SIPBS Seminar, Wed 24/02/2021



Pre-prints

A more affordable and quicker way to share research results

Pablo de Castro Open Access Advocacy Librarian Scholarly Publications & Research Data, ISD/Library pablo.de-castro@strath.ac.uk

Pre-prints have a long history...

Published: 10 August 2011

ArXiv at 20

Paul Ginsparg 🖂

Nature 476, 145–147(2011) Cite this article

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This automated repository and alert system for physics preprints, at hep-th@xxx.lanl.gov, was implemented shortly before the dawn of the web era. As I e-mailed to a colleague at CERN more than a year later: 'I know nothing of WWW, what is it?' <u>The original plan</u> was for roughly 100 full-text article submissions every year, each stored for three months until the existing paper distribution system could catch up. By popular demand, nothing was ever deleted.



The arXiv server in the early 1990s: a computer that helped to change the world of physics. Credit: J. FLOWER/LANL



Pre-prints have a long history...



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	1. arXiv:1704.05246 [pdf, other] physics.chem-ph cond-mat.stat-mech doi 10.5281/zenodo.495336	
	Can approximate integral equation theories accurately predict solvation thermod	lynamics?
	Authors: Maksim Misin	
	Abstract: The thesis focuses on the prediction of solvation thermodynamics using integral equation theory to improve the approach using a rational correction. We achieve it by extending recently introduced press rationalizing it in the context of solvation entropy. The improved model (to which we refer as advanced prather universal. It can accura ∇ More	sure correction, and
	Submitted 18 April, 2017; originally announced April 2017.	
	Comments: Author's Ph.D. thesis (University of Strathclyde, 2016). Supervisors: Maxim V. Fedorov and David S. Palmer	

Why so few of them?



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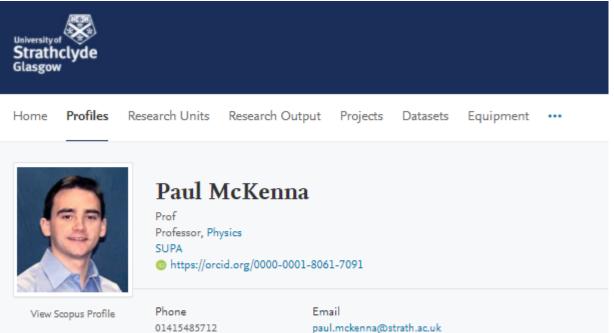
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1. arXiv:2101.06215 [pdf, other] cs.SI math.NA physics.data-an

Node and Edge Eigenvector Centrality for Hypergraphs

Authors: Francesco Tudisco, Desmond J. Higham

Abstract: Network scientists have shown that there is great value in studying pairwise interactions between components in a system. From a linear algebra point of view, this involves defining and evaluating functions of the associated adjacency matrix. Recent work indicates that there are further benefits from accounting directly for higher order interactions, notably through a hypergraph representation whe...
accounting directly for higher order interactions, notably through a hypergraph representation whe... Submitted 15 January, 2021; originally announced January 2021.

Go

2. arXiv:2012.02999 [pdf, other] cs.SI math.NA

A Theory for Backtrack-Downweighted Walks

Authors: Francesca Arrigo, Desmond J. Higham, Vanni Noferini

Abstract: We develop a complete theory for the combinatorics of walk-counting on a directed graph in the case where each backtracking step is downweighted by a given factor. By deriving expressions for the associated generating functions, we also obtain linear systems for computing centrality measures in this setting. In particular, we show that backtrack-downweighted Katz-style network centrality can be co...
a More

Submitted 5 December, 2020; originally announced December 2020.

