

Sirsi Resolver: From Soup To Soupe Aux Truffes Noires

Paula Deutsch

Matthew Bachtell

National Institute of Standards and Technology (NIST)

Please take a moment to
turn off
your cell phone,
or switch to
silent mode.

Disclaimer

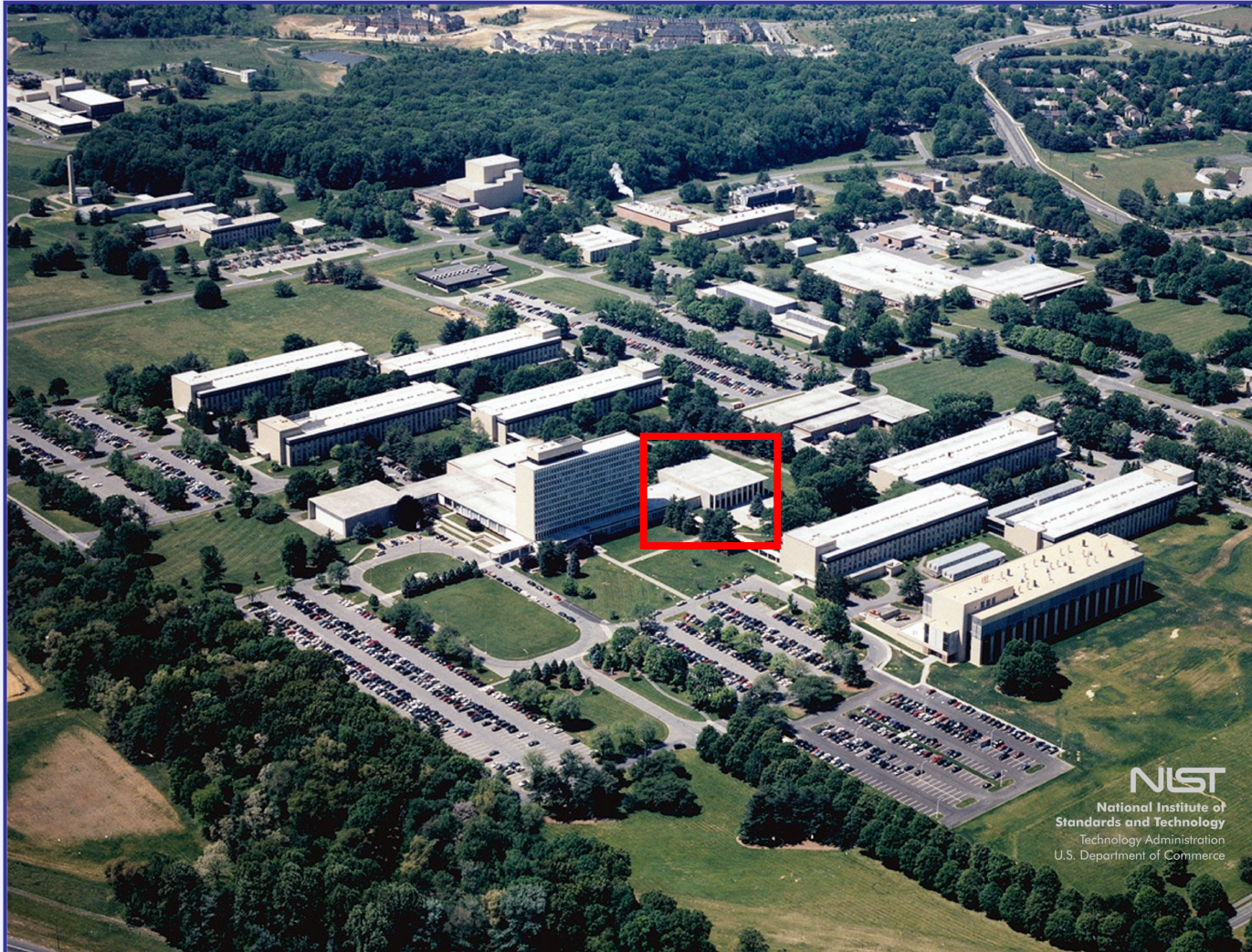
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**Electronic Information
and Publications
Group**

