

Strukture in prenos podatkov

1. del

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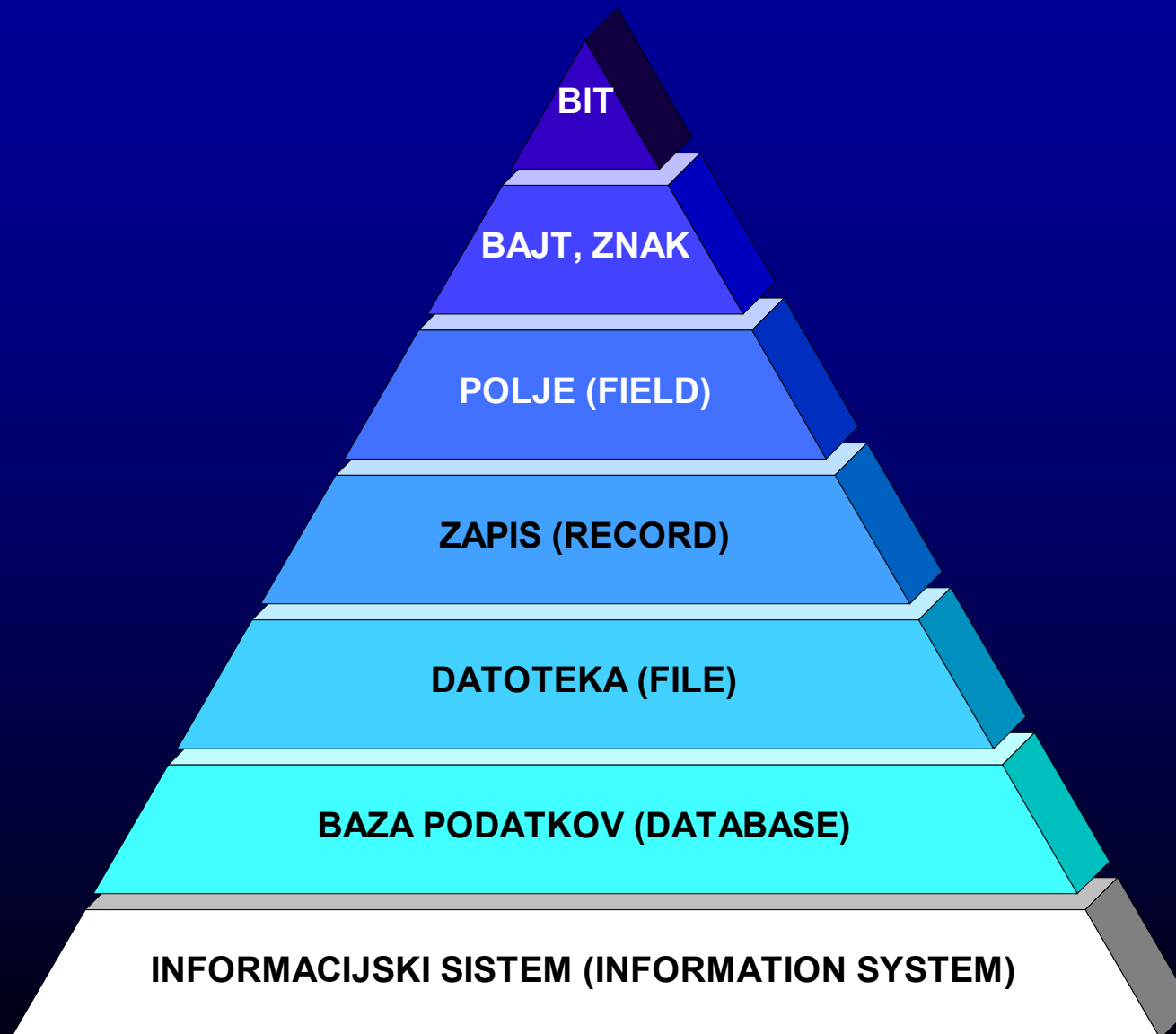
BOJANA.BOH@NTF.UNI-LJ.SI

Datum zadnje spremembe: 10. 2. 2005

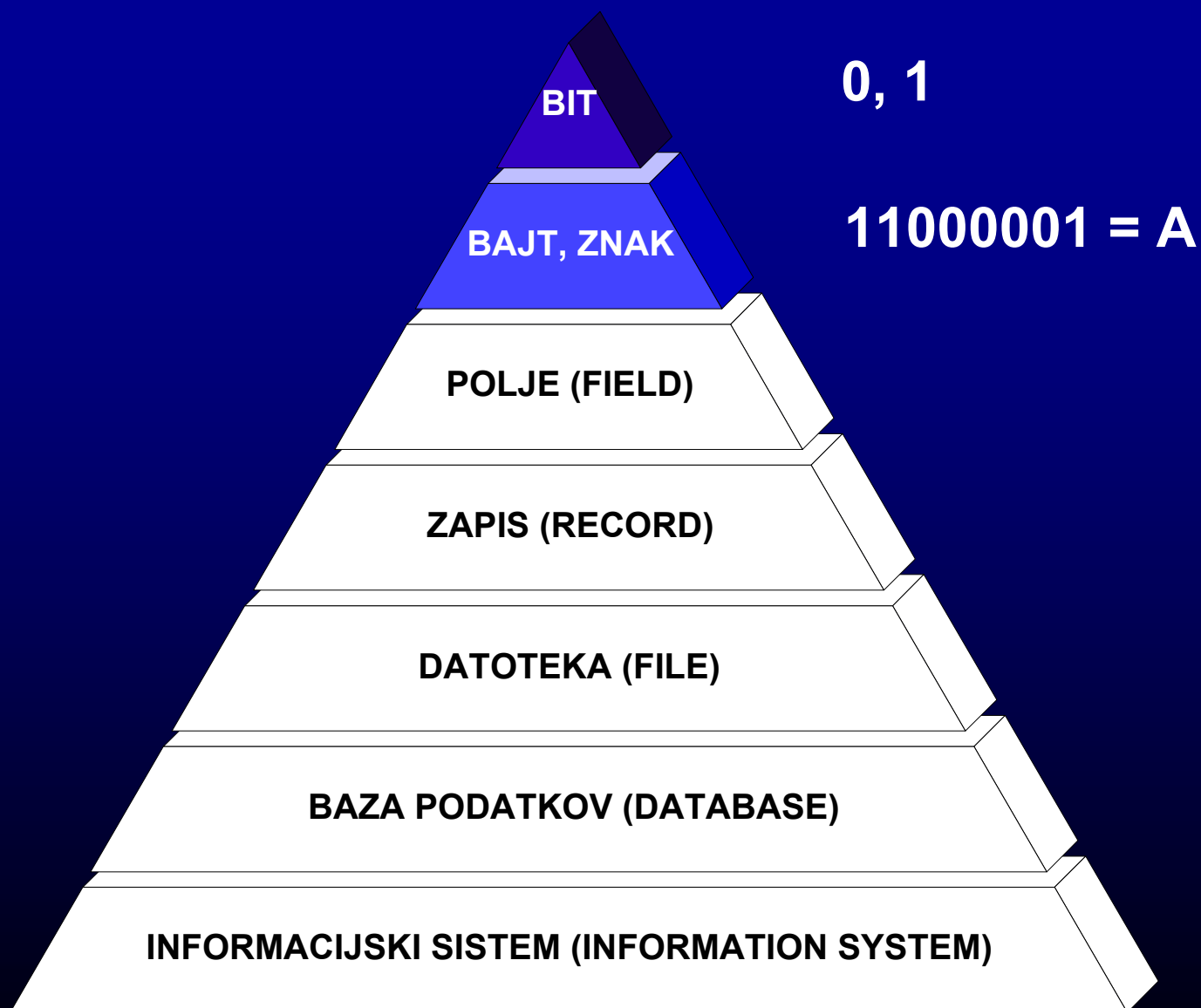
Gradiva so internega značaja in so namenjena le za študijske namene študentov pri predmetu Strukture in prenos podatkov

UVOD

Organizacija podatkov



Organizacija podatkov



POLJE (FIELD)

ZAPIS (RECORD)

Bibliografski zapis iz bazi COBIB
vsebuje več polj
<http://cobiss.izum.si/>

format izpisa uporabniški uporabniški polni listek COMARC skrajšani zaloga H1 H2

« « » »

AVTOR..... : [Bavec, Cene](#) - avtor
NASLOV..... : Informatika med tradicionalnimi in virtualnimi organizacijami
V PUBLIKACIJI..... : Uporabna informatika. - ISSN 1318-1882. - #Letn. #11, #št. #3 (jul/avg/sep 2003), str. 156-163Ilustr.