MSC Class: 05C50; 05C82; 68R10



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1. arXiv:2011.06014 [pdf] cs.SI physics.soc-ph

Football tracking networks: Beyond event-based connectivity

Authors: J. M. Buldu, D. Garrido, D. R. Anteguera, J. Busguets, E. Estrada, R. Resta, R. Lopez del Campo

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Abstract: We propose using Network Science as a complementary tool to analyze player and team behavior during a football match. Specifically, we introduce four kinds of networks based on different ways of interaction between players. Our approach's main novelty is to use tracking datasets to create football tracking networks, instead of constructing and analyzing the traditional networks based on events. In...
where the traditional networks is the traditional networks based on events. In...

Go

Submitted 11 November, 2020; originally announced November 2020.

Comments: 13 pages, 5 figures

Journal ref: Conference Analytics in Sports Tomorrow 2020, F.C. Barcelona

2. arXiv:1704.03943 [pdf, ps, other] physics.soc-ph cs.SI

Two-walks degree assortativity in graphs and networks

Authors: Alfonso Allen-Perkins, Juan Manuel Pastor, Ernesto Estrada

Abstract: Degree ssortativity is the tendency for nodes of high degree (resp.low degree) in a graph to be connected to high degree nodes (resp. to low degree ones). It is sually quantified by the Pearson correlation coefficient of the degree-degree correlation. Here we extend this concept to account for the effect of second neighbours to a given node in a graph. That is, we consider the two-walks degree of...
we wanted the two-walks degree of two-

Submitted 12 April, 2017; originally announced April 2017.

Comments: 15 pages, 5 figures, 2 tables

MSC Class: 05C82: 05C75: 91D30: 92C42





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... but their popularisation is rather recent

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Preprints come to life

A dedicated website for sharing biology papers before peer review leaves journals divided.

Ewen Callaway

12 November 2013

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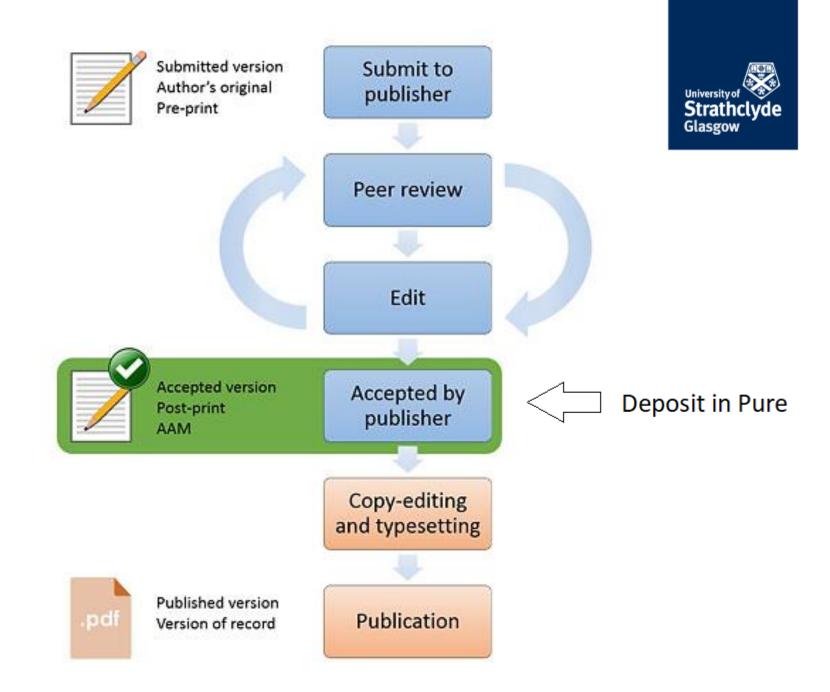
What are biologists so afraid of? Physicists, mathematicians and social scientists routinely post their research to preprint servers such as arXiv.org before publication, yet few life scientists follow suit.

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2017

ChemRxiv is an open access preprint archive for chemistry. It is operated by the American Chemical Society, Royal Society of Chemistry and German Chemical Society. The new preprint server was announced already in 2016, but was only **opened** online in 2017.





