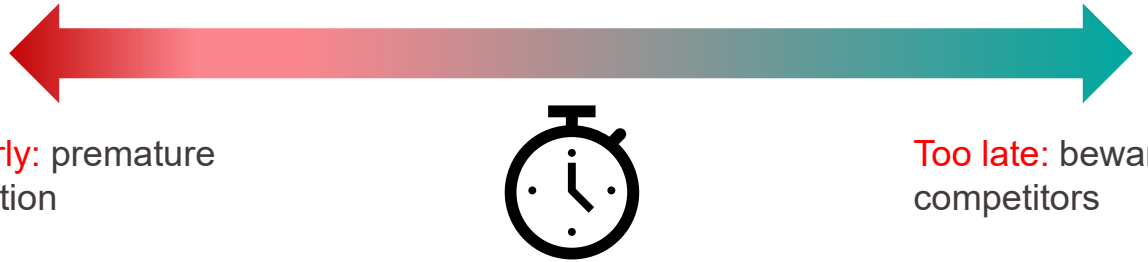

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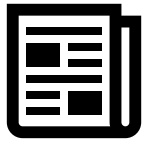

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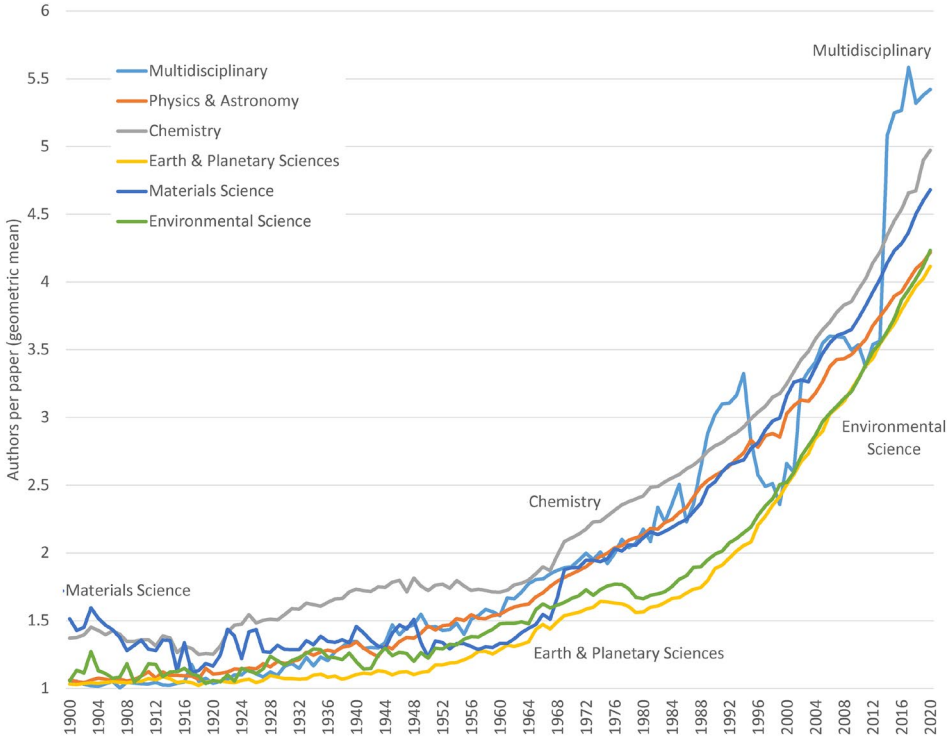

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Authorship: how it should be

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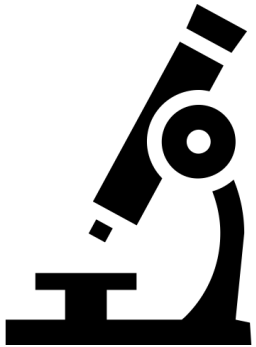

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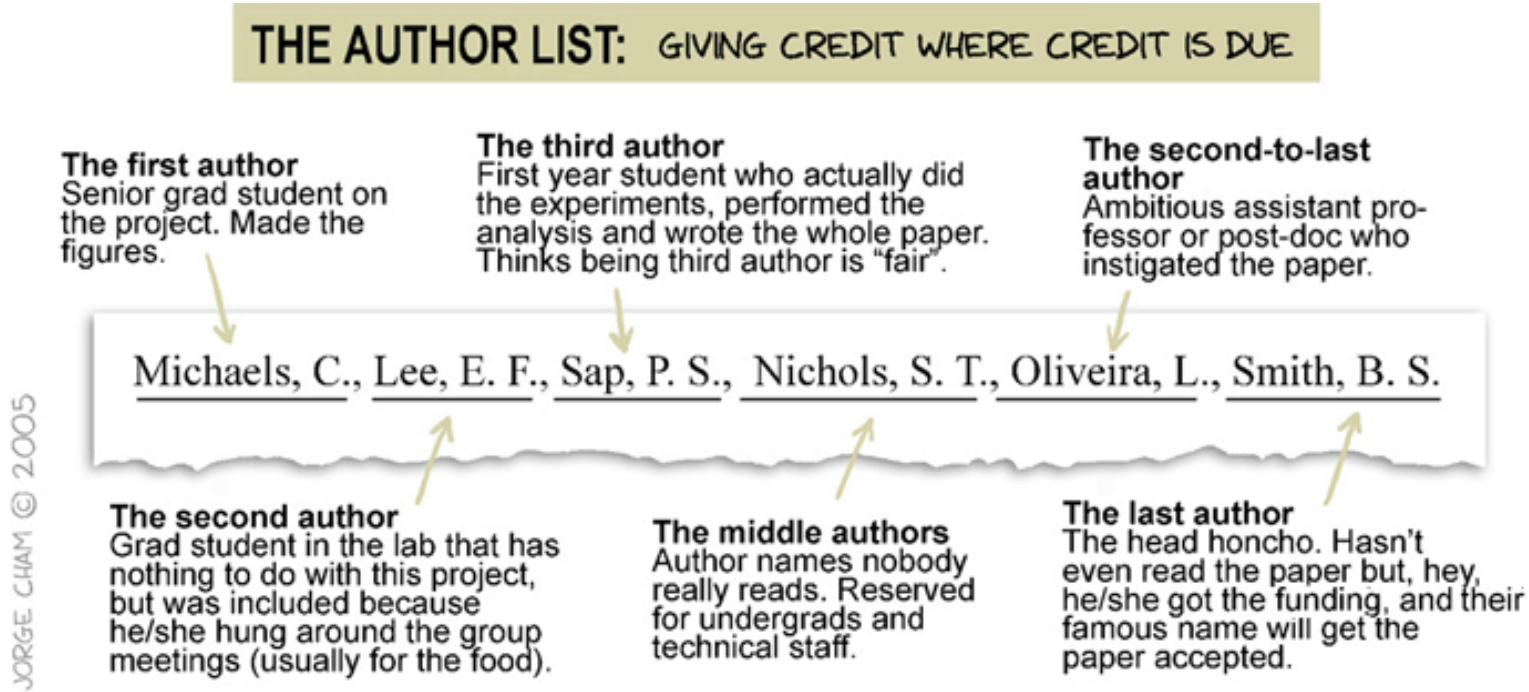