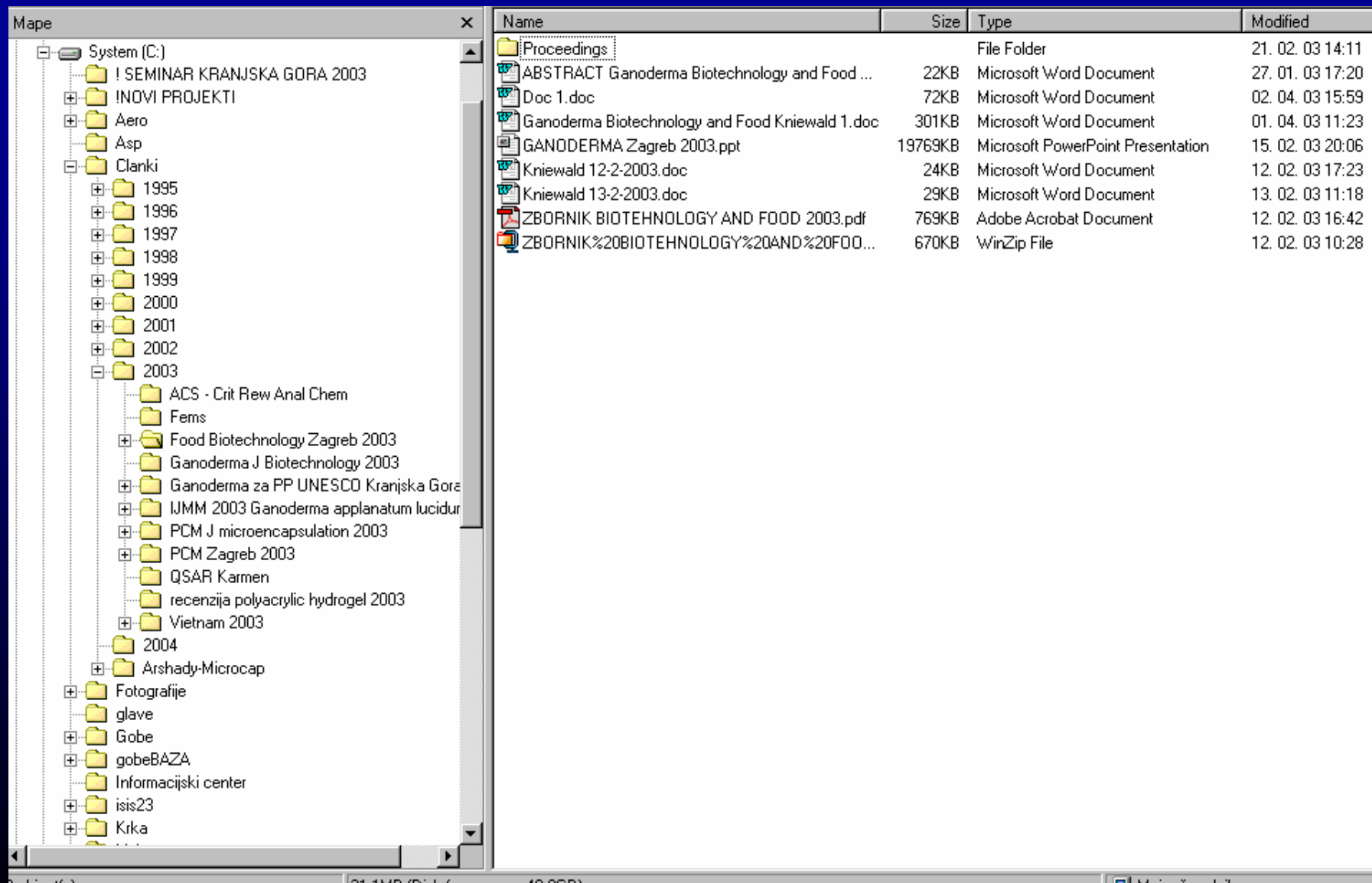
PREDMETNE OZNAKE..... :
UDK..... : 658.1:004
VRSTA GRADIVA..... : analitična raven (sestavni del), tekstovno gradivo, tiskano, 1.01 - Izvirni znanstveni članek
COBISS.SI-ID..... : 746967

Glej publikacijo:
[TI=Uporabna](#) informatika ISSN: 1318-1882

« « » »

DATOTEKA (FILE)

Prikaz seznama datotek v Windows Explorer - Raziskovalec



The screenshot shows a Windows Explorer window with the 'Mapa' (Map) view. The left pane displays a tree structure of folders under 'System (C:)'. The right pane shows a list of files and folders in the 'Proceedings' folder, with columns for Name, Size, Type, and Modified.

Name	Size	Type	Modified
Proceedings		File Folder	21. 02. 03 14:11
ABSTRACT Ganoderma Biotechnology and Food ...	22KB	Microsoft Word Document	27. 01. 03 17:20
Doc 1.doc	72KB	Microsoft Word Document	02. 04. 03 15:59
Ganoderma Biotechnology and Food Kniewald 1.doc	301KB	Microsoft Word Document	01. 04. 03 11:23
GANODERMA Zagreb 2003.ppt	19769KB	Microsoft PowerPoint Presentation	15. 02. 03 20:06
Kniewald 12-2-2003.doc	24KB	Microsoft Word Document	12. 02. 03 17:23
Kniewald 13-2-2003.doc	29KB	Microsoft Word Document	13. 02. 03 11:18
ZBORNIK BIOTEHNOLOGY AND FOOD 2003.pdf	769KB	Adobe Acrobat Document	12. 02. 03 16:42
ZBORNIK%20BIOTEHNOLOGY%20AND%20FOO...	670KB	WinZip File	12. 02. 03 10:28

Organizacija podatkov

- **Datoteka** je osnovna organizacijska enota podatkov v računalniku.
- Vsebina vsake datoteke je niz dvojiških števil. Za fizični zapis podatkov v datoteke skrbi operacijski sistem.
- Imena datotek v **standardu DOS** (diskovni operacijski sistem) po pravilu 8.3 (ime do 8 znakov + 3 za podaljšek). Le črkovni znaki brez presledka. Primer: pesem.txt
- Imena datotek v **Windows**: ime do 255 znakov + 3 znaki za podaljšek. Dovoljeni so presledki. Problemi s ČŠŽ. Nedovoljeni znaki / ? : * " > < \ Primer: Zapisnik 8 januar 2004.doc.

Organizacija podatkov

Ustaljeni podaljški datotek:

- **Besedilo:** DOC, TXT, RTF
- **Slike:** BMP (bitne slike), JPG in GIF (za prenos po omrežju), TIF (prebrane z bralnikom slik), PCX (splošni zapis)
- **Zvok:** WAV, MID
- **Video:** AVI, MOV, MPG
- **Izvršni program:** EXE, COM in BAT (v DOS)
- **Izvorni program:** PRG, BAS (Basic), PAS (Pascal)
- **Baza podatkov:** DB (Paradox), DBF (dBase)
- **Stisnjeni podatki:** ZIP, ARJ
- **Sistemske datoteke:** SYS (navodila operacijskemu sistemu in gonilniki), INI (zagonski podatki za sistem), DRV (gonilniki)

BAZA PODATKOV (DATABASE)

The screenshot shows a web browser window with the address bar displaying <http://www.keminfo.uni-lj.si/proj/gradiva.html>. The browser's toolbar includes icons for Bookmarks, Location, Hosts, Organizacije, RAZNO, SEARCH, Fakt baze, Bibl baze, Informatika, Slike, Kemija, Biologija, and Me. The website header features the "KemInfo" logo in a rainbow gradient and the word "Gradiva" in green. A chemical structure of isopropanol is visible in the top right corner. On the left side, there is a vertical navigation menu with links: "Institucije", "Interaktivno", "Gradiva", "Povezave", and "Seminarij". Below this menu is a search box labeled "ključne besede". The main content area contains two featured items: 1) "Dinamična vizualizacija naravoslovnih pojmov s poskusi in modeli **NOVO!**" with a subheading "Priročnik za učitelje" and an image of a molecular model; 2) "Eterična olja" with a subheading "zbirka podatkov o 111 naravnih eteričnih oljih in 330 spojinah, ki jih le-ta vsebujejo." and a collage of images showing various plants and essential oils.

Baza podatkov Eterična olja <http://193.2.99.131/etolja/a.htm>

Izrazi: baza podatkov = podatkovna baza = podatkovna zbirka

Kazalo:

-  [Naslovna stran](#)
-  [Uvod](#)
-  [Iskanje](#)
-  [Seznam slovenskih imen rastlin](#)
-  [Seznam latinskih imen rastlin](#)
-  [Spojine](#)
-  [Eksperimenti](#)
-  [Slovar tujk](#)
-  [Reference](#)

 [Vrh](#)

Slovensko ime rastline:

[angelika](#)
[arnika](#)
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[Iskanje](#)

[Spojine](#)

[Eksperimenti](#)

[Slovar tujk](#)

[Reference](#)

Eterična olja



K. Voda, B. Boh, D. Dolničar

Oddelek za kemijsko izobraževanje in informatiko
Naravoslovnotehnična fakulteta, Univerza v Ljubljani

INFORMACIJSKI SISTEM (INFORMATION SYSTEM)



FITO-INFO

Informacijski sistem za varstvo rastlin

 <p>Sredstva za varstvo rastlin <u>Registrirana sredstva</u> <u>Toksikologija FFS</u> <u>Prodajalne sredstev</u></p>	 <p>Sistematika <u>Rastline</u> <u>Škodljivci</u> <u>Bakterije</u> <u>Škodljivi organizmi po posevkih</u></p>	 <p>Opisi <u>Bolezni</u> <u>Škodljivci</u> <u>Koristne živali</u></p>	 <p>Slike <u>Bolezni</u> <u>Škodljivci</u> <u>Ostale poškodbe</u> <u>Posevki</u> <u>Koristne živali</u></p>	 <p>Zakonodaja <u>Zakonodaja s področja varstva rastlin</u> Povezave <u>Društvo za varstvo rastlin</u></p>
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Informacijski sistem za varstvo rastlin FITO-INFO

<http://www.fito-info.bf.uni-lj.si/>

Primeri uporabe računalniško vodenih informacijskih sistemov

- Registriranje izdelkov s črtno kodo na blagajni, izračun računa
- Univerzitetni informacijski sistem študentov (prijava študenta, izpis kandidatov, vpis ocen)
- Geografski informacijski sistemi GIS (računalniška kartografija + baze podatkov)
- Poslovni informacijski sistemi PIS (podpora poslovanja v proizvodnih in storitvenih podjetjih)
- Informacijski sistemi za avtomatizirano vodenje proizvodnih procesov

Podatek - Informacija - Znanje

- **Podatek:** individualno opažanje (npr. številka)
- **Informacija:** podatek v kontekstu (npr. številka kot opredelitev ločljivosti zaslona)
- **Znanje:** vključuje relacije, posploševanje in razumevanje zakonitosti (npr. razumevanje zakonitosti med ločljivostjo zaslona in kvaliteto slike)

Podatek - Informacija - Znanje



**INFORMACIJE
IN
ZNANJE**

=

**ZNANSTVENI
KONCEPT**

+

**DOBRINA Z
VREDNOSTJO
IN CENO**

**HITRA RAST
ŠTEVILA
PODATKOV IN
INFORMACIJ**

+

**VZPON
RAČUNALNIŠKE
TEHNOLOGIJE**



INFORMATIKA

**INFORMACIJSKA
INDUSTRIJA**

Specializacija in diverzifikacija informatike:

Baze podatkov in informacijski sistemi
Teorija in gradnja informacijskih sistemov
Informacijska metodologija
Programiranje in razvoj programske opreme
Metode umetne inteligence, algoritmi
Simulacije in modeliranje
Meritve in avtomatično vodenje procesov
Elektronsko poslovanje
Elektronska komunikacija

Specialne tematske veje informatike:

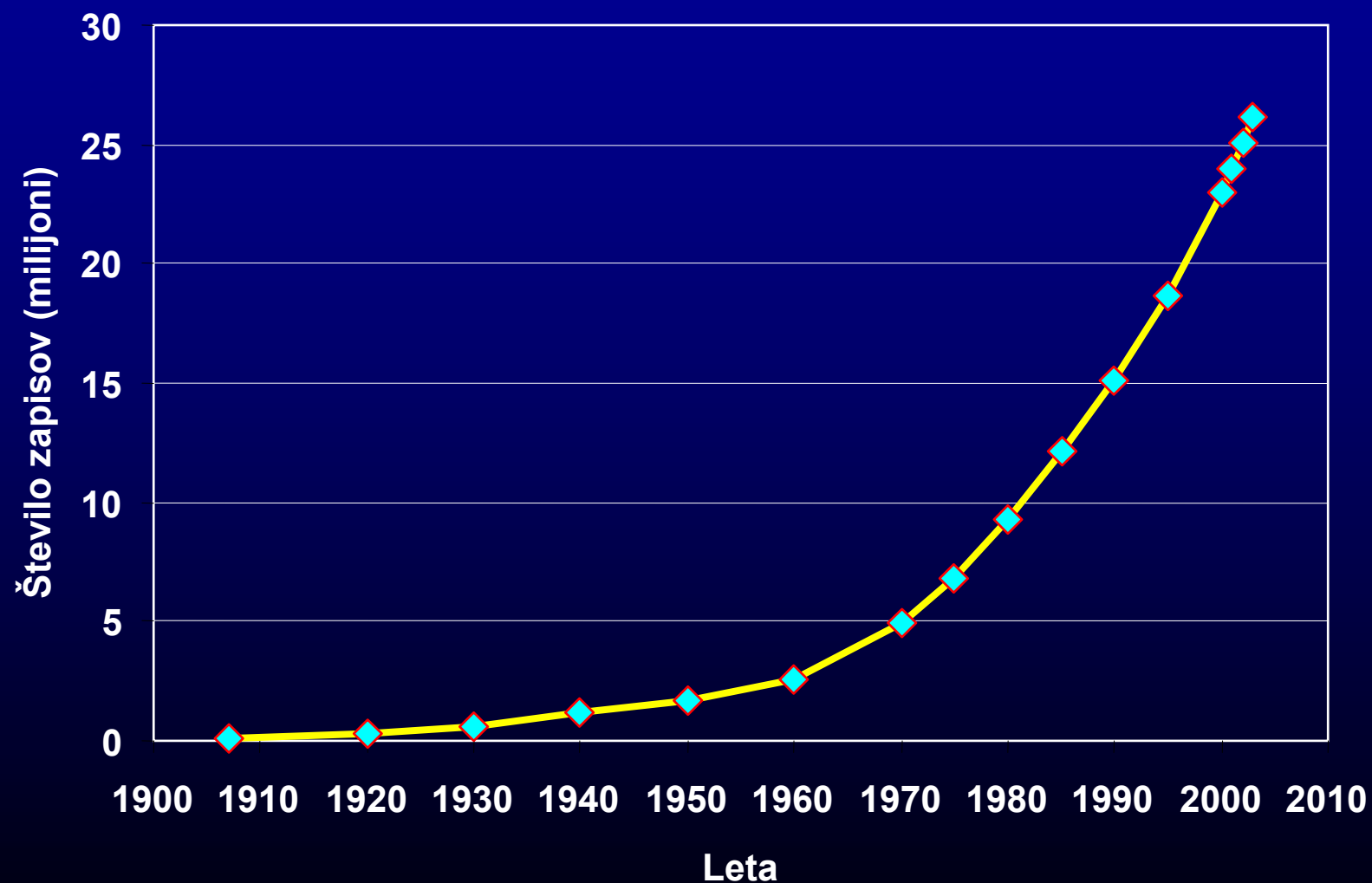
- poslovna informatika
- **naravoslovno-tehniška informatika**
- Bioinformatika
- Geoinformatika
- idr.

