

CROSBI

A tool for monitoring scientific productivity

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some considerations

- ❑ science is universal, the results of scientific research must be collected, stored and disseminated
 - ❑ scientific research is an important issue for any country (including developing ones)
 - ❑ being a part of a global research network makes influence on local science
 - ❑ new communication patterns affect local scientific research
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How to make scientific work known?

- scientometric analyses report that 12 countries were responsible for more than 85% of research papers (Schubert, 1989)
 - Well known journals
 - Mostly in English
 - smaller countries have trouble making their scientific work known
 - Croatian researchers publish to get recognition from the international scientific community
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Snapshot of Croatia

- ❑ less than .1 percent of world population (4.4 million for entire country)
 - ❑ four universities, 27 scientific institutes, one nonuniversity college, seven polytechnics, 19 schools of higher learning and 66 faculties, academies of art and institutions of higher religious education
 - ❑ 6772 FTE & 1000 PTE scientists/researchers
 - ❑ more than a half of the researches (52,9%) are located at the university affiliated institutions, 12,4% are in public institutes and 6,3% in industrial research units/institutes
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Science in Croatia...

- ❑ financed through 1660 scientific research projects (July 2002-) governed by three-year contracts
 - ❑ scientific achievements are evaluated according to the qualification criteria set up by the Scientific Field Councils
 - ❑ academic feedback also includes published papers presenting project achievements
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Science in Croatia

- ❑ 1990: \$86,600 a year on R&D per researcher
- ❑ 1991: About \$10,800 a year on R&D per researcher
- ❑ {2001: About \$24,821 a year on R&D per researcher}*

Much is funded through the Ministry of Science & Technology

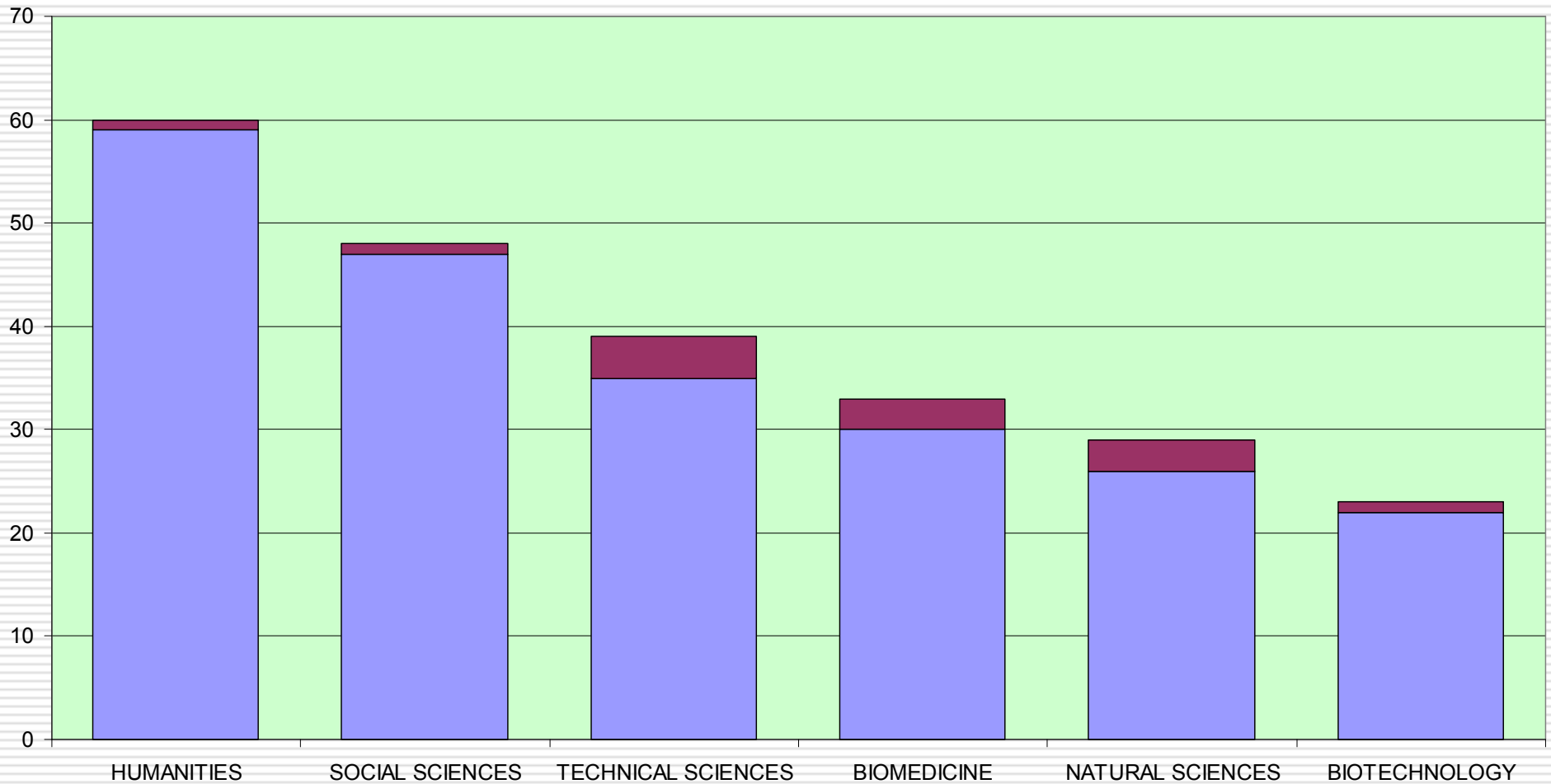
GERD: Sweden 3.8, USA 2.91, Japan 2.75, Germany 2.44, Slovenia 1.51, Czech Republic 1.26, Italy 1.03, **Croatia 0.98**, Russian Federation 0.82, Slovakia 0.68

