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Dr Marie-Pierre VIDONNE

August 2017

Why Open Access?

Green or Gold roads

Open Access policies

Tools

Future

Why Open Access?

Study by the Research Information Network in late 2009

- 40% of researchers have trouble accessing journal literature at least once per week
- 60% of researchers say access limitations hinder their research
- 18 % said the hindrance was significant

Knowledge access- South-North gap

Indian Institute of Science, subscribed to 10,600 journals

Yale University, subscribed to more than 100,000 journals

Why Open Access?

Subscriptions to journals

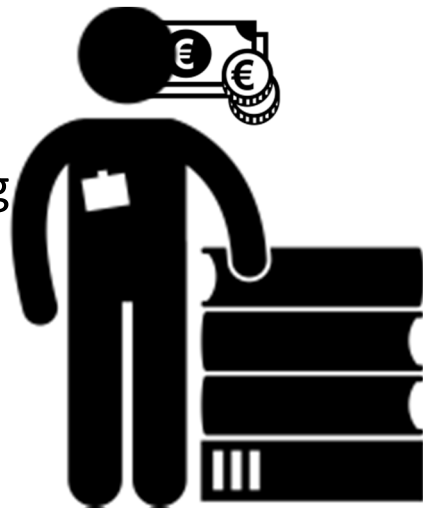
- Research showed that journal prices outpaced inflation by 250% over 30 years , +7% /year. (Data from Association for Research Libraries)
- An Elsevier journal called Tetrahedron (The International Journal for the Rapid Publication of Full Original Research Papers and Critical Reviews in Organic Chemistry) costs almost \$40,000 a year.
- Overall Swissuniversities: 70 M \$/year
- \$20-50 to read an article if your university, institution company does not subscribe to that particular journal.

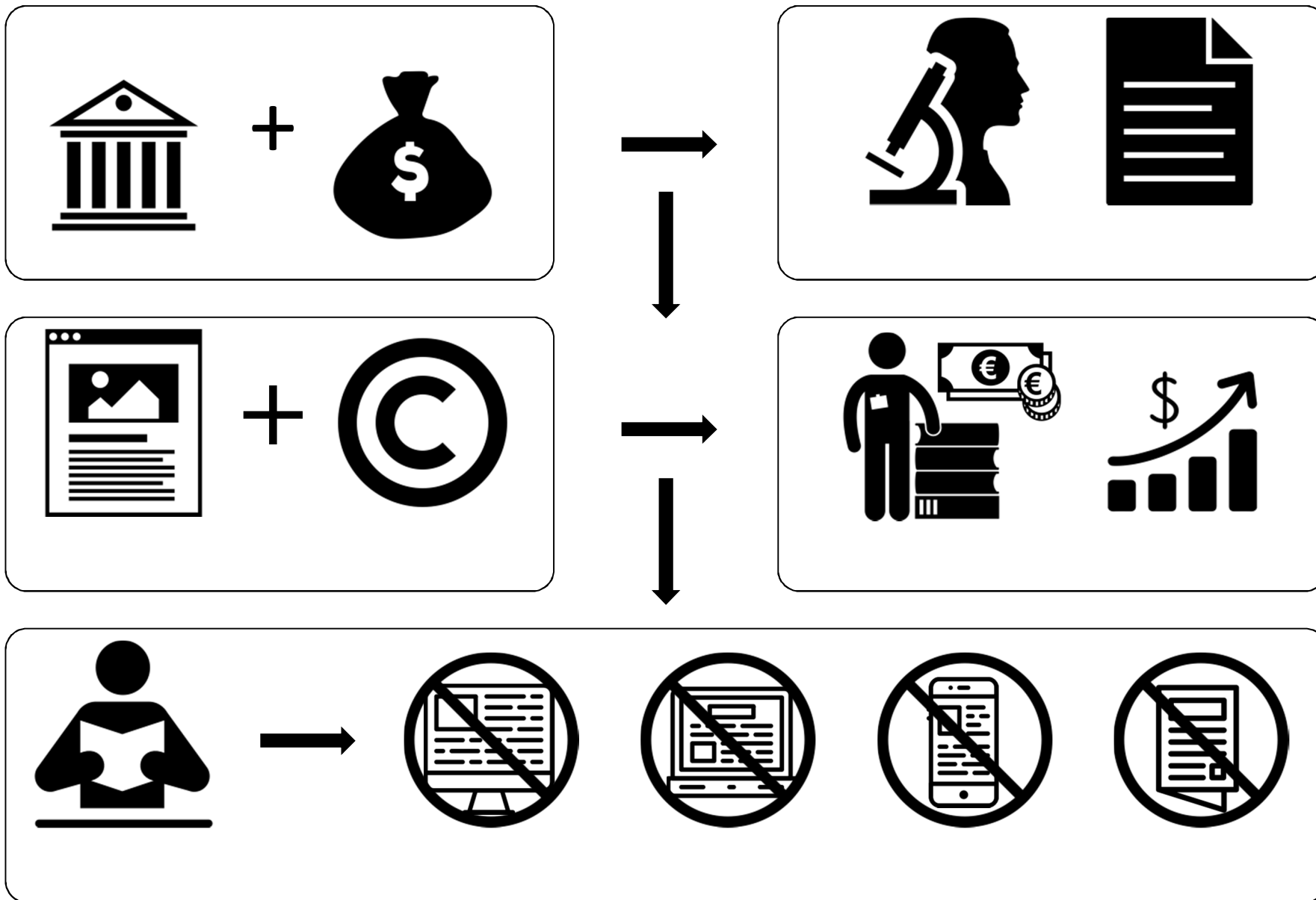
Stakeholders



Revolution:

Over the last 15 years almost all publishing of scholarly peer reviewed journals has migrated to electronic web publishing as the main dissemination channel.