**NIST Museum and
History Program**

<http://museum.nist.gov>

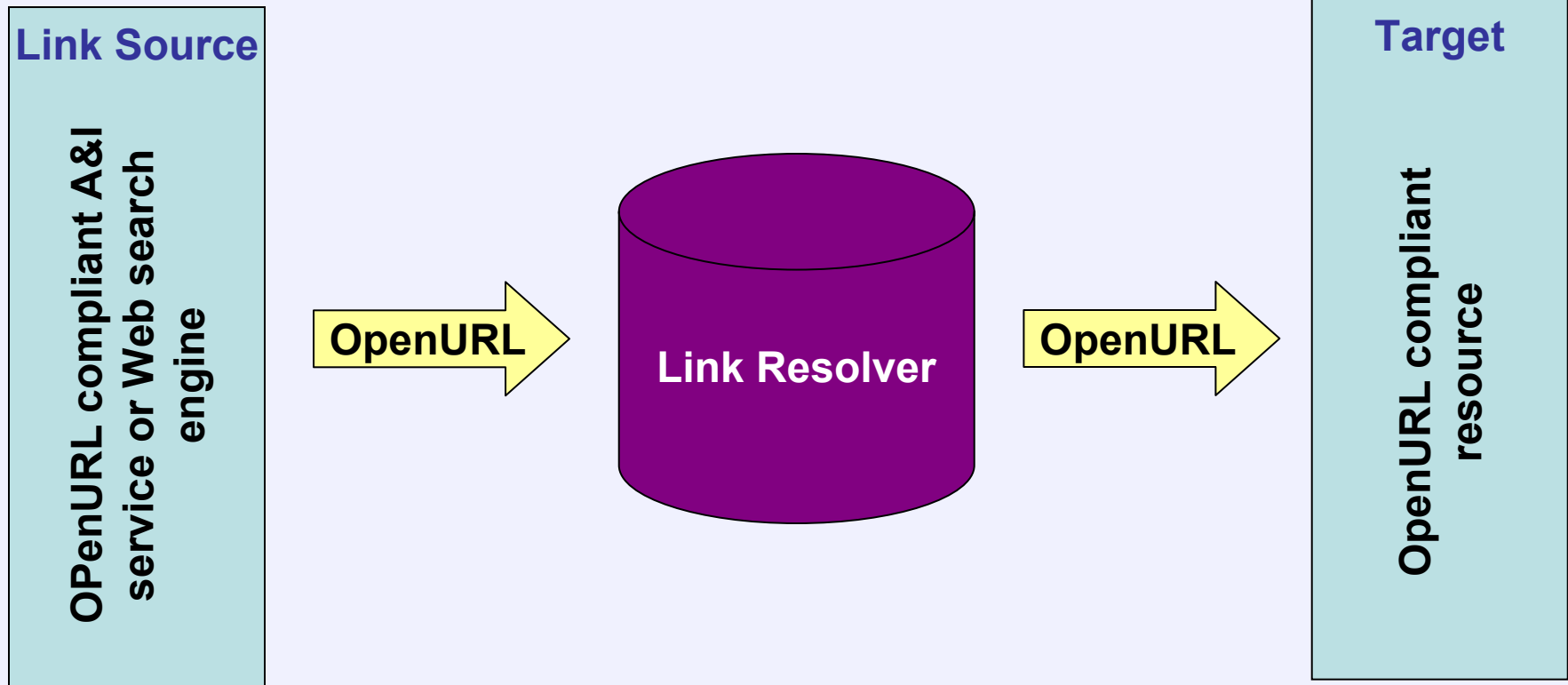
Our Customers

- **Primarily, the researchers in the NIST laboratory programs at the Gaithersburg location.**
- **Approximately 1,500 NIST researchers.**
- **Approximately 1,700 guest researchers and post-doctoral students.**
- **Physical, chemical, and engineering scientists.**

Presentation Outline

- **Brief explanation of Sirsi Resolver.**
- **Our implementation process.**
- **Some OpenURL issues.**
- **Extending Sirsi Resolver's functionality--injecting resolver links into other people's content.**

What Is A Link Resolver?



Metadata Sent From Link Source

Link Source

OpenURL compliant A&I
service or Web search
engine

- ✓ Identifying information about the source of the citation
- ✓ Citation metadata
- ✓ Unique record ID for the citation within the link source

