



A Review on Current Development of Open Access and Its Implications for Scholarly Communication

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Computing Centre, Academia Sinica

PNC 2005 Annual Conference in Conjunction with PRDLA, ECAI
University of Hawaii at Manoa, Hawaii, USA
3 Nov. 2005



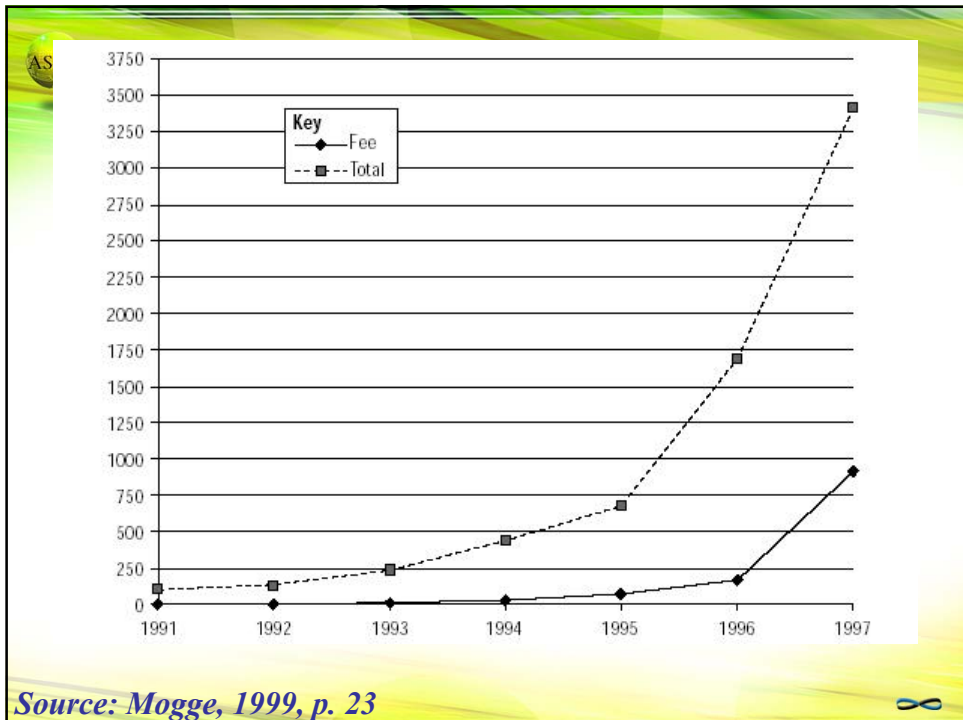
Outline

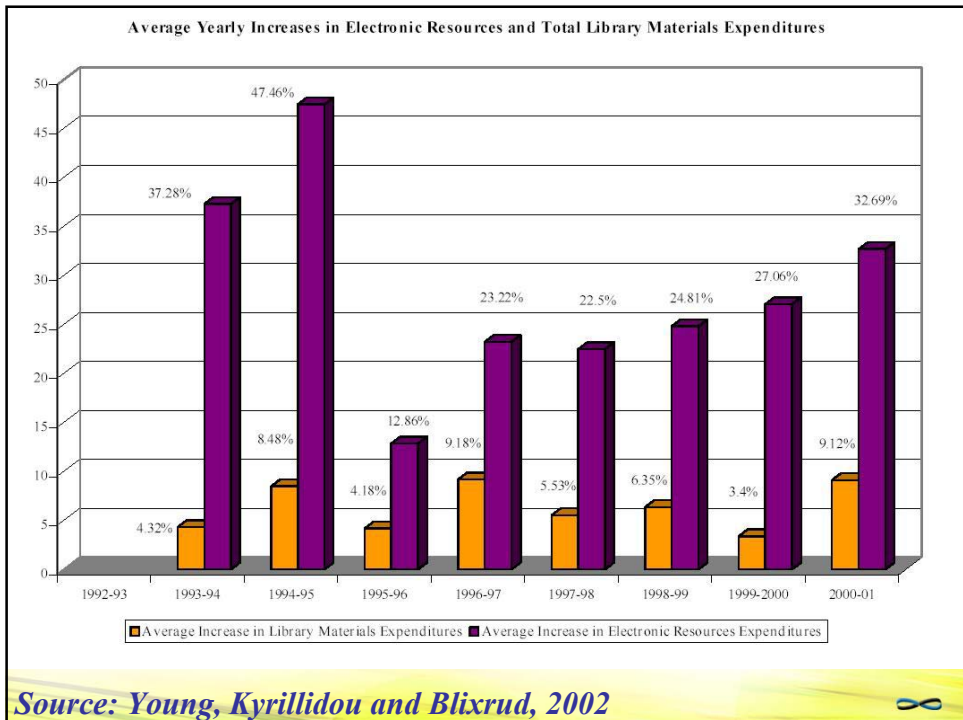
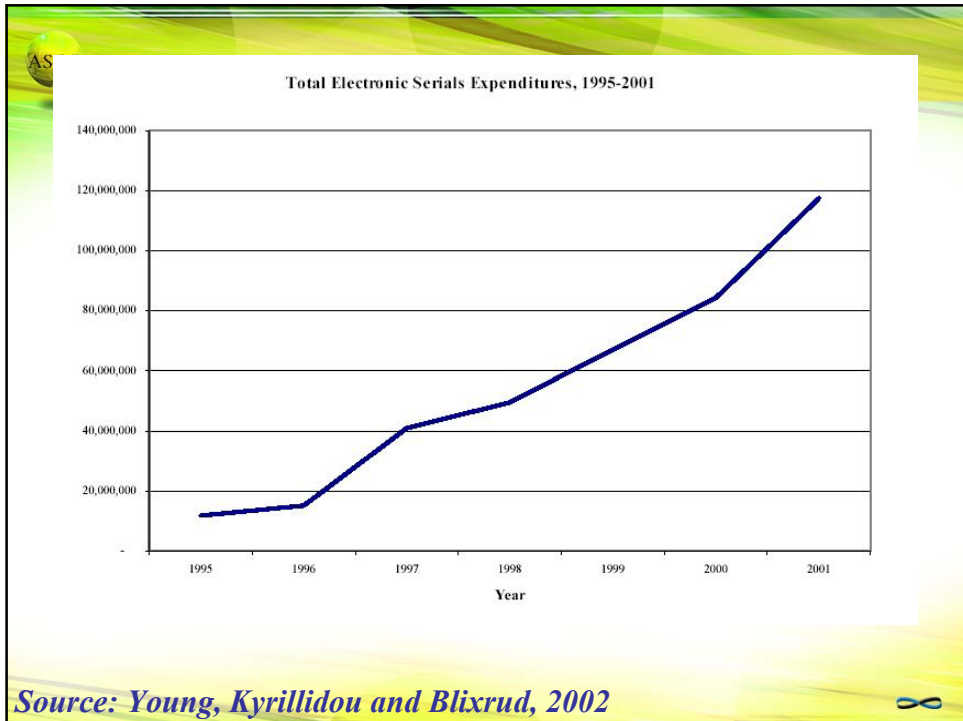
- **Origins**
- **Definition**
- **Significant Statements and Documents**
- **Current Development**
- **Data Analysis of DOAJ**
- **Findings**
- **Related issues**
 - **Response from authors and publishers**
 - **Quality Assurance and Validation System**
- **Conclusion and Suggestion**