* based on \$4,625 GDP, 4.4 mil. population and 8,000 researchers

Local journals

- ❑ published by scientific societies and academic institutions fighting for budgets
 - ❑ edited by small teams of scientists that voluntarily take care of the entire editorial work, including peer review, proof reading, printing preparation, distribution policies, etc.
 - ❑ poor distribution
 - ❑ yearly struggle for public funds
-

**LOCAL JOURNALS #FIELD (TOTAL 232)
only 5.6% are included in ISI publications**



Bibliographies in Croatia

- ❑ ***Bibliografija hrvatska*** 1860 and 1863 (all publications from 15th century to the 1863)
 - ❑ **Croatian National Bibliography** issued by National and University Library which is organised in three sections (A-monographs, B-serial Sciences and C-serial Arts, Humanities and Social Sciences)
 - ❑ **Biomedicina Croatica**
 - ❑ Bibliografija radova znanstvenih radnika SR Hrvatske : 1971-1978 (Maričić S. et al)
 - ❑ other local institutional, thematic and personal bibliographies
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Why CROSBIB?

- ❑ only part of Croatian scientific production is covered by local bibliographies
 - ❑ only part of Croatian scientific production is included in international DB
 - ❑ the need to include other types of documents like unpublished papers, reports and nonconventional literature
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MoST crucial role

- ❑ The Ministry of Science and Technology has been collecting data about scientific output for many years
 - ❑ 1992. a decision was made about better organization, management and availability of the bibliographic references collected through annual reports
 - ❑ they recognized librarians as highly competent information professionals to do this job
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CROSBI Goals are to provide:

- a current, comprehensive and accurate information about scientific output in Croatia
- an information about ongoing research projects supported by the Croatian MoST
- an information about publications dealing with specific subject fields
- reports to be used for different purposes
- a full text archive of Croatian publications
- a unique link to the institutional bibliography (all papers assigned to the institutional projects)

- to improve the communication between scientists
- to promote Croatian scientists.

CROSBY Development

- ❑ two developers (physicist/computer specialist & librarian/info specialist)
 - ❑ web and DB administrators
 - ❑ small investment in hardware
 - ❑ no investment in software
 - ❑ network provided by CARNet
 - ❑ maintained on \$10,000 annually
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Unique Aspects of CROSBI

- ❑ bibliography is generated by authors
- ❑ librarians provide forms, standards, monitoring
- ❑ MoST uses CROSBI as a tool (not more a data-keeper)

This provides perspectives on
researcher computer and information
literacy and the changing the role of
librarians

The CROSBY Process

- author enters the data using web templates
 - DB administrator controls the input
 - librarians are monitoring papers assigned to their institutions
 - everyone can search and browse
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CROSBIE advantages

- ❑ Coverage: all areas of science, institutions, publications
 - ❑ Accuracy: ability to correct data
 - ❑ Feedback: creates mechanism for feedback
 - ❑ Monitoring: adds Librarians to monitor
 - ❑ Currency: adds means to keep up to date
-

CROSBI interface

- INPUT
 - EDIT
 - BROWSING
 - SEARCH ENGINE
 - STATISTICS
 - FAQ
 - GUIDELINES AND INSTRUCTIONS
 - Phone, and EMAIL SUPPORT
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Hrvatska znanstvena BIBLIOGRAFIJA

[About the project](#)[Contact](#)[Hrvatski](#)[Browsing](#)[Simple search](#)[Advanced search](#)[Other bibliographies](#)[Similar projects](#)[Catalogues and databases](#)

You have just entered the new version of the Croatian Scientific Bibliography (CROSKI) which stores scientific publications from 1997 onward. The main idea of the project was to establish the service which will collect the data about scientific papers of the current research projects financed by the Ministry of Science and Technology (MST) and to provide access to those data. Today CROSKI serves to give a comprehensive overview of all the literature produced by Croatian scientist: journal articles, books, book chapters, conference papers, theses, reports, manuscripts etc. The data stored in CROSKI database were formerly spread through different and noncommercial foreign databases, national bibliographies and local institutional and personal bibliographies.

Uniqueness of the CROSKI bibliography lies in the fact that the data are provided by scientist themselves, often even before the paper has been published. CROSKI provides a digital archive of full-text papers also through very simple upload procedure during the input. You can find downloadable electronic versions of all papers that are supplied by authors and are not protected by external copyright; abstracts of the papers; etc. Monitoring of the database is ensured by librarians who are correcting the data and communicating with scientist to improve the accuracy of the data.