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Marc Reid

🖻 0000-0003-4394-3132 🗹

UKRI Future Leaders Fellow (Analytical Chemistry; Catalysis; Chemical Education; Chemical Engineering and Industrial Chemistry; Organic Chemistry; Organometallic Chemistry; Theoretical and Computational Chemistry)

Glasgow



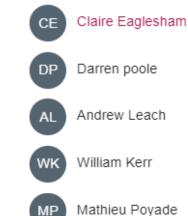
http://www.dr-marc-reid.com/bio

Research interests include:

- physical organic chemistry
- computer vision
- cheminformatics
- virtual reality
- process safety
- psychology of the imposter phenomenon.

Outside of academia, Marc is the co-founder of safety culture and accident readiness company Pre-Site Safety.





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A Transferable Psychological Evaluation of Virtual Reality Applied to Safety Training in Chemical Manufacturing

Cite

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Version 2 ➤ Preprint revised on 21.09.2020, 07:58 and posted on 21.09.2020, 12:54 by Mathieu Poyade, Claire Eaglesham, Jordan Trench, Marc Reid

High-profile accidents in the Chemical sector – across research and manufacturing scales – have provided strong drivers to develop a new benchmark in safety training and compliance. Herein, we describe the design, implementation, and standardised psychological evaluation of Virtual Reality (VR) applied to process safety training. Through a specific industrial case study, we show that testable learning of complex safety-specific tasks in VR is statistically equivalent to traditional slide-based video training. However, VR training presents a measurable positive improvement on trainees' perception of overall learning, and their feeling of presence in the task during training. It has also been shown that knowledge retention from video lectures can be overestimated, if not controlled. Through these results – and our transferable blueprint for robustly assessing any new VR training platform – we envisage a range of technologically-enabled efforts to enhance safety performance in both laboratory and plant-based activities. Implications for physical resource-saving projects are also described.



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A Transferable Psychological Evaluation of Virtual Reality Applied to Safety Training in Chemical Manufacturing

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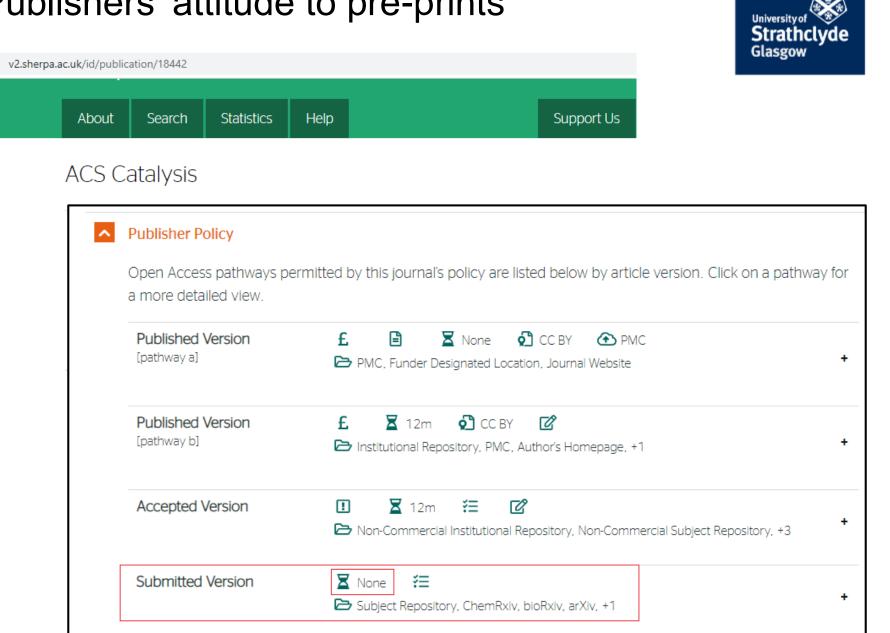
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Fyst Design In/C-# Autivation: & Case Mady in the Use of ding Free Drangton to Rationalize Intranscionation Directing includes in Intelligen Catalysis Table of Contents General Procedures 1. General Experiments Entry Methods. al Presentan I for Cuirra Cardinals (2011) Conversion Regionality Academic estare 2 for Chemical Isolates by these SP educe in the Genetical Southwest (1983) ACS Publications Mv Activit Q Search text, DOI, authors, etc. Aost Trusted, Most Cited, Most Re RETURN TO ISSUE RESEARCH ARTICLE < PREV NEXT > A Transferable Psychological Evaluation of Virtual Reality Applied to Safety Training in Chemical Manufacturing Virtual... Matthieu Poyade, Claire Eaglesham, Jordan Trench, and Marc Reid* 21.09.2020 Cite this: ACS Chem. Health Saf. 2021, 28, 1, 55–65 Article Views Altmetric Citations Share Add to Export Publication Date: January 7, 2021 > 508 RIS https://doi.org/10.1021/acs.chas.0c00105 Copyright © 2021 American Chemical Society Twitter (4) **RIGHTS & PERMISSIONS** 3 Mendeley (2) PDF (8 MB) 片 **Read Online** UBJECTS: Testing and assessment, Safety, ~



