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The search engine for scientific
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covering both web- & database sources

ACS Chicago, 27 August 2001

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SCIRUS

Femke Markus

Product Manager
SCIRUS

f.markus@elsevier.nl

Presentation Outline

- Introduction Scirus
- Technology
- HUSAT Study
- Future plans

Introduction Scirus

- Developed by Elsevier Science in co-operation with FAST

FAST is a search technology company, developed the search engine alltheweb.com

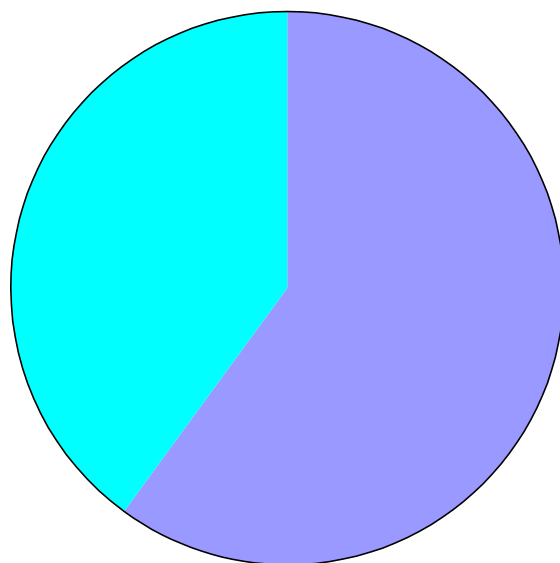
- Pre-launch December 5, 2000
- Launched on April 1, 2001

Aim Scirus

Provide scientists with one single search platform which covers both web and database sources

Web sources

40%



Database sources

60%

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Web vs Membership Sources

- **Web sources** > 60 million web pages
- **Membership sources**
Access control (subscription / registration)
 - MEDLINE: 11 million citations
 - ScienceDirect: 1.3 million articles
 - Beilstein: 600.000 abstracts
 - Neuroscion: 500 news items

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Searched for all of the words **aluminoxane**. Results 1 - 10 of **124** documents.

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Web Results



- 1 [Effect of aluminoxane on semi-batch polymerization of ethylene using zirconocene dich...](#)

Charpentier, P.A. / Zhu, S. / Hamielec, A.E. / Brook, M.A.

Polymer, Dec 1998


Several types of commercial and developmental aluminoxanes were studied in the semi-batch polymerization of ethylene using bis (cyclopentadieny) zirconium dichloride (Cp₂ZrCl₂). High temperature gel permeation chromatography (GPC) measurements of polyethylene (PE) formed using various types of aluminoxanes approximated Flory's most probable distribution...

Full text article available from **SCIENCE@DIRECT**

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J. Chem. Soc. Chem. Commun., 1983

Relevant terms/keywords: trimethylaluminium, cacodylate, x ray crystal.

Beilstein Abstract on  [ChemWeb.com](#)


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6 [NEW POLYMERS BY OLEFIN POLYMERIZATION WITH ALUMINOXANE CONTAINING CATALYSTS](#)

Kaminsky, Walter / Moeller-Lindenhof, Nico

Bull. Soc. Chim. Belg., 1990

Relevant terms/keywords: active catalyst, catalysts, polymerization, olefins, metallocenes, soluble, syntheses, polyolefins, ligands.

Beilstein Abstract on  [ChemWeb.com](#)

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7 [Catalysis Research and Testing Center - History of Catalysis - Text File](#)

1st DECADE 2nd DECADE 3rd DECADE 4th DECADE 5th DECADE Burt Davis University of Kentucky Center for Applied Energy Research 2540 Research Park Drive, Lexington, KY 40511-8410 1st DECADE: 1949 - 1958 Late 1940s- Robert M. Milton and Donald W. Breck, Union Carbide, develop Early 1950s: commercial synthesis for zeolites - A, X, and Y types. Late 1940s- Eugene Houdry develops Last modified 08/01/01

<http://crtc.caer.uky.edu/text.htm>

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8 [pubcollab](#)