With time CROSKI has evolve into the comprehensive bibliography of all scientific publications in Croatia. The data stored in the database are used for many purposes as:

- annual project reports (to the MST)
- new project evaluation
- scientific advancement
- current bibliographies of the scientific institution
- personal bibliographies
- current research data

In the new version many existing features has been improved (searching and browsing) and some new are



[Browsing](#)

[Simple search](#)

[Advanced search](#)

[Other bibliographies](#)

[Similar projects](#)

[Catalogues and databases](#)

Browsing papers

Current projects (2002-):

- Projects
- Research fields
- Academic and research institutions
- Statistics by projects

All papers from 1996. (neglecting project duration):

- List of all projects (unofficial list - data from "project" database field)
- Active scientists (with at least one uniquely matched paper in the database)
- Statistics by authors

1996-2002 period

- Programmes
- Projects and themes
- Research field
- Academic and Research institutions
- Statistics by projects

List of papers regarding project number

All years

Specific year 2002

Time period 1996 2002

Project number: Example: 00980101

[List](#)



[Browsing](#)

[Simple search](#)

[Advanced search](#)

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Advanced search

Query should be at least three characters long:

	Author	<input type="text"/>	Peric, Pero
and	Title	<input type="text"/>	spectral statistics
and	Keyword	<input type="text"/>	fractal
and	Project	<input type="text"/>	0098001
and	Year	<input type="text"/>	2002

Your query is:

[Search](#)

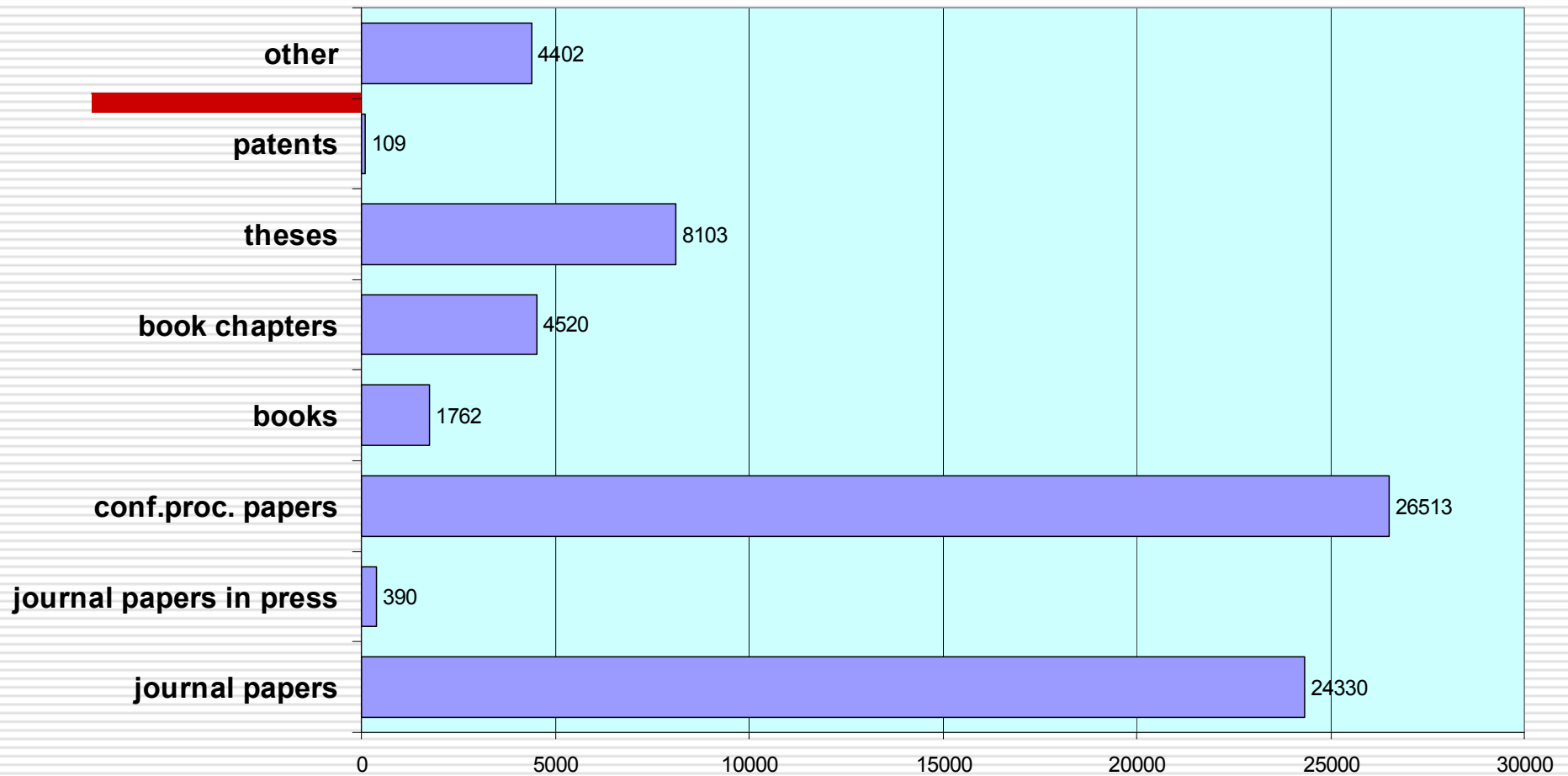
Please, exclude type of the publication you are not interested in:

- | | |
|--|---|
| <input checked="" type="checkbox"/> Book | <input checked="" type="checkbox"/> Invited papers |
| <input checked="" type="checkbox"/> Book chapter | <input checked="" type="checkbox"/> Other conference papers |
| <input checked="" type="checkbox"/> Textbook | <input checked="" type="checkbox"/> Conference abstracts |
| <input checked="" type="checkbox"/> Scientific papers in CC journals | <input checked="" type="checkbox"/> Conference papers (international peer review) |
| <input checked="" type="checkbox"/> Professional and other papers in CC journals | <input checked="" type="checkbox"/> Dissertations and master thesis |
| <input checked="" type="checkbox"/> Papers in other journals | <input checked="" type="checkbox"/> Bachelor thesis |
| <input checked="" type="checkbox"/> Submitted papers | <input checked="" type="checkbox"/> Other papers |
| <input checked="" type="checkbox"/> Article in a journal stated in NN 2/97 | <input checked="" type="checkbox"/> Patents |

CROSBİ Content

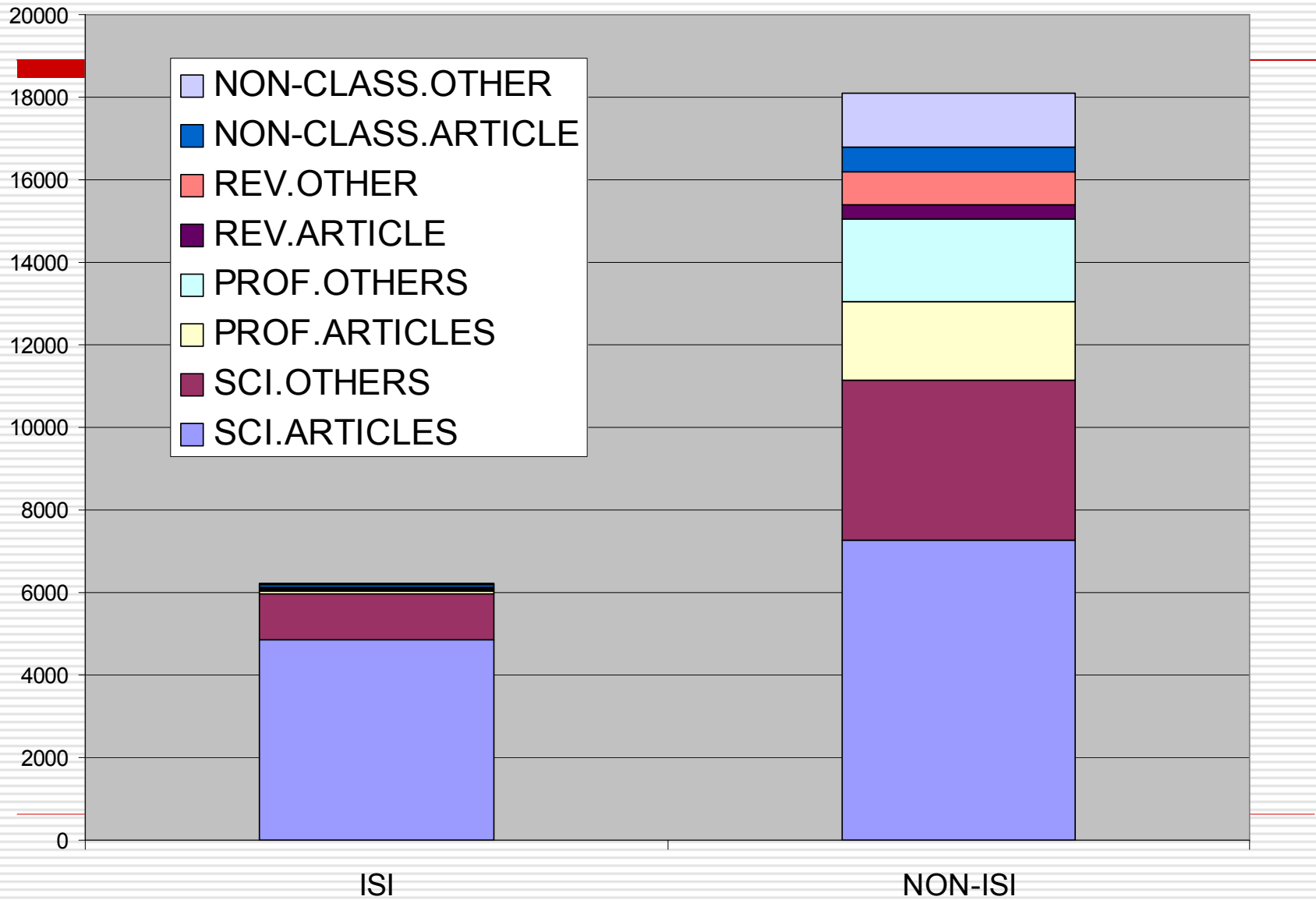
1. Journal paper (journal article, review article, conference proceedings paper, letter, bibliography, news, editorial, comment, note, discussion, survey, etc.)
2. journal paper in press
3. book
4. book chapter
5. textbook
6. dissertation, master's thesis, graduate thesis
7. conference proceedings paper
8. patent
9. other types of paper (technical reports etc.)