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Authorship: how it really is continued

Iron-Clad Fibers: A Metal-Based Biological Strategy for Hard Flexible Coatings

Matthew J. Harrington,[1]*† Admir Masic,[1]† Niels Holten-Andersen,[2,3] J. Herbert Waite,[2,4] Peter Fratzl[1]

The extensible byssal threads of marine mussels are shielded from abrasion in wave-swept habitats by an outer cuticle that is largely proteinaceous and approximately fivefold harder than the thread core. Threads from several species exhibit granular cuticles containing a protein that is rich in the catecholic amino acid 3,4-dihydroxyphenylalanine (dopa) as well as inorganic ions, notably Fe^{3+}. Granular cuticles exhibit a remarkable combination of high hardness and high extensibility. We explored byssus cuticle chemistry by means of in situ resonance Raman spectroscopy and demonstrated that the cuticle is a polymeric scaffold stabilized by catecholato-iron chelate complexes having an unusual clustered distribution. Consistent with byssal cuticle chemistry and mechanics, we present a model in which dense cross-linking in the granules provides hardness, whereas the less cross-linked matrix provides extensibility.

Metal complexation in biological and bioengineered load-bearing structures is emerging as a versatile cross-linking strategy for assembling and mechanically reinforcing polymeric materials (*1*–*6*). Coordination complexes form cross-links when two or more ligands each donate a nonbonding electron pair to empty orbitals in a transition metal ion.

Because of their high
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in situ has remained

[1]Department of Biomaterial
and Interfaces, Potsdam
Science and Engineering,
Barbara (UCSB), Santa Ba
ment of Chemistry, Univers
USA. [4]Department of Mole
Biology, UCSB, Santa Barb

*To whom correspondenc
Matt.Harrington@mpikg.
†These authors contribute

Google Scholar

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	A murine model of chronic lymphocytic leukemia based on B cell-restricted expression of Sf3b1 mutation and Atm deletion S Yin, RG Gambe, J Sun, AZ Martinez, ZJ Cartun, FFD Regis, Y Wan, ... Cancer cell 35 (2), 283-296. e5	7	2019
*	Linking transcriptional and genetic tumor heterogeneity through allele analysis of single-cell RNA-seq data J Fan, HO Lee, S Lee, D Ryu, S Lee, C Xue, SJ Kim, K Kim, N Barkas, ... Genome research 28 (8), 1217-1227	21	2018
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*	Integrated single-cell genetic and transcriptional analysis suggests novel drivers of chronic lymphocytic leukemia L Wang, J Fan, JM Francis, G Georghiou, S Hergert, S Li, R Gambe, ... Genome research 27 (8), 1300-1311	25	2017
	Comparison of Principal Component Analysis and t-Stochastic Neighbor Embedding with Distance Metric Modifications for Single-cell RNA-sequencing Data Analysis H Kwon, J Fan, P Kharchenko bioRxiv, 102780	1	2017
	UBiT2: a client-side web-application for gene expression data analysis J Fan, D Fan, K Slowikowski, N Gehlenborg, P Kharchenko bioRxiv, 118992	2	2017
*	Transcriptomic Characterization of SF3B1 Mutation Reveals Its Pleiotropic Effects in Chronic Lymphocytic Leukemia L Wang, AN Brooks, J Fan, Y Wan, R Gambe, S Li, S Hergert, S Yin, ... Cancer Cell 30 (5), 750-763	77	2016
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Authors' contributions