Origins





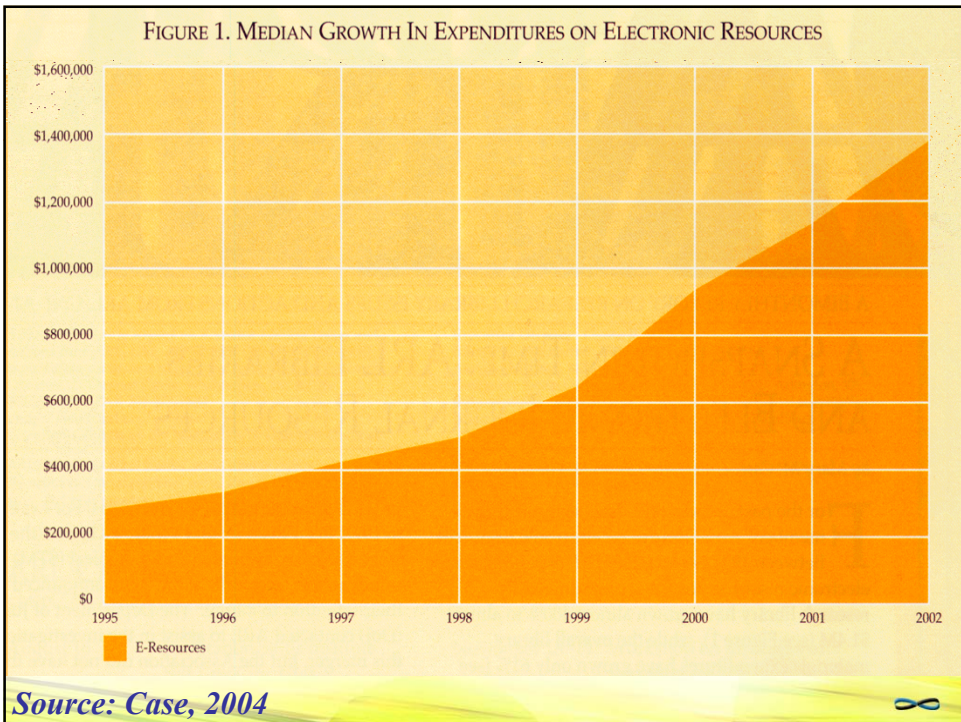
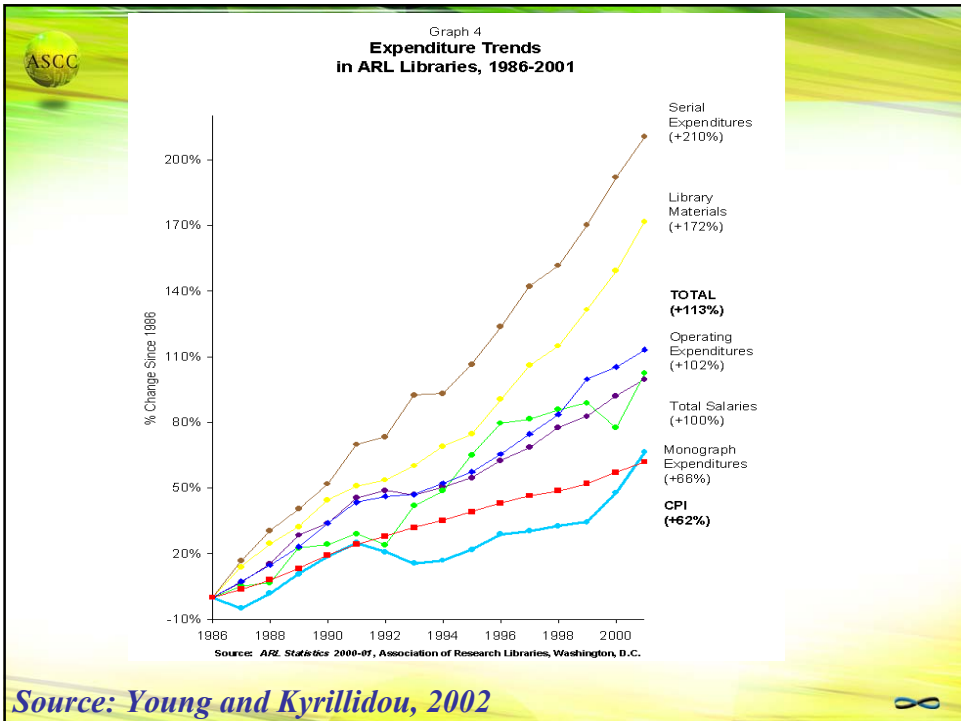
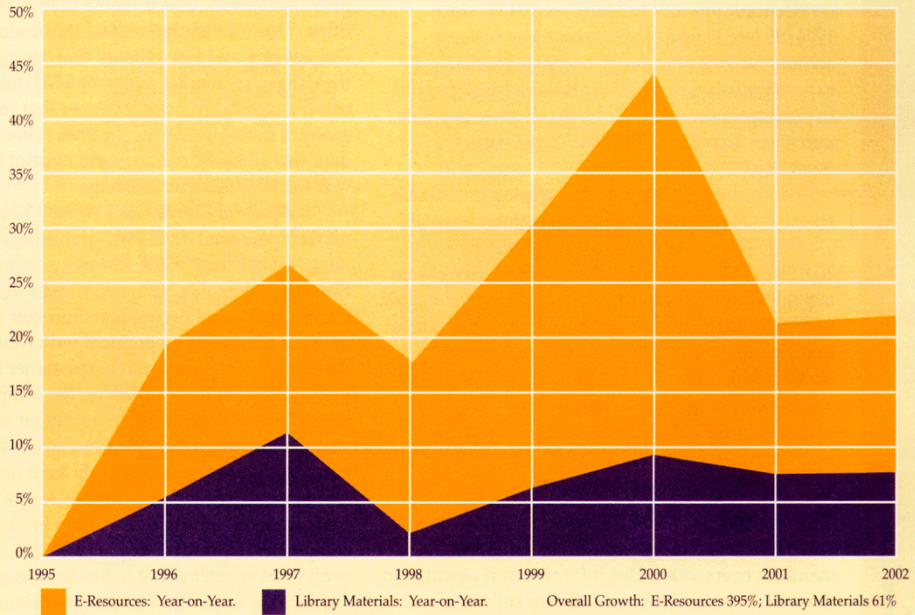