Green or Gold roads



Preprint

Postprint

Publisher

Green or Gold roads

- Preprint: original version of the manuscript as it is submitted to a journal
- Postprint: document that has been through the peer review process and incorporated reviewers comments. It is the final version of the paper before it is sent off to the journal for publication
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- > **Slow scientific progress, poor return on public investment**

Green Road



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- > Accelerated scientific progress, optimal return on public investment



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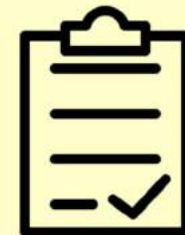
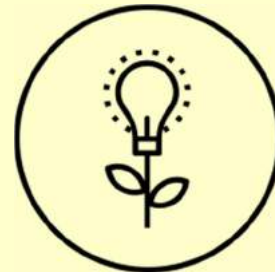
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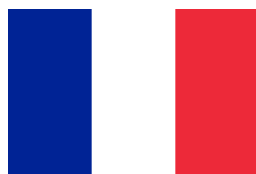
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Avril 2017: Plan national Plan for Open Science
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January 2017: national strategy
100%->2024

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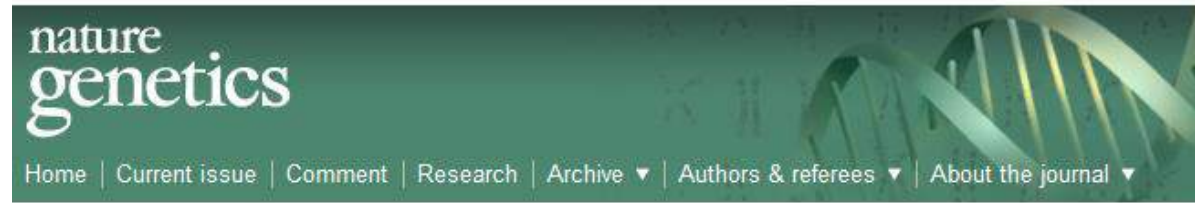
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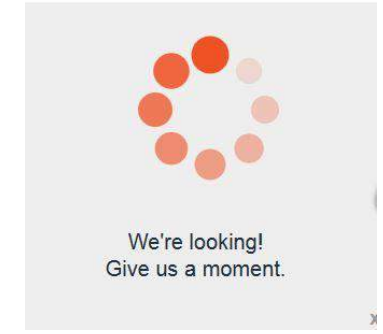
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NATURE GENETICS | NEWS AND VIEWS

日本語要約

New genomes clarify mimicry evolution

James Mallet

Nature Genetics 47, 306–307 (2015)

doi:10.1038/ng.3260

Published online 27 March 2015

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News & Views:

New butterfly genomes clarify mimicry evolution

[Pre-publication version. A heavily edited version was published as: Mallet, J. (2015). "New genomes clarify mimicry evolution." *Nature Genetics* 47(4): 306-307.]

<http://www.oeb.harvard.edu/faculty/mallet/publications.html>

James Mallet

*For over 100 years it has been known that mimicry polymorphisms are often switched by simple Mendelian factors. Yet the physical nature of these loci has hitherto escaped characterization. The sequencing of two swallowtail butterfly (*Papilio*) genomes marks the latest episode of an extraordinary few years of discoveries in mimicry genetics.*



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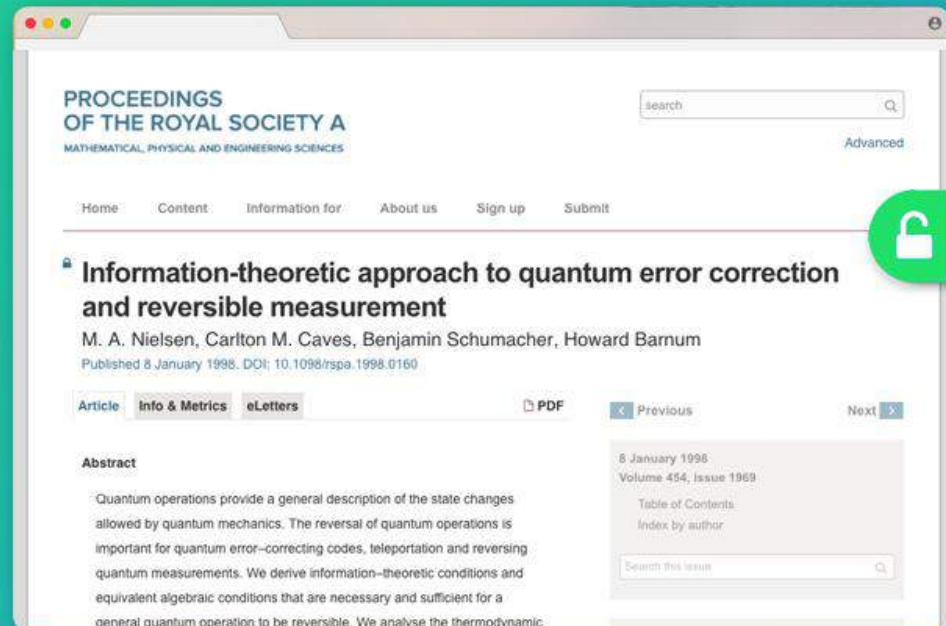


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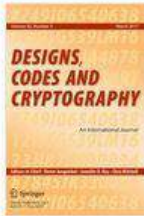
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Designs, Codes and Cryptography

March 2017, Volume 82, Issue 3, pp 663–674

Complete weight enumerators of a family of three-weight linear codes

Authors

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Shudi Yang, Zheng-An Yao

Article

First Online: 18 February 2016

DOI: 10.1007/s10623-016-0191-x

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Abstract

Linear codes have been an interesting topic in both theory and practice for many years. In this paper, for an odd prime p , we present the explicit complete weight enumerator of a family of p -ary linear codes constructed with defining set. The weight enumerator is an immediate result of the complete weight enumerator, which shows that the codes proposed in this paper are three-weight linear codes. Additionally, all nonzero codewords are minimal and thus they are

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Computer Science > Information Theory

Complete Weight Enumerators of a Family of Three-Weight Linear Codes

Shudi Yang, Zheng-An Yao

(Submitted on 4 Sep 2015 (v1), last revised 14 Dec 2015 (this version, v2))

Linear codes have been an interesting topic in both theory and practice for many years. In this paper, for an odd prime p , we present the explicit complete weight enumerator of a family of p -ary linear codes constructed with defining set. The weight enumerator is an immediate result of the complete weight enumerator. Additionally, all nonzero codewords are minimal and thus they are suitable for secret sharing.

Comments: 13 pages. arXiv admin note: text overlap with arXiv:1505.06326

Subjects: Information Theory (cs.IT)

MSC classes: 94B15, 11T71

Cite as: arXiv:1509.01371 [cs.IT]

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Complete Weight Enumerators of a Family of Three-Weight Linear Codes

Shudi Yang - Zheng-An Yao

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Abstract. Linear codes have been an interesting topic in both theory and practice for many years. In this paper, for an odd prime p , we present the explicit complete weight enumerator of a family of p -ary linear codes constructed with defining set. The weight enumerator is an immediate result of the complete weight enumerator, which shows that the codes proposed in this paper are three-weight linear codes. Additionally, all nonzero codewords are minimal and thus they are suitable for secret sharing.

Keywords. Linear code - Complete weight enumerator - Gaussian period - Gauss sum

Mathematics Subject Classification (2010). 94B15 - 11T71



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Materials Science and Engineering: A

Volume 677, 20 November 2016, Pages 540-548



High temperature mechanical behavior of tube stackings – Part I: Microstructural and mechanical characterization of Inconel® 600 constitutive material

V. Marcadon ^a, C. Davoine^a, D. Lévêque^a, A. Rafray^a, F. Popoff^a, N. Horezan^a, D. Boivin^a

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High temperature mechanical behavior of tube stackings - Part I: Microstructural and mechanical characterization of Inconel 600 constitutive material

V. Marcadon¹, C. Davoine¹, D. Lévêque¹, A. Rafray¹, F. Popoff¹, N. Horezan¹, D. Boivin¹ [Détails](#)

¹ Chatillon - ONERA - The French Aerospace Lab

Abstract : This paper is the first part of a set of two papers dedicated to the mechanical behavior of cellular materials at high temperatures. For that purpose, cellular materials made of brazed tube stacking cores have been considered here. This paper addresses the characterization of the elasto-viscoplastic properties of the constitutive material of the tubes, Inconel 600, by means of tensile tests. Various temperatures and strain rates were investigated, from room temperature to 800°C, in order to study the influence of both the brazing heat treatment and the test temperature on the mechanical properties of Inconel 600. Whereas the heat treatment drastically decreases the strength of the tubes, a significant viscous effect is revealed at 800°C. Electron backscattered diffraction analyses carried out post-mortem on samples showed that both dynamic recrystallization and recovery occurred during tensile tests performed at 800°C, especially at lower strain rates. In contrast, a highly deformed and textured microstructure was observed for the tubes loaded at lower temperatures.



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High temperature mechanical behavior of tube stackings - Part I: Microstructural and mechanical characterization of Inconel®600 constitutive material

V. Marcadon^{*}, C. Davoine, D. Lévêque, A. Rafray,

F. Popoff, N. Horezan and D. Boivin

Onera - The French Aerospace Lab,

F-92322 Châtillon, France.

September 16, 2016

Abstract

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