Studi di Milano, Milano, Italy
Garcia David, Universidad Computense de Madrid, Madrid, Spain
Georgoudis Andreas, Aristotle University of Thessaloniki, Fac. of Agriculture, Dept. of Animal Production, Thessaloniki, Greece
Lühken Gesine, Institut für Tierzucht und Haustiergenetik, Justus-Liebig University of Giessen, Giessen, Germany
Giovenzana Stefano, Istituto di Zootecnia Generale, Università degli Studi di Milano, Milano, Italy
Gutscher Katja, Institut für Tierzucht und Haustiergenetik, Justus-Liebig University of Giessen, Giessen, Germany
Hewitt Godfrey, Biological Sciences, University of East Anglia, Norwich, UK
Hoda Anila, Department of Animal Production, Faculty of Agriculture, Tirana, Albania
Brandt Horst, Institut für Tierzucht und Haustiergenetik, Justus-Liebig University of Giessen, Giessen, Germany
Istvan Anton, Research Institute for Animal Breeding and Nutrition, Department of Genetics, Herceghalom, Hungary
Juma Gabriela, School of Biosciences, Cardiff University, Cardiff, UK
Jones Sam, The Sheep Trust, Biology Area-8, University of York, York, England
Karetsou Katerina, Aristotle University of Thessaloniki, Fac. of Agriculture, Dept. of Animal Production, Thessaloniki, Greece
Kliambas Georgios, Aristotle University of Thessaloniki, Fac. of Agriculture, Dept. of Animal Production, Thessaloniki, Greece
Koban Evren, Department of Biology, Middle East Technic[illegible] University, Ankara, Turkey
Kutita Olga, Aristotle University of Thessaloniki, Fac. of Agricultu[illegible] Dept. of Animal Production, Thessaloniki, Greece
Fesus Lazlo, Research Institute for Animal Breeding and Nutritio[illegible] Department of Genetics, Herceghalom, Hungary
Roosen Jutta, Department of Food Economics and Consumption Studies, University of Kiel, Kiel, Germany
Scarpa Riccardo, Environment Department, University of York, York, UK
Sechi Tiziana, Istituto Zootecnico e Caseario per la Sardegna, Sassari, Italy
Taberlet Pierre, Laboratoire d'Ecologie Alpine (LECA), Université Joseph Fourier, Grenoble, France
Taylor Martin, Biological Sciences, University of East Anglia, Norwich,UK
Togan Inci, Department of Biology, Middle East Technical University, Ankara, Turkey
Trommetter Michel, Institut de recherche agronomique, Unité d'Économie et Sociologie rurales, Grenoble, France
Valentini Alessio, Dipartimento di Produzioni Animali, Università della Tuscia, Viterbo, Italy
Van Cann, Lisette M., Faculty of Veterinary Medicine, Utrecht University, Utrecht, Netherlands
Vlaic Augustin, Department of Animal Genetics, Faculty of Zootechnics, University of Cluj-Napoca, Cluj-Napoca, Romania
Wiskin Louise,Biological Sciences, University of East Anglia,Norwich,UK
Zundel Stéphanie,Laboratoire d'Ecologie Alpine (LECA), Université Joseph Fourier, Grenoble, France

Author Contributions

Conceived and designed the experiments: LC SJ RN LN PC PAM. Performed the experiments: LC RN. Analyzed the data: LC SJ RN LN PC. Contributed reagents/materials/analysis tools: SJ PC PAM. Wrote the paper: LC SJ RN LN PC PAM.

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1. Avise JC (2004) Molecular Markers, Natural History and Evolution. Sunderland Massachusetts: 2nd edn. Sinauer Associates. 684 p.
2. Cañón J, García D, García-Atance MA, Obexer-Ruff G, Lenstra JA, et al. (2006) Geographical partitioning of goat diversity in Europe and the Middle East. Anim Genet 37: 327 334.

Author Contributions

Conceived and designed the experiments: LC SJ RN LN PC PAM. Performed the experiments: LC RN. Analyzed the data: LC SJ RN LN PC. Contributed reagents/materials/analysis tools: SJ PC PAM. Wrote the paper: LC SJ RN LN PC PAM.

Author contributions

Contributor Role Taxonomy (CRediT): credit.niso.org/

Conceptualization
Data curation
Formal analysis
Funding acquisition
Investigation
Methodology
Project administration
Resources
Software
Supervision
Validation
Visualization
Writing – original draft
Writing – review & editing

Author Contributions

Conceived and designed the experiments: LC SJ RN LN PC PAM. Performed the experiments: LC RN. Analyzed the data: LC SJ RN LN PC. Contributed reagents/materials/analysis tools: SJ PC PAM. Wrote the paper: LC SJ RN LN PC PAM.

Can AI be an author?

ELSEVIER

Nurse Education in Practice

Volume 66, January 2023, 103537

Editorial

Open artificial intelligence platforms in nur
education: Tools for academic progress or al

Siobhan O'Connor [a] [1], ChatGPT [b]

January 2023: first articles with ChatGPT as an author

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Nurse Education in Practice

Volume 67, February 2023, 103572

Corrigendum

Corrigendum to "Open artificial intelligence platforms in nursing education: Tools for academic progress or abuse?" [Nurse Educ. Pract. 66 (2023) 103537]

Siobhan O'Connor

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Refers to Open artificial intelligence platforms in nursing education: Tools for academic progress or abuse?

Nurse Education in Practice, Volume 66, January 2023, Pages 103537

Siobhan O'Connor

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February 2023: corrigendum (ChatGPT removed as an author)

Can AI be an author?

A few months later: the first publishers' policies on the subject have been published:

- **Springer Nature:** "Large Language Models (LLMs), such as ChatGPT, do not currently satisfy our authorship criteria"
- **arXiv**: "generative AI language tools should not be listed as an author"
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Authors must be able to take accountability for their work

AI tools have no capacity for accountability

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Volume 161, March 2020, Pages 23-31

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OPTICAL PHYSICS

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This paper addresses the problem of [main question addressed by study]. Studies have shown that [insert brief background of study]. However, it needs to be clarified whether [insert problem statement]. Using [insert method], we show that [describe key finding(s) of the study]. Our findings are significant because [explain the impact of the study].

Since our study deals with [explain how the main focus of the study aligns with the journal's scope], we believe it may be a good fit for publication in [name of journal]. We feel that the findings of our study will be highly relevant to your audience since [explain the research contribution of study or practical implications].

The article "[title of article]" has not been published elsewhere, and it reflects original research conducted by its authors. None of the authors have any conflicts of interest to disclose concerning this study.

Thank you for your valuable time.