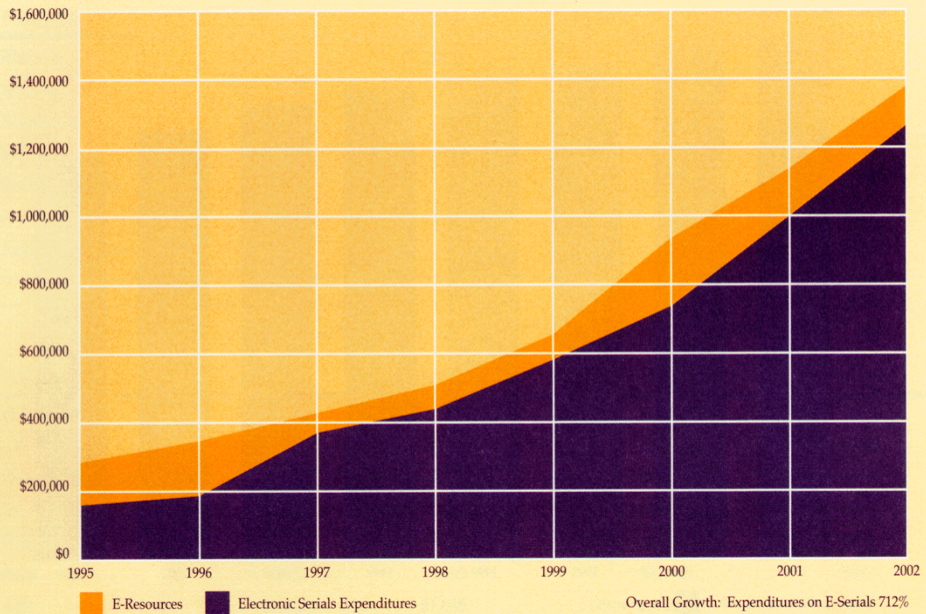
FIGURE 2. AVERAGE ANNUAL PERCENT CHANGE IN EXPENDITURES



Source: Case, 2004



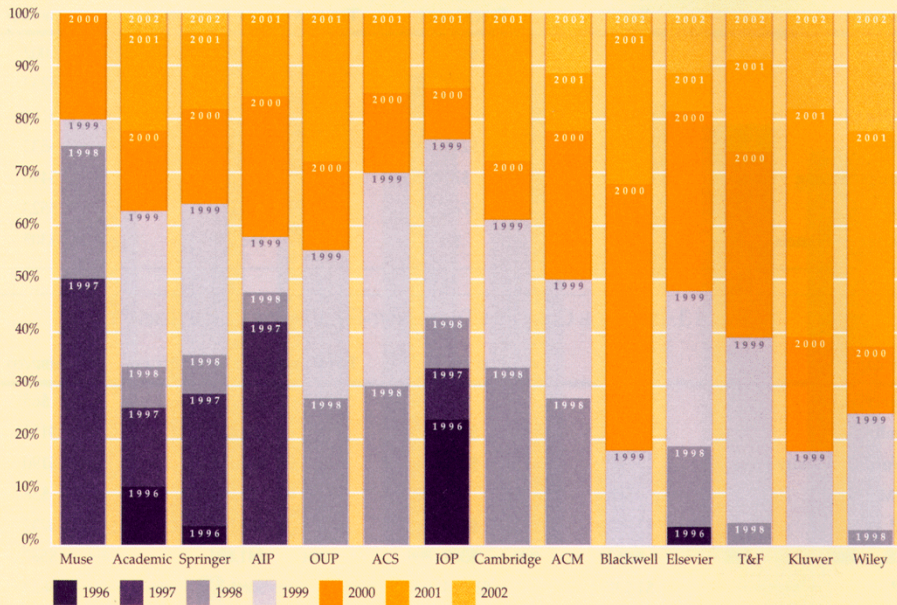
FIGURE 3. MEDIAN EXPENDITURES ON ELECTRONIC SERIALS



Source: Case, 2004



FIGURE 5. UPTAKE OF ELECTRONIC JOURNALS



Source: Case, 2004



Price Spectrum of Journals

Blackwell: \$169

Elsevier: 1,002



Project Muse: \$65

AIP: \$823



Source: Case, 2004



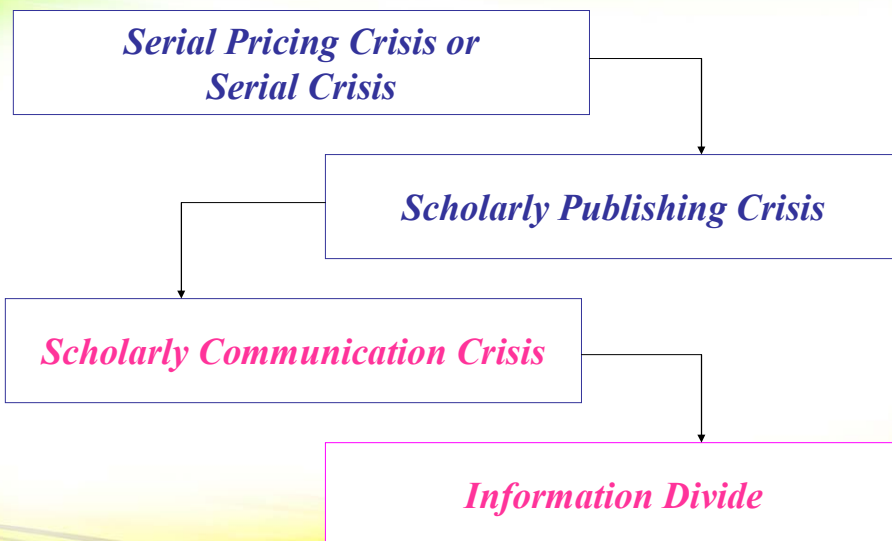


Incentives for Serial Crisis

- **Ann Okerson (1989)** raised three points listed in Report of the ARL Serials Prices Project
 - The consumer problem: be vigilant on high-priced materials, rather than passive archives of everything published.
 - The systematic problem: current serials publishing system is strained to its limits, and changes are necessary.
 - The classic economic problem: academic serials represent a natural monopoly product.
- **Kenneth Frazier (2001)** pointed the big deal
 - Is an online aggregation of journals that publishers offer as a one-price, one size fits all package.
 - Weakening that collection with journals we neither need nor want
 - Increasing our dependence on publishers.



Potential Correlation





OA Pioneer

- **1991**
Paul Ginsparg and arXive as the first eprint for physicists.
- **1994**
Steven Harnad, Subversive Proposal, and ARL's Internet Discussion on "Scientific and Scholarly Journals and Their Future"
- **1999**
Harold Varmus and E-Biomed Proposal



OA Definition

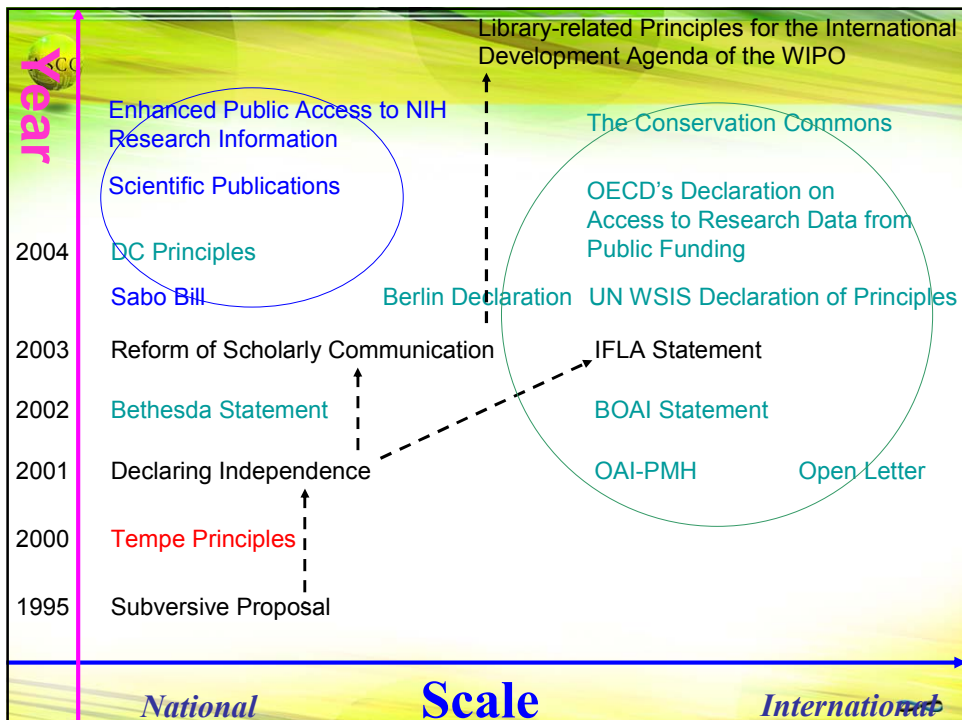
- **BOAI(2002)**
 - *Gold road: Open-access journals*
scholars need the means to launch a new generation of journals committed to open access, and to help existing journals that elect to make the transition to open access.
 - *Green road: Self-Archiving*
scholars need the tools and assistance to deposit their refereed journal articles in open electronic archives, a practice commonly called, self-archiving.





Statements and Documents

- 1995—Subversive Proposal
- 2000—Tempe Principles
- 2001—Declaring Independence
- 2001—Open Letter
- 2001—OAI-PMH
- 2002—BOAI Statement
- 2002—Bethesda Statement
- 2003—Principles and Strategies for the Reform of Scholarly Communication
- 2003—IFLA Statement on Open Access to Scholarly Literature and Research Documentation
- 2003—Sabo Bill
- 2003—Berlin Declaration on Open Access to Knowledge in the Sciences and Humanities
- 2003—UN WSIS Declaration of Principles
- 2004—Washington DC Principles for Free Access to Science
- 2004—OECD's Declaration on Access to Research Data from Public Funding
- 2004—The Conservation Commons
- 2004—Scientific Publications: Free for ALL
- 2004—Enhanced Public Access to NIH Research Information
- 2004—Library-related Principles for the International Development Agenda of the World Intellectual Property Organization





Common Claims of Statements and Docs.


- Publishing is an essential part of research.
- **Fair use** of copyrighted information for educational and research purpose.
- Encouraged to **sharing in data, information and knowledge** in order to facilitate the ideas of innovation and invention for human beings.
- The purpose of ICT is employed to **facilitate the use, innovation and dissemination of knowledge**, rather than control for profit.



Current Development¹ Self-archiving

- Individual based
- Institutional based
- Disciplinary based
- National based
- International based





Individual: Dr. Simon C. Lin

J.T. Moscicki, H.C.Lee, S.Guatelli, S.C. Lin, M.G.Pia "Biomedical Applications on the GRID" Efficient Management of Parallel Jobs, NSS IEEE 2003, Rome, Italy, October 2004 [PDF File](#)

(1)

Simon C. Lin 2004, "World Wide Grid and e-Science in Chinese Taipei" · APEC TEL 30, 19-24 September 2004. Singapore. [PDF File](#)

(2)

Simon C. Lin 2004, "Challenges of e-Science Development in Asia" International Symposium on Grid Computing 2004 (ISGC 2004), 26-29 July, 2004. Taipei Taiwan: Academia Sinica. [PDF File](#)

(3)

Simon C. Lin 2004, "Constructing Next-Generation Research Infrastructure Based on World-Wide-Grid", ICCP6 2004, 23-28 May, 2004. Beijing, China [PDF File](#)

(4)

Simon C. Lin et al. 2004 "A Step Towards a Computing Grid for the LHC Experiments: ATLAS Data Challenge 1, the ATLAS DC1 Task Force." (To be published in Nucl. Instr. and Meth. in Phys.) [PDF File](#)

(5)

Trees-Juen Chuang, Wen-Chang Lin, Hurng-Chun Lee, Chi-Wei Wang, Keh-Lin Hsiao, Zi-Hao Wang, Denny Shieh, Simon C. Lin, and Lan-Yang Ch' ang A Complexity Reduction Algorithm for Analysis and Annotation of Large Genomic Sequences (Genome Research, 13:313-322) (2003). [PDF File](#)

(6)

Ping Yeh, National Taiwan University, Simon Lin, Academia Sinica, Taiwan, International Workshop on Grid Computing and e-Science 2003 Perspective of Grid Computing and e-Science in Taiwan, 21 June (2003). [PDF File](#)

(7)

Hsiao-Ping Hsu, Simon C. Lin and Ulrich H. E, Hansmann Energy landscape Paving for X-ray structure determination of organic molecules, Acta Cryst.. A58, 259-264 (2002) [PDF File](#)

(8)



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Research institutions worldwide use DSpace for a variety of digital archiving needs -- from **institutional repositories (IRs)** to learning object repositories or electronic records management, and more.

DSpace Open Source Community

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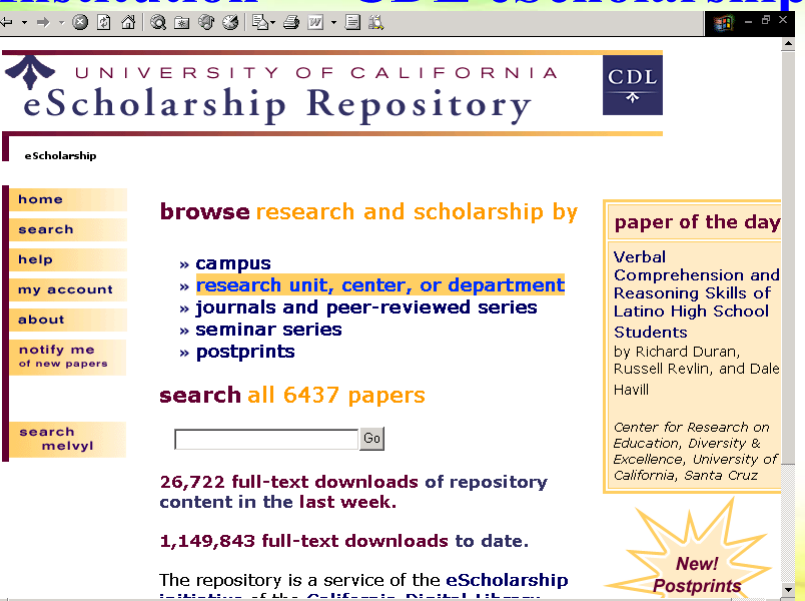
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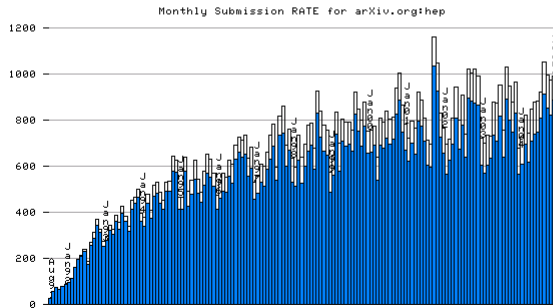


Discipline¹ – arXive

arXiv monthly submission rate statistics, 31 Dec '04

(for the three largest "subject areas":

"hep" = High Energy Physics, "cond-mat" = Condensed Matter Physics, "astro-ph" = Astrophysics)



First 13.4 years (Dec '04 hep total = 91816 + 13262)

Blue - Number of new hep (= hep-th/hep-ph/hep-lat/hep-ex) submissions received during



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Discipline³ — ResearchIndex

ResearchIndex
The NECI Scientific Literature Digital Library

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ResearchIndex is a scientific literature digital library that aims to improve the dissemination and feedback of scientific literature, and to provide improvements in functionality, usability, availability, cost, comprehensiveness, efficiency, and timeliness.

Rather than creating just another digital library, ResearchIndex provides algorithms, techniques, and software that can be used in other digital libraries. ResearchIndex indexes Postscript and PDF research articles on the Web, and provides the following features.

Summary of ResearchIndex (also known as CiteSeer)

Autonomous Citation Indexing (ACI) ResearchIndex uses ACI to autonomously create a citation index that can be used for literature search and evaluation. Compared to traditional citation indices, ACI provides improvements in cost, availability, comprehensiveness, efficiency, and timeliness. For more details, see

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Discipline⁴ — E-LIS

E-LIS

E-prints in Library and Information Science

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Welcome to E-LIS

E-LIS is an open access archive for scientific or technical documents, published or unpublished, on Librarianship, Information Science and Technology, and related application disciplines. The archive's goal is to promote communication in LIS by the rapid dissemination of papers. Eprints for LIS has been established as a community service by RCLIS (Research in Computing, Library and Information Science) to promote open access to papers on these fields. In keeping with the objectives of the EPrints movement and the Free Online Scholarship (FOS) movement, we expect this service to facilitate self-archiving for LIS researchers and long-term preservation of their scholarly

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National¹ - ARROW

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Welcome

The ARROW project will identify and test software or solutions to support best practice institutional digital repositories comprising e-prints, digital theses and electronic publishing.

The ARROW project is funded by the Australian Commonwealth [Department of Education, Science and Training](#), under the Research Information Infrastructure Framework for Australian Higher Education.

The ARROW Project is sponsored as part of the Commonwealth Government's [Backing Australia's Ability](#).

Consortium Members

The ARROW Consortium comprises [Monash University](#) (lead institution), [National Library of Australia](#), the [University of New South Wales](#), and [Swinburne University of Technology](#).

This Site...

This site provides details on the ARROW Project through the navigation links at the top of this page.

See our [list of ARROW repositories](#) at participating institutions, or [take a review of the ARROW search of Australian repositories](#).

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National² - DARE

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DAREnet (repositories)

DAREnet
Since January 2004, the result of the first year of DARE, access to the repository network, has been available in the form of the **DAREnet** ([www.DAREnet.nl](#)). The DAREnet brings together local collections of digital files held by all Dutch universities as well as a number of affiliated institutions, presenting them to users in a uniform manner and thus enabling them to perform searches in [equest repositories](#).

News

[Cream of Science](#)
[After a year preparation: unique national DAREnet now up and running](#)

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National³ – FAIR

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[Information for Project Staff \(2004\)](#)

Focus on Access to Institutional Resources (FAIR) Programme

The [JISC Information Environment](#) is envisaged as a virtual place where members of colleges and universities can deposit and share useful content (eg, research outputs). The current collection of JISC funded content has the potential to grow to embrace both externally generated content from publishers and aggregators and community-generated resources. To achieve the latter, staff and students will need a 'place' or 'places' in which to lodge suitable content and products and a means for exchanging and adding to it. This is an important part of developing a relevant and useful portfolio of resources. The FAIR programme has been developed to create the mechanisms and supporting services to allow this process to prosper and these 'places' to be built. The work of this programme has been inspired by the success of the [Open Archives Initiative](#) (OAI) – a simple mechanism that allows metadata about resources to be harvested into services that can be searched by staff and students.

Proposals for projects in the FAIR programme were invited through [JISC circular 1/02](#).

The results from the FAIR programme are available as a ['FAIR Synthesis' microsite](#).

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International – OAF

open archives forum

open archives

Home

Overview

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OAI-PMH Tutorial

Object Documents

Project Partners

The Open Archives Forum provided a Europe-based focus for dissemination of information about European activity related to open archives and, in particular, to the Open Archives Initiative. The aim of the Forum was to facilitate clustering of IST projects, national initiatives and other parties interested in the open archives approach. In order to do so, the Forum brought interested parties together to build a community of interest, enable exchange of information and establish a web-based European information source for open archives. In addition, the Forum undertook comparative reviews of technical and organisational issues.

Still active for registration and investigation:

>>> [Information Resource Database](#)

The OA-Forum database comprises information about archives, service providers, projects and tools related to the open archives approach.



Current Development² Open Access Journals

- **PLoS—Public Library of Science**
 - **Founded in 2000**
 - **By Dr. Harold Varmus**
 - **Open Letter**
 - **Journals: PLoS Biology, PLoS Medicine, PLoS Computational Biology, PLoS Genetics, and PLoS Pathogens**
 - **2006: PLoS Clinical Trials**



The screenshot shows the PLoS website homepage. At the top, there is a navigation bar with the following links: Home, About PLoS, PLoS Journals, Support PLoS, FAQ, News, Contact, Jobs @ PLoS, and Search. Below the navigation bar, there is a main content area with a large "PLoS PUBLIC LIBRARY of SCIENCE" header. To the left of the main content area is a sidebar with a list of links: PLoS Biology, PLoS Medicine, About PLoS, PLoS Journals, Support PLoS, FAQ, News, Contact, Jobs, and Search. The main content area features a "Download PLoS Materials" button, a "Support PLoS" button, and two buttons for "PLoS Biology" and "PLoS Medicine". Below these buttons, there is a section titled "Announcing New Open-Access Community Journals" with a paragraph of text. At the bottom of the page, there are three buttons for "PLOS COMPUTATIONAL BIOLOGY", "PLOS GENETICS", and "PLOS PATHOGENS".

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Announcing New Open-Access Community Journals: PLoS is embarking on a new phase of its ambitious plan to transform scientific publishing, announcing the 2005 launch of three new open-access journals—*PLoS Computational Biology*, *PLoS Genetics*, and *PLoS Pathogens*. These PLoS Community Journals answer the increasing calls of scientists, scientific societies, and governments around the world for the free and open sharing of discoveries and data through reputable, high-quality, peer-reviewed journals targeted to specific research communities. [Read the *PLoS Pathogens* announcement and previous [press release](#)]

PLOS COMPUTATIONAL BIOLOGY
PLOS GENETICS
PLOS PATHOGENS



Current Develop³ Both of Green and Gold Road

- BioMed Central (BMC)
- Open Society Institute (OSI)
- Public Knowledge Project (PKP)
- PubMed Central (PMC)
- Scholarly Publishing and Academic Resources Coalition (SPARC)
- Scientific Electronic Library Online (SciELO)



BMC¹

BioMed Central
The Open Access Publisher

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Latest editorial board boosted
BMC Evolutionary Biology's Editorial Board has doubled in size. See the [journal's homepage](#) for a full list of board members.

Launch of *Beilstein Journal of Organic Chemistry*
We are pleased to announce that the *Beilstein Journal of Organic Chemistry* will be

Low cholesterol does not increase non-vascular mortality
BMC Medicine 2005, 3:6
A large trial of simvastatin treatment on patients with vascular disease or diabetes has shown that a reduction in cholesterol is not associated with adverse effects on non-vascular mortality or cancer incidence.

Fuzzy bacterial species
BMC Biology 2005, 3:6
Clustering of sequences at seven loci from over 700 strains of the recombinogenic bacteria *Neisseria* gives groupings which correspond to the three most common named species, but the species are 'fuzzy' with some isolates

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Cell 2005 Jan 28 **120**(2):261-73 [abstract on PubMed]
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New Finding

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Fowler SG, Cook D, Thomashow MF
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Justice Initiatives: Human Rights and Justice Sector Reform in Africa
February 2005
This issue of *Justice Initiatives* documents some of the challenges to justice sector reform in Africa today, and the varied responses that interested actors are pursuing. [more](#)
[more publications](#)

Events

Parliamentary Elections in Moldova
National Democratic Institute, Washington, DC
March 24, 2005
The OSI-supported conference addresses election monitoring, assessment, and the implications for democracy in Moldova. [more](#)

OSI Forum: Uzbekistan's Detention of Human Rights Record
OSI-New York
March 22, 2005
OSI hosted a discussion of human rights abuses in Uzbekistan with three legal experts.

News & Announcements

Youth Website Lends Eye, Ear, Pen to Hard-to-Reach Teens
Press Release
March 21, 2005
OSI launches the Youth Media Reporter to document the growing role of youth-produced television, radio, film, and print reporting. [more](#)

Open Letter to the UN: Urgent Need for an Effective Resolution on Darfur
March 18, 2005
OSI's Justice Initiative and seven other human rights organizations sent an open letter to the UN Secretary-General and the members of the UN

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OSI²

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News & Announcements

Open Access Project

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Melissa Hagemann
 Program Manager, Information Program, Open Society Institute
 Tel: + 1-212- 548-0142
 E-mail: mhagemann@sorosny.org

The Open Access Project builds upon the principles outlined in the Budapest Open Access Initiative (BOAI) and aims to assist the international effort to make research articles in all academic fields freely available online. The Open Access Project

- Supports authors and institutions from the OSI region to

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PKP

Public Knowledge Project

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Front Page News

The **Public Knowledge Project** is a federally funded research initiative located at the University of British Columbia in Vancouver, Canada. It seeks to improve the scholarly and public quality of academic research through innovative online environments. [More...](#)

The Fruits of PKP Research

Since 2001, the Public Knowledge Project has offered free, open source software for the management and publishing of journals and conferences. [Open Journal Systems](#) and [Open Conference Systems](#) are being used in various places around the world to reduce publishing costs, improve management, enhance indexing, and increase access to knowledge on a global scale. See [Demos and Downloads](#) for more information about these systems.

What's New with PKP

- ▶ **OJS 1.1.8 Released (08/19/04)**
[Open Journal Systems 1.1.8](#) has added, thanks to a growing community of OJS supporters, French and Spanish to its [multilingual](#) capacities (in addition to Portuguese and English). Also, [OJS](#) now supports "delayed open access" (e.g. provided 6 months after subscription access to an issue).
- ▶ **Grant Awarded with NCSI, Bangalore (07/30/04)**
 T. B. Rajashekar, [National Centre for Science Information](#), and John Willinsky were awarded a Pan Asia R&D Grant from [International Development Research Council \(IDRC\)](#) for "Scientific Journal Publishing in India: Indexing and Online Management."
- ▶ **Open Journal Systems 1.1.7 Released (06/14/04)**



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SPARC

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SPARC®, the Scholarly Publishing and Academic Resources Coalition, is an alliance of academic and research libraries and organizations working to correct market dysfunctions in the scholarly publishing system. Developed by the Association of Research Libraries, SPARC has become a catalyst for change. Its pragmatic focus is to facilitate the emergence of systems that capitalize on the networked environment to disseminate research. Its strategies expand competition and support open access to address the high and rising cost of scholarly journals, especially in science, technology, and medicine—a trend which inhibits the advancement of scholarship.

What's New!

- SPARC at ACRL 12th National Conference:
 - April 7–10, 2005, Minneapolis, Minn.
 - Building a Successful Institutional Repository: An Introduction for Smaller Libraries**
Workshop to be held at the ACRL 12 Annual Conference that stresses the "how-to" and working within limited resources. Friday, 2:30–6:30 p.m., MCC M100FG
 - What If Open Access Scholarly Publishing Succeeds? Implications for the Role and Work of the Academic Library**
SPARC Director and Steering Committee Chairman appear on panel to consider changes resulting from widespread open access. Saturday, 2:00–3:00 p.m., MCC 200CDE


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SciELO The Scientific Electronic Library Online - SciELO is an electronic library covering a selected collection of Brazilian scientific journals.

The library is an integral part of a project being developed by [FAPESP](#) - Fundação de Amparo à Pesquisa do Estado de São Paulo, in partnership with [BIREME](#) - the Latin American and Caribbean Center on Health Sciences Information. Since 2002, the Project is also supported by [CNPq](#) - Conselho Nacional de



Current Development⁴

Miscellaneous

- **Directory of Open Access Journals (DOAJ)**
- **HighWire Press**
- **Knowledge Bank**
- **Open Archives Initiative (OAI)**
- **Open Citation Project (OpCit)**



The screenshot shows the DOAJ website interface. At the top left is the ASCC logo. The main heading is "DOAJ¹". Below this, the text reads "DIRECTORY OF OPEN ACCESS JOURNALS". A navigation menu on the left includes links for "Find journals", "New titles", "Search articles", "Suggest a journal", "About", "Questions & answers", "News", "Cooperation", "Contact", and "For journal owners". The main content area features a welcome message: "Welcome to the Directory of Open Access Journals. This service covers free, full text, quality controlled scientific and scholarly journals. We aim to cover all subjects and languages. There are now **1871** journals in the directory. Currently **461** journals are searchable at article level. As of today **79942** articles are included in the DOAJ service." Below the text is a search box with a "Find journal" button. There are two main navigation sections: "Browse by title" with a list of letters (A-Z) and "Browse by subject" with a list of subject categories: "Agriculture and Food Sciences", "Biology and Life", "Arts and Architecture", and "Business and Economics". An "Expand Subject Tree" link is also present.

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DOAJ²

DOAJ DIRECTORY OF OPEN ACCESS JOURNALS

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Article processing charges, funding, and open access publishing at Journal of Experimental & Clinical Assisted Reproduction
Author: Sills Eric; Vincent Tina; Palermo Gianpiero **Journal:** Journal of Experimental and Clinical Assisted Reproduction (JECAR) **Year:** 2005 **Vol:** 2 **Issue:** 1 **Pages/record No.:** 1

Molecular pain, a new era of pain research and medicine
Author: Gu Jianguo; Zhuo Min; Caterina Michael; MacDermott Amy ; Malmberg Annika; Neugebauer Volker; Yoshimura Megumu **Journal:** Molecular Pain **Year:** 2005 **Vol:** 1 **Issue:** 1 **Pages/record No.:** 1

Annals of General Psychiatry
Author: Fountoulakis Konstantinos **Journal:** Annals of General Psychiatry **Year:** 2005 **Vol:** 4 **Issue:** 1 **Pages/record No.:** 3

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The OLAC Metadata Set and Controlled Vocabularies [\[Abstract/Citations, PDF \]](#)
 5.00 Bird, Steven, Simons, Gary et al (2000-02-04) oai.arXiv.org/astro-ph/0002105
 ... Initiative, and called OLAC -- the Open Language Archives Community. The OLAC Metadata Set and the associated controlled vocabularies facilitate consistent description and focussed searching. We report progress on the metadata set and soliciting input ...

The NASA Astrophysics Data System: Architecture [\[Abstract/Citations, PDF \]](#)
 3.00 Accomazzi, A ; Eichhorn, G ; Kurtz, M J et al (2000-02-04) oai.arXiv.org/astro-ph/0002105
 ... are stored as a corpus of structured documents containing fielded data and metadata, while discipline-specific knowledge is segregated in a set of files ...

Core Services in the Architecture of the National Digital Library for Science Education (NSDL) [\[Abstract/Citations, PDF \]](#)
 2.00 Lagoze, Carl; Arms, William; Gan, Stoney et al (2002-01-29) oai.arXiv.org/cs/0201025

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The OLAC Metadata Set and Controlled Vocabularies

Authors: [Bird, Steven](#), [Simons, Gary](#)

As language data and associated technologies proliferate and as the language resources community rapidly expands, it has become difficult to locate and reuse existing resources. Are there any lexical resources for such-and-such a language? What tool can work with transcripts in this particular format? What is a good format to use for linguistic data of this type? Questions like these dominate many mailing lists, since web search engines are an unreliable way to find language resources. This paper describes a new digital infrastructure for language resource discovery, based on the Open Archives Initiative, and called OLAC -- the Open Language Archives Community. The OLAC Metadata Set and the associated controlled vocabularies facilitate consistent description and focussed searching. We report progress on the metadata set and controlled vocabularies, describing current issues and soliciting input from the language resources community.

Comment: 12 pages, 5 figures

Full Text [PDF](#)
<http://arxiv.org/abs/cs/0105030>
 Proceedings of the ACL/EACL Workshop on Sharing Tools and Resources for Research and Education, Toulouse, July 2001, Association for Computational Linguistics

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[GA](#) Harald Alvestrand. 2001. RFC 3066: Tags for the identification of languages (replaces 1766). [ftp://ftp.isi.edu/in-notes/rfc3066.txt](http://ftp.isi.edu/in-notes/rfc3066.txt).

[GA](#) Eva Bank and Steven Bird. 2001. LDC experimental OLAC service provider. <http://wave ldc.upenn.edu/OLAC/sp->

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 The Annotation Graph Toolkit (AGTK) is a collection of software which facilitates development of linguistic annotation tools. AGTK provides a database interface which allows applications to use a database server for persistent storage. This paper discusses various modes of collaborative annotation ...
 Comment: 8 pages, 6 figures

[The Open Language Archives Community and Asian Language Resources](#) [[Abstract/Citations](#), [PDF](#)]


[null](#)⁺ Bird, Steven, Simons, Gary, Huang, Chu-Ren (2001-10-03) [oai:arXiv.org/cs/0110014](http://oai.arXiv.org/cs/0110014)
 The Open Language Archives Community (OLAC) is a new project to build a worldwide system of federated language archives based on the Open Archives Initiative and the Dublin Core Metadata Initiative. This paper aims to disseminate the OLAC vision to the language resources community in Asia, and to ...
 Comment: 8 pages, 2 figures

[Seven Dimensions of Portability for Language Documentation and Description](#) [[Abstract/Citations](#), [PDF](#)]

[null](#)⁺ Bird, Steven, Simons, Gary (2002-04-10) [oai:arXiv.org/cs/0204020](http://oai.arXiv.org/cs/0204020)
 The process of documenting and describing the world's languages is undergoing radical transformation with the rapid uptake of new digital technologies for capture, storage, annotation and dissemination. However, uncritical adoption of new tools and technologies is leading to resources that are ...
 Comment: 8 pages

[The Open Language Archives Community: An infrastructure for distributed archiving of language resources](#) [[Abstract/Citations](#), [PDF](#)]

[null](#)⁺ Simons, Gary, Bird, Steven (2003-06-10) [oai:arXiv.org/cs/0306040](http://oai.arXiv.org/cs/0306040)
 New ways of documenting and describing language via electronic media coupled with new ways of distributing the results via the



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New ways of documenting and describing language via electronic media coupled with new ways of distributing the results via the World-Wide Web offer a degree of access to language resources that is unparalleled in history. At the same time, the proliferation of approaches to using these new ...
Comment: 10 pages, 2 figures

Extending Dublin Core Metadata to Support the Description and Discovery of Language Resources
[[Abstract/Citations](#), [PDF](#)]
[null](#) * [Burd, Steven](#), [Simons, Gary](#) (2003-08-14) oai:arXiv.org/cs/0308022
As language data and associated technologies proliferate and as the language resources community expands, it is becoming increasingly difficult to locate and reuse existing resources. Are there any lexical resources for such-and-such a language? What tool works with transcripts in this particular ...
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Building an Open Language Archives Community on the OAI Foundation [[Abstract/Citations](#), [PDF](#)]
1 [Simons, Gary](#), [Burd, Steven](#) (2003-02-14) oai:arXiv.org/cs/0302021
The Open Language Archives Community (OLAC) is an international partnership of institutions and individuals who are creating a worldwide virtual library of language resources. The Dublin Core (DC) Element Set and the OAI Protocol have provided a solid foundation for the OLAC framework. However, we ...
Comment: 12 pages


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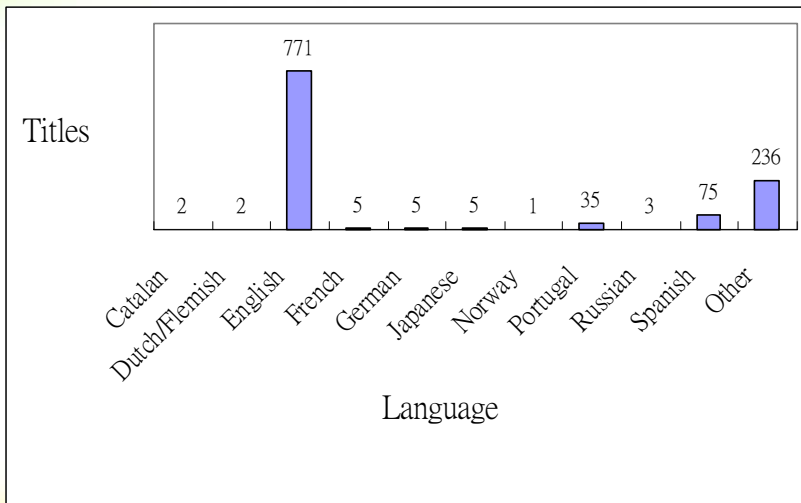
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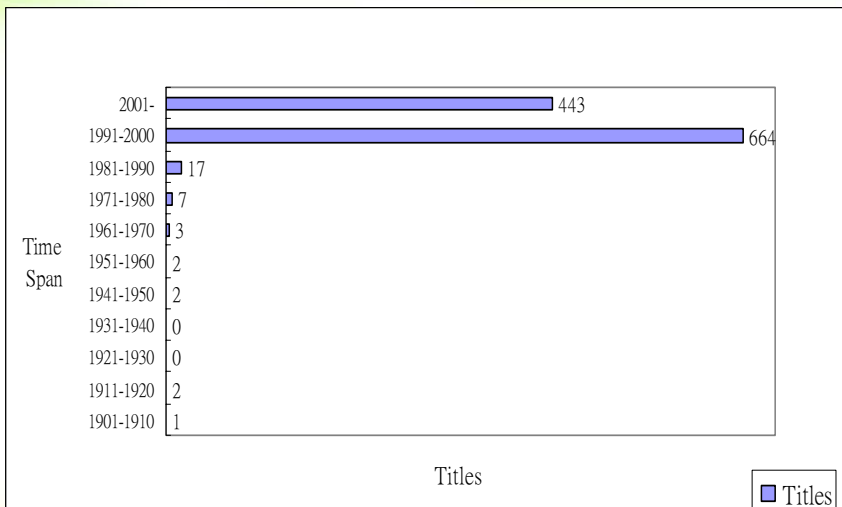




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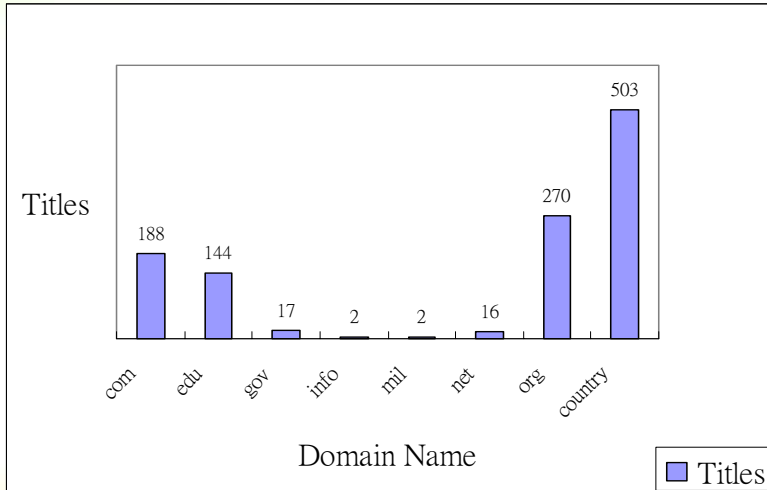


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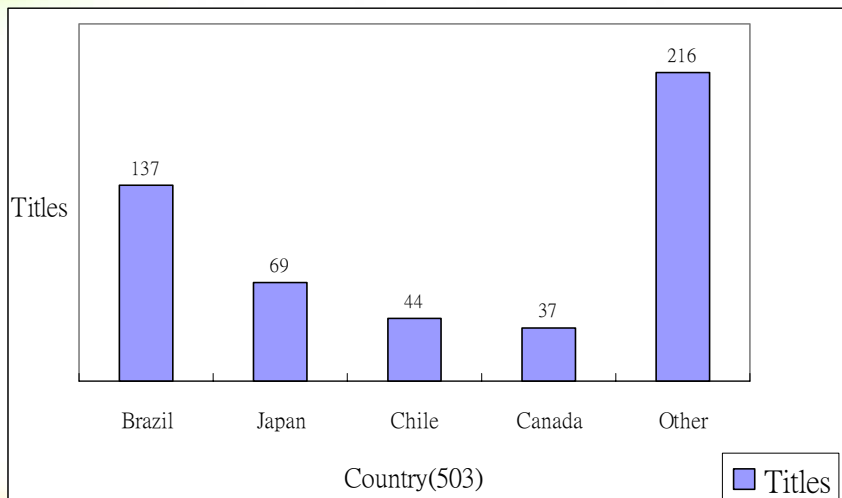




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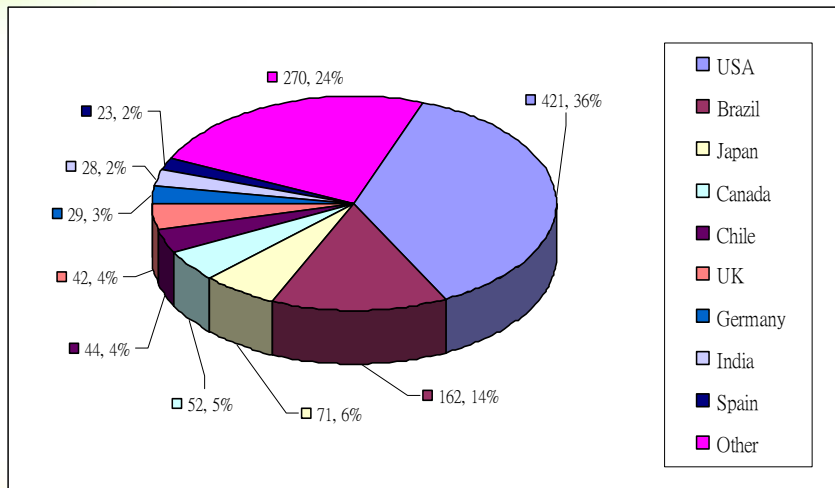