INFORMATIKA

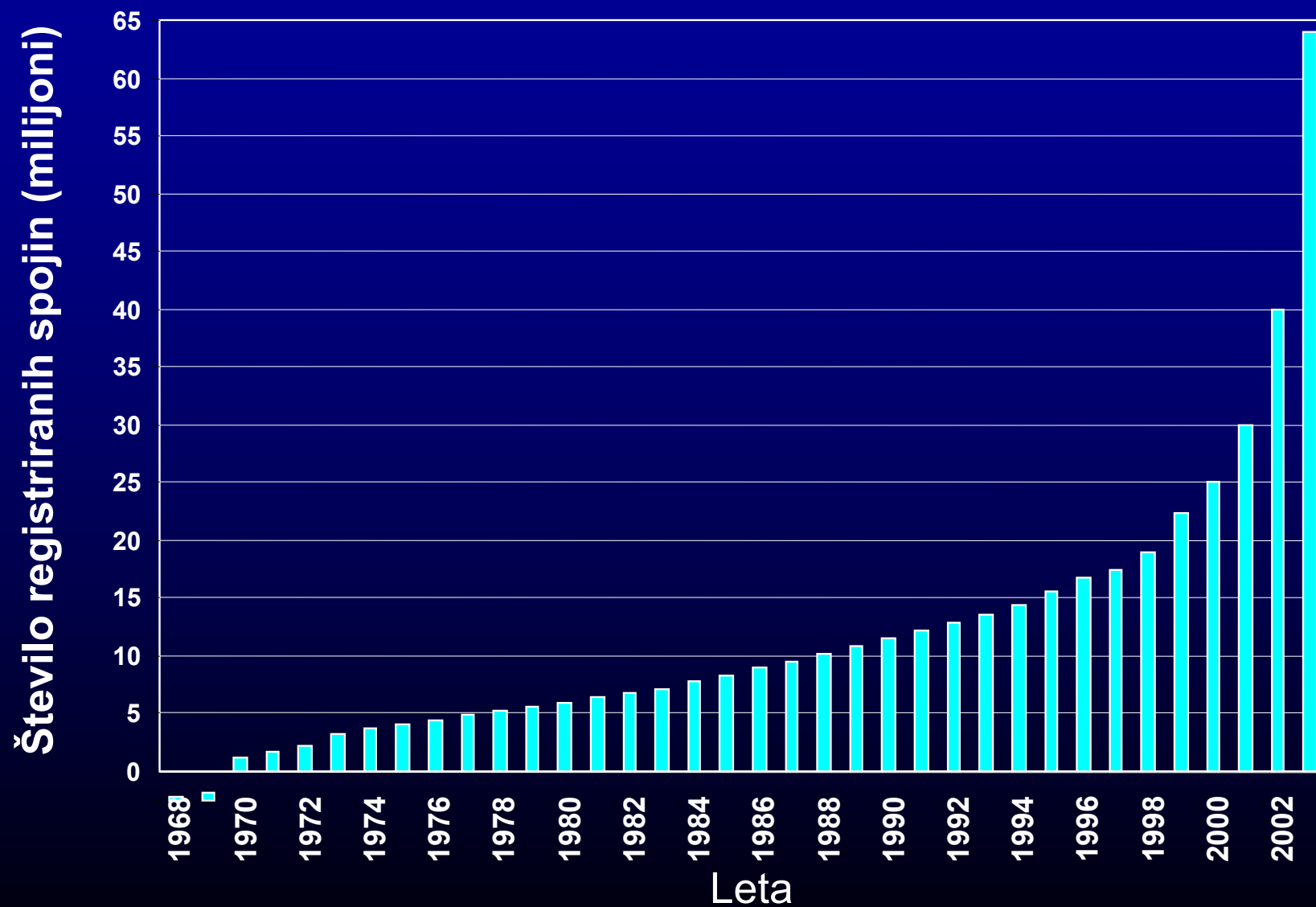
```
graph LR; A[INFORMATIKA] --> B[Specializacija in diverzifikacija informatike: Baze podatkov in informacijski sistemi Teorija in gradnja informacijskih sistemov Informacijska metodologija Programiranje in razvoj programske opreme Metode umetne inteligence, algoritmi Simulacije in modeliranje Meritve in avtomatično vodenje procesov Elektronsko poslovanje Elektronska komunikacija]; A --> C[Specialne tematske veje informatike: • poslovna informatika • naravoslovno-tehniška informatika • Bioinformatika • Geoinformatika • idr.]
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NARAŠČANJE ŠTEVILA INFORMACIJ

RAST BAZE CHEMICAL ABSTRACTS

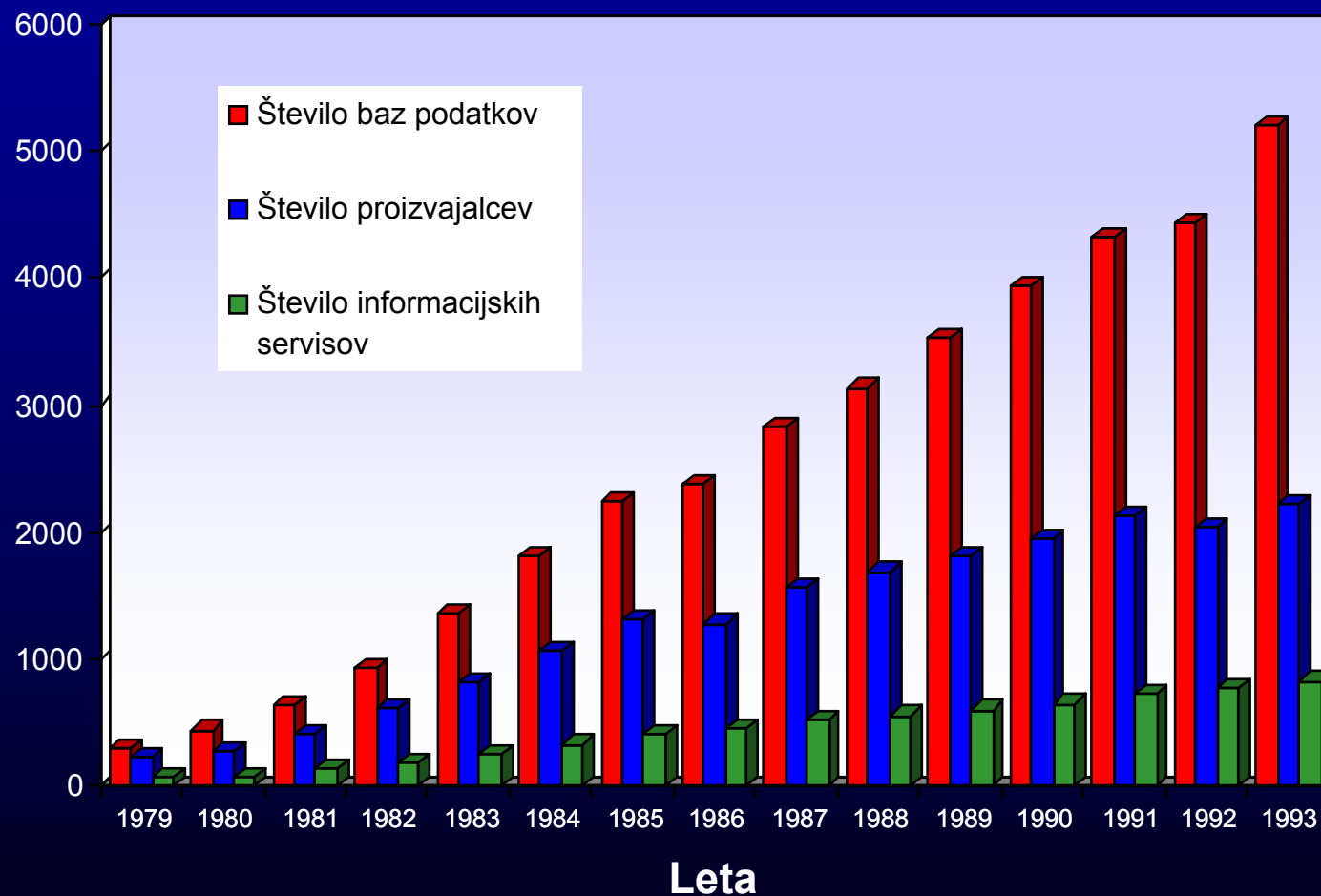


NARAŠČANJE ŠTEVILA INFORMACIJSKEGA REGISTRA

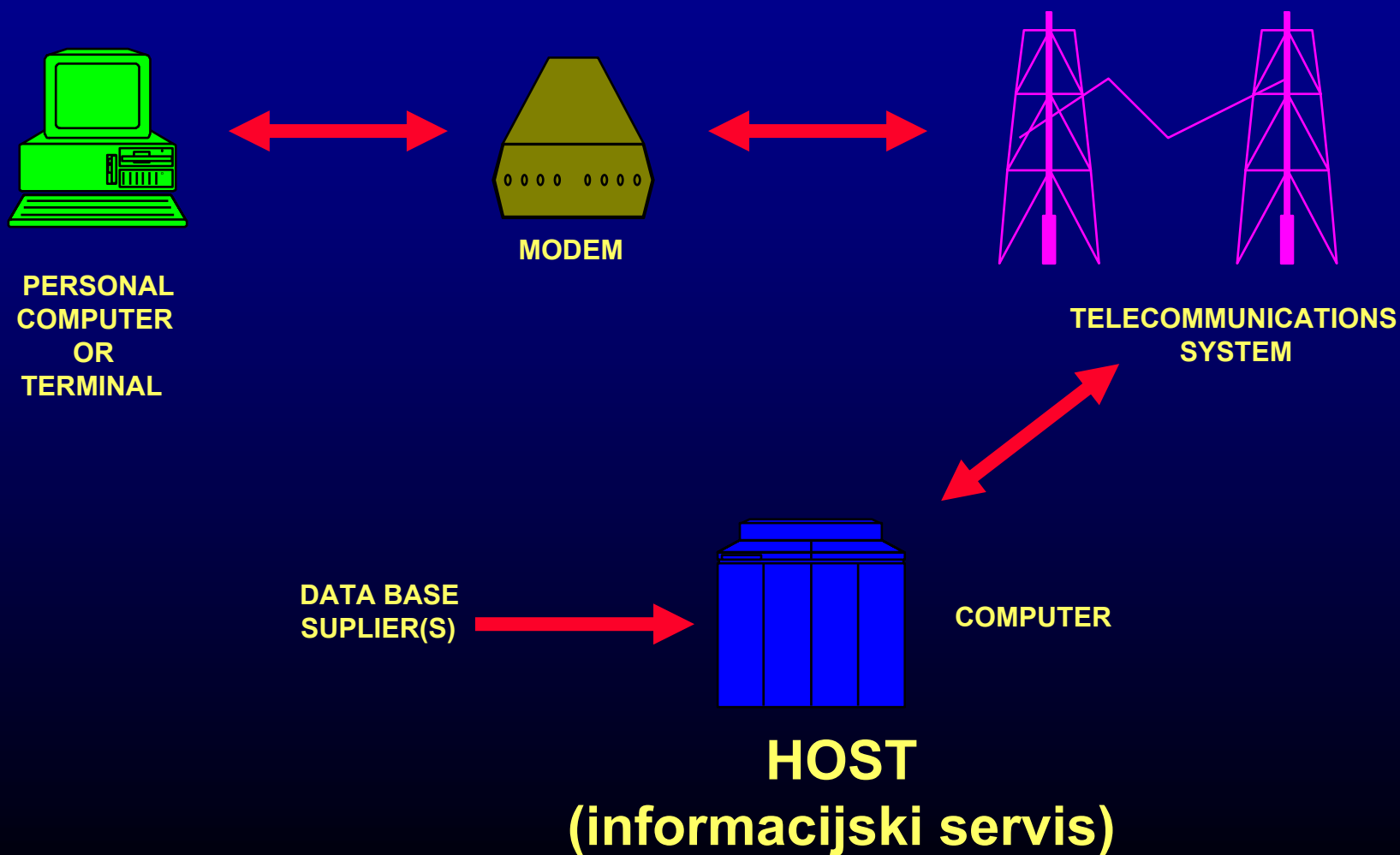


RAST INFORMACIJSKE INDUSTRIJE:

baze podatkov, proizvajalci baz, informacijski servisi



ONLINE INFORMATION RETRIEVAL SCHEME (shema linijskega iskanja podatkov)



INFORMACIJSKI SERVISI (HOSTS)

- **STN International (Scientific and Technical Information Network)**
- Fachinformationszentrum Karlsruhe Germany,
- American Chemical Society Columbus Ohio,
- The Japan Science and Technology Corporation Tokyo Japan) <http://www.stn-international.de/>
<http://stnweb.fiz-karlsruhe.de/html/english/>
- **THOMSON DIALOG** <http://www.dialog.com/>
- **QUESTEL ORBIT**
<http://www.questel.orbit.com/index.htm>
- **DATASTAR**
<http://ds.datastarweb.com/ds/products/datastar/ds.htm>
- **IZUM/COBISS** <http://www.izum.si/>

IZUM (<http://www.izum.si/>)

Slovenski nacionalni informacijski servis

Bookmarks Location: <http://www.izum.si/> What's Related

Hosts Organizacije RAZNO SEARCH Fakt baze Bibl baze Slike Kemija Biologija Medicina BARVILA BB Lookup Ne

Institut informacijskih znanosti

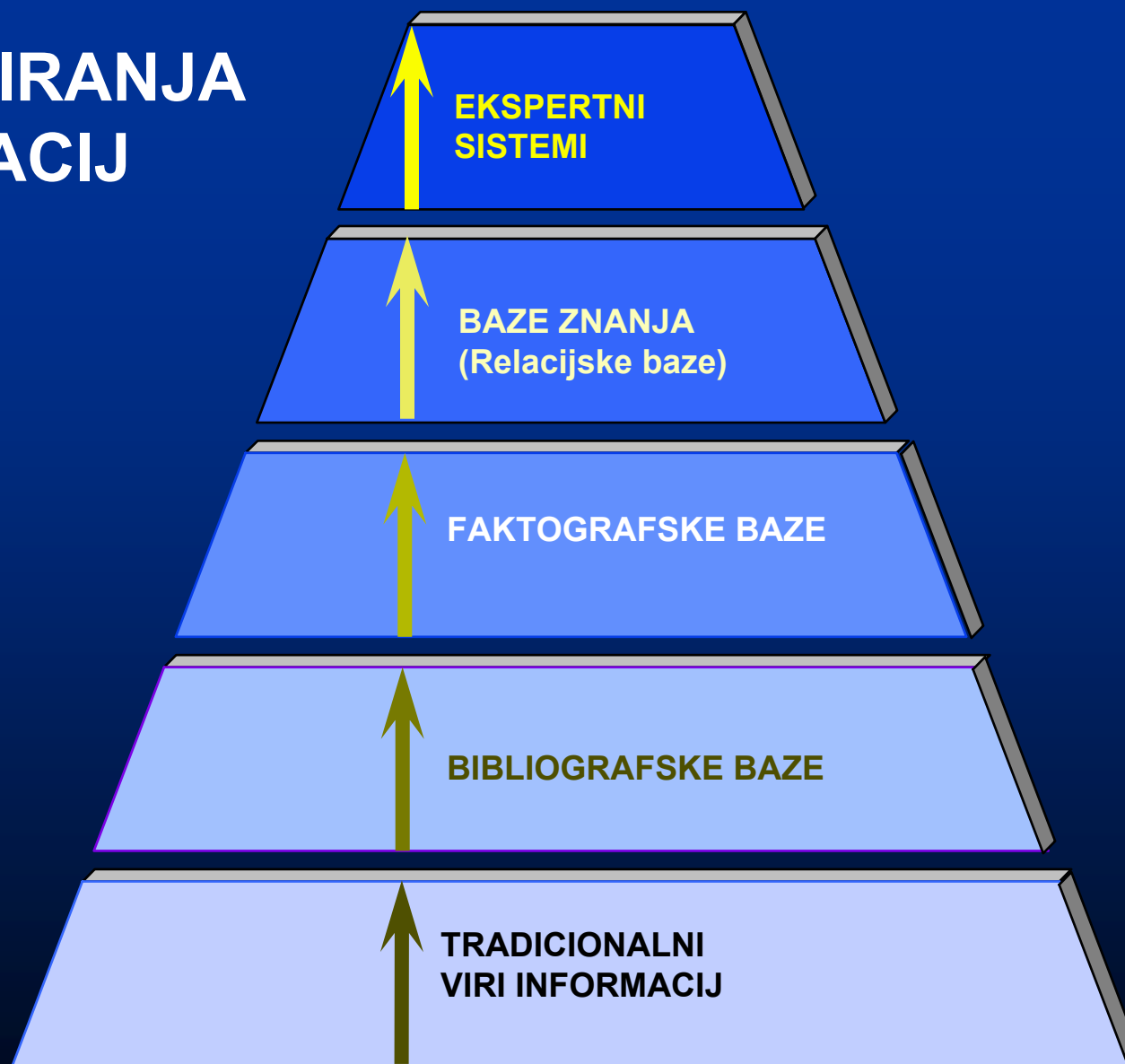
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- knjižnice Alpe-Jadran
- konferenca Cobiss & Sicris
- naprej po internetu

IZUM

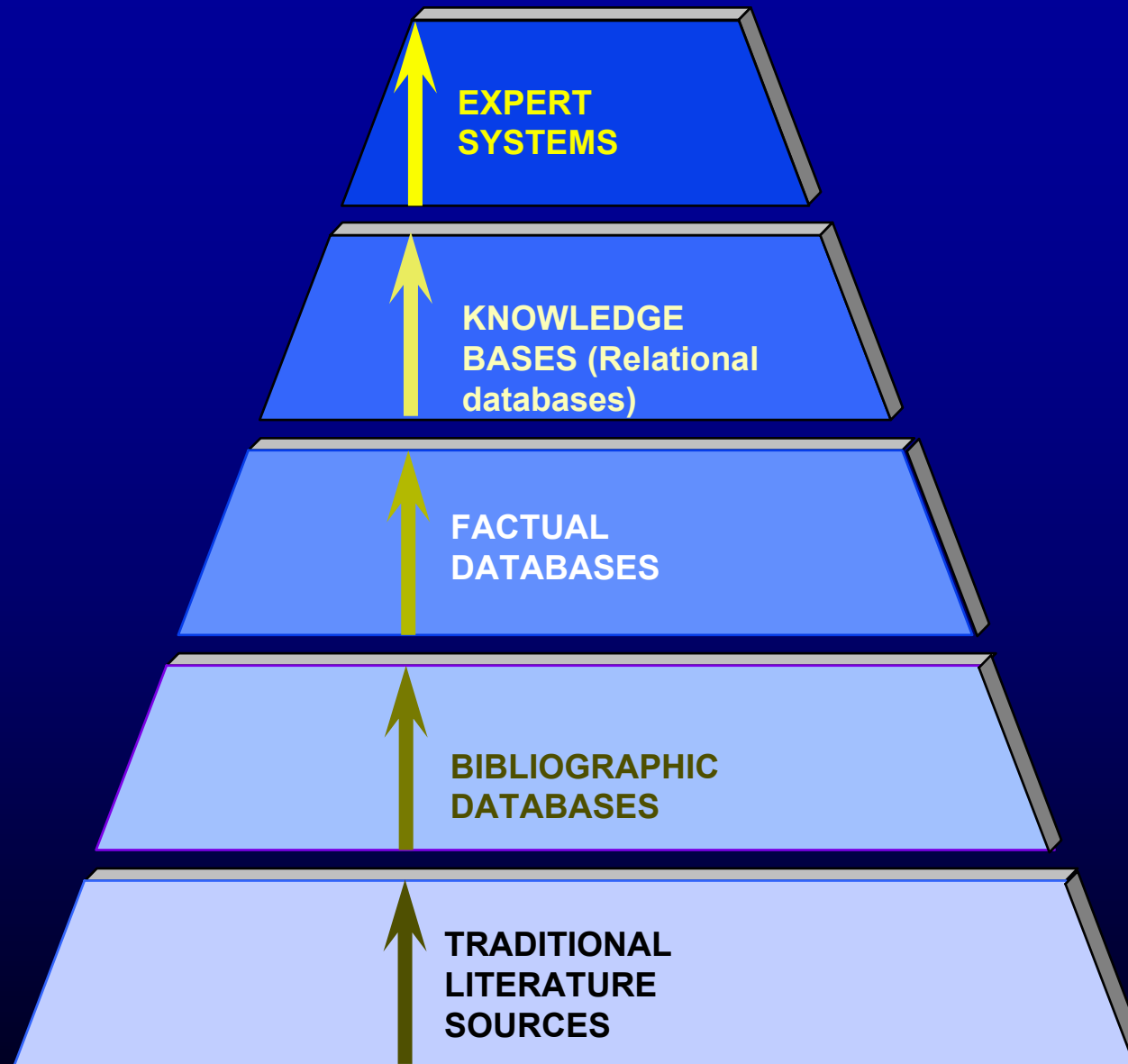


ENG

RAVNI PROCESIRANJA INFORMACIJ



INFORMACIJSKA PIRAMIDA



LEVELS OF INFORMATION PROCESSING

1. PRIMARNI VIRI INFORMACIJ

**Glej datoteko Reference
(navodila za citiranje in navajanje
literature)**

PRIMARNI VIRI INFORMACIJ

- članki v revijah (serijske publikacije) - ISSN
- knjige (monografije) - ISBN
- konferenčni zborniki
- patenti
- standardi
- diplomska, magistrska, doktorska dela
- raziskovalna poročila
- tržne publikacije (prospekti, katalogi)
- elektronske publikacije na CD (multimedijske enciklopedije, konferenčni zborniki...)
- online elektronske revije
- dokumenti z medmrežja

Revije (ISSN)

JOURNAL OF PLANT BIOTECHNOLOGY

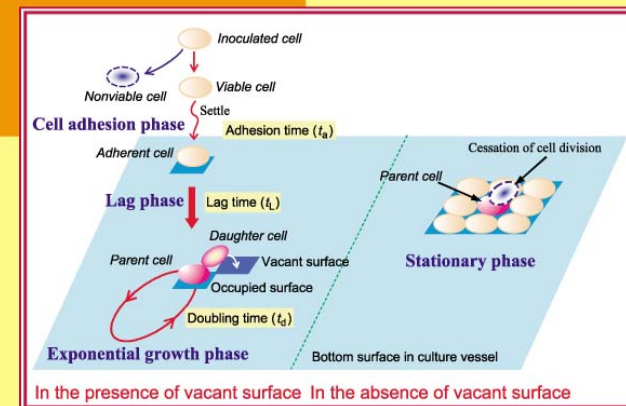
<http://www.jplantbiotech.com>

ISSN 1229-2818

ISSN 1389-1723
CODEN:JBBIF6
平成10年1月16日学術刊行物認可

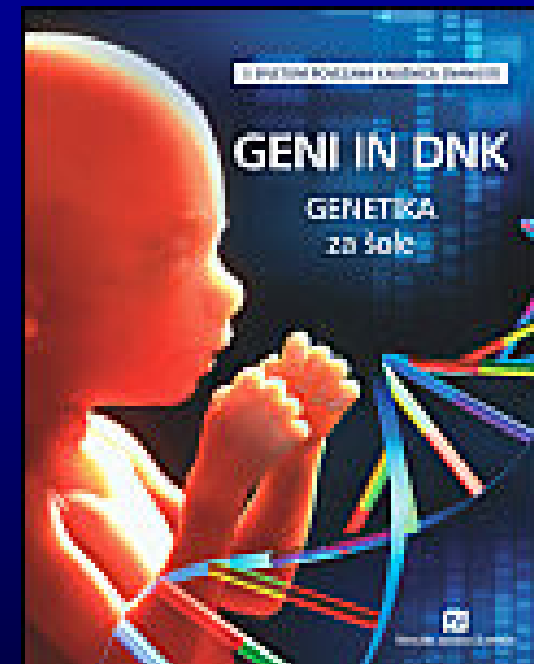
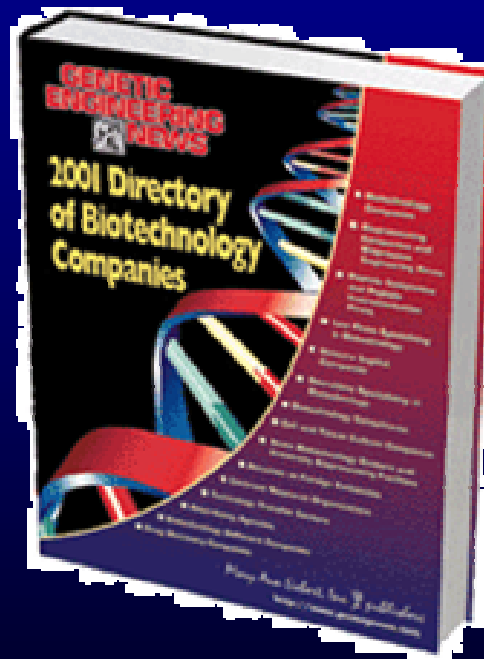
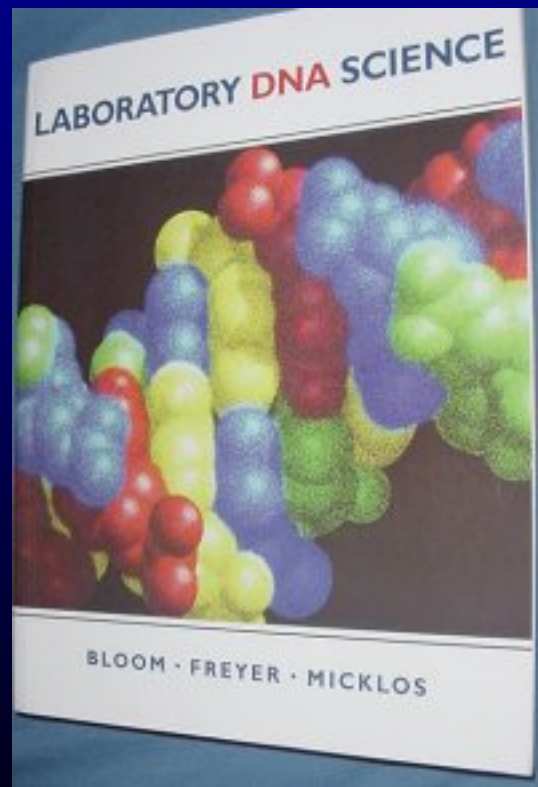
Journal of Bioscience and Bioengineering

Vol. 93 No.1 2002



Published monthly by
The Society for Bioscience and Bioengineering
Distributed outside Japan by Elsevier Science

Knjige (ISBN)



MARINE BIOTECHNOLOGY

SPECIAL PROCEEDINGS ISSUE

Special Proceedings Issue * Pages 000-000 September 21-27, 2003

*Proceedings from the Marine Biotechnology Conference 2003
(6th International Marine Biotechnology Conference
and 5th Asia Pacific Marine Biotechnology Conference)*
SEPTEMBER 21-27, 2003 CHIBA, JAPAN



Springer

Konferenčni zborniki



US006792336B1

(12) **United States Patent**
Johnson et al.

(10) **Patent No.:** US 6,792,336 B1
(45) **Date of Patent:** Sep. 14, 2004

(54) **LEARNING-BASED CONTROLLER FOR BIOTECHNOLOGY PROCESSING, AND METHOD OF USING**

(58) **Field of Search** 700/266; 435/262; 75/712

(75) **Inventors:** John A. Johnson, Idaho Falls, ID (US);
Daphne L. Stoner, Idaho Falls, ID (US);
Eric D. Larsen, Idaho Falls, ID (US);
Karen S. Miller, Idaho Falls, ID (US);
Charles R. Tolle, Idaho Falls, ID (US)

(56) **References Cited**

U.S. PATENT DOCUMENTS

3,986,932 A * 10/1976 Bonkwoyer et al. 435/3
5,672,194 A * 9/1997 Hunter et al. 75/712

* cited by examiner

(73) **Assignee:** Bechtel BWXT Idaho, LLC, Idaho Falls, ID (US)

(*) **Notice:** Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

Primary Examiner—Leo Picard

Assistant Examiner—Sheela S. Rao

(74) **Attorney, Agent, or Firm**—Trask Brit PC

(21) **Appl. No.:** 09/647,134

(22) **PCT Filed:** May 13, 1999

(86) **PCT No.:** PCT/US99/10611

§ 371 (a)(1),
(2), (4) **Date:** Sep. 26, 2000

(87) **PCT Pub. No.:** WO99/58479

PCT Pub. Date: Nov. 18, 1999

Related U.S. Application Data

(60) Provisional application No. 60/085,420, filed on May 13, 1998.

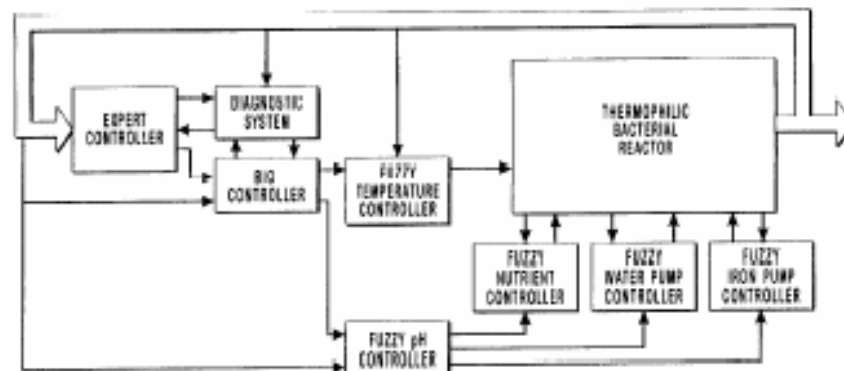
(51) **Int. Cl.**⁵ G05B 21/00; C12C 1/02

