

Towards Open Access to Research
information : Where does Sri Lanka
Stand?

**Workshop on Open Access to
Research information**

29-30 April, 2013, Colombo

Sunethra Perera
National Science Foundation

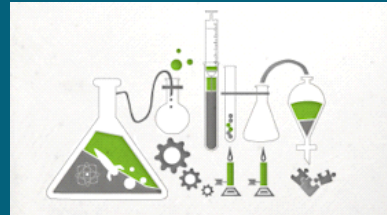
In this presentation

- ⦿ Research infrastructure and research out put / level of visibility
- ⦿ Transition for better visibility
- ⦿ Transition for Open Access
- ⦿ Potential for open access – survey results
- ⦿ Conclusions

Research Infrastructure and out put

Infrastructure

- 15 Universities
- 32 Research/ R & D institutes
- Other S & T Institutions
- Professional Associations



Average Annual output

250-325 papers – international Journals

1000- 1200 – local publications

Out put Formats



VISIBILITY ???

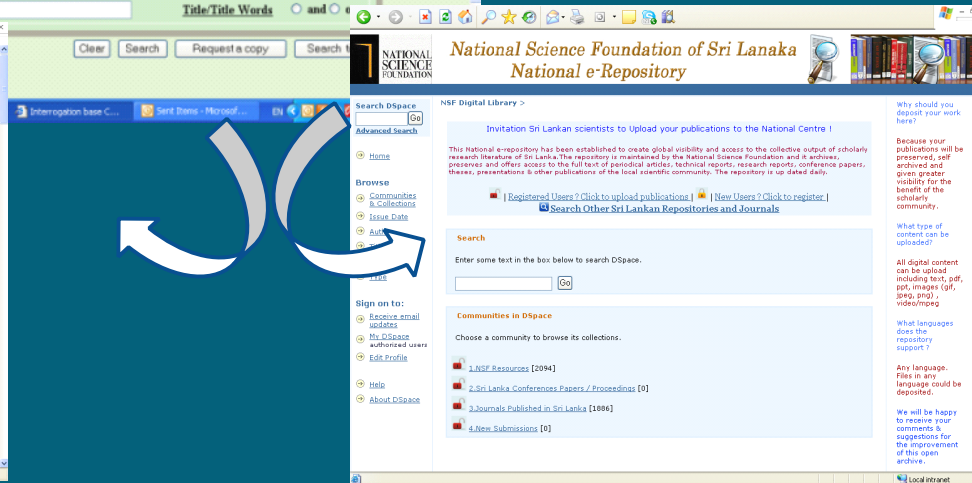
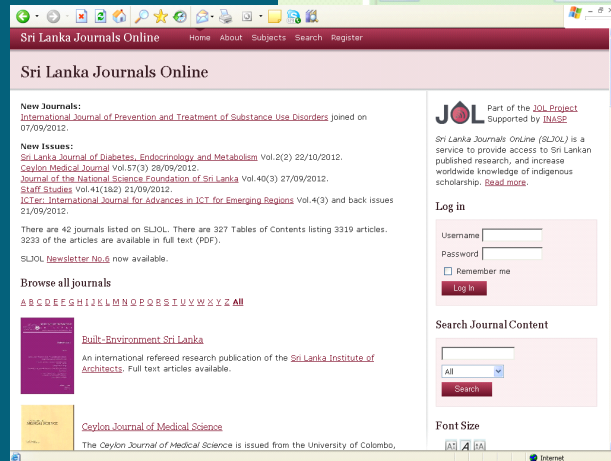
Research Information – Visibility/Accessibility

Type of Research information	Finding Tools - Visibility – metadata	Full text Access
Journal articles – locally published	Sri Lanka Science Index (SLSI) Sri Lanka journals Online (SLJOL) National Repository of S & T Literature	SLSI (68%)
Journal articles - Internationally published	Web of Science; SCOPUS; Google Scholar Sri Lanka Science Index ; Article Index National Library	Few Few - Off line
Theses and Dissertations	Institutional Repositories of UC/ UM/ UP/ OUSL/ PGIM/ NSF/ Library Catalogues Research institutions/ National Library Index Google Scholar	Nil
Unpublished Reports	Sri Lanka Science Index Library Catalogues of universities/Res. Institutes NSF - Research Grants Database/NRC, CARP ??? Google Scholar	Off line NSF–Online LAN
Conference and Workshop papers- Local	Library Catalogues of universities/Res. Institutes Sri Lanka Science Index	Few/IR of University
Conference and Workshop papers- International	Web of Science; SCOPUS; Google Scholar NSF - Travel Grants Database Sri Lanka Science Index	-
Working papers	Sri Lanka Science Index Library Catalogues of universities/Res. Institutes	-
Books/ chapters / sections	Sri Lanka Science Index Library Catalogues of universities/Res. Institutes	-

Transition to new systems for higher visibility and sharing



Sri Lanka Science Index **(40,000)**
<http://thakshana.nsf.ac.lk/wwwisis/slsi/form.htm>



Sri Lanka Journals Online
(SLJOL)

National Repository

Visibility – Google search

The screenshot shows a Google search interface with the following elements:

- Navigation bar:** +You Search Images Maps Play Gmail Drive Calendar Translate Blogger More »
- Search bar:** Contains the query "n different sources for mapping the coastal inlets and their catchment boundaries" and a search button.
- Sign in button:** Located to the right of the search bar.
- Search filters:** Web (selected), Images, More ▾, Search tools, and a settings gear icon.
- Results summary:** About 21,200 results (0.40 seconds)
- Search results:**
 - Result 1:**
 - [A comparative study of elevation data from different sources for ...](#)
 - www.lunduniversity.lu.se/ojs?tid=12683&postid=2591474
 - Title, **A comparative study of elevation data from different sources for mapping the coastal inlets and their catchment boundaries.** Author/s, P. Wickramagama, ...
 - Print this article - Sri Lanka Journals Online
 - www.sjoi.info/index.php/JNSFSL/article/download/4169/3416
 - by P Wickramagama - 2012
 - Jul 29, 2011 – **A comparative study of elevation data from different sources for mapping the coastal inlets and their catchment boundaries.** Revised: 29 July ...
 - Result 2:**
 - [A comparative study of elevation data from different sources for ...](#)
 - dl.nsf.ac.lk > ... > Journal of the National Science Foundation of Sri Lanka
 - by P Wickramagama - 2012
 - Browse. Communities & Collections · Issue Date · Author · Title ...
 - Result 3:**
 - [NSF Digital Library - Records](#)
 - dl.nsf.ac.lk > Home > Browse > NSF Digital Library
 - Items 1 - 25 of 1915 – **A comparative study of elevation data from different sources for mapping the coastal inlets and their catchment boundaries ...**
 - Result 4:**
 - [New Additions to the National Repository of Science & Technology ...](#)
 - www.nsf.ac.lk/newsletter/VOL3NO5/NSLRC.pdf
 - A comparative study of elevation data from different sources for mapping the coastal inlets and their catchment boundaries** - Journal of the National Science ...
- Results for similar searches:**
 - [Geography of Chile - Wikipedia, the free encyclopedia](#)

Visibility – Google search

The screenshot shows a Google search interface with the following elements:

- Navigation bar:** +You Search Images Maps Play Gmail Drive Calendar Translate Blogger More »
- Search bar:** Contains the text "An annotated checklist of mosquitoes of Sri Lanka" and a search button.
- Sign in button:** Located to the right of the search bar.
- Search filters:** Web (selected), Images, More ▾, Search tools, and a settings gear icon.
- Results summary:** About 290,000 results (0.44 seconds)
- Search results:**
 - Result 1:** PDF [An Annotated Checklist of the Mosquitoes of Sri Lanka - Systematic Catalogue](#) from [www.mosquitocatalog.org/files/pdfs/065390-0.pdf](#) by N JAYASEKERA. Cited by 6 - Related articles. UNESCO- Man and the Biosphere National Committee of Sri Lanka. Publication No: 8. **An Annotated. Checklist of Mosquitoes of Sri Lanka.** &Diptera: Culicidae& ...
 - Result 2:** NSF Digital Library: [An annotated checklist of mosquitoes of Sri Lanka](#) from [dl.nsf.ac.lk > 1.NSF Publications > Monographs > Monograph Collection](#). dc.subject.lcc, Biological Sciences, en_US. dc.title, **An annotated checklist of mosquitoes of Sri Lanka**, en_US. Appears in Collections: Monograph Collection ...
 - Result 3:** [An Annotated Checklist of Mosquitoes of Sri Lanka - Nalini ...](#) from [books.google.com/.../An_Annotated_Checklist_of_Mosquitoes_of.html?id...](#) Title, **An Annotated Checklist of Mosquitoes of Sri Lanka** Issue 8 of Publication (Unesco, Man and the Biosphere National Committee for Sri Lanka) - Volume 8 of ...
 - Result 4:** [An annotated checklist of mosquitoes of Sri Lanka Publication ...](#) from [www.amazon.co.uk/annotated-checklist-mosquitoes.../B0006EKWDD](#). **An annotated checklist of mosquitoes of Sri Lanka** Publication / Unesco, Man and the Biosphere National Committee for Sri Lanka: Amazon.co.uk: Nalini ...
 - Result 5:** [An annotated checklist of mosquitoes of Sri Lanka - getCITED](#) from [www.getcited.org/pub/102519193](#) by N Jayasekera - 1982 - Cited by 6 - Related articles Feb 27, 2002 – **An annotated checklist of mosquitoes of Sri Lanka.** Post a Comment ... National Science Council of Sri Lanka (Colombo) ...
 - Result 6:** [CiteSeerX — Citation Query An annotated checklist of mosquitoes ...](#) from [130.203.133.150/showciting.jsessionid...?cid=12083851](#) CiteSeerX - Scientific documents that cite the following paper: **An annotated checklist of mosquitoes of Sri Lanka** (Diptera: Culicidae) [sic].

Visibility – Google search

The screenshot shows a Google search interface with the following elements:

- Navigation bar: +You Search Images Maps Play Gmail Drive Calendar Translate Blogger More »
- Search bar: Google logo, search input field containing "A check list of the pteridophytes of Sri Lanka", search button, and Sign in button.
- Filter tabs: Web (selected), Images, More ▾, Search tools, and a settings gear icon.
- Results summary: About 2,730,000 results (0.34 seconds)
- Suggestion: Did you mean: [A checklist of the pteridophytes of Sri Lanka](#)
- Search results list:
 - [A check list of the pteridophytes of Sri Lanka](#)**
dl.nsf.ac.lk > 1.NSF Publications > Monographs > Monograph Collection ▾
by BA Abeywickrama - 1978 - Cited by 3 - Related articles
Title: **A check list of the pteridophytes of Sri Lanka**. Authors: Abeywickrama, B.A. · UNESCO-MAB National Committee for Sri Lanka. Keywords: Psilopsida ...
 - [Biodiversity of pteridophytes at Mulawella Mountain of the Sinharaja ...](#)**
journals.sjp.ac.lk > Home > 2007 > Ranil ▾
by RHG Ranil - 2012
Twenty two percent of recorded **Pteridophytes** in Mulawella area were endemic to **Sri Lanka**. **A check list of Pteridophytes** was prepared for the study area.
 - [Recent Publications on the Flora of Sri Lanka](#)**
dh-web.org/botany/publi.html ▾
Herat, T.R. 2005. Tentative Keys to the Families & Genera of **Pteridophytes of Sri Lanka** . Author Publisher. 2001; **A Check List of Flowering Plants of Sri Lanka** ...
 - [ferns and fern-allies \(pteridophytes\) - University of Peradeniya](#)**
www.pdn.ac.lk/socs/botanysoc/Ferns%20and%20Fern-allies.doc ▾
Others (i.e. 45 species) were indigenous to **Sri Lanka**. Endemic species were not recorded during the survey. **Check-list of Ferns** and Fern-Allies of the ...
 - [A check list of Pteridophytes of Sri Lanka - Catalog - UW-Madison ...](#)**
search.library.wisc.edu/catalog/ocm10850110 ▾
245, 12, \$a **A check list of Pteridophytes of Sri Lanka** / \$c by B.A. Abeywickrama. 260, 0, \$a Colombo : \$b National Science Council of **Sri Lanka**, \$c 1978. 300 ...
 - [A Check List of the Pteridophytes of Sri Lanka - B. A. Abeywickram...](#)**
<http://dl.nsf.ac.lk/handle/1/5219> s.google.com/.../A Check List of Pteridophytes of Sri Lan.html?id...

Decentralized System - Network

Develop a mechanism

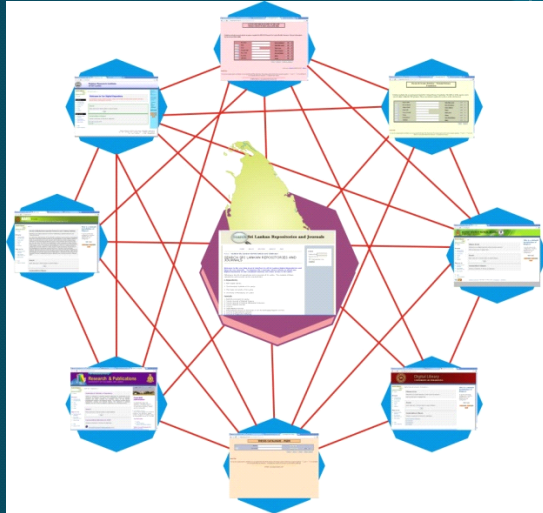
to provide on-line (immediate) Full Text Access to
Collective Local Scholarly Literature

to the Scholarly Community

Cross Archive Search Service for Sri Lanka

WINDOW for Local Intellectual out put

Requirements for a National IR Network



Information Infrastructure

- *Connectivity – High Bandwidth – 24 hours /365 days*
- *Lanka Academic Network - LEARN (VPN)*
- All state sector Universities, few public universities & few Research Institutes, **Other Research institutions ???**
- Hardware Requirements
- Skilled staff (set up Repository/maintain Repository)

Visibility - searchable through internet search engines - *OAI compliant*

Accessibility

- Broadband connectivity;
- Affordable prices

Content

- Current List of repositories in SRI Lanka
- Attitudes of management/Researchers – **POLICY ???**
- Copyright agreements with publishers
- National Digitization project

Interoperability - *OAI compliant*

Common search platform

National Network of Institutional Repositories



National Science Foundation

Universities

Research Institutes + R & D

Science & Technology Institutes

Started in 2006 - 21 repositories

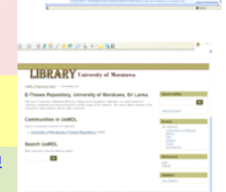
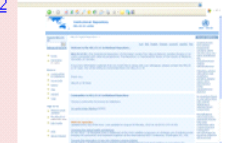
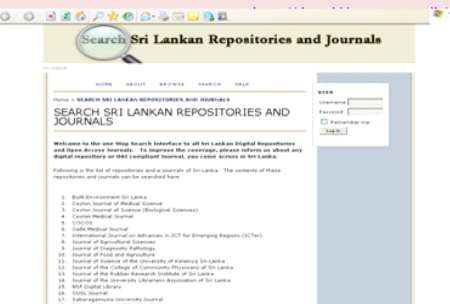
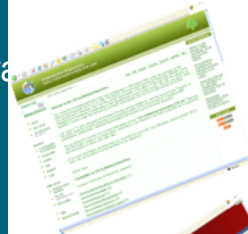
- 2006- 2008 - 02
- 2009 - 03
- 2010 - 03
- 2011 - 06
- 2012 - 06
- 2013 - 03

- DSpace/WINISIS/Open Journals software
- OAI compliant/OAI not
- High visibility
- Many file types
- No language barrier

• Full Text Material > 5000

e-repositories in Sri Lanka

Repository	Web Address
Sri Lanka Science Index	http://thakshana.nsf.ac.lk/wwwisis/sisi/forum.htm
NSF National e-Repository	http://dl.nsf.ac.lk
Sri Lanka Journals online (SJOL)	http://www.sjol.info
Digital Library University of Moratuwa	http://dl.lib.mrt.ac.lk/
Digital Archive, University of Colombo	http://archive.cmb.ac.lk/research/
Digital Library, Open university of Sri Lanka	http://digital.lib.ou.ac.lk/docs/
Digital Library, University of Peradeniya	http://www.dlib.pdn.ac.lk:8080/jspui/handle/123456789/9
Open Access Repository, university of Sri Jayawardanapura	http://www.sjp.ac.lk/research/
Digital repository, University of Sri Jayawardanapura	http://dl.sjp.ac.lk:8080/dspace/
Digital Repository of University of Ruhuna	http://www.dlib.pdn.ac.lk:8080/jspui/handle/123456789/9
Digital Archive of Rajarata University of Kelaniya	http://www.dlib.pdn.ac.lk:8080/jspui/handle/123456789/9
Sri Lanka Medical Index	http://www.dlib.pdn.ac.lk:8080/jspui/handle/123456789/9
Index Medicus by HE University of Colombo	http://www.dlib.pdn.ac.lk:8080/jspui/handle/123456789/9
Research grants Data	http://www.dlib.pdn.ac.lk:8080/jspui/handle/123456789/9
Institutional/Subject Industrial Technology	http://www.dlib.pdn.ac.lk:8080/jspui/handle/123456789/9
Central Environment Digital Library ACCIM	http://www.dlib.pdn.ac.lk:8080/jspui/handle/123456789/9
NERD Centre Digital Repository	http://dl.nerdcentre.ac.lk:8080/dspace/
Open Archive International Water Management Institute	http://www.dlib.pdn.ac.lk:8080/jspui/handle/123456789/9



National e-Repository

The screenshot shows the National e-Repository website. At the top, there is a header with the National Science Foundation of Sri Lanka logo and the text "National Science Foundation of Sri Lanka National e-Repository". Below the header, there is a search bar with a "Go" button and a "Search DSpace" label. To the left of the search bar, there is a navigation menu with links for "Home", "Communities & Collections", "Issue Date", "Author", "Title", "Subject", and "Type". Below the navigation menu, there is a "Sign on to:" section with links for "Receive email updates", "My DSpace authorized users", "Edit Profile", "Help", and "About DSpace". The main content area features a welcome message: "Welcome to the National e-Repository & Sri Lanka Scholarly literature. This e-Repository has been established to create global visibility and accessibility to the collective output of scholarly research of Sri Lanka. The repository is maintained by the National Science Foundation and it archives, preserves and offers access to the full text of scholarly literature of Sri Lankan origin. The repository is up dated daily. We Invite Sri Lankan Scholars to upload your publications in this Repository." Below the welcome message, there is a search box with a "Search" button and a link to "Search Other Sri Lankan Repositories and Journals". To the right of the search box, there is a list of communities to browse, including "1.NSF Publications [2111]", "2.Sri Lanka Conferences Papers / Proceedings [42]", "3.Journals Published in Sri Lanka [1943]", "4.New Submissions [0]", and "5. Chronic kidney disease (CKDu) [81]". On the far right, there is a sidebar with several informational text blocks, including "Why should you deposit your work here?", "Because your publications will be preserved, self archived and given greater visibility for the benefit of the scholarly community.", "What type of content can be uploaded?", "All digital content can be upload including text, pdf, ppt, images (gif, jpeg, png) , video/mpeg", "What languages does the repository support ?", "Any language. Files in any language could be deposited.", "We will be happy to receive your comments & suggestions for the improvement of this open archive.", and "For further details please contact : sunetra@nsf.ac.lk".

NATIONAL SCIENCE FOUNDATION

National Science Foundation of Sri Lanka National e-Repository

NSF Digital Library >

Welcome to the National e-Repository & Sri Lanka Scholarly literature
This e-Repository has been established to create global visibility and accessibility to the collective output of scholarly research of Sri Lanka. The repository is maintained by the National Science Foundation and it archives, preserves and offers access to the full text of scholarly literature of Sri Lankan origin. The repository is up dated daily.
We Invite Sri Lankan Scholars to upload your publications in this Repository

[Registered Users ? Click to upload publications](#) [New Users ? Click to register](#)

Enter your Search Text in the Box Below to Search.
Tip: You can use **Wildcard(*)** or other search operators(**AND/OR/NOT**)for the searching. For an example: if you use 'bio*' as search term, the system will result papers which have the word beginning with letters 'bio'. (biotechnology/ biology/biochemicals ..etc).

Search

[Search Other Sri Lankan Repositories and Journals](#)

Choose a community to browse its collections.

- 1.NSF Publications [2111]
- 2.Sri Lanka Conferences Papers / Proceedings [42]
- 3.Journals Published in Sri Lanka [1943]
- 4.New Submissions [0]
5. Chronic kidney disease (CKDu) [81]

Why should you deposit your work here?

Because your publications will be preserved, self archived and given greater visibility for the benefit of the scholarly community.

What type of content can be uploaded?

All digital content can be upload including text, pdf, ppt, images (gif, jpeg, png) , video/mpeg

What languages does the repository support ?

Any language. Files in any language could be deposited.

We will be happy to receive your comments & suggestions for the improvement of this open archive.

For further details please contact : sunetra@nsf.ac.lk

CROSS Archival Search Service

HOME ABOUT BROWSE SEARCH HELP

Home > SEARCH SRI LANKAN REPOSITORIES AND JOURNALS

SEARCH SRI LANKAN REPOSITORIES AND JOURNALS

Welcome to the one Stop Search Interface to all Sri Lankan Digital Repositories and Open Access Journals. To improve the coverage, please inform us about any digital repository or OAI compliant Journal, you come across in Sri Lanka.

Following is the list of repositories and e-journals of Sri Lanka. The contents of these repositories and journals can be searched here

e-Repositories

1. NSF Digital Library.
2. Tea Research Institute of Sri Lanka.
3. The Open University of Sri Lanka.
4. University of Moratuwa, Sri Lanka

Journals

1. Built-Environment Sri Lanka
2. Ceylon Journal of Medical Science
3. Ceylon Journal of Science (Biological Sciences)
4. Ceylon Medical Journal
5. COCOS
6. Ceylon Medical Journal

Local intranet



National Digitization Project

Project Period (2012 – 2016)

2. **Digitization of local literature collections :major libraries**
3. **Develop Institutional Repositories (on DSpace software)**
4. **Staff Training to set up IR – National Expert Team**
5. **Training on database administration & management**
6. **Conversion of current databases into DSpace**
7. **Equipment /Database hosting facilities**
8. **Temporary Staff for data entry**
9. **Technical support and trouble shooting**

Open Access Journals

The screenshot shows the Sri Lanka Journals Online (SLJOL) website. The header includes navigation links: Home, About, Subjects, Search, Register. The main content area is divided into several sections:

- New Journals:** Lists recent additions, such as the Sri Lanka Journal of Venereology and Sri Lanka Journal of Medical Administration.
- New Issues:** Lists recent issues of journals like Sri Lanka Journal of Venereology, Ceylon Journal of Science (Biological Sciences), Journal of Agricultural Sciences, and Ceylon Medical Journal.
- Statistics:** States there are 48 journals listed on SLJOL, with 422 Tables of Contents listing 4063 articles, and 3903 articles available in full text (PDF).
- Newsletter:** Mentions SLJOL Newsletter No. 6 is now available.
- Browse all journals:** Provides an alphabetical index (A-Z) and a link to 'All'.
- Journal Listings:** Features two journal covers with descriptions: 'Built-Environment Sri Lanka' (an international refereed research publication) and 'Ceylon Journal of Medical Science' (issued from the University of Colombo).
- Log in:** A section with fields for Username and Password, a 'Remember me' checkbox, and a 'Log In' button.
- Search Journal Content:** A search box with a dropdown menu set to 'All' and a 'Search' button.
- Font Size:** A section with 'A', 'A', and 'A' icons for adjusting text size.

Open Access Journals - 48

Started in 2008 August

July 2012 – 36 Journals

April 2013 - 48 Journals

Open Journals Software

OAI compliant

High worldwide visibility

Full text material 3919

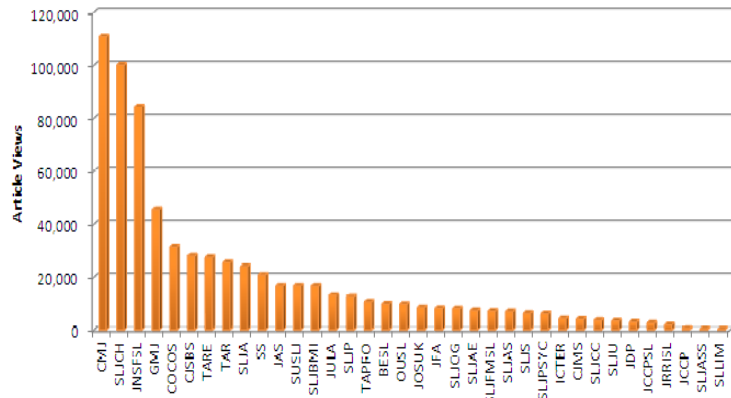
SRI LANKAN ONLINE MEDICAL JOURNALS - 21

1. Ceylon Journal of Medical Science

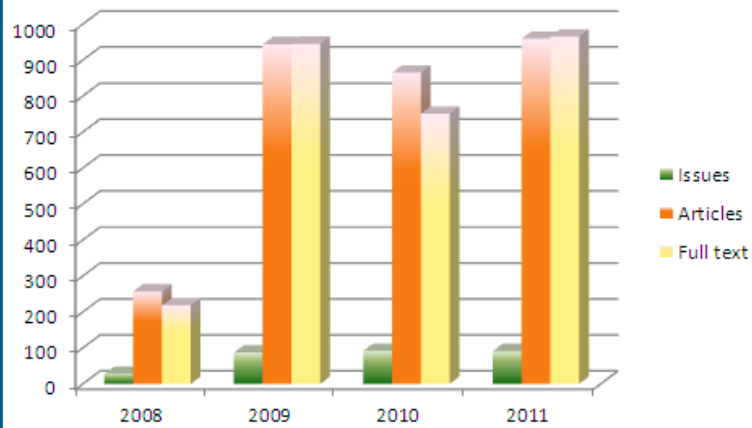
2. Ceylon Medical Journal
3. Galle Medical Journal
4. International Journal of Prevention and Treatment of Substance Use Disorders
5. Journal of Diagnostic Pathology
6. Journal of the Ceylon College of Physicians
7. Journal of the College of Community Physicians of Sri Lanka
8. Sri Lanka Journal of Bio-Medical Informatics
9. Sri Lanka Journal of Child Health
10. Sri Lanka Journal of Critical Care
11. Sri Lanka Journal of Diabetes Endocrinology and Metabolism



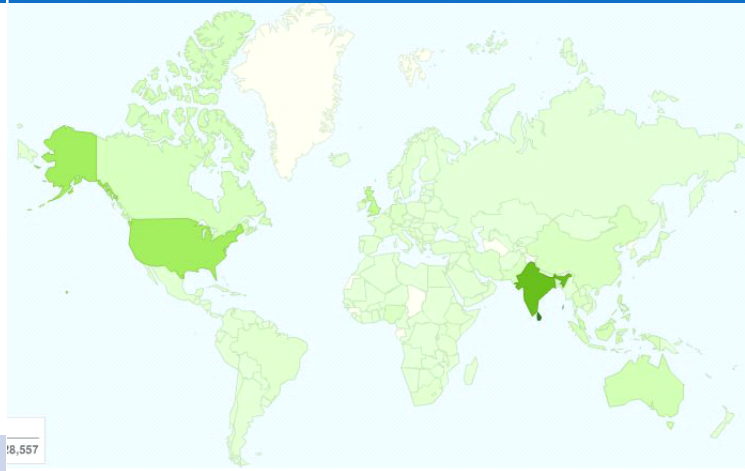
Sri Lanka Journals Online (SLJOL) - Visibility



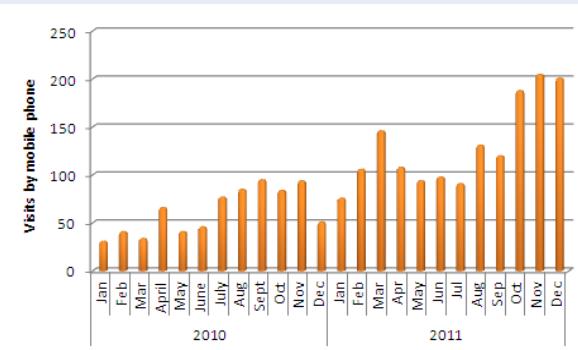
Unique visits to SLJOL (Jan – Dec 2011)



Issues, articles and Full Text



Global visitors to SLJOL (Jan – Dec 2011)



Visitors to SLJOL by mobile phone

Awareness/Attitudes Towards Open Access

Awareness on Open Access - 84%

Familiar with OA - 50%

Less Familiar with OA - 34%

Usage of OA material - 69%

High usage - 50%

Less usage - 19%

Contribution to OA Journals - 40%

High contribution to OA journals - 9%

Low contribution to OA journals - 31%

Willingness to Publish Research papers

Publish in OA Journals - 49%

Publish in high impact subscription journals - 33%

Normal subscription based journals - 13%

Willingness to deposit PG theses in OA Repository

Willing to deposit - 73%

Reluctant to deposit - 12%

Copyright should be owned by author - 38%

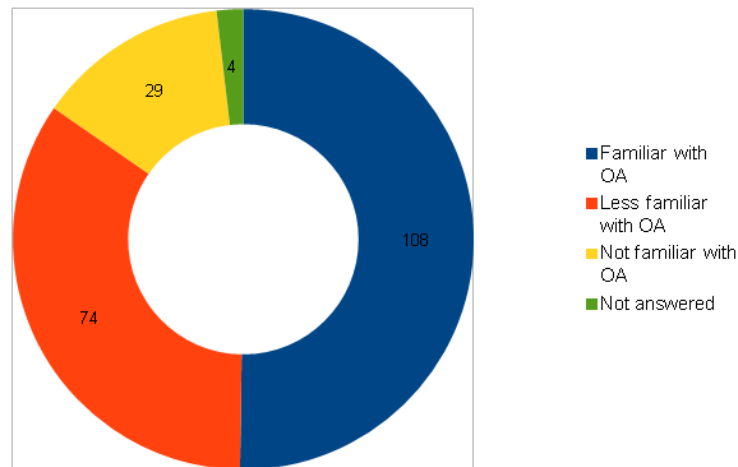
Copyright Should be a balance between Author and Publisher - 35%

Copyright should be with the publisher - 16%

Senior Researchers are more positive towards OA practices than juniors

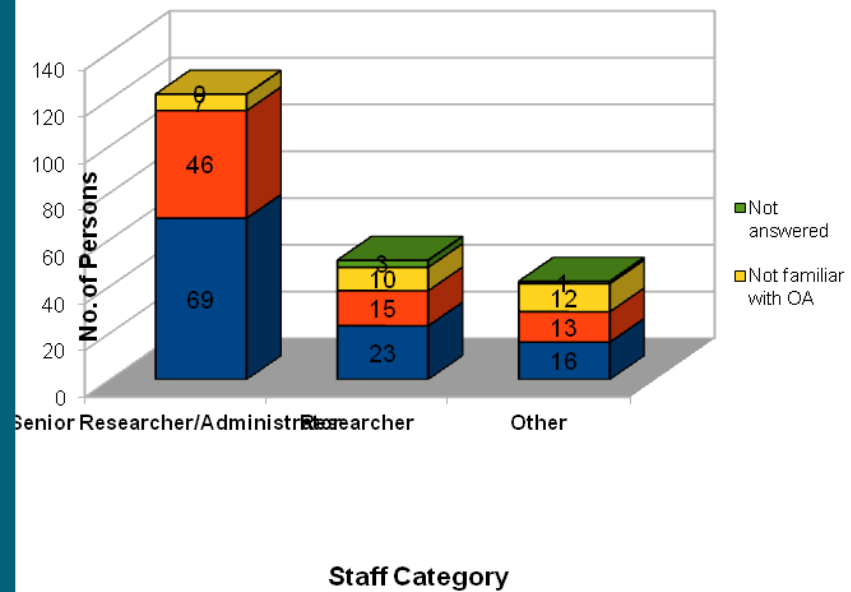
Level of Awareness on Open Access

Awareness on Open Access Publishing



84% (190) are Aware on Open Access Material

Awareness on Open Access Publishing



Awareness of Senior Academics/ Researchers is higher - 112

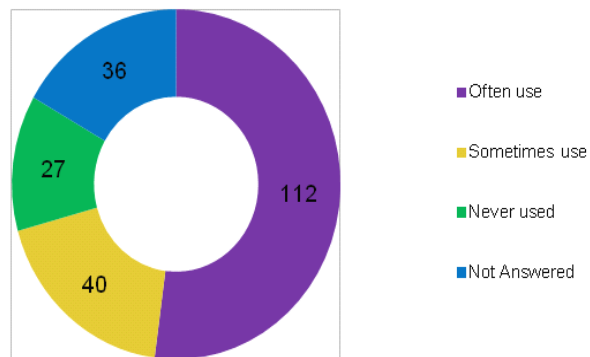
Awareness of junior Academics/ Researchers is less - 38

Usage of Open Access material

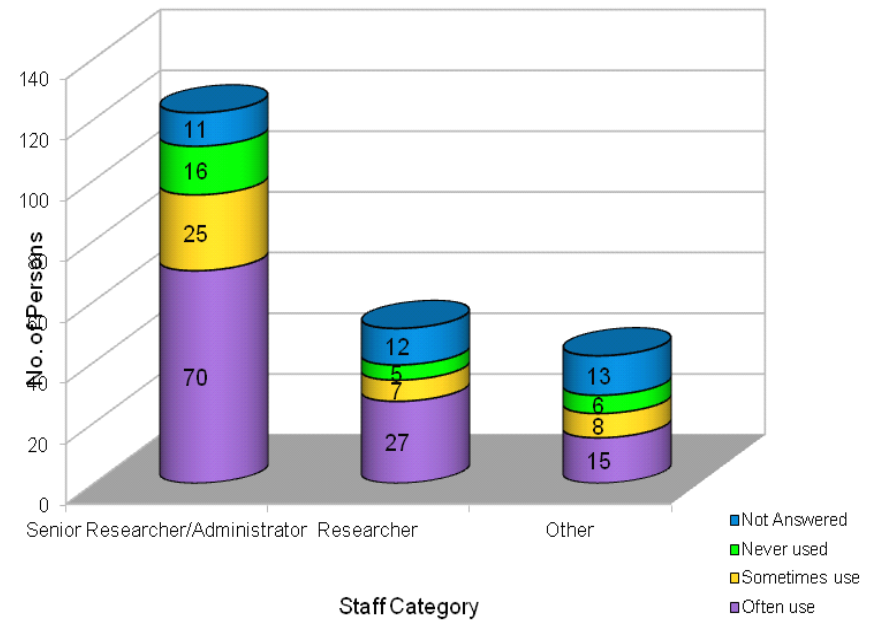
156 use to OA material

Senior Academics/Researchers use more – 95
Junior Academics/researchers use less - 34

Experience in Using OA Publications for Research/Academic Work



Experience in Using OA Publications for Research/Academic Work



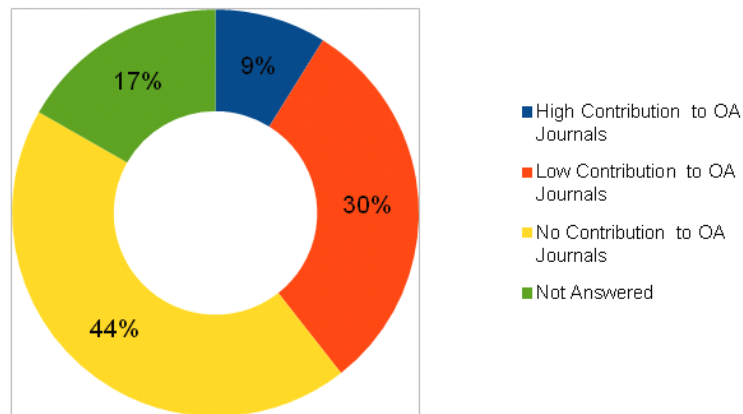
Contribution to Open Access publishing

74% contribute to OA Publishing

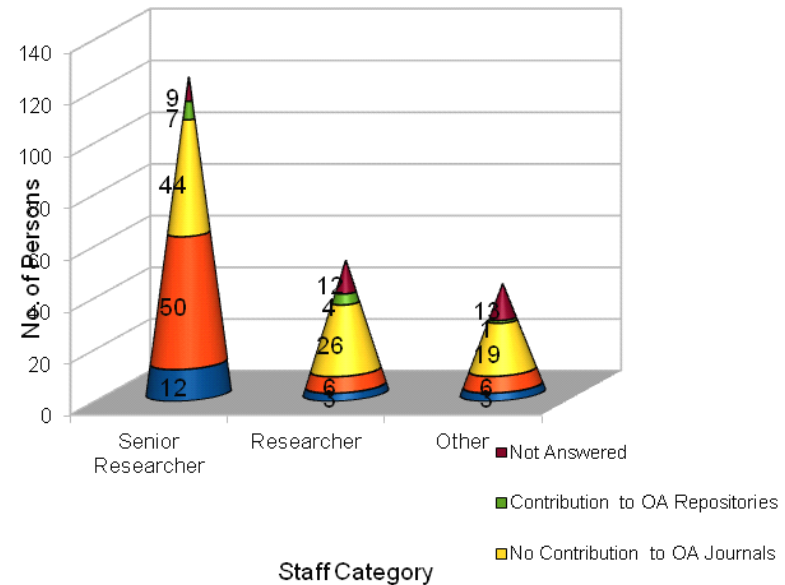
**Senior Academics/Researchers
Contribute more – 71**

**Junior Academics/researchers contribute
less - 23**

Contribution to OA Journals

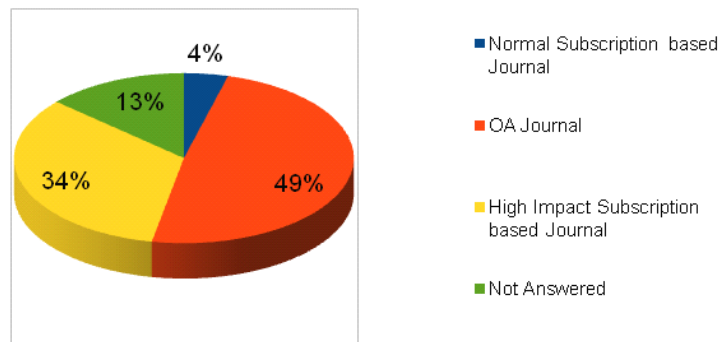


Contribution to OA Journals/Repositories

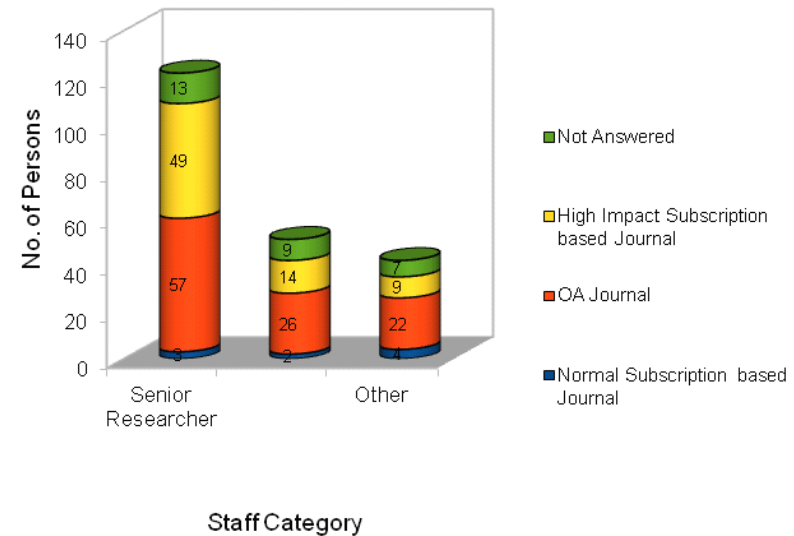


Attitude towards publishing Research Information

Willingness to Publish Research Papers in Journals



Willingness to Publish Research Papers in Journals

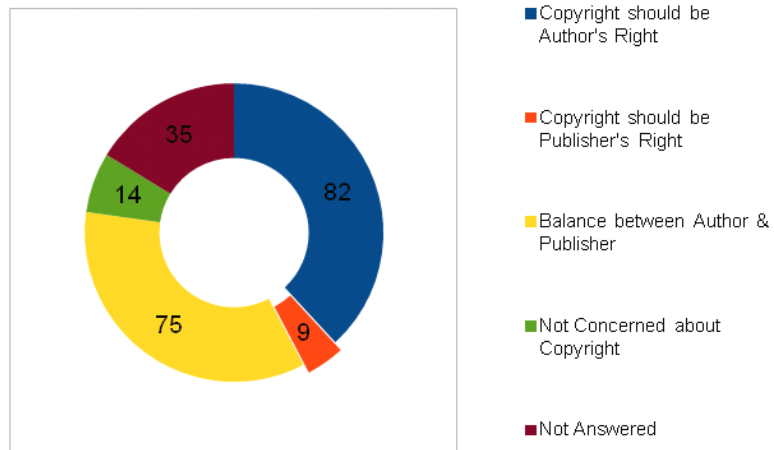


Opinion on Copyright ownership

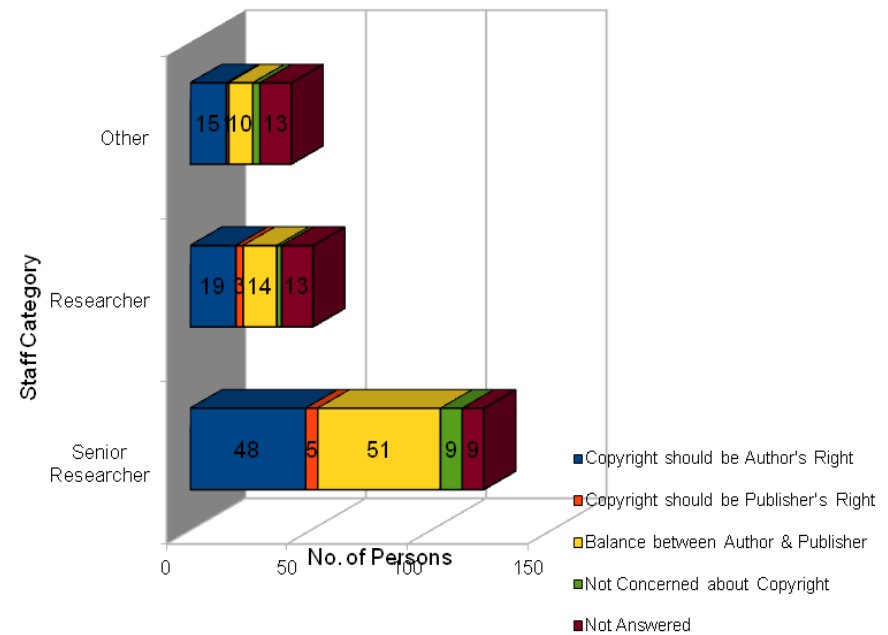
Majority believe that author should own copyright - 82
 Some prefer copyright ownership to be a balance between author & publisher - 75

More seniors believe that author should own copyright - 48/19
 More seniors believe that copyright should be a balance between author & publisher - 51/14

Opinion about Copyright of Research Paper



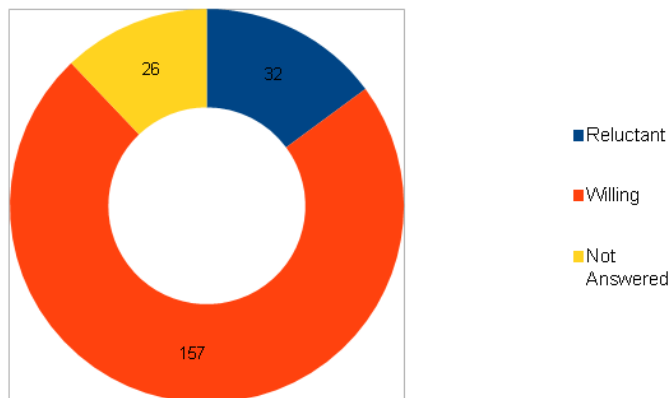
Opinion about Copyright of Research Paper



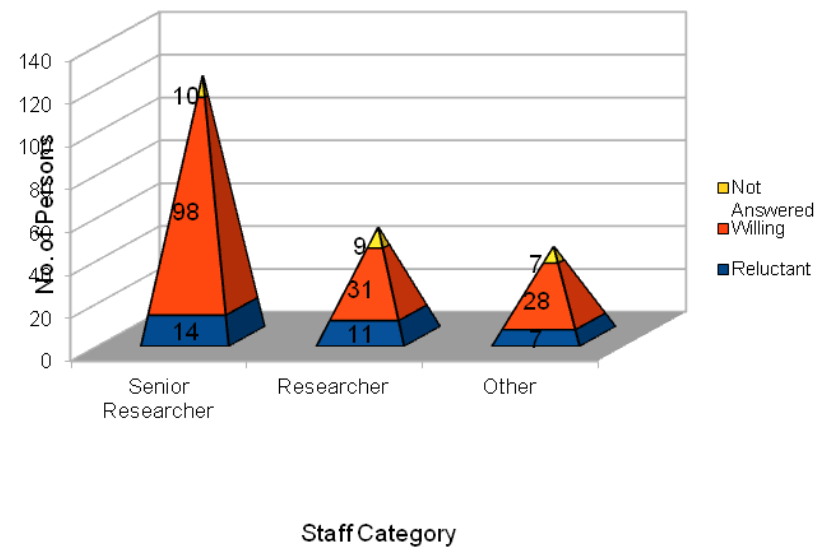
Willingness to deposit PG theses in OA Repositories

Majority are willing to deposit theses in OA Repositories

Willingness to Deposit Post Graduate Thesis in OA Repository



Willingness to Deposit Post Graduate Thesis in OA Repository



Conclusions/Recomendations

- Sri Lanka has a high potential for OPEN ACCESS practices
 - Basic infrastructure for National IR Net work – to be expanded
 - Sri Lanka Journals Online – 48 Open Access journals – rapid growth rate reflects the positive attitude - to be further expanded
 - Positive attitude of senior researchers towards Open Access – survey results
 - Discussions with Commercial publishers is required to practice depositing papers in IR
- Awareness on OA is required
- OA Policy is required

THANK YOU