CROSBIB - BIBLIOGRAPHIC RECORDS BY THE PAPER TYPE (70129 TOTAL)

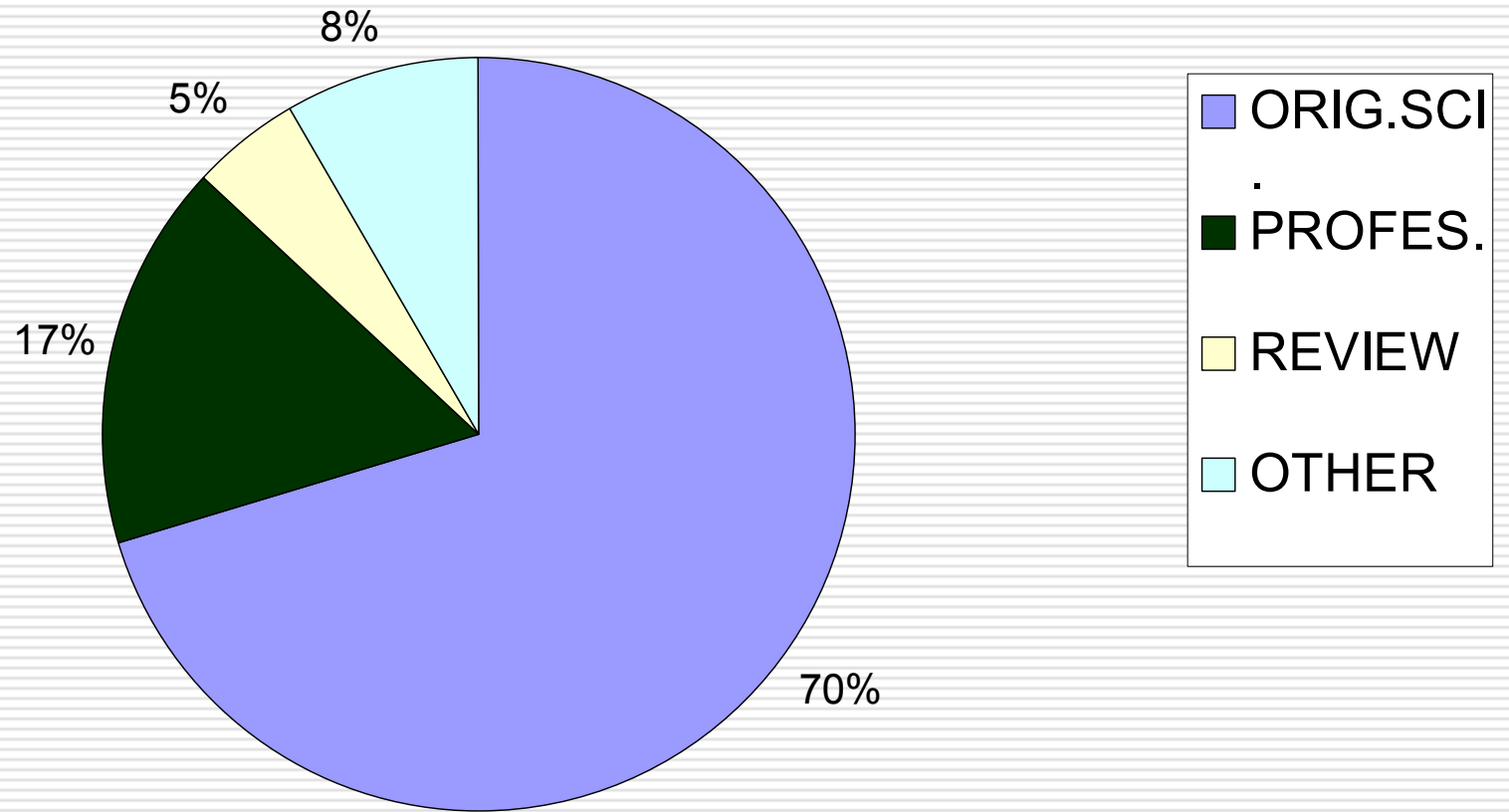


Scientific output from all MoST
projects 1997-2003