(52) **U.S. Cl.** 700/266; 435/262; 75/712;
700/46

(57) **ABSTRACT**

The present invention relates to process control where some of the controllable parameters are difficult or impossible to characterize. The present invention relates to process control in biotechnology of such systems, but not limited to. Additionally, the present invention relates to process control in biotechnology minerals processing. In the inventive method, an application of the present invention manipulates a minerals bioprocess to find local extrema (maxima or minima) for selected output variables/process goals by using a learning-based controller for bioprocess oxidation of minerals during hydrometallurgical processing. The learning-based controller operates with or without human supervision and works to find processor optima without previously defined optima due to the non-characterized nature of the process being manipulated.

24 Claims, 26 Drawing Sheets



Patenti

Patent

Learning-based controller for biotechnology processing, and method of using

- **Patent number:** US6792336
- **Publication date:** 2004-09-14
- **Inventor:** LARSEN ERIC D (US); JOHNSON JOHN A (US); MILLER KAREN S (US); STONER DAPHNE L (US); TOLLE CHARLES R (US)
- **Applicant:** BECHTEL BWXT IDAHO LLC (US)
- **Classification international:** G05B21/00; C07C1/02
- **Application number:** US20000647134 20000926
- **Priority number(s):** US20000647134 20000926; US19980085420P 19980513; WO1999US10611 19990513
- **Abstract:** The present invention relates to process control where some of the controllable parameters are difficult or impossible to characterize. The present invention relates to process control in biotechnology of such systems, but not limited to. Additionally, the present invention relates to process control in biotechnology minerals processing. In the inventive method, an application of the present invention manipulates a minerals bioprocess to find local extrema (maxima or minima) for selected output variables/process goals by using a learning-based controller for bioprocess oxidation of minerals during hydrometallurgical processing. The learning-based controller operates with or without human supervision and works to find processor optima without previously defined optima due to the non-characterized nature of the process being manipulated.

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<http://www.european-patent-office.org/espacenet/info/access.htm>



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- » What is a mosaic?

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MICROCAPSULE SUSPENSIONS

Bibliographic data

Description

Claims

Mosaics

Original document

INPADOC LEGAL status

Patent number: EP1272267

Publication date: 2003-01-08

Inventor: WOLF HILMAR (DE); SCHICK NORBERT (DE); CHRISTENSEN BJOERN (DE); SUTY-HEINZE ANNE (DE)

Applicant: BAYER CROPSCIENCE AG (DE)


Classification:


- international: B01J13/02
- european:


Application number: EP20010929408 20010306


Priority number(s): DE20001013127 20000317; DE20001058878 20001127; WO2001EP02483 20010306

Also published as:

 WO0168234 (A1)

 US6730635 (B2)

 US2003119675 (A1)

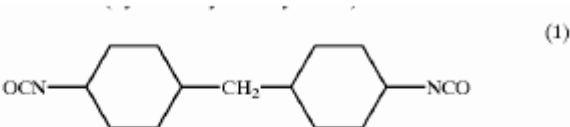
 DE10058878 (A1)

[View INPADOC patent family](#)

Abstract not available for EP1272267

Abstract of correspondent: **US2003119675**

Novel microcapsule suspensions comprising A) a particulate disperse phase of microcapsules, whose sleeves are reaction products of mixtures of toluylene diisocyanate and 4,4'-methylenebis(cyclohexyl isocyanate) of the formula with at least one diamine and/or polyamine, and which contain, as capsule filling at least one solid agrochemically active compound from a particular group of substances consisting of at least one liquid aliphatic hydrocarbon having a boiling point above 160 C., at least one oil-soluble polymeric dispersing agent and optionally one or more agrochemically active compounds which are liquid at room temperature, and B) a liquid aqueous phase which, in addition to water, comprises optionally additives and optionally one or more agrochemically active compounds in non-encapsulated form which are solid at room temperature, a process for preparing these formulations and their use for applying the active compounds contained therein.



▲ top

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Classification Search

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- » How can I view the chemical structures in the full text?

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MICROCAPSULE SUSPENSIONS

Bibliographic data

Description

[Claims](#)

[Mosaics](#)

[Original document](#)

[INPADOC LEGAL status](#)

Description of correspondent: **US2003119675**