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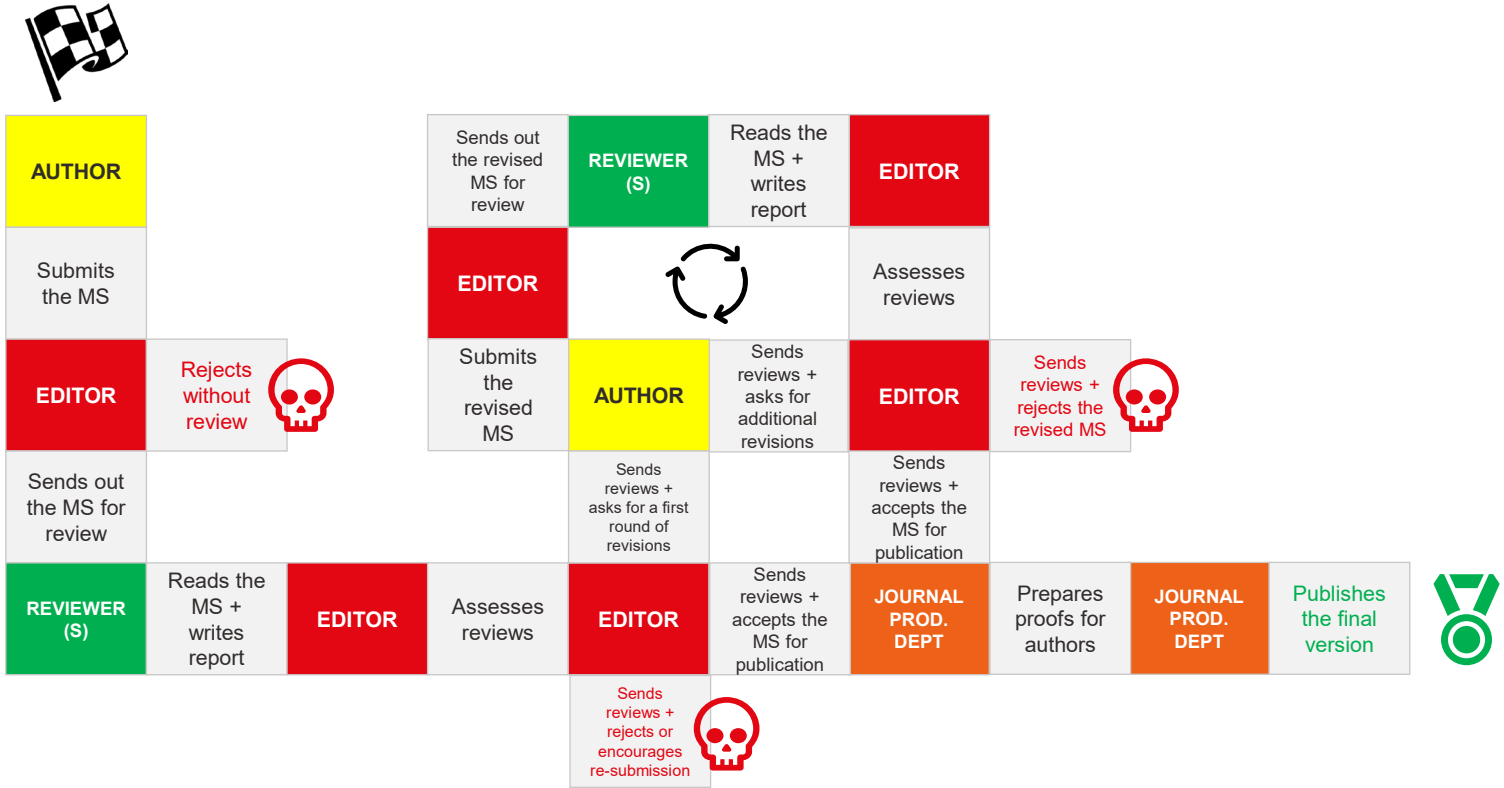

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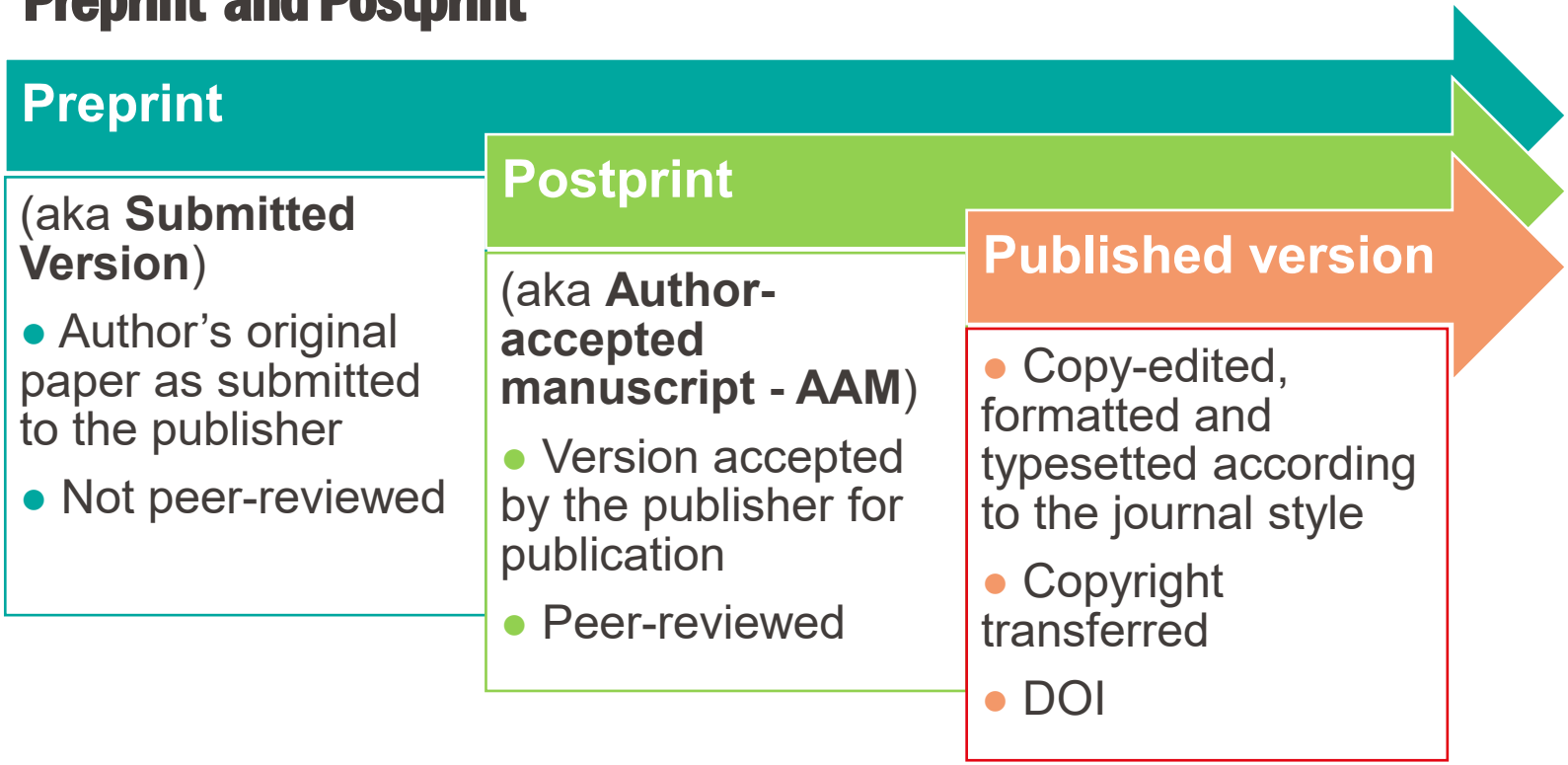