Link Resolver

Link Resolver Processes Information

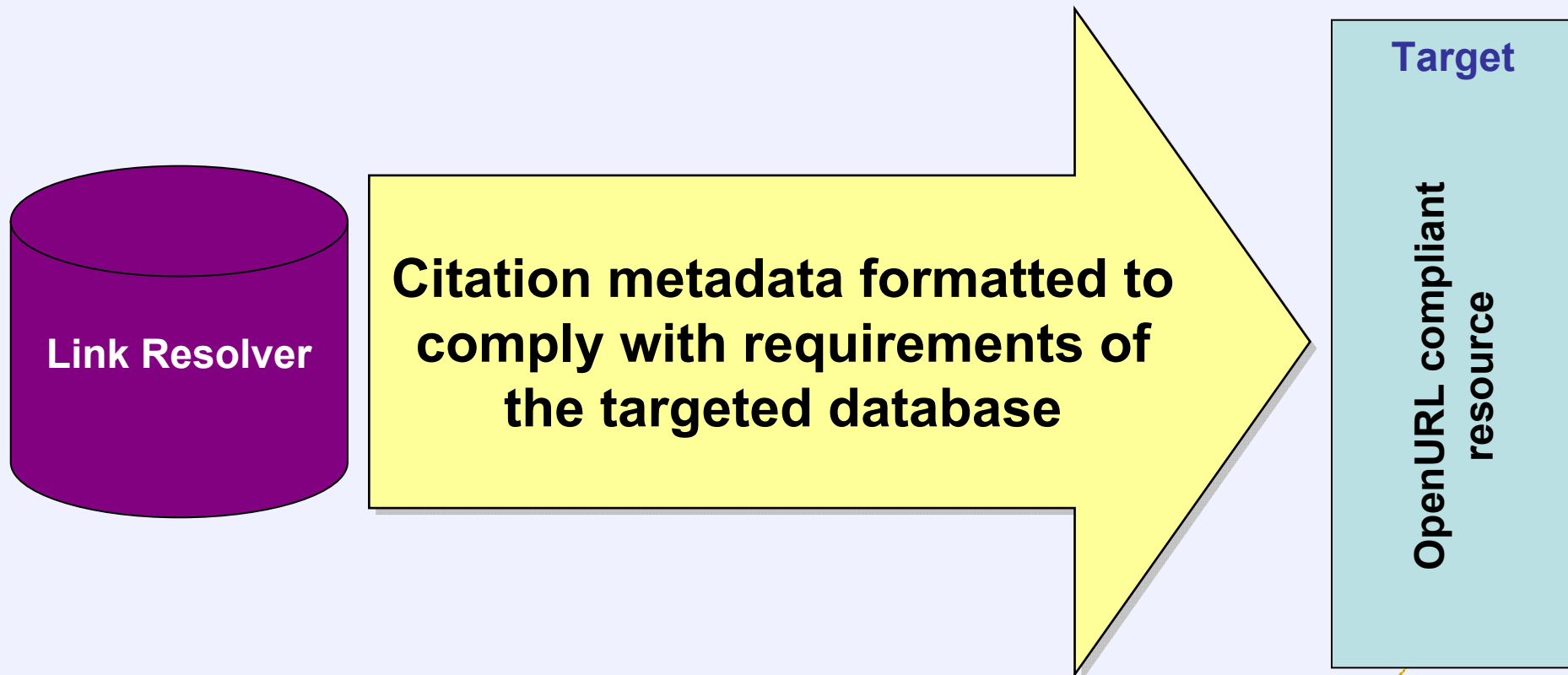
Knowledge Base

- ✓ Library's holdings
- ✓ Library's users
- ✓ Link sources' syntax
- ✓ Targeted resources' syntax

Software

to parse all this into something
usable

Metadata Sent To Targeted Resource



Sirsi Resolver

Software built by Openly Informatics, Inc.

<http://www.openly.com/>

1Cate (One Click Access To Everything)

Suite of OpenURL link server software

- SQL back end (creates, modifies and retrieves data from relational and object-relational databases).
- XML middleware (general-purpose markup language for creating special-purpose markup languages).
- Link.Openly (OpenURL parser and dynamic text generator) built on Tomcat which is open source.

Google Scholar Display



"Coherence and stochastic resonance in a two-

[Advanced Scholar Search](#)
[Scholar Preferences](#)
[Scholar Help](#)

Scholar

Results 1 - 1 of 1 for "[Coherence](#) and [stochastic resonance](#) in a [two-state system](#)". (0.03 seconds)

[Coherence and stochastic resonance in a two-state system](#) [Get Item at NIST](#)

B Lindner, L Schimansky-Geier - [Physical Review E](#), 2000 - [link.aps.org](#)

Coherence and stochastic resonance in a two-state system. Benjamin Lindner
and Lutz Schimansky-Geier Humboldt-University at Berlin ...