[0001] The present invention relates to novel microcapsule suspensions, to a process for their preparation and to their use for applying agrochemically active compounds.

[0002] Microcapsule formulations which comprise, in the capsules, suspensions of solid agrochemically active compounds in organic solvents or liquid agrochemically active compounds (cf. WO 95-13 698) are already known. However, these preparations have the disadvantage that the release of the microencapsulated active compounds does not in all cases meet the requirements encountered in practice. Moreover, on storage, these formulations may cream, or they may form sediments.

[0003] This invention now provides novel microcapsule suspensions comprising

[0004] A) a particulate disperse phase of microcapsules, whose sleeves are reaction products of

[0005] mixtures of toluylene diisocyanate and 4,4'-methylenbis(cyclohexyl isocyanate) of the formula
EMI2.0

[0006] with

[0007] at least one diamine and/or polyamine,

[0008] and

[0009] which contain, as capsule filling

[0010] at least one solid agrochemically active compound from the group consisting of

[0011] the insecticidally active nicotinyls,

[0012] the insecticidally active pyrethroids,

[0013] the insecticidally active thiazole derivatives,

[0014] the insecticidally active phosphoric acid derivatives,

[0015] the fungicidally active azoles,

[0016] the herbicidally active triazolinones or benzonitriles and/or

[0017] the herbicidally active phenyluracils,

[0018] at least one liquid aliphatic hydrocarbon having a boiling point above 160[deg.] C.,

[0019] at least one oil-soluble polymeric dispersing agent and

[0020] optionally one or more agrochemically active compounds which are liquid at room temperature, and

[0021] B) a liquid aqueous phase which, in addition to water, comprises

[0022] optionally additives and

[0023] optionally one or more agrochemically active compounds in non-encapsulated form which are solid at room temperature.

[0024] Furthermore, it has been found that microcapsule suspensions according to the invention are obtained when

[0025] a) in a first step, a finely divided suspension of

[0026] at least one solid agrochemically active compound from the group consisting of

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MICROCAPSULE SUSPENSIONS

Bibliographic data

Description

Claims

Mosaics

Original document

INPADOC LEGAL status

Claims of correspondent: **US2003119675**

1. A microcapsule suspension, comprising
A) a particulate disperse phase of microcapsules, whose sleeves are reaction products of mixtures of toluylene diisocyanate and 4,4'-methylenebis-(cyclohexyl isocyanate) of the formula

EMI24.0

with
at least one diamine and/or polyamine
and
which contain, as capsule filling,
at least one solid agrochemically active compound from the group consisting of
the insecticidally active nicotinyls,
the insecticidally active pyrethroids,
the insecticidally active thiazole derivatives,
the insecticidally active phosphoric acid derivatives,
the fungicidally active azoles,
the herbicidally active triazolinones or benzonitriles and/or
the herbicidally active phenyluracils,
at least one liquid aliphatic hydrocarbon having a boiling point above 160[deg.] C.,
at least one oil-soluble polymeric dispersing agent and
optionally one or more agrochemically active compounds which are liquid at room temperature,
and
B) a liquid aqueous phase which, in addition to water, comprises
optionally additives and
optionally one or more agrochemically active compounds in non-encapsulated form which are solid at room temperature.

2. A process for preparing a microcapsule suspension as claimed in claim 1, characterized in that
a) in a first step, a finely divided suspension of
at least one solid agrochemically active compound from the group consisting of
the insecticidally active nicotinyls,
the insecticidally active pyrethroids,
the insecticidally active thiazole derivatives,
the insecticidally active phosphoric acid derivatives,
the fungicidally active azoles,

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(19)

Europäisches Patentamt
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Office européen des brevets

(11) **EP 1 272 267 B1**

(12) **EUROPÄISCHE PATENTSCHRIFT**

(45) Veröffentlichungstag und Bekanntmachung des Hinweises auf die Patenterteilung:
04.02.2004 Patentblatt 2004/06

(21) Anmeldenummer: **01929408.1**

(22) Anmeldetag: **06.03.2001**

(54) **MIKROKAPSEL-SUSPENSIONEN**
MICROCAPSULE SUSPENSIONS
SUSPENSIONS EN MICROCAPSULES

(84) Benannte Vertragsstaaten:
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40764 Langenfeld (DE)

• **DATABASE WPI Section Ch, Week 198337**