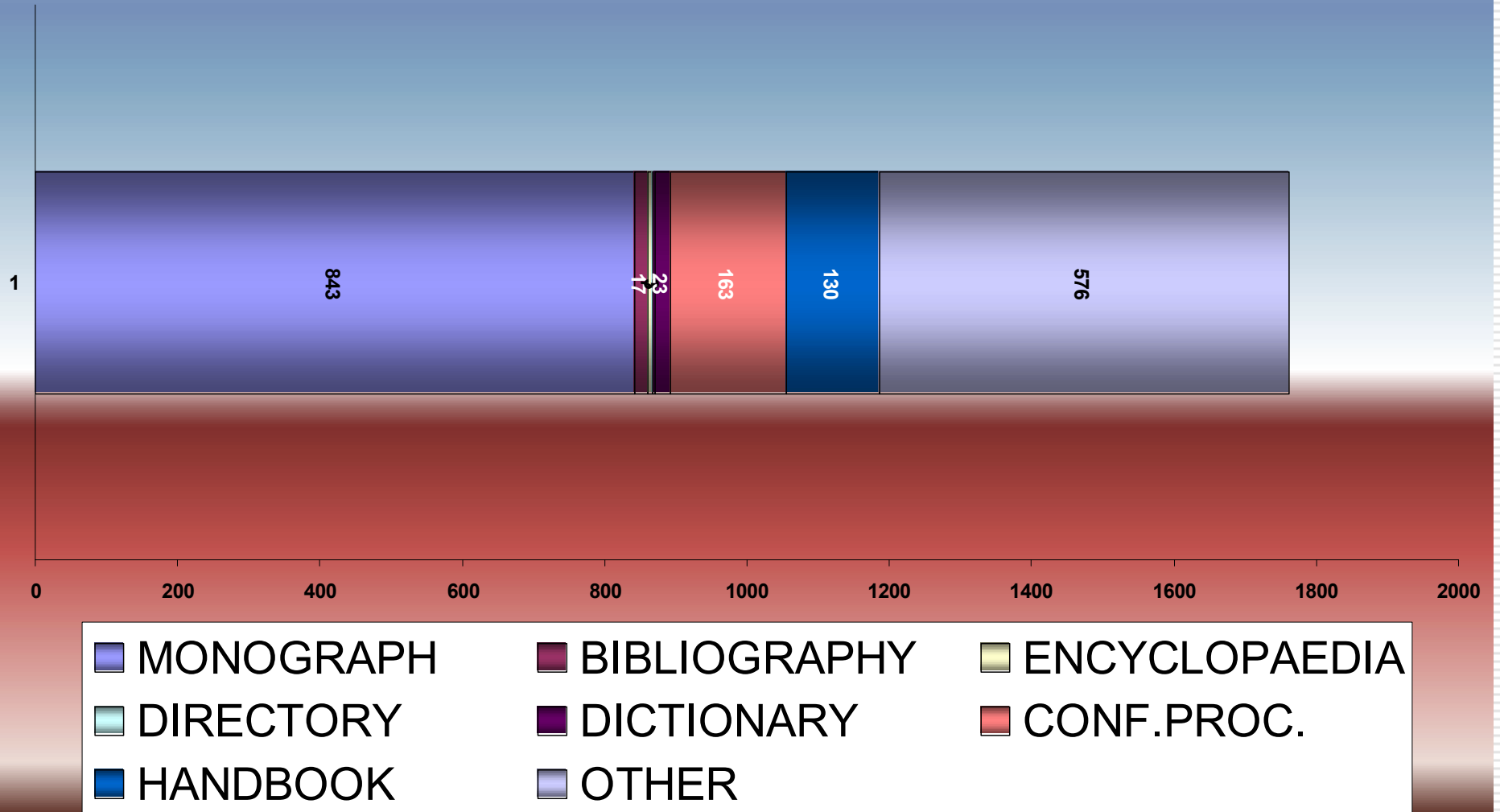
JOURNAL PAPERS #TYPE#CATEGORY (24330 TOTAL)



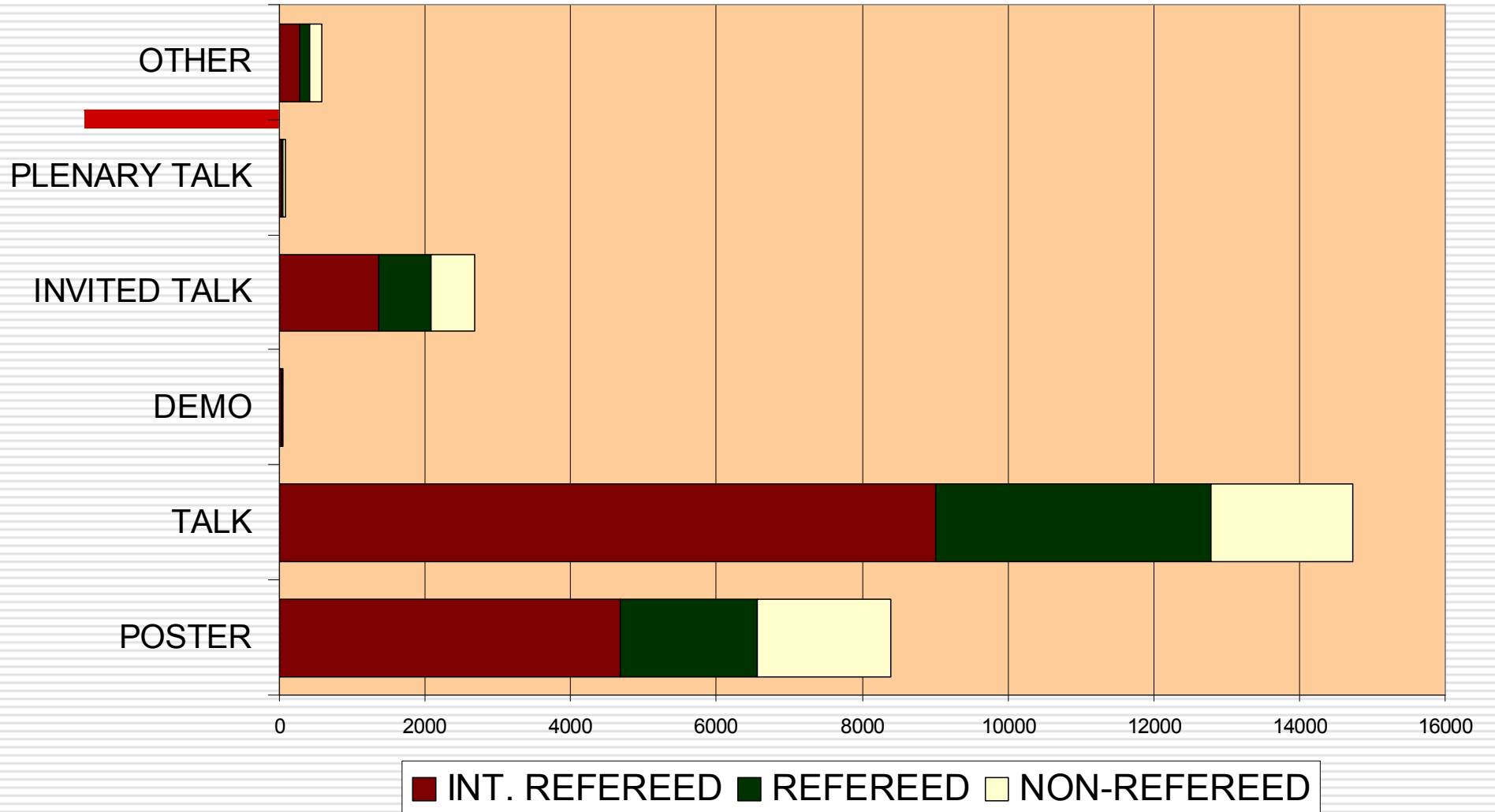
JOURNAL PAPERS BY CATEGORY (24330 TOTAL)



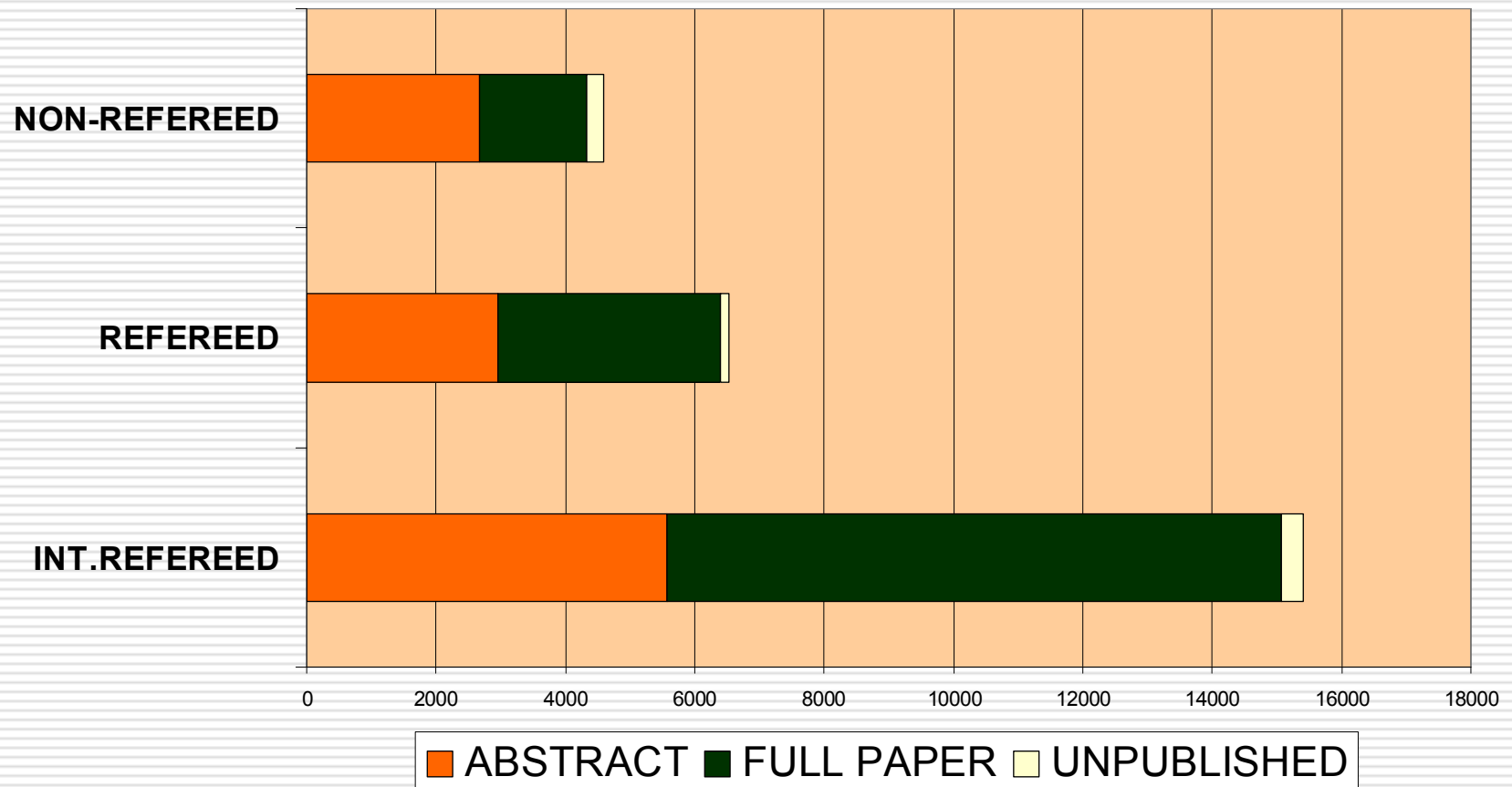
BOOKS #TYPE (1762 TOTAL)