[Cited by 49](#) - [Web Search](#) - [summa.physik.hu-berlin.de](#) - [adsabs.harvard.edu](#) - [ncbi.nlm.nih.gov](#) - [all 5 versions](#) »

What's Under The Hood

[Coherence and stochastic resonance in a two-state system - Get Item at NIST](#)

```
http://scholar.google.com/url?sa=U&q=http://nist-  
resolver.sirsi.net/%3Fsid%3Dgoogle%26au%3Dlast%3DLindner%2  
6auinit%3DB%26atitle%3DCoherence%2Band%2Bstochastic  
%2Bresonance%2Bin%2Ba%2Btwo-state%2Bsystem  
%26oid%3Dpmid:11088283&oi=institution
```

Or, send the following metadata to NIST's link resolver:

Reference source=google

Author last name=Lindner; Author initial=B

Article title=Coherence and stochastic resonance in a two-state
system

ID=PubMed ID:11088283; Object iterator=institution

Sirsi Resolver Restates Google's OpenURL


```
%3Fsid%3Dgoogle%26aulast%3DLindner%26auinit%3DB%26atitle%3DCoherence%2Band%2Bstochastic%2Bresonance%2Bin%2Ba%2Btwo-state%2Bsystem%26id%3Dpmid:11088283&oi=institution
```

It translates two-digit hexadecimal into ASCII and removes any information it will not use.

```
?sid=google&aulast=Lindner&auinit=B&atitle=Coherence+and+stochastic+resonance+in+a+two-state+system&id=pmid:11088283
```



Additional Information Is Collected

http://nist-resolver.sirsi.net/?sid=google&aulast=Lindner&auinit=B&atitle=Coherence+and+stochastic+resonance+in+a+two-state+system&id=pmid:11088283

NIST Virtual Library  **NIST**
National Institute of Standards and Technology

Your article:
Author: Lindner, B
Title: Coherence and stochastic resonance in a two-state system
Journal title: Physical Review E
Volume: 61 **Issue:** 6 Pt A **Date:** 2000-06 **Pages:** 6103-10

Physical Review E ISSN: 1063-651X
 available from *The American Physical Society* -->Find title -->Find abstract
 Full Text: v. 1 (1970) - present
 A link to this article may be available through -->Find article
 CrossRef.



OpenURL Is Re-parsed To Accommodate The Target

-->Find article

```
crossref?ISSN=1063-651X&title=Physical+Review+E  
&atitle=Coherence+and+stochastic+resonance+in+a+two-  
state+system&date=2000&issue=6 Pt A&volume=61  
&spage=6103&aualast=Lindner
```

Is adapted to American Physical Society's link syntax.

```
http://prola.aps.org/abstract/PRE/v61/i6/p6103_1
```

What Else Is Under The Hood at Google Scholar

[Coherence and stochastic resonance in a two-state system](#) - [Get Item at NIST](#)

[Coherence and stochastic resonance in a two-state system](#)

http://prola.aps.org/abstract/PRE/v61/i6/p6103_1

Implementation Process (1) Complete Ejournal Holdings Worksheet

- Identify all holdings that matched resources included in Openly Informatics Knowledgebase.
 - Aggregated services--Openly Informatics' [UHF Holdings Data Service](#) includes 81 providers.
 - Ejournals--[Genamics-Openly JournalSeek DataBase](#) includes over 85,000 titles.
- Compile list of all other ejournals--titles, ISSNs, publishers, URLs, and holdings information.

Implementation Process (2) Let Everybody Know

- **Contact all publishers.**
 - **SirsiDynix provides a form letter for requesting publishers to enable OpenURL linking.**
- **Register with [CrossRef](#)**
 - **Official DOI registration agency for scholarly and professional publications.**
 - **Free for libraries.**
- **Register baseURL with bibliographic database services that support OpenURL. (After set-up is complete.)**

Implementation Process (3) SirsiDynix and Openly Informatics Do Their Parts

- **Resolver instance is created on hosted server (sirsi.net).**
- **Holdings and authentication method(s) are loaded.**
- **Quality control check completed by SirsiDynix Project Manager assigned to our installation.**
- **Distance training on administrator's Web interface is provided.**

Implementation Process (4) Maintaining Holdings

**This is done through the administrator
interface.**

Admin Tools
(Live Demo)

Implementation Time

- **The total time of our active involvement in the implementation process was about 6 months.**
- **The most time consuming tasks included:**
 - **Compiling list of custom holdings (titles not included in aggregated collections/packages).**
 - **Identifying issues, notifying SirsiDynix, and following up to be sure issues had been addressed.**

The ISD Players

- **Sirsi Administrator:** Lead the effort, acted as liaison between the Research Library and SirsiDynix, and tested the resolver.
- **Two Librarians and two Library Technicians:** Compiled information about our electronic holdings.
- **Digital Librarian:** Created tools to enhance the visibility of our holdings.

Implementation Choice: Hosting

Considerations:

- **Lack of resources (money and time) required to purchase and maintain another server.**
- **Amount of time required for maintaining the linking information contained in the knowledge base. (SirsiDynix loads knowledge base updates monthly.)**
- **Tradeoff--lack of control over speed at which modifications to the end-user interface are made.**

Hosted by SirsiDynix

Implementation Choice: Authenticating Users

The options for authentication include using a proxy server, authenticating through Unicorn (iBlink), or by IP address.

Considerations:

- NIST employees can get VPN access to the NIST network, allowing them to appear as though they are coming from a NIST IP address even when they are off campus.
- Did not want to require our users to log-in to yet another interface.

Authentication by IP address

Implementation Choice: Extended Services

SirsiDynix offers the choice of including a variety of Web search engines, booksellers, and bibliographic databases in the knowledge base.

Considerations:

- **Sirsi Resolver does not have a very sophisticated search interface.**
- **We plan to implement Single Search which seems like a more appropriate place for these options.**

Exclude extended services from Sirsi Resolver

Implementation Choice: Google Scholar Project Description

- SirsiDynix supplies Google Scholar with individual library's holdings (updated "periodically").
- When viewing Google Scholar from a NIST IP address, users see a **Get Item at NIST** link (next to the title) if we own it.
- When viewing Google Scholar from a non-NIST IP address, users identify their preferred library (or libraries) by going to the Scholar Preferences page.

[\(Demo\)](#)

Implementation Choice: Google Scholar Project Continued

Considerations:

- **Google Scholar has some deficiencies.**
 - Articles are not current.
 - Older citations float to the top.
 - Difficult to assess comprehensiveness.
- **No additional work on our part.**
- **Helps to maintain our visibility.**
- **Users like the direct link to full text.**

Participate in Google Scholar Project.

Implementation Frustrations

- **Why didn't you just ask?**
 - What banner should appear on the Resolver pages?
 - What is the name of your library?
 - What is the URL for your OPAC?
- **Who's minding the store?**
 - Broken OpenURL link into OPAC.
- **Who's on first?**
 - Okay we registered with CrossRef, now what?
 - What *does* "enable OpenURL linking" mean?

A-to-Z List Issues: Be Careful What You Wish For

NIST Virtual Library





Your search: **B**

Too many results? [Refine your search](#) Result Page: [1](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [8](#) [9](#) [10](#) [11](#) [12](#) [13](#) [14](#) [15](#) [16](#) [17](#) [18](#) [19](#) [20](#) [Next](#)

B to B	ISSN: 1530-2369
available in Wilson Select Plus	Full Text: 2000 - 2005 (v85 i6 - v90 i9)
Baby Talk	ISSN: 1092-1869
available in Wilson Select Plus	Full Text: 1999 - 2005 (v64 i8 - v70 i2)
Baby Talk Supplement to Miller-F...	ISSN: 1084-6433
available in Gale Business & Industry	Full Text: 1995 - 1995
BackOffice CTO	ISSN: 1084-6433
available in Gale Business and Management Practices	Full Text: 1999 - 1999
Backpacker	ISSN: 0277-867X

Yes, every title!

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A-to-Z List Issues: You Can Never Find A MARC Indicator When You Need One

NIST Virtual Library
Ask a Librarian
NIST
National Institute of
Standards and Technology

Your search: A

Too many results? [Refine your search](#) Result Page: [1](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [8](#) [9](#) [10](#) [11](#) [12](#) [13](#) [14](#) [15](#) [16](#) [17](#) [18](#) [19](#) [20](#) [Next](#)

A Practical Approach to the Protection of Industrial Power Systems Networks up to 11kV (Ref. No. 1999/062), IEE Colloquium on available in IEEE Conference Proceedings	-->Find title	Full Text: 1999 - 1999
A Quarterly available in Wilson Select Plus		ISSN: 1093-7374 Full Text: 1998 - 2005 (v3 i4 - v11 i1)
A Systems Approach to Manufacturing (Digest No: 1996/171), IEE Colloquium on available in IEEE Conference Proceedings	-->Find title	Full Text: 1996 - 1996
A Today (Periodical) available in Wilson Select Plus		ISSN: 0161-7389 Full Text: 1995 - 2005 (v123 - v134)

OpenURL Issues: Don't You Just Wish Everybody Did It

While most of the larger publishing companies and aggregators are OpenURL compliant, many of the smaller publishers are not. [\(Demo\)](#)

NIST Virtual Library
Ask a Librarian
NIST
National Institute of
Standards and Technology

Your article:
Author: Burke, Maxim
Title: Models in Which Every Nonmeager Set is Nonmeager in a Nowhere Dense Cantor Set
Journal title: Canadian Journal of Mathematics
Volume: 57 **Issue:** 6 **Date:** 2005 **Pages:** 1139-1154

Canadian journal of mathematics
ISSN: 0008-414X

available from [Canadian Mathematical Society](#) -->Find title -->Go to TOC Full Text: v. 49 (1997) - present

The Canadian Journal of Mathematics is a highly respected and strictly refereed journal published by the Canadian Mathematical Society to disseminate the timely and significant mathematical research vital to the worldwide scientific community. This internationally renowned journal maintains a vigorous publication schedule and is the companion publication to the Canadian Mathematical Bulletin, the other flagship publication of the Canadian Mathematical Society. The CJM is an independent, peer-reviewed journal devoted to publishing original works of high standard. Readers include university and industry researchers reflecting a wide variety of fields of interest.

- [Journal Home Page](#)
- published by [Canadian Mathematical Society](#)
- [Links to Tables of Contents](#) for this journal
- Categories: [Miscellaneous](#)

Check holdings in other libraries : *Canadian Journal of Mathematics*
 check holdings in --> [NIST Research Library OPAC](#)

Request information about this author : *Burke,*
 search at --> [NIST Research Library OPAC](#)

OpenURL Issues: The Reign Of The IVIP Model

- In the absence of a unique resource identifier, the IVIP (ISSN, Volume, Issue, Page) is often required for matching a target because it is less ambiguous than other options.
- However:
 - Reference lists rarely include an ISSN, and may or may not include an issue number.
 - Even when an issue number is included, varying notations for special issues, supplements, and combined issues can create matching problems.

And Yet...It's Still Worth It!

- Link resolvers are important technology enablers that will continue to become more refined and sophisticated.
- Link resolvers provide the obvious final step of searching activity.
- Barring any disruptive technological advances, link resolvers will become an essential back-end ingredient in library services.

“Perfection is a trifle dull.”
-W. Somerset Maugham

So Now What?

- You have an OpenURL Resolver and it works in Google Scholar but there is more to the web than Google, right?
- How do you assert your OpenURL Resolver and library branding into other resources?

Marketing Resolver – How Do You Do That?

- **Firefox extensions for Sirsi Resolver:**
 - [Openly Informatics' extension](#)
 - **Pros/Cons**
 - **Custom NIST extension based on Openly's extension**
 - **Pros/Cons**
 - **Custom NIST [Greasemonkey](#) scripts**
 - [What's a greasemonkey?](#)
 - **Pros/Cons**

Marketing Resolver – Our Decision

- **We chose to use the Openly Informatics extension.**
 - **Wrote installation instructions and published on our website.**
- **Also using greasemonkey scripts as a supplement.**
 - **Create OpenURLs or access points for those pages that don't supply them.**

Setup Of The Openly Informatics Extension

OpenURL Referrer Preferences

Global Settings:

- Insert links in Google Scholar Search Results
- Activate OpenURL COinS

Profiles:

Sirsi

New Profile Save Changes Delete Profile

Profile Settings:

Link Server Base URL
http://nist-resolver.sirsi.net

OpenURL version: 0.1 1.0

Display link as:

Text Does my Library Have it?

Image
Location http://nvl.nist.gov/emplibray/findatNIST.jpg

Strip commas and periods from journal titles

OK Cancel

Choose Sirsi selection

Type in the URL of your resolver

We chose to use an image to send people to our Resolver. 

Openly Informatics Extension How Does It Work?

- It activates COinS.
 - What are COinS?
 - [ContextObjects in Spans](#) or metadata packages that describe a reference to a journal article, book, etc...
 - E.g. : ``

Openly Informatics Extension How Does It Work?

- Who is using COinS?
 - Not many people
 - Citeulike.org
 - HubMed Pro
 - The Canary Database
 - MRS Internet Journal of Nitride Semiconductor Research Reference Database Pages
 - Wikipedia Book Sources Page - Experimental
 - Some bloggers
 - Utter Futility

Openly Informatics OpenURL Extension

CiteULike

Register | Log in | FAQ |  |  |  |  |  |  |  | 

Article title Search

Navigation

- Home
- Log in
- Register
- News and Status
- Discussion list

Journals

- Browse current issues

Groups

- View group

Experimental Features

- Import from BibTeX

Search results for: mantis shrimp

All articles on CiteULike matching your search criteria

- A review of the fisheries biology of the mantis shrimp, *Squilla mantis* (L., 1758) (Stomatopoda, Squillidae) in the Mediterranean** 

Crustaceana, Vol. 77, No. 9, (October 2004), 1081.
by [Maynou F](#), [Abello P](#), [Sartor P](#)
- Extreme impact and cavitation forces of a biological hammer: strike forces of the peacock mantis shrimp *Odontodactylus scyllarus*** 

J Exp Biol, Vol. 208, No. 19, (1 October 2005), pp. 3655-3664.
by [Patek SN](#), [Caldwell RL](#)
posted to [biomechanics cool](#) by [jimmithy](#) as ✓
- Calling behaviour in the female praying mantis, *Hierodula patellifera*** 

Physiological Entomology, Vol. 30, No. 1, (March 2005), 42.
by [Perez B](#)
- Males Respond to the Risk of Sperm Competition in the Sexually Cannibalistic Praying Mantis, *Mantis religiosa*** 

Ethology, Vol. 111, No. 9, (September 2005), pp. 836-848.
by [Prokeš P](#), [Vaclav R](#)

Everyone's Tags

Most active tags on CiteULike

Filter:

algorithm
algorithms analysis
anthropology architecture
art bioinformatics blog
cancer classification
clustering cognition
collaboration
communication
community complexity
computing context
culture data database
design
development dna
docking dynamics
economics education

Citeulike.org

Openly Informatics OpenURL Extension

hubmed help login free clipboard (0) [x] history tags feeds

Search: **nanotechnology**

Results 1-20 of 5322

All Display Checked Abstracts Show Extracts

0

1 **What challenges offers nanotechnology to bioethics?**

Susanne C, Casado M, Buxo MJ
Law Hum Genome Rev. 2005 Jan-Jun ; : 27-45

Abstract FullText  Clip Export Related Cites

2 **Where the worlds of nanotechnology, materials science, and bioanalysis converge.**

Karst U
Anal Bioanal Chem. 2005 Dec 30; 1

Abstract FullText  Clip Export Related Cites

3 **Self-assembled drug delivery systems 1. Properties and in vitro/in vivo behavior of acyclovir self-assembled nanoparticles (SAN).**

Jin Y, Tong L, Ai P, Li M, Hou X
Int J Pharm. 2005 Dec 22;

Abstract FullText  Clip Export Related Cites

**HubMed.org – an alternative interface to PubMed
Medical Literature Database**

Openly Informatics OpenURL Extension



Canary Database
Animals as Sentinels of Human Environmental Health Hazards

Public Beta
Please contact us with your comments.


Search: [Advanced Search](#)

<p>Browse by</p> <ul style="list-style-type: none"> Author Exposure Journal Methodology Outcome Risk Factor Species Year <p>Using the Database</p> <ul style="list-style-type: none"> Description Take a tour How to search Linkage to human health Study methodologies Glossary <p>About the project</p> <ul style="list-style-type: none"> What are animal sentinels? 	<p>Home</p> <p>Environ Pollut. 2004 Jul;130(2):263-74</p> <p>Macroinvertebrate response to acid mine drainage: community metrics and on-line behavioural toxicity bioassay.</p> <p>Gerhardt A, Janssens De Bisthoven L, Soares AM</p> <p>Department of Biology, University of Aveiro, P-3180-193 Aveiro, Portugal. limco.int@t-online.de</p> <p>Article type: Curated - Canary ID: 826</p> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <thead> <tr style="background-color: #ffffcc;"> <th>Canary data</th> <th>Abstract</th> <th>MEDLINE</th> <th>Related</th> <th>Export</th> </tr> </thead> <tbody> <tr> <td style="vertical-align: top;"> <p>MeSH Terms</p> <ul style="list-style-type: none"> Acids/an [Analysis] *Acids/to [Toxicity] Animals Biological Assay/mt [Methods] Cyprinodontiformes/ph [Physiology] Ecosystem *Environmental Monitoring/mt [Methods] Fresh Water/ch [Chemistry] Geologic Sediments/ch [Chemistry] Hydrogen-Ion Concentration Industrial Waste/ae [Adverse Effects] *Invertebrates/de [Drug Effects] Invertebrates/ph [Physiology] *Mining Penaeidae/ph [Physiology] Support, Non-U.S. Gov't </td> <td style="vertical-align: top;"> <p>COinS:</p> <p></p> <p>PMID: 15158039</p> <p>Go to Pubmed:</p> <p>[This Article] [Related Articles]</p> <p>Registry numbers</p> <p>0 (Water Pollutants, Chemical)</p> </td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Canary data	Abstract	MEDLINE	Related	Export	<p>MeSH Terms</p> <ul style="list-style-type: none"> Acids/an [Analysis] *Acids/to [Toxicity] Animals Biological Assay/mt [Methods] Cyprinodontiformes/ph [Physiology] Ecosystem *Environmental Monitoring/mt [Methods] Fresh Water/ch [Chemistry] Geologic Sediments/ch [Chemistry] Hydrogen-Ion Concentration Industrial Waste/ae [Adverse Effects] *Invertebrates/de [Drug Effects] Invertebrates/ph [Physiology] *Mining Penaeidae/ph [Physiology] Support, Non-U.S. Gov't 	<p>COinS:</p> <p></p> <p>PMID: 15158039</p> <p>Go to Pubmed:</p> <p>[This Article] [Related Articles]</p> <p>Registry numbers</p> <p>0 (Water Pollutants, Chemical)</p>			
Canary data	Abstract	MEDLINE	Related	Export							
<p>MeSH Terms</p> <ul style="list-style-type: none"> Acids/an [Analysis] *Acids/to [Toxicity] Animals Biological Assay/mt [Methods] Cyprinodontiformes/ph [Physiology] Ecosystem *Environmental Monitoring/mt [Methods] Fresh Water/ch [Chemistry] Geologic Sediments/ch [Chemistry] Hydrogen-Ion Concentration Industrial Waste/ae [Adverse Effects] *Invertebrates/de [Drug Effects] Invertebrates/ph [Physiology] *Mining Penaeidae/ph [Physiology] Support, Non-U.S. Gov't 	<p>COinS:</p> <p></p> <p>PMID: 15158039</p> <p>Go to Pubmed:</p> <p>[This Article] [Related Articles]</p> <p>Registry numbers</p> <p>0 (Water Pollutants, Chemical)</p>										