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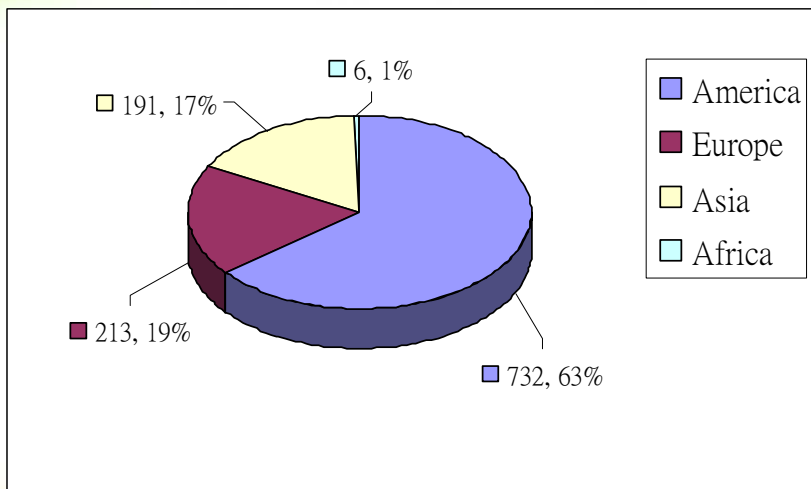




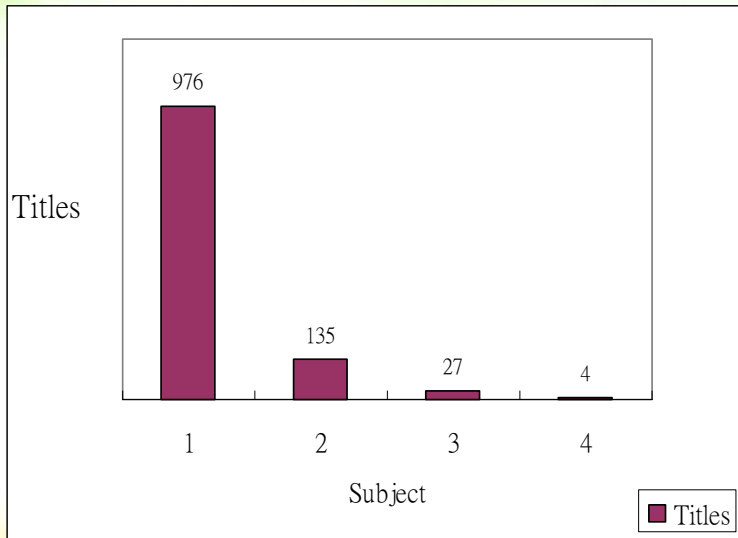
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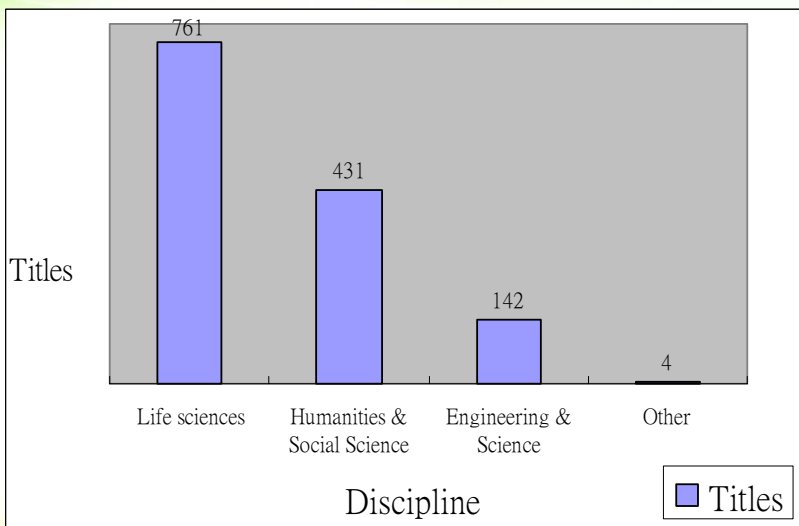
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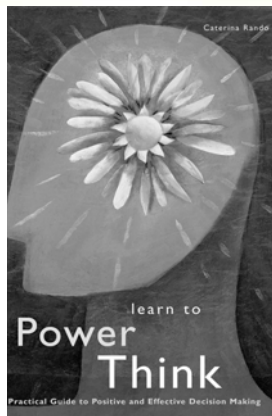


Findings

- **Evolutional Stage**
- **Pattern of OA Development**
- **Development of OAJ (Gold road)**



Evolutional Stage



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2001-2002

2003-





Pattern of OA Development



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Publisher copyright policies & self-archiving

Statistics for the 111 publishers on this list

ROME0 colour	Archiving policy	Publishers	%
green	can archive pre-print and post-print	52	47
blue	can archive post-print (ie final draft post-refereeing)	21	19
yellow	can archive pre-print (ie pre-refereeing)	7	6
white	archiving not formally supported	31	28

Summary: **72%** of publishers on this list formally **allow** some form of self-archiving.

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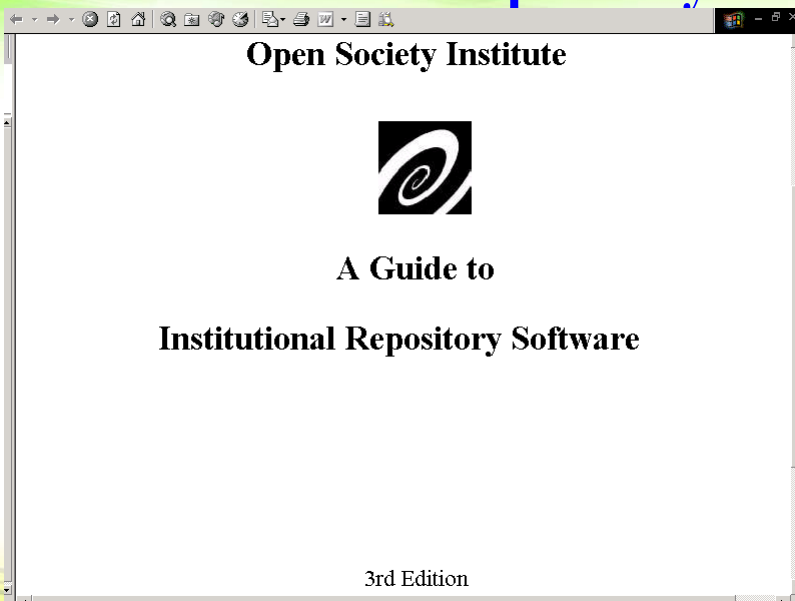



Tools and Techniques

- **Institutional Repository**
- **Open Access Journal**
- **Resource Discovery**
- **Citation Analysis**



Institutional Repository





Open Access Journal

Products & Services

This listing is to provide a resource to institutions, societies, or new publishing ventures that identifies potentially useful technologies. Appearance of products or services on this page is not meant to imply review or certification by SPARC. The products and services are listed under the following headings:

- **Journal Management Systems**
- **Conference Management Software**
- **Data Fabrication Services**
- **Journal Linking**

To read a review of some of the listed products, consult these articles:

Web-based Journal Manuscript Management and Peer-Review Software and Systems, *Library Hi Tech News*, 19(7) (August 2002): 31-43.

Bibliography and Summary: Electronic Peer Review Management, Kam Shapiro, University of Michigan Scholarly Publishing Office.

Online Peer Review: Current Options, Dee Wood, ESPERE Project Manager, *Learned Publishing*, April 2001, Vol. 14, No. 2, pp. 151-158.

Journal Management Systems

AllenTrack, Allen Press

AllenTrack is used for tracking manuscripts and accompanying correspondence through all stages of submission, preparation, and publication. The web-based application will also convert files from the major word processing formats to any of the major web-viewable formats.



Resource Discovery: OAI-PMH



The Open Archives Initiative Protocol for Metadata Harvesting

Protocol Version 2.0 of 2002-06-14
Document Version 2004/10/12T15:31:00Z
<http://www.openarchives.org/OAI/2.0/openarchivesprotocol.htm>

Previous protocol version: [Protocol Version 1.1 of 2001-07-02](#)
[Instructions](#) for migrating from Version 1.1 to 2.0
[Implementation Guidelines](#)

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Resource Discovery: OpenURL

NISO Committee AX

Development of an OpenURL Standard

On this web site, we will keep you up to date on all NISO activities related to the standardization of OpenURL. We want your feedback. Please subscribe to the OpenURL listserv by clicking here and sending the message! Please be sure to follow all instructions in the reply message.

The committee had an extremely productive first face-to-face meeting on June 28-29. Expect significant information to be posted on this website very soon.

Eric F. Van de Velde, Ph.D.
Chair NISO Committee AX
Director of Library Information Technology
California Institute of Technology

■ [Statement from NISO on Patents and the OpenURL standard](#)

The Record

The Record is the official log of Committee AX. Documents are put on the record only after review. No documents are ever removed from the record. However, they are allowed to become obsolete (check the "Obsolete Date" column) and replaced by new versions or new documents (see the "Comments" column).

The Proposed Standard

Demonstrations

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2	The NASA Astrophysics Data System: Architecture	3.00
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Citation Analysis: CiteSeer³

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[Ontology-Based Information Sharing in Weakly Structured... - Stuckenschmidt \(2002\)](#) (Correct)

... key technology for this kind of applications [Fensel, 2001, Uschold and Gruninger, 1996, Gruninger and Uschold, 2002] Successful approaches and applications are reported from the database area where ontologies have been used to enable Intelligent Information Integration (e.g. Arens et al. 1993, **Kashyap and Sheth, 1998**, Levy et al. 1996, Calvanese et al. 1998b, Preece et al. 1999) However, many of these approaches rely on the existence of well established data structures that can be used to analyze and exchange information. There are attempts to extend existing approaches to semi structured information.

... information, however, remains an important research topic called Intelligent Information Integration [Fensel, 1999, Wiederhold, 1996] Problems that might arise due to heterogeneity of the data are already well known within the distributed database systems community (e.g. Kim and Seo, 1991) [**Kashyap and Sheth, 1998**] In general, heterogeneity problems can be divided into three categories: 1. Syntax (e.g. data format heterogeneity) 2. Structure (e.g. homonyms, synonyms or different attributes in database tables) and 3. Semantics (e.g. intended meaning of terms in a special context or application)

[Article contains additional citation context not shown here]

Kashyap, V. and Sheth, A. (1998). *Semantic heterogeneity in global information systems: The role of metadata, context and ontologies*. In Papazoglou, M. P. and Schlageter, G., editors, *Cooperative Information Systems*, pages 139-178. Academic Press, San Diego.

[Practical Context Transformation for Information System. - Wache, Stuckenschmidt \(2001\)](#) (Correct)




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V. Kashyap and A. Sheth. "Semantic Heterogeneity in Global Information Systems: the Role of Metadata, Context and Ontologies". In Cooperative Information Systems: Trends and Directions. Academic Press, 1998.

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[Procs. of ER2003, Chicago, Illinois, Oct. 13-16. - Springer-Verlag. \(2003\)](#) (Correct)

[Ostensive Automatic Schema Mapping for - Taxonomy-Based Peer-To-Peer Systems \(2003\)](#) (Correct)

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[Information System Evolution as Language Evolution - Proper Sub-Faculty Of \(2003\)](#) (Correct)

[A Survey on Information Systems Interoperability - Fileto, Medeiros \(2003\)](#) (Correct)

[Bridging Ontologies and Conceptual Schemas in. - Frederico Fonseca. \(Correct\)](#)

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[Attribute Match Discovery in Information Integration. - David Embley David \(Correct\)](#)

[A Semantic Modeling approach to Metadata - Terje Brasethvik Department \(1998\) \(3 citations\)](#) (Correct)

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Publisher



Pattern of Digital Repository

- **Before 2000: disciplinary orientation**
- **After 2001**
 - **Institutional orientation**
 - **The national and international based repositories are also built up for the accumulation of research outcome on a national or international scale.**





Catalogue Service

- **DOAJ**
- **OpCit Explore Open Archives-Metalist**



Development of OAJ

- **Discipline**
 - 1st: Life Science, 2nd: Humanities and Social Sciences, 3rd: Engineering and Science
- **Language**
 - Western language, English
- **Country**
 - USA
- **Starting Time-Point of Content**
 - Majority: 1991-2000
 - After 2001: under observation





Related Issues

- **Response from Authors and Publishers**
- **Quality assurance and related validation system**



Publisher's response

- **Elsevier (2004)**
 - **By introducing an author-pays model, Open Access risks undermining public trust in the integrity and quality of scientific publications.**
 - **The Open Access business model in its current form has not proven its financial viability.**
 - **For universal access to be a reality, publishers must continue to make articles available in multiple media formats.**





Author's response¹

- A survey has been carried by Key Perspectives Ltd. on behalf of the JISC and OSI between Nov. 2003 and Jan. 2004.
- Sample: 8,059
 - OA: 3,059 authors
 - Traditional journals: 5,000



Author's response²

Agriculture & food science	3%	Earth & geographical sciences	4%
Biomedicine	38%	Psychology	4%
Chemistry & chemical engineering	6%	Social sciences & education	4%
Physics & astronomy	7%	Philosophy & religion	3%
Mathematics & statistics	5%	Law & politics	3%
Computer sciences	5%	Business & management	3%
Engineering	5%	Humanities	10%





Author's response³

- **Submission to OAJ**
 - Free access for all readers.
 - Faster publication times
 - Larger readership
 - Article can be frequently cited.
 - Cost to my institution of non-OAJ
 - Prestigious in my field
 - Influenced by my co-colleagues
 - Object to publishing with a commercial publisher.
 - Attracted by editor or editorial board.
 - OAJs are published by my own institution.
 - Influenced by grant-awarding body.
 - Influenced by my institution.



Author's response⁴

- **Not Submission to OAJ**
 - Not familiar
 - Low impact
 - Low prestige
 - Smaller readership
 - Could not identify any OAJ to publish.
 - Less frequently cited
 - Cannot find funds to pay the publication fee
 - Objection to paying the publication fee
 - Archiving issue
 - Poor peer review
 - Influenced by my co-colleague
 - Satisfied with the current journals.
 - Influenced by my institution
 - Not attracted by editor or editorial board
 - Influenced by grant-awarding body
 - Slower publication time





Author's response⁵

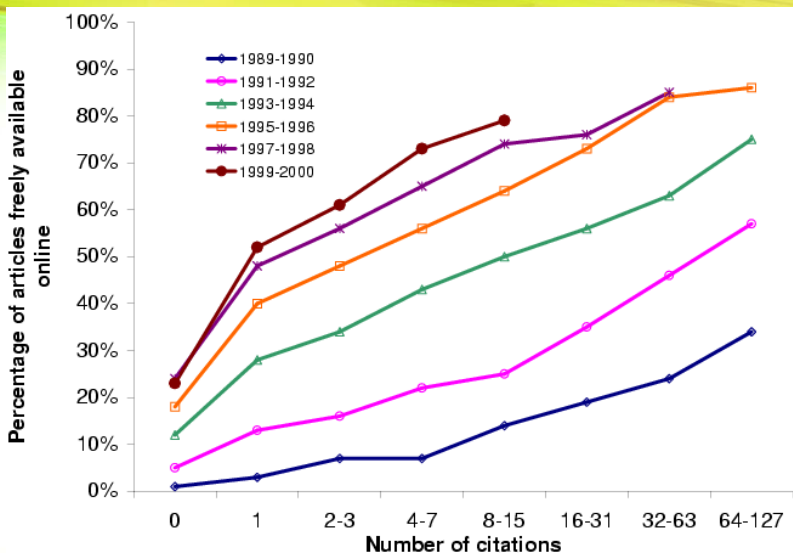
- **Concerning points are consistent and similar as follows:**
 - Readership
 - Cited and Impact
 - Tenure and Promotion
 - Research fund
 - Research career for co-authors
 - Trust of permanent archiving



Quality assurance and Validation System¹

- **ISI (2004) Citation Study**
 - **OAJs have a broadly similar citation pattern to other journals, but may have a slight tendency to earlier citations.**
 - **The wide distribution of OAJs do not necessarily result in higher citations.**
 - **The wide distribution of OAJs have not yet been shown to have any appreciable effect on their appearance in lists of cited references in other journals.**





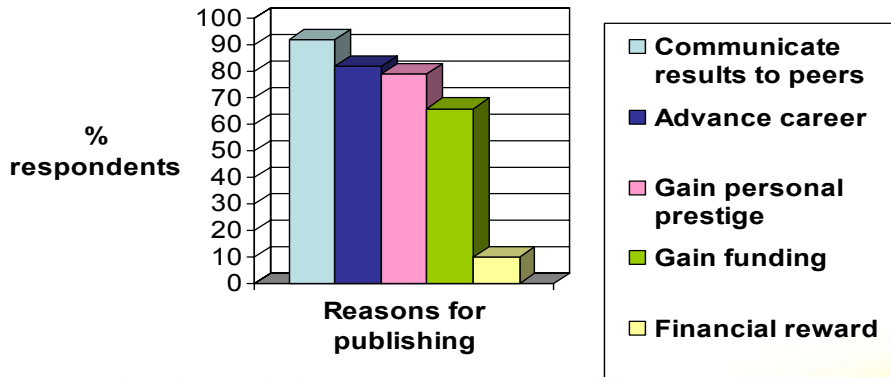
Source: Lawrence, 2001

Quality assurance and Validation System²

- ISI Citation DBs have included and indexed articles of OAJs.
- Two studies from UK and USA pointed out that OA articles have higher impact than traditional journals. (Harnad, and Broday, 2004; Antelman, 2004)
- The trend of impact factor of OA is seemingly focused on articles, rather than on journals (ex. CiteBase and CiteSeer).



Author's needs



Source: Swan, 2005



Function of Journals

<i>Registration</i>	<i>Certification</i>
<i>Awareness</i>	<i>Archiving</i>

Source: Crow, 2002, pp. 7-8





Conclusion and Suggestion

- **Can research output be attributed into the public domain?**
- **What are real author's needs for journals?**
- **Would be possible to offer alternative solution to journals for scholarly communication by adoption of ICT?**



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***Thank for your attention,
and welcome any comments!***