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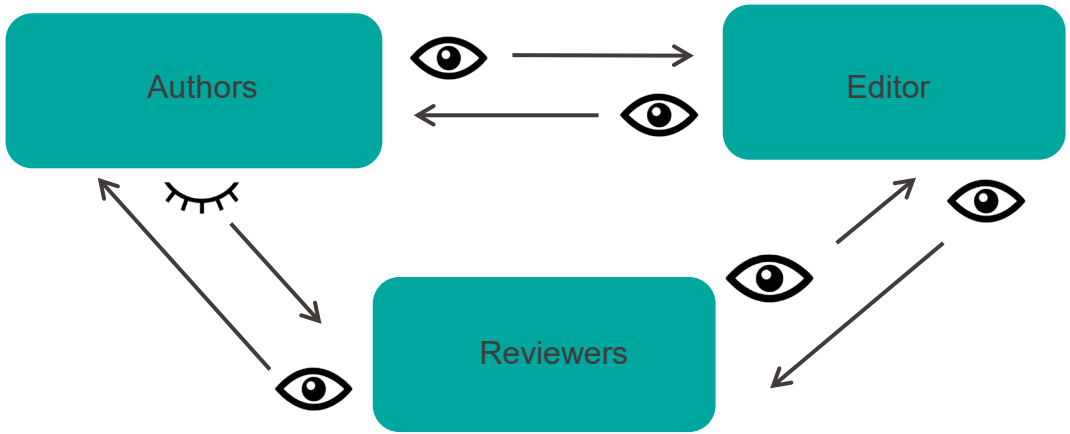

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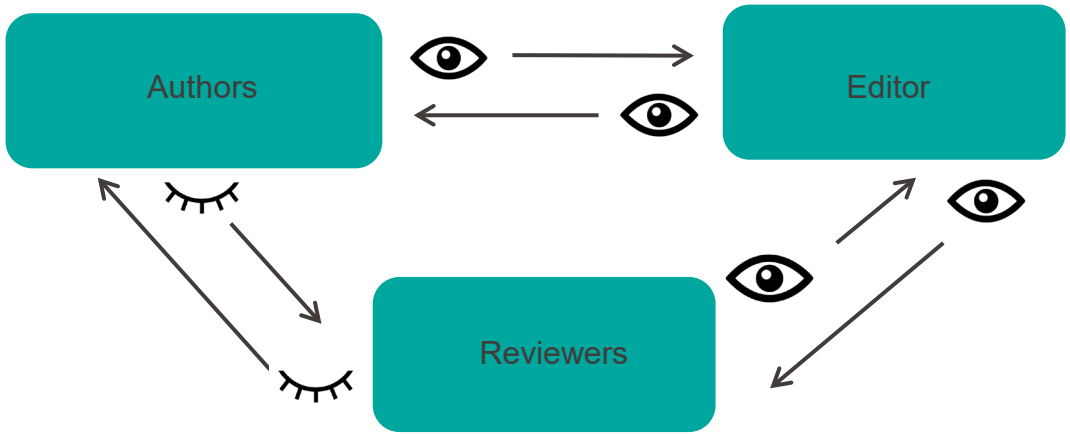


Problems with traditional peer-review

- Slow & resource-expensive
- Inconsistent
- Bias- and abuse-prone
- Black box

- Reviewers are only human
  - And overworked and underpaid
  - Few incentives for good peer-review