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EDITORIAL

Ten simple rules to consider regarding preprint submission

Philip E. Bourne , Jessica K. Polka, Ronald D. Vale, Robert Kiley

Published: May 4, 2017 • https://doi.org/10.1371/journal.pcbi.1005473

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EDITORIAL

Ten simple rules to consider regarding preprint submission

Philip E. Bourne 🖾, Jessica K. Polka, Ronald D. Vale, Robert Kiley

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Rule 9: Preprints can further inform grant review and academic advancement

Rule 10: Preprints—one shoe does not fit all

Massive Impact of Covid-19

08-05-20 | WORLD CHANGING IDEAS

How the COVID-19 crisis has prompted a revolution in scientific publishing

Preprint servers have existed for decades, but the fight against the coronavirus has seen their use soar. They're changing how science is done—but need important guardrails.

In March, as the World Health Organization declared COVID-19 a pandemic, 8,830 biomedical preprints were published, a 142% increase from last year. Over the past few months, approximately half of all available scientific work on COVID-19 has been published through preprint servers, amounting to more than 18,000 preprints as of July 2020. Traffic to these servers has jumped substantially too. MedRxiv's page views have spiked to 15 million a month, compared to 1 million a month before the pandemic began.

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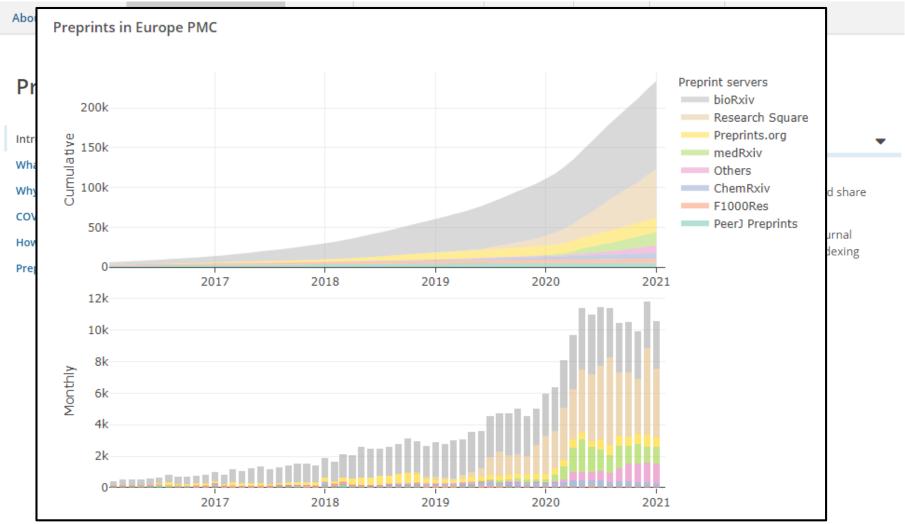
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Understanding Preprints

By Patrycja, on 29 April 2020

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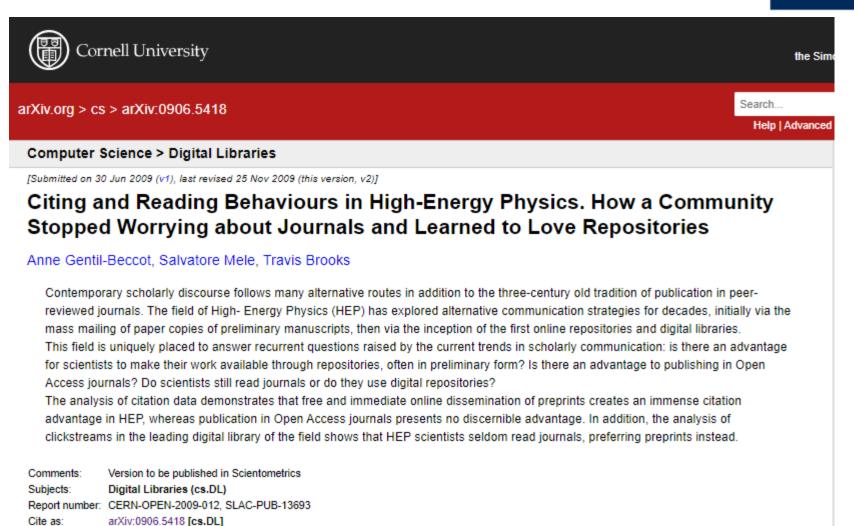
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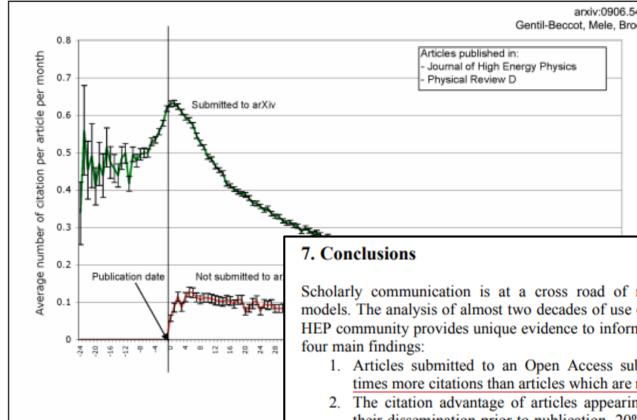


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arxiv:0906.5418 Gentil-Beccot, Mele, Brooks

Scholarly communication is at a cross road of new technologies and publishing models. The analysis of almost two decades of use of preprints and repositories in the HEP community provides unique evidence to inform the Open Access debate, through

- 1. Articles submitted to an Open Access subject repository, arXiv, receive 5 times more citations than articles which are not.
- 2. The citation advantage of articles appearing in a repository is connected to their dissemination prior to publication, 20% of citations of HEP articles over a two-year period occur before publication.
- 3. No discernable citation advantage can yet be observed in the statisticallylimited sample of articles published in "gold" Open Access journals.
- 4. HEP scientists are between four and eight times more likely to download an article in its preprint form from arXiv rather than its final published version on a journal web site.



A few questions for discussion



- May a publisher ask an author to remove a pre-print from a server upon publication of the final version?
- Would a [life-sciences] author welcome citations to a pre-print, or is the final published version the 'official currency' for the purpose?
- "What are biologists so afraid of?" asks the Nature editorial about the launch of bioRxiv. Could pre-prints endanger any commercial follow-up for the research?
- Is there a specific licence that could be used to prevent this potential downside?
- Can pre-prints be used as publications references in project proposals and for promotion purposes at institutions?