Derwent Publications Ltd., London, GB; Class A97, AN 1983-762720 XP002172794 & RO 76 732 A (INST CHIM MACROMOLECULARA PETRU PONII), 28. Februar 1983 (1983-02-28)

• **DATABASE WPI Section Ch, Week 198337**
Derwent Publications Ltd., London, GB; Class A97, AN 1983-762721 XP002172795 & RO 76 733 A (INST CHIM MACROMOLECULARA PETRU PONII), 28. Februar 1983 (1983-02-28)

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Claims

Mosaics

Original document

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Legal status (INPADOC) of EP1272267

EP F

01929408 A

(Patent of invention)

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PRS Code :

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INVENTOR (CORRECTION)

INVENTOR NAME:

WOLF, HILMAR

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Standardi



Excerpts from International Standard

ISO 690:1987

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Français

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Contents of ISO 690:1987

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 - 4.3.1 Parts of monographs
 - 4.3.2 Contributions to monographs



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I

Damjan Hodžar

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Ljubljana, 2000

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3000 Celje

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subvencij za pospeševanje konkurenčne sposobnosti slovenske industrije

Razvoj mikrokapsul za akumulacijo toplote (številka pogodbe: 55-3643)

Naročnik in sofinancer: AERO, d.d. Celje, Ipavčeva 32

Odgovorni nosilec projekta: Emil Knez, univ. diplomir.
Vodja RR faze projekta: Emil Knez, univ. diplomir.

Izvajalski organizaciji:

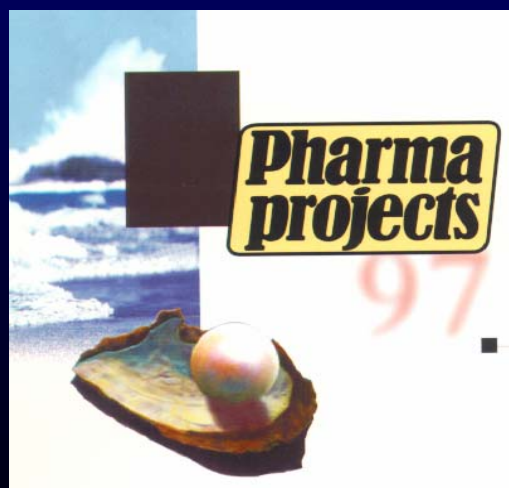
Raziskovalna enota AERO, Ipavčeva 32, 3000 Celje

Naravoslovnotehniška fakulteta, Oddelek za kemijsko izobraževanje in
informatiko, Vegova 4, 1001 Ljubljana

Celje, januar 2002

Raziskovalna poročila

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Internet – spletni strani



Internet – strokovni članki

The screenshot shows a Netscape browser window titled "Genetically Modified Foods - Netscape". The address bar displays the URL <http://www.csa.com/hottopics/gmfood/overview.html>. The webpage content includes a header for "Cambridge Scientific Abstracts" and "GENETICALLY MODIFIED FOODS Hot Topics Series". A left sidebar contains navigation buttons: Overview, Key Citations, Web Sites, Glossary, Source, Correspond with the Editor, and More Hot Topics. The main content area features the title "Genetically Modified Foods: Harmful or Helpful?" (Released April 2000) by Deborah B. Whitman. The text discusses the controversy surrounding GM foods, mentioning European protests, the effects of GM corn pollen on monarch butterfly caterpillars, and the U.S. Food and Drug Administration (FDA) meetings in 1999. A "Glossary" section at the bottom explains that clicking on a highlighted text term provides a definition. The Windows taskbar at the bottom shows the Start button and several open applications, including Eudora, Biomedicina, and Microsoft Word. The system clock indicates the time is 15:18.

Genetically Modified Foods - Netscape

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Genetically Modified Foods: Harmful or Helpful?
(Released April 2000)

by [Deborah B. Whitman](#)

[Genetically-modified foods](#) (GM foods) have made a big splash in the news lately. European environmental organizations and public interest groups have been actively protesting against GM foods for months, and recent controversial studies about the effects of genetically-modified corn pollen on monarch butterfly caterpillars ^{1,2} have brought the issue of genetic engineering to the forefront of the public consciousness in the U.S. In response to the upswelling of public concern, the U.S. Food and Drug Administration (FDA) held three open meetings in Chicago, Washington, D.C., and Oakland, California to solicit public opinions and begin the process of establishing a new regulatory procedure for government approval of GM foods ³. I attended the FDA meeting held in November 1999 in Washington, D.C., and here I will attempt to summarize the issues involved and explain the U.S. government's present role in regulating GM food.

Glossary: Click on a [highlighted](#) text term for the definition.

start Eudora - [In] Biomedicina po... 3 Microsoft P... Genetically Mo... Download Man... 4 Microsoft ... SL 15:18

Elektronske revije

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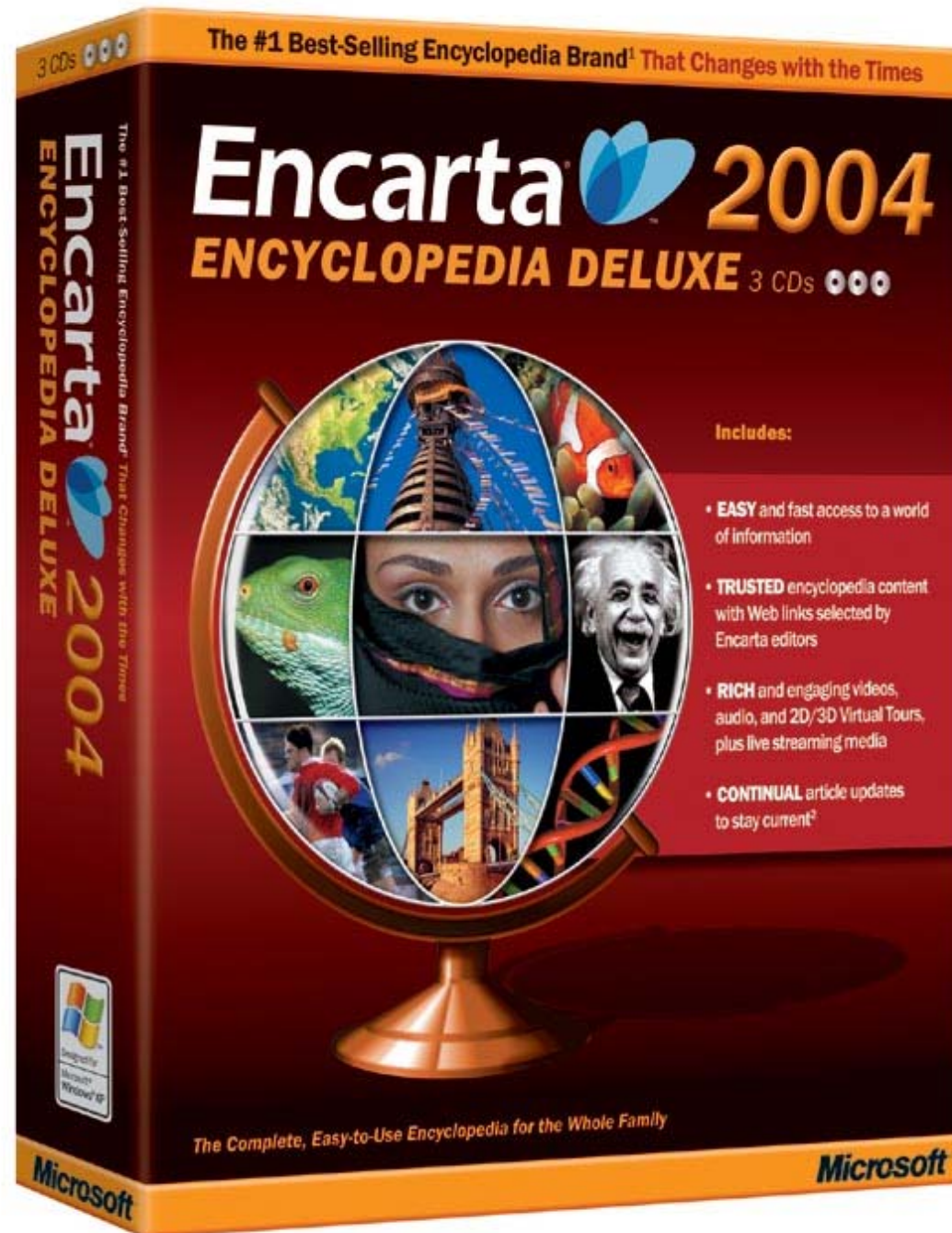