BARRON RESEARCH GROUP Publications - with outside collaborations (underlined) Electronic structure and bonding in four-coordinate organometallic complexes of aluminum. The valence photoelectron spectra of BHT-H, Me₃Al(PMe₃) and Me₂(BHT)Al(PMe₃). D. L. Lichtenberger, R. H. Hogan, M. D. Healy, and A. R. Barron, *J. Am. Chem. Soc.*, 1990, 112, 3369. Silicon based coatings on niobium Last modified 07/31/01

<http://python.nice.edu/~arb/pubcollab.htm>

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9 [Schottenberger - selected publications](#)

Novel Class of Morphinans with Acrylonitrile Incorporated Substructures as Key Intermediates for Non-Oxygen-Bridged Opioid Ligands Elisabeth Greiner, Herwig Schottenberger, Klaus Wurst, and Helmut Schmidhammer *J. Am. Chem. Soc.* (2000), 123(16), 3340-3341 Abstract / pdf Image Semimasked 1,1'-Diethynylferrocenes Synthetic Concepts Preparations and Reactions

3340-3341. Abstract / pdf Image Semumasked 1,1'-Diethynylferrocenes. Synthetic Concepts , Preparations , and Reactions
Herwig Last modified 07/01/01
<http://tci002.uibk.ac.at/staff/schottenberger/refs...> [More Like This Result](#) [Email This Result](#)

10 C400 Chemical Information Sources and Services Patent Example 03

WPINDEX Search Illustrating Left- and Right-Hand Truncation From: PO1::"CHMINF-L@IUBVM.UCS.indiana.edu" "CHEMICAL INFORMATION SOURCES DISCUSSION LIST" 5-JAN-1994 13:55:09.40 To: Multiple recipients of list CHMINF-L CC: Subj: Dow Patent ----- Information from the mail header ----- Sender: CHEMICAL INFORMATION SOURCES DISCUSSION LIST Poster: "Ellen Last modified 08/02/01
<http://www.indiana.edu/~cheminfo/wpindex1.html> [More Like This Result](#) [Email This Result](#)

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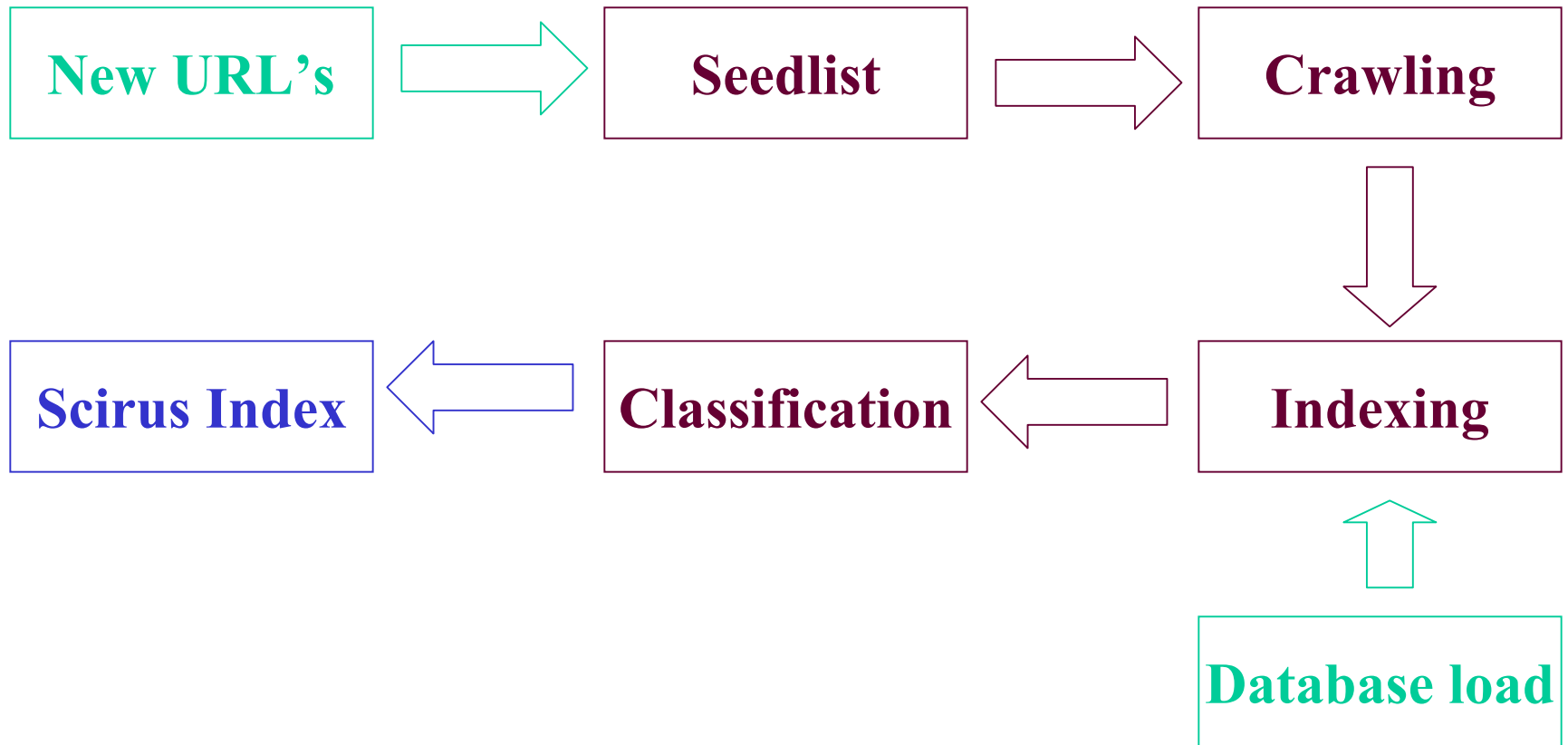
Refine Your Search