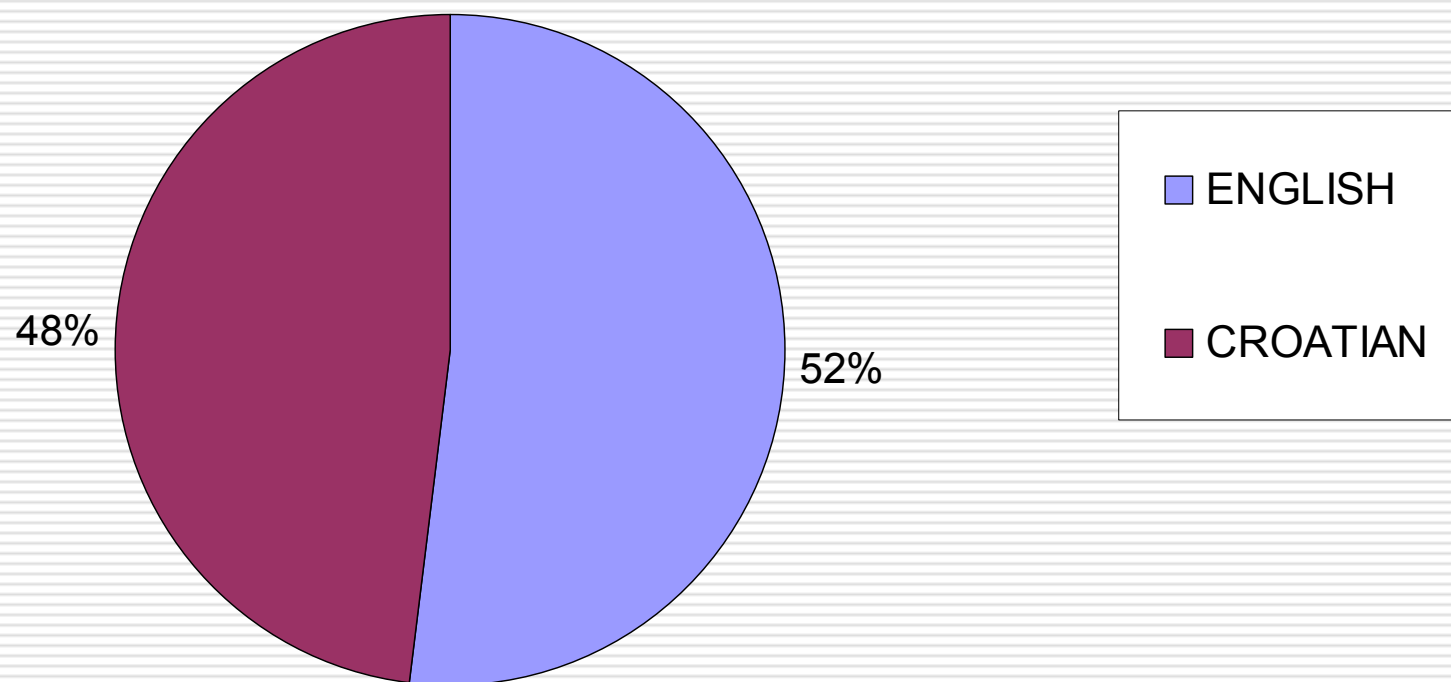
CONFERENCE PAPERS #TYPE OF THE PRESENTATION



**CONFERENCE PAPERS #REFEREEING PROCESS
#PRESENTATION IN THE CONF. PROC. (26513 TOTAL)**



JOURNAL PAPERS BY LANGUAGE (24330 TOTAL)



Ongoing system improvements

- input control / authority databases (journals, publishers, authors, project names, institutions, etc.)
- different kind of reports
- customizing options for sorting, printing and saving functions;
- customization (My CROSBİ)
- automatic indexing
- possibility to download (upload) the data from (to) different systems; Download based on notification
- search improvements (Boolean, proximity, fuzzy);
- new types of work inclusion: courses, curricula
- more library professionals included in the DB maintenance;

Plans for the future:

- ❑ full text archive improvements with standard network formats and open public access, copyright issues – requires better organisation of all the participants on the national level;
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More plans for the future

- ❑ data exchange with other DB, e.g. Croatian researchers database (EZRA);
- ❑ data exchange with commercial and noncommercial bibliographic and full text DB;
- ❑ bibliographic, document exchange (CERIF);
- ❑ hypertext and multimedia
- ❑ harvesting the Croatian domain
- ❑ delivery of works (a collection of files) from the individual publishers.

Significance of this Project

- done inexpensively
 - increased visibility of research
 - utilizes librarian skills
 - enhances researcher participation to increase accuracy
 - provides national visibility
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My thanks to:

- my colleague Ivo Batistić
 - Ministry of Science and Technology

 - audience
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