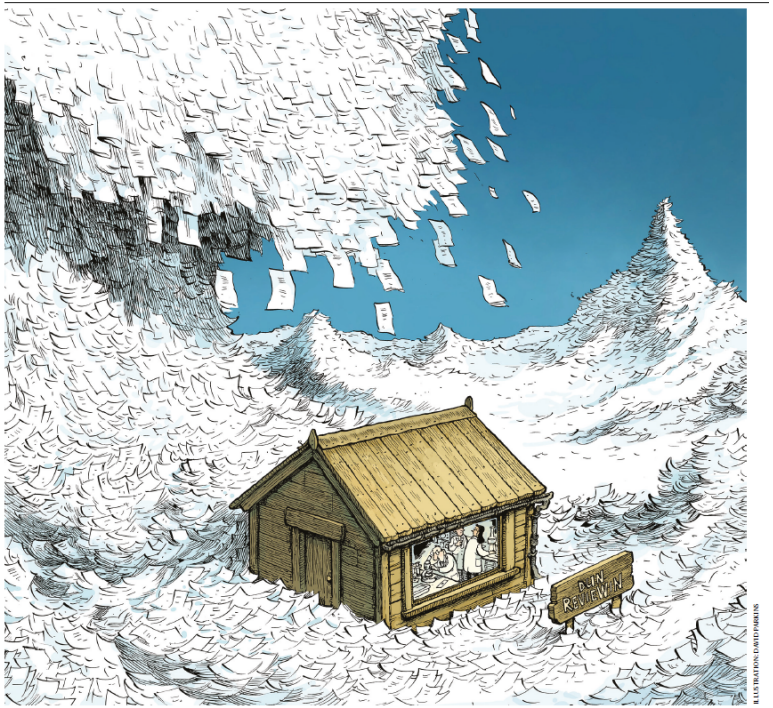


ILLUSTRATION: DAVID PARKINS

HOW TO FIX PEER REVIEW

Journals and funders are trying to boost the effectiveness of systems under strain. **By David Adam**

Attached to the Very Large Telescope in Chile, the Multi Unit Spectroscopic Explorer (MUSE) allows researchers to probe the most distant galaxies. It's a popular instrument: for its next observing session, from October to April, scientists have applied for more than 3,000 hours of observation time. That's a problem. Even though it's dubbed a cosmic time machine, not even MUSE can squeeze 379 nights of work into just seven months.

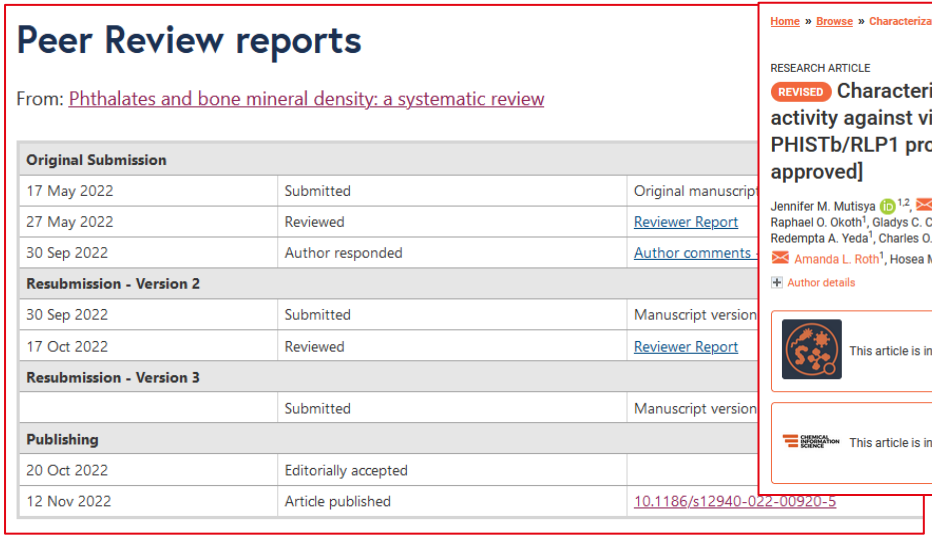
The European Southern Observatory (ESO), which runs the Chile telescope, usually asks panels of experts to select the worthiest proposals. But as the number of requests has soared, so has the burden on the scientists asked to grade them.

"The load was simply unbearable," says

Variants: open peer-review

- Versioning
- Open identities
- Open reports

BMC Environmental Health

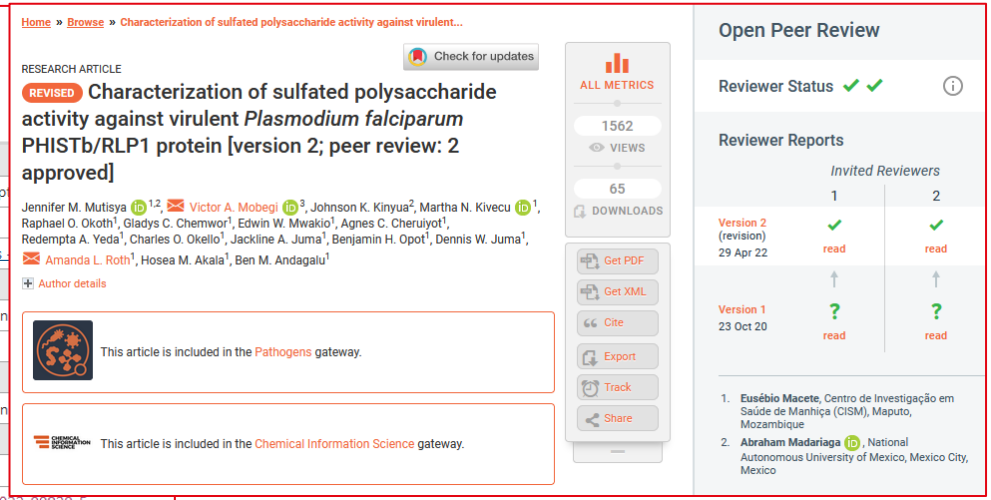


Peer Review reports

From: Phthalates and bone mineral density: a systematic review

Original Submission		
17 May 2022	Submitted	Original manuscript
27 May 2022	Reviewed	Reviewer Report
30 Sep 2022	Author responded	Author comments
Resubmission - Version 2		
30 Sep 2022	Submitted	Manuscript version
17 Oct 2022	Reviewed	Reviewer Report
Resubmission - Version 3		
	Submitted	Manuscript version
Publishing		
20 Oct 2022	Editorially accepted	
12 Nov 2022	Article published	10.1186/s12940-022-00920-5

F1000 Research



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RESEARCH ARTICLE

REVISED **Characterization of sulfated polysaccharide activity against virulent *Plasmodium falciparum* PHISTb/RLP1 protein [version 2; peer review: 2 approved]**

Jennifer M. Mutisya [1,2], Victor A. Mobegi [3], Johnson K. Kinyua[2], Martha N. Kivecu [1], Raphael O. Okoth[1], Gladys C. Chemwor[1], Edwin W. Mwakio[1], Agnes C. Cheruiyot[1], Redempta A. Yeda[1], Charles O. Okello[1], Jackline A. Juma[1], Benjamin H. Opot[1], Dennis W. Juma[1], Amanda L. Roth[1], Hosea M. Akala[1], Ben M. Andagalu[1]

Author details

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Open Peer Review

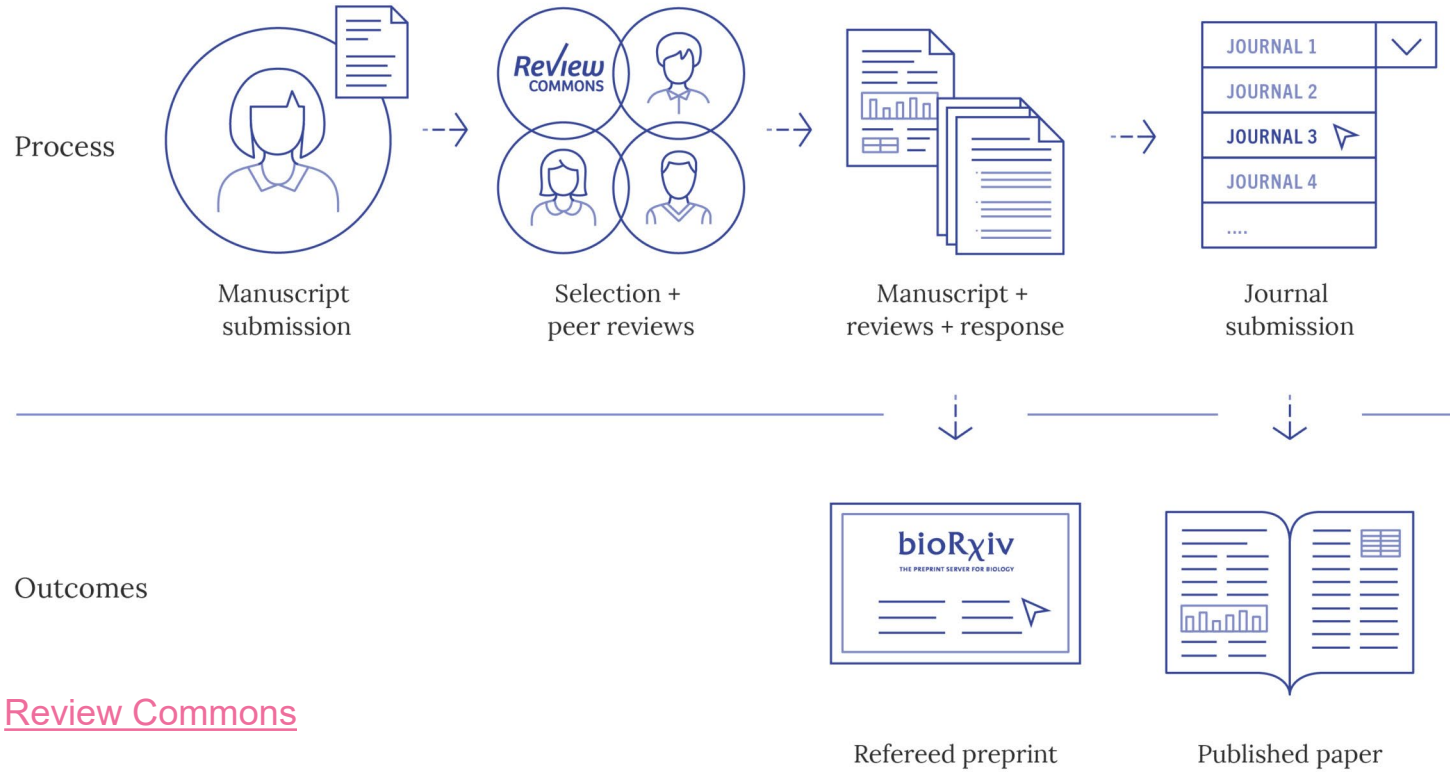
Reviewer Status ✓ ✓

Reviewer Reports

	Invited Reviewers	
	1	2
Version 2 (revision) 29 Apr 22	✓ read	✓ read
Version 1 23 Oct 20	? read	? read

1. **Eusébio Macete**, Centro de Investigação em Saúde de Manhiça (CISM), Maputo, Mozambique
2. **Abraham Madariaga**, National Autonomous University of Mexico, Mexico City, Mexico

Variants: independent review before submission

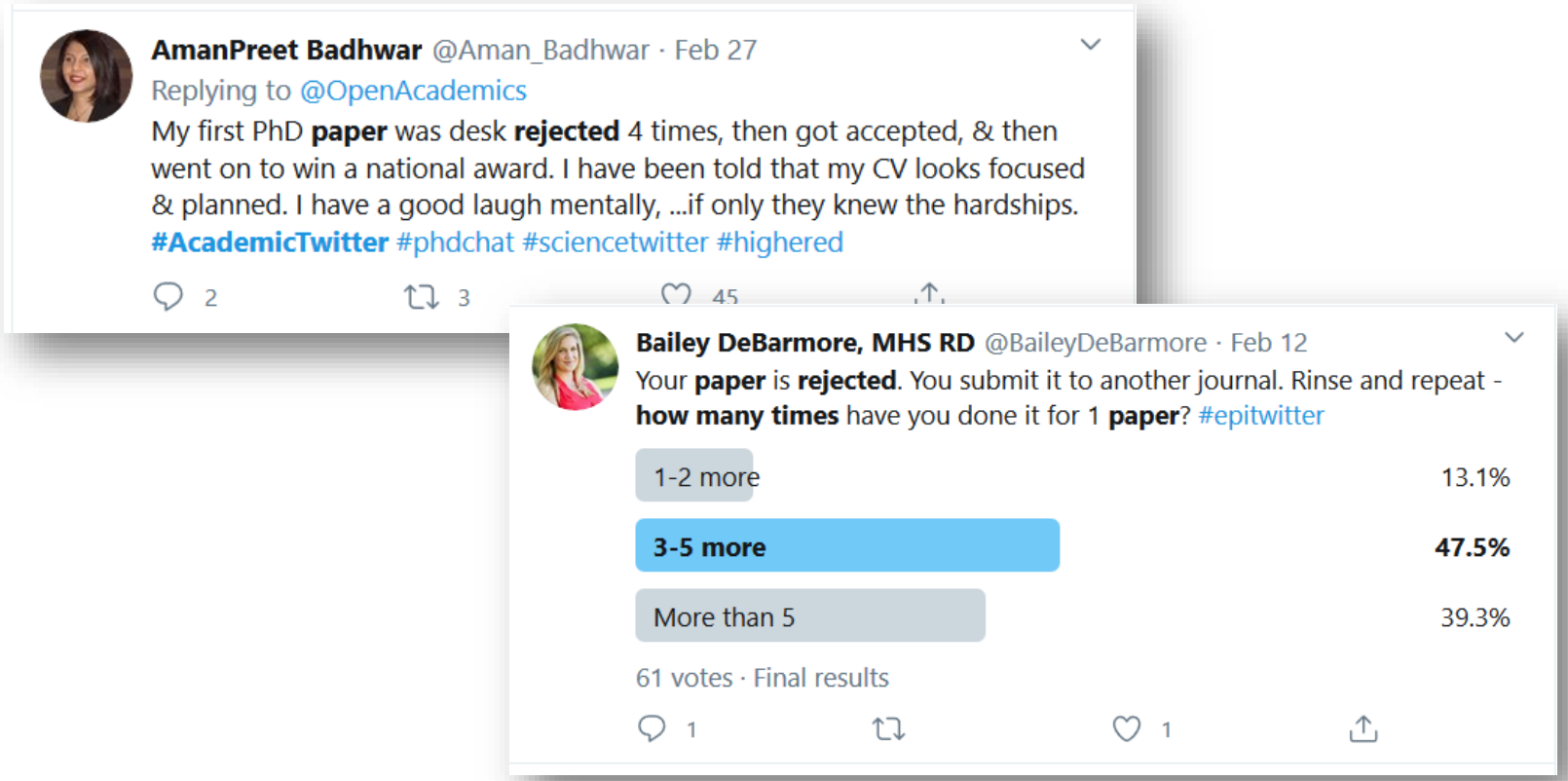


Review Commons

Reasons for rejection

- Insufficient novelty
- Inappropriate scope and audience
- Limited impact and urgency
- Premature publication
- Lack of interpretation
- Insufficiently extensive experiments, poor methodology
- Low quality of writing / incorrect formatting
- Inadequate literature citation
- Suspected (self-)plagiarism
- “Salami” science

After rejection?



AmanPreet Badhwar @Aman_Badhwar · Feb 27

Replying to @OpenAcademics

My first PhD **paper** was desk **rejected** 4 times, then got accepted, & then went on to win a national award. I have been told that my CV looks focused & planned. I have a good laugh mentally, ...if only they knew the hardships. **#AcademicTwitter** #phdchat #sciencetwitter #highered

2 3 45

Bailey DeBarmore, MHS RD @BaileyDeBarmore · Feb 12

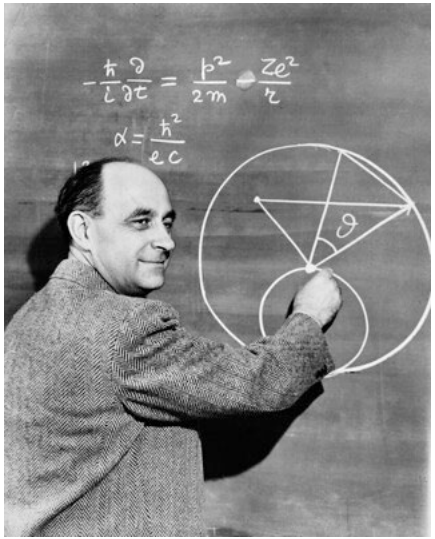
Your **paper** is **rejected**. You submit it to another journal. Rinse and repeat - **how many times** have you done it for 1 **paper**? #epitwitter

1-2 more	13.1%
3-5 more	**47.5%**
More than 5	39.3%

61 votes · Final results

1 1

Anyway, it's just a rejection...



Laboratory, Argonne National. *Enrico Fermi*. Photo, 30 September 2010. https://www.flickr.com/photos/argonne/5039459604/.

1933: Enrico Fermi submits his seminal paper on weak interaction to Nature

1933: rejection by Nature ("speculations too remote from reality to be of interest to the reader")

> 1933: unofficial circulation (copies of the article to labs around the world) + publication in minor journals

1938: Fermi wins the Nobel Prize in Physics for a paper widely based on his 1933 letter

Bernardini, C., and Luisa Bonolis, eds. *Conoscere Fermi: Nel Centenario Della Nascita, 29 Settembre 1901-2001*. 2a ed. Bologna: Edizioni scientifiche SIF, 2002.

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