Polymerization	Metallocene	Catalysis	Zirconocene
Catalysts	Olefin	Olefin polymerization	Propylene
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And all of the words [Refine](#)

Technology

Scirus data processing




Indexing process

1. Indexes in depth
2. Data is classified into subject categories
3. Web data is classified into the document types; full text article and home page
4. Database source content is classified into document types based on source, e.g. patents
 - Indexes non-text files (pdf, ps, word files)
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HEADLINES >

[Plastic Recycling in Sacramento, Calif., Area Becomes Numbers Game](#)
The Sacramento Bee
Aug 22, 11:50 PM

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Houston Chronicle
Aug 22, 09:10 AM

[Chemists report high employment, salary increases in 2001](#)
American Chemical Society News Service
Aug 20, 11:26 AM

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Dawg Spill Control Products Manufacturer United States

Providing comprehensive spill control solutions, compliance reference training, and other environmentally friendly products and services to help keep a cleaner, safer and more efficient workplace.

URL: <http://www.dawginc.com> in English in [Categories](#)
[[More relevant pages from this site](#)]

- 1. Cylinder Storage Rack, Dolly and Accessories**
Transport & Store Cylinders Safely & Conveniently. CYL111 – 6 Cylinder Storage Rack, forkliftable and handles 3-10". CYL113 – 4 Cylinder Storage.
URL: http://www.dawginc.com:80/cgi-bin/public/director.cgi?CODE=9837207547067&LINK=/products/prod_75.htm
Relevance: 100.00% Last modified on 26-May-2001 - 32K bytes - in English

- 2. Cylinder Storage Rack, Dolly and Accessories**
Transport & Store Cylinders Safely & Conveniently. CYL111 – 6 Cylinder Storage Rack, forkliftable and

this is the place. Extensive links to sites offering corporate information in over 80 countries.

URL: <http://www.corporateinformation.com> in English in [Category](#)

[[More relevant pages from this site](#)]

8. [CHARGEURS Fabrics: Additional acquisitions and Dolly program](#)

nbsp; Main Menu · France menu. Company Profile. Research Report. Analysis Summary. Sales Analysis. Price Analysis. Earnings Analysis....

URL: http://www.corporateinformation.com:80/cgi-bin/prlinenews.asp?id=fr_en213809.xml

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9. [Dolly Parton](#)

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URL: <http://www.infoplease.com:80/ipea/A0760844.html>

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[Pharmaceutical Technology](#)

[Business Info.](#)

[United Kingdom](#)

The pharmaceutical industry's international product and service supplier catalogue. With an extensive global events and conference diary, global associations directory, projects and industry links.

URL: <http://www.pharmaceutical-technology.com> in English in [Category](#)

[[More relevant pages from this site](#)]

10. [Pharmaceutical Technology - Dolly the sheep is PPLs most famous breakthrough](#)

Expanded image - Lothian -

URL: <http://www.pharmaceutical-technology.com:80/projects/lothian/lothian1.html>

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1 [Professor Oliver Dolly](#)
Synaptic transmission in the nervous system Synaptic transmission in the nervous system Professor Oliver **Dolly** (Professor of Molecular Neurobiology) Dr Yuri Ushkaryov (Wellcome Senior European Research Fellow) A black mamba snake - its venom is a source of dendrotoxin A major goal of our ongoing research is to decipher the molecular mechanisms of exocytosis and its regulation, by Last modified 06/30/01
http://www.bc.ic.ac.uk/research/dolly/dolly_intro... [More Like This Result](#) [Email This Result](#)



2 [Dolly Diane P. Loyd](#)
University of Southern Mississippi's Business School: Ms. **Dolly** Diane P. Loyd University of Southern Mississippi College of Business Administration Marketing **Dolly** Diane P. Loyd, Instructor **Dolly**.Loyd@usm.edu 306H Joseph A. Greene Hall (601) 266-4633 (Office) (601) 266-4630 (Fax) Teaching Current Research Vita Faculty Profile Specialty Field: Retailing Education: The University of Last modified 08/03/01
<http://www-dept.usm.edu/~mkt/Loyd/loyd.html> [More Like This Result](#) [Email This Result](#)

3 [Human Cloning Foundation](#)
Interviews with R. Wicker Mission Statement Update (May 2001) Report on Antinori's Conference All the Message Boards Cloning Discussion Board Help for students F. A. Q. Board Today's News Screening Safety Contents Essays 1 Essays 2 Books People Newsletter Links Thank you for being visitor number: 824919 Affiliated with: (July 2001): Science and Cloning "LaunchPad" Plus Last modified 07/30/01
<http://www.humancloning.org/> [More Like This Result](#) [Email This Result](#)

57 [Cloning: why Dolly was such a surprise](#)

Cloning: why **Dolly** was such a surprise The Problem: When the birth of **Dolly** was announced, developmental biologists worldwide expressed both surprise and some doubt, especially since there was only one **Dolly** and there is always a possibility of some special explanation of unique events. The need for repetition in scientific research is a necessary precaution against such events Last modified 08/02/01

<http://biosci192.bsd.uchicago.edu/cloning.html>

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58 [NJ, USA](#)

Cluster Computing Info Centre Cluster Computing Info Centre A review in PDCP Journal The review on the book by Prof. Patnaik appeared in IEEE Concurrency, Jan.-March 2000. The Age, an Australian News Paper featured the book Vol. 1 -- High Performance Cluster Computing: Architectures and Systems, Rajkumar Buyya (editor), ISBN 0-13-013784-7, Prentice Hall PTR, NJ, USA, 1999. Preface Last modified 07/31/01

<http://www.csse.monash.edu.au/~rajkumar/cluster/>

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59 [Welcome to the WiMDA Home Page](#)

Welcome to the WiMDA Home Page WiMDA is Francis Pratt's Muon Data Analysis program for Windows 95/98/NT/2000 Raw data formats currently recognised by WiMDA: ISIS (MCS format i.e. MUSR/EMU/ARGUS) PSI (BIN and DAT formats from GPS/LTF/GPD/**DOLLY**) KEK (pi port and mu port) TRIUMF (TRI format) WiMDA is now complete enough for basic muon data analysis, but various additional features Last modified 06/30/01

<http://jalFREZI.nd.rl.ac.uk/wimda/>

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60 [G.R.A. Utku Dinçer Huron Playhouse](#)

July 3 - July 7 The Classic Award Winning Musical Hello, **Dolly** Music and Lyrics by Jerry Herman Book by Michael Stewart July 10 - July 14 The New Off Broadway Comedy Over The River and Through the Woods By Joe Di Pietro July 17 - July 21 The Witty and Charming Musical Dames at Sea Book and Lyrics by George Haimsohn and Robin Miller Music by Jim Wise July 24 - July 28 The Last modified 08/01/01

http://www.firelands.bgsu.edu/arts/huron_playhouse...

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HUSAT Study

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HUSAT Study

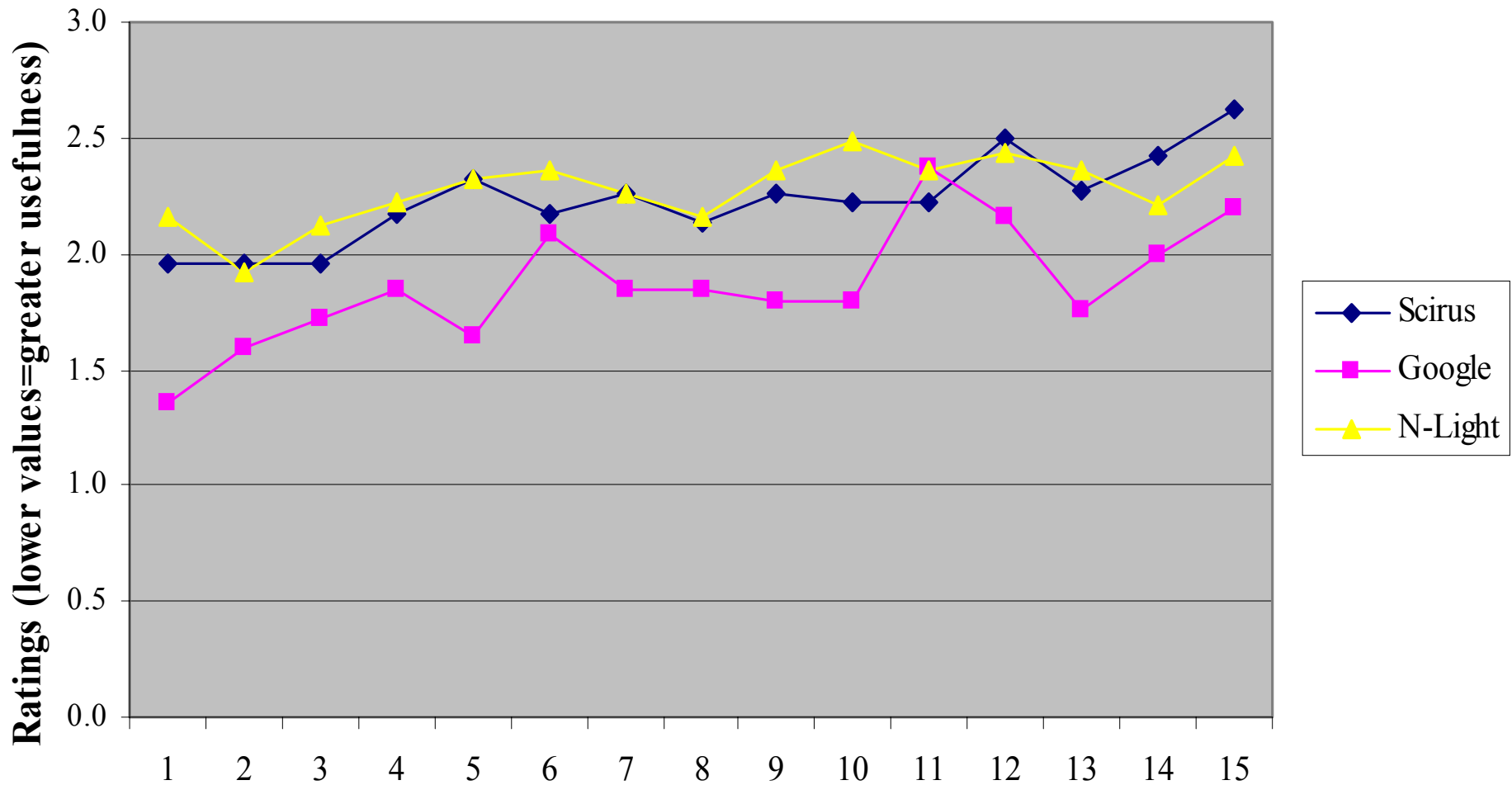
- Goal: compare Scirus with Google and Northern Light.
- HUSAT Research Institute, Loughborough University
- Users were not aware that study was performed for Elsevier
- March 2001 (on beta release Scirus), second study planned for September 2001

Method

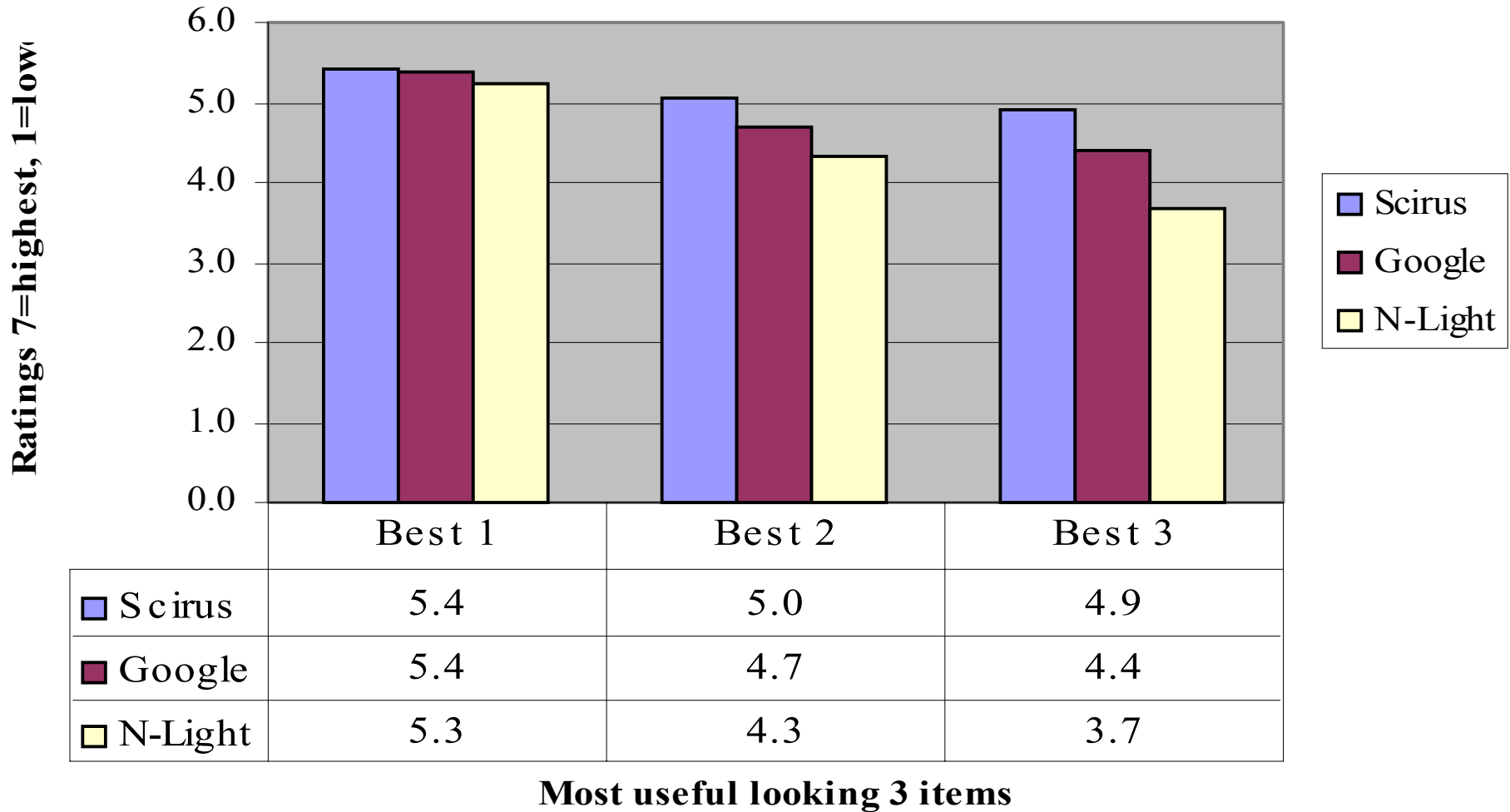
26 researchers from 6 different subject areas
applying queries from their own area

- rate usefulness of the first 15 items presented on results page
- inspect the 3 most useful looking web-sites
- indicate preferred search engine for different characteristics

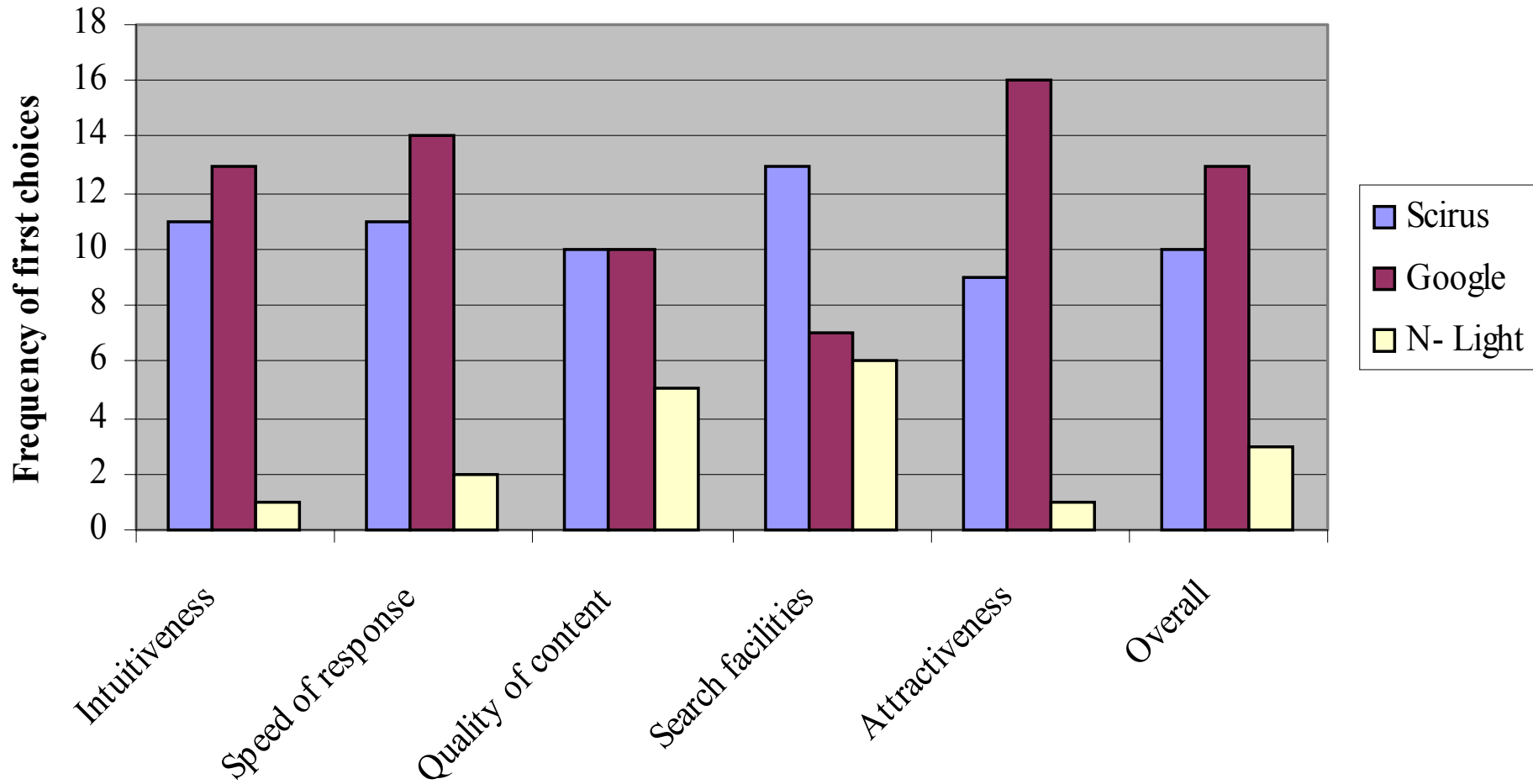
Usefulness of first 15 items



Ratings of actual sites



Preferred search engine for different characteristics



Conclusions

- Scirus made good impact and compares well with the established competitors
- Study was performed on Scirus beta release
- 10 out of the 26 used Google before
- Future Scirus versions could benefit from considering some of the other search engine features / lay out

Future plans

Future Functionalities

- Ranking by date
- Extend the number of subject areas:
Law, Sociology, Psychology, Language and Linguistics, Political Science
- Recognition of more content types like:
conferences.
- Personalization area (save your search)

Content Development

- Extend seedlist further (submit your URL button)
- Index more .pdf and .ps files
- Index more scientist homepages
- Add more proprietary content:
patents, journals, A&I databases
- Ensure comprehensive coverage of all fields

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