



THE SCHOLARLY PUBLISHING
& ACADEMIC RESOURCES COALITION
21 Dupont Circle NW, Suite 800
Washington, DC 20036
(202) 296-2296
www.arl.org/sparc

The Landscape of Open Access

Julia C. Blixrud

Assistant Director, Public Programs, SPARC

Rapid Pace of New Technological Developments

BusinessWeek

MARCH 2, 2004

Tearing Down the Walls in Telecom

In a few years, it "will be a sectorless industry," with phone, cable, and even power companies all selling the same communications services...

BBC NEWS

May 28, 2004

Downloads 'fuel music recovery'

The beleaguered global music industry says it expects to see an increase in music sales next year.

InformationWeek
BUSINESS INNOVATION POWERED BY TECHNOLOGY

Bound For Industry Upheaval— With A Layover In Dallas

June 7, 2004

The Internet continues to drive change in the travel-reservation business, and Sabre is sure to be in the middle of it.



iTunes



The Research Environment



the stoa consortium



Opportunity for Change

New models born of the Web

- Availability of digital publishing technologies
- Availability of ubiquitous network
- Economics of the Internet -- low marginal cost of dissemination

Data Sharing

THE GLOBE AND MAIL

Canada - Apr 15, 2003

Canadian researchers put SARS data on Web

VANCOUVER — The Vancouver researchers who mapped the genetic sequence of the virus believed to cause SARS have put their data on the Internet.

Societal Concerns

Flu researchers slam US for hoarding data

LONDON, Sept 21 (Reuters) - Influenza researchers are being hindered in their work by the United States' disease control agency's reluctance to share data, according to the journal *Nature*.

Impetus for Change

**Societal Benefits
Develop Public Policy**

**SCHOLARLY
COMMUNICATION SYSTEM**

**Market Forces
Grassroots Efforts**

SPARC's Strategy

SPARC's strategy aims to advance a more open system of scholarship by reducing barriers to access, sharing, and use of scholarship - and in particular, scientific research.

SPARC's Program Areas

- **Educating** stakeholders about the problems facing scholarly communication and the opportunities for change;
- **Incubating** real-world demonstrations of business and publishing models that advance changes benefiting scholarship and academe;
- **Advocating** policy changes that support use of technology to advance scholarly communication, and recognize that dissemination is an essential inseparable component of the research process

Focus on Open Access

- Immediate free electronic availability of research that scholars produce without expectation of payment
- A *vision* of scholarly communication in the networked digital environment where:
 - User tolls barriers to research access are eliminated
 - Potential usage is maximized
 - Value of research is more fully realized
 - Dysfunctions in the legacy system are addressed
- An *access* model, not a business model

“Open Access” Strategies

Two main approaches:

1. **Open-access journals** – require alternative business models to replace subscription-based models
2. **Open-access archives** – publicly available digital repositories, exist alongside traditional publishing

First Open Access Statements

Budapest Open Access Initiative

www.soros.org/openaccess/

Bethesda Statement on Open Access Publishing

www.earlham.edu/~peters/fos/bethesda.htm

The Wellcome Trust

www.wellcome.ac.uk/en/1/awtvispolpub.html

Berlin Declaration on Open Access to Knowledge in the
Sciences and Humanities

www.zim.mpg.de/openaccess-berlin/berlindeclaration.html

What Open Access Can Achieve

- Expand information usage and application
- Remove barriers that make content scarce
- Weaken the position of publishers that use their monopoly position to support excessively high prices
- Focus economic return on value addition (rather than content control)
- Eliminate systemic inefficiencies by unbundling functions
- Introduce price competition

Benefits outweigh dislocations

Open Access Enhances Impact

<http://opcit.eprints.org/oacitation-biblio.html>



Effect of open access on citation impact: a b...

Address: <http://opcit.eprints.org/oacitation-biblio.html> go

OpCit
project

The Open Citation Project - Reference Linking and Citation Analysis for Open Archives

See also [Papers produced by the project](#)

The effect of open access and downloads ('hits') on citation impact: a bibliography of studies

Despite significant growth in the number of research papers available through open access, principally through author self-archiving in institutional archives, [it is estimated that only c. 20% of the number of papers published annually are open access](#). It is up to the authors of papers to change this. Why might open access be of benefit to authors? One universally important factor for all authors is impact, typically measured by the number of times a paper is cited. **Studies have begun to show that open access increases impact**, although more studies and more substantial investigations are needed to confirm the effect.

This chronological bibliography is intended to describe progress in reporting these studies; it also lists the Web tools available to measure impact. It is a focused bibliography, on the relationship between impact and access. It does not attempt to cover citation impact, or other related topics such as open access, more generally, although some key papers in these areas are listed as starting points for wider study.

Last updated 29 September 2004; first posted 15 September 2004. Please [email](#) additions, corrections or comments to Steve Hitchcock.

Studies with original data

Highlights

[Lawrence \(2001\)](#) was the first to publish data recognising the trend for online publication to increase impact, confirmed for open access papers by the work of the Open Citation Project based on arXiv (e.g. [Harnad and Brody, D-Lib, 2004](#)), and by Kurtz *et al.* ([2004a, 2004b](#)) looking at the NASA Astrophysics Data System. Commenting on Harnad and Brody (*D-Lib*, 2004) in *Open Access News*, [Peter Suber said](#):

Link: <http://opcit.eprints.org/opcitpapers.shtml>

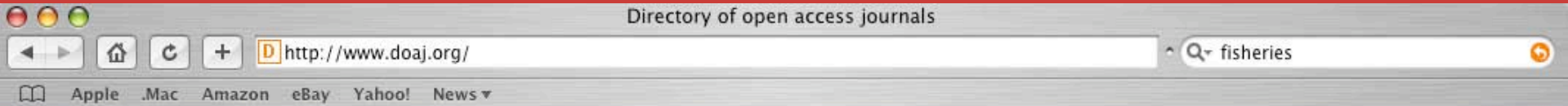


Open Access Models (Willinsky)

- Eprint Archive
- Unqualified
- Dual Mode
- Delayed OA
- Author Fee
- Partial OA
- Per Capita
- Abstract
- Coop

Open Access Journals on the Increase

Directory of open access journals



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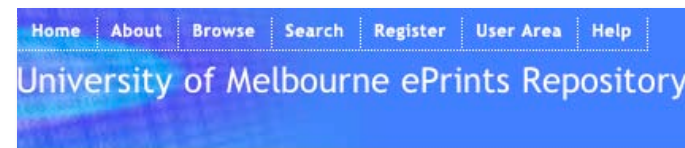
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Open Access Archives



Automated e-print archives

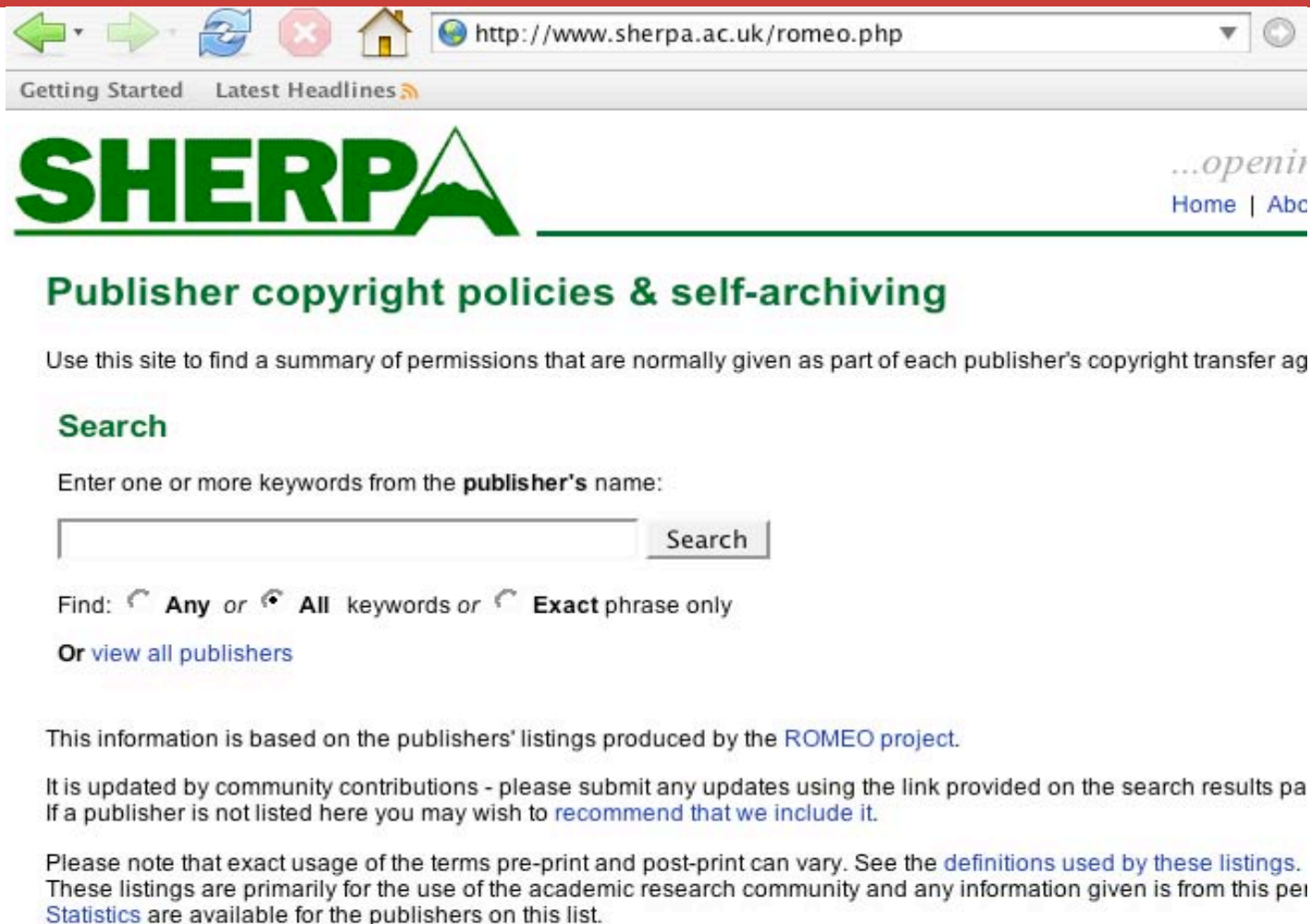
11 Oct 2005: Software reversion to restore arXiv stability.
7 Sep 2005: Proposed physics reorganization scheme announced.
For more info, see cumulative "What's New" pages.
Robots Beware: indiscriminate automated downloads from this site are *not* permitted.



...exist alongside traditional publishing



Depositing Articles in Archives



The screenshot shows a web browser window with the URL <http://www.sherpa.ac.uk/romeo.php>. The page features the SHERPA logo and navigation links for 'Getting Started' and 'Latest Headlines'. The main heading is 'Publisher copyright policies & self-archiving'. Below this, there is a search section with a text input field and a 'Search' button. The search options are 'Any', 'All', and 'Exact phrase only', with 'All' selected. A link 'Or view all publishers' is also present. The page includes a disclaimer stating that the information is based on the ROMEO project and is updated by community contributions. It also notes that exact usage of terms like 'pre-print' and 'post-print' can vary and provides a link to 'definitions used by these listings'. Finally, it mentions that 'Statistics are available for the publishers on this list'.

Getting Started Latest Headlines

SHERPA

...opening
Home | [Abc](#)

Publisher copyright policies & self-archiving

Use this site to find a summary of permissions that are normally given as part of each publisher's copyright transfer agreement.

Search

Enter one or more keywords from the **publisher's** name:

Find: Any or All keywords or Exact phrase only

[Or view all publishers](#)

This information is based on the publishers' listings produced by the [ROMEEO project](#).

It is updated by community contributions - please submit any updates using the link provided on the search results page. If a publisher is not listed here you may wish to [recommend that we include it](#).

Please note that exact usage of the terms pre-print and post-print can vary. See the [definitions used by these listings](#). These listings are primarily for the use of the academic research community and any information given is from this period. [Statistics](#) are available for the publishers on this list.

Issues of Open Access

- Reward structures
- Peer review
- Funding organizations
- Business models
- Changing patterns of access to scholarly information
- Copyright and intellectual property
- Author self-interest in and ability in archiving research papers

Societies & Open Access

- Societies were pioneers in open access
 - *Optics Express*
 - *New Journal of Physics*
 - *Molecular Biology of the Cell*
- Estimated 20% of titles in *Directory of Open Access Journals* from societies
- Open access a means of driving high impact
- But most societies skeptical of converting subscription journals to open access
 - Fear loss of publishing surpluses
 - Open access decision easier when society has diversified revenue base

Open Access Resources

- SPARC Open Access Newsletter
www.arl.org/sparc/soa/index.html
- Guide to Business Planning for Converting a Subscription-based Journal to Open Access
www.soros.org/openaccess/oajguides/html/business_converting.htm
- Guide to Business Planning for Launching a New Open Access Journal
www.soros.org/openaccess/oajguides/html/business_planning.htm
- Directory of Open Access Journals
www.doaj.org/

Making Publicly Funded Research Results Accessible



Scientists want research papers freely available

Aug. 30, 2004 –Twenty-five Nobel Prize-winning scientists today are calling for the government to make all taxpayer-funded research papers freely available.

"Science is the measure of the human race's progress," scientists say in a letter to Congress and the National Institutes of Health.



"The status quo is not an option," **NIH Director Elias A. Zerhouni** said last week at a meeting on the agency's Bethesda campus.

...

"**Sen. Arlen Specter** (R-Pa.) says he hopes a reasonable policy will emerge on open access."

Current Advocacy Efforts

- National Institutes of Health (NIH) Public Access Policy - targeted work to ensure successful implementation
 - Goals of the policy: access, archive, advancement of science, accountability
 - Current implementation: requests deposit of final manuscript within one year of publication
 - Recommended change: Require deposit of final published version within 6 months

Current Advocacy Efforts

- US Center for Cures Bill (introduced Dec 05)
 - New agency within NIH
 - Mandates Open Access
- Federal Research Public Access Act (introduced May 2006)
 - Spans 10 major research agencies with \$100M+ research budgets
 - Requires deposit of final manuscript within six months of publication

“Taxpayer Access”

THE ALLIANCE FOR TAXPAYER ACCESS



member



media

birds
of a
feather



Action

Watch for opportunities or recent progress involving:

- [U.S. Congress](#)
- [NIH](#)
- [ATA](#)
- [You](#)

News

These sources will keep you updated on the latest developments related to taxpayer access:

- [SPARC Open Access Newsletter](#)
- [Open Access News blog](#)

A diverse and growing alliance of organizations representing taxpayers, patients, physicians, researchers, and institutions that support open public access to taxpayer-funded research.

Statement of Principles:

1. American taxpayers are entitled to open access on the Internet to the peer-reviewed scientific articles on research funded by the U.S. Government.
2. Widespread access to the information contained in these articles is an essential, inseparable component of our nation's investment in science.
3. This and other scientific information should be shared in cost-effective ways that take advantage of the Internet, stimulate further discovery and innovation, and advance the translation of this knowledge into public benefits.
4. Enhanced access to and expanded sharing of information will lead to usage by millions of scientists, professionals, and individuals, and will deliver an accelerated return on the taxpayers' investment.

Recent News:

What is “Taxpayer Access”?

Access to scientific and medical publications has lagged behind the wide reach of the Internet into U.S. homes and institutions. Subscription barriers limit U.S. taxpayer access to research that has been paid for with public funds.

Taxpayer access removes these barriers by making the peer-reviewed results of taxpayer-funded research available online, and for no extra charge to the American public.

To achieve this, the ATA supports applying the developing practices of Open Access as defined by the [Budapest Open Access Initiative](#) in February 2002.

Retaining Rights

SPARC AUTHOR'S ADDENDUM TO PUBLICATION AGREEMENT

THIS ADDENDUM hereby modifies and supplements the attached Publication Agreement concerning the following Article:

_____ (manuscript title)

_____ (journal name)

The parties to the Publication Agreement and to this Addendum are:

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_____.

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_____ (the Publisher).














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Contact SPARC

The Scholarly Publishing and Academic
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21 Dupont Circle, Suite 800

Washington DC 20036

202.296.2296

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