The Canary Database

Resolver : A Success

NIST Virtual Library
NIST
National Institute of Standards and Technology



Your article:
Author: Quake, SR
Title: From Micro- to Nanofabrication with Soft Materials
Journal title: Science
Volume: **Issue:** **Date:** 2000 **Pages:**

[Too many results? Refine your search](#) Result Page: [1](#) [2](#) [3](#) [4](#) [5](#) [6](#) [Next](#)

Science ISSN: 0036-8075

available from *American Association for the Advancement of Science* -->Find title -->Go to TOC -->Find abstract -->Find article **Full Text:** April, 1997 - present

- [Journal Home Page](#)
- published by [American Association for the Advancement of Science](#)
- [Links to Tables of Contents](#) for this journal
- [Links to Abstracts](#) for this journal
- [Links to Full Text](#) for this journal


Science Activities ISSN: 0036-8121

available in *Wilson Select Plus* **Full Text:** 1996 - 2005 (v32 - v42 f1)

Recognized by Washington Edpress for overall excellence in a journal, Science Activities offers a wealth of creative science projects and curriculum ideas for the K-12 classroom teacher. Written by educators, the articles cover a wide range of topics in the biological, physical, environmental, and behavioral sciences. The teacher-tested activities described are inexpensive and provide true hands-on experiences for students. Regular departments include news notes (on exhibits, films, videos, and contests), computer news, classroom aids, and book reviews.

- [Journal Home Page](#)
- published by [Heldref Publishing](#)
- Categories: [Teacher Education](#) [Curriculum Studies](#)

Resolver : A “Failure”

NIST Virtual Library  **NIST**
National Institute of Standards and Technology

Your article:
Author: Rose - Materials Evaluation(USA), JL
Title: Standing on the shoulders of giants: an example of guided wave inspection
Journal title: Materials Evaluation(USA)
Volume: Issue: Date: 2002 **Pages:**

Materials Evaluation(USA)
-->

Materials Evaluation(USA)
-->NIST Research Library OPAC

Request this Article: Rose - Materials Evaluation(USA), JL *Materials Evaluation(USA)* (2002),
Request this item -->

Information About this Author *Rose - Materials Evaluation(USA),*
Search At -->NIST Research Library OPAC

Information About this Title *Standing on the shoulders of giants: an example of guided wave inspection*

Those Websites Not Participating

- For those sites not supplying links to CrossRef/others or COinS some massaging of their content using Greasemonkey scripts may occur.
- This occurs on a site by site basis.
 - Pros/Cons

Other Marketing Methods

- [WAG the Dog Web Localizer](#) – a PHP application from Georgia Tech.
- [LibX](#) – Virginia Tech Firefox extension.

Thanks For Listening

Questions?

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