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The screenshot displays the IZUM website interface. At the top, a navigation bar contains icons and labels for various services: Informatics, Organizacije, RAZNO, SEARCH, Fakt baze, Bibl baze, Slike, Kemija, and Biologija. The main content area features the COBISS logo (a globe with the text 'COBISS') and the title 'Kooperativni online bibliografski sistem in servisi'. Below this, the text 'Virtualna knjižnica Slovenije' is circled in red. The COBISS logo is repeated in a larger font, followed by 'Virtual Library of Slovenia' and 'Co-operative Online Bibliographic System & Services'. A button labeled 'ENG' is visible. On the left side, a vertical menu lists various services and resources, including 'o COBISS-u', 'program izobraževanja', 'časopis COBISS obvestila', 'COBISS/OPAC', 'bibliografije raziskovalcev', 'pregled prispevkov v serijskih publikacijah', 'COBISS v drugih državah', and 'obvestila in novosti'. The footer contains the copyright notice: 'Copyright © IZUM 1997-2000. Vse pravice pridržane'.

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Pri uporabi servisa je treba spoštovati [licenčna določila](#) in pogoje uporabe iz besedila ScienceDirect[®] - [Terms and conditions](#).

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IZUM (<http://www.izum.si/>):

Engineering Village 2

Tuje baze podatkov in servisi



Engineering Village 2

Engineering Village 2 je vmesnik za bazo podatkov **Ei Compendex**, poleg tega pa vsebuje tudi povezave do relevantnih spletnih mest (**Website Abstracts**), do novic s področja industrije, industrijskih standardov in specifikacij (**The US Patent and Trademark Office**) ter sorodnih online baz podatkov.

Ei Compendex je najbolj obširna interdisciplinarna tehnična baza podatkov na svetu z več kot 3 milijoni povzetkov člankov iz znanstvenih revij, tehničnih poročil in predavanj ter prispevkov s konferenc v elektronski obliki od 1970 dalje. V bazi podatkov Compendex najdemo 5,9 milijonov referenc iz 5000 mednarodnih znanstvenih revij in prispevkov s konferenc.

Centralna tehniška knjižnica Univerze v Ljubljani (CTK) in Univerzitetna knjižnica Maribor (UKM) sta sklenili (letno) naročniško pogodbo s podjetjem Engineering Information Inc. (Ei) za dostop uporabnikov Univerze v Ljubljani in Univerze v Mariboru do podatkovne zbirke Engineering Village 2.

Pogoj za dostop je registracija IP-naslovov računalnikov.

Engineering Village 2®

Dodatne informacije je moč dobiti tudi na spletnih straneh informacijskega servisa [Engineering Information Inc.](http://www.EngineeringInformation.com), pri Informacijski službi Univerzitetne knjižnice Maribor (tel. 02 2515 851), po elektronski pošti cobisservis@izum.si ali po telefonu 02 2520 333 (IZUM-ova pomoč uporabnikom).

Mednarodne spletne knjigarne

- **Amazon.com (Center v ZDA)**
<http://www.amazon.com>
- **Amazon.co.uk (Britanski center)**
<http://www.amazon.co.uk>

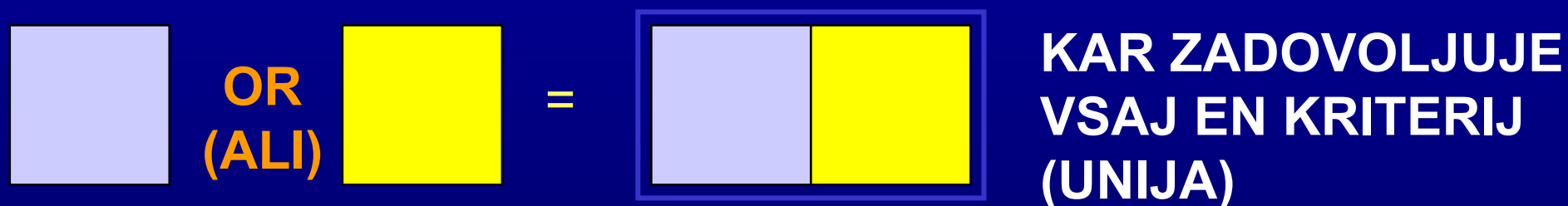
Priprava iskalnih profilov

OPERATORJI ZA PRIPRAVO ISKALNEGA PROFILA

1. **Boolovi operatorji** (George Boole 1815 - 1864): **AND, OR, NOT**
2. **Operatorji bližanja** (veljavni za STN International): **W, A, L, S**

PRIPRAVA PROFILA ZA ISKANJE PO BAZAH:

LOGIČNI (BOOLOVI) OPERATORJI



Uporaba za širjenje profila:

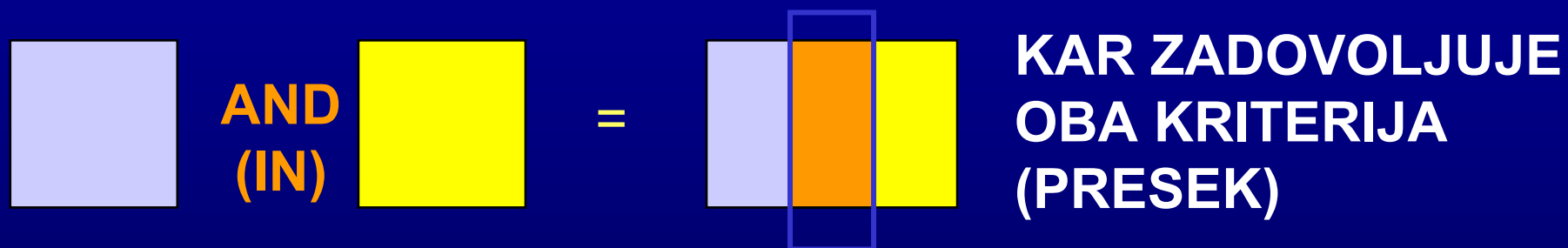
- (1) naštevanje ključnih besed, če vse pridejo v poštev za iskanje (naštevane alternativnih možnosti)
- (2) naštevanje sinonimov (ključne besede z istim/podobnim pomenom)

Primer:

dye OR dyeing OR color OR colour OR coloring OR
colouring

PRIPRAVA PROFILA ZA ISKANJE PO BAZAH:

LOGIČNI (BOOLOVI) OPERATORJI



Uporaba za ožetje/omejevanje profila:

(1) naštevane pogojev, ki morajo biti hkratno izpolnjeni

Primer:

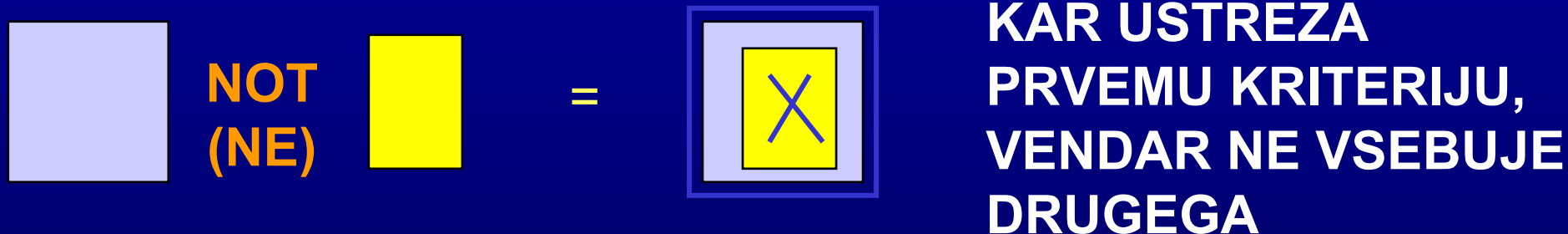
copying AND paper

textile AND design AND computer

printing AND developing countries

PRIPRAVA PROFILA ZA ISKANJE PO BAZAH:

LOGIČNI (BOOLOVI) OPERATORJI



Uporaba za oženje profila z izključevanjem:

(1) izključevanje manjše kategorije iz širšega področja

Primeri:

pigments AND NOT inorganic

design AND NOT shoe

informatics AND NOT business

OPERATORJI BLIŽANJA “PROXIMITY” OPERATORJI

(Veljavni za STN International)

- (W) WATER(W)COLOURS
- (nW) INORGANIC(3W)PIGMENTS

Uporaba za oženje profila:

W - vrstni red besed je določen, med njima ni druge besede

nW - vrstni red besed je določen, med njima je lahko največ n drugih besed

Primeri iskanja z (W) in (nW)

WATER(W)COLOURS najde le besedno zvezo

- **water colours**

INORGANIC(3W)PIGMENTS najde tudi naslednje možnosti:

- history of **inorganic pigments**
- applications of **inorganic** and organic **pigments**
- stability of **inorganic** white and blue **pigments**

Ne najde pa naslednjih primerov:

- **pigments** made of **inorganic** materials
- stability of **inorganic** white, blue and red **pigments**

OPERATORJI BLIŽANJA “PROXIMITY” OPERATORJI

(Veljavni za STN International)

- (A) PROCESS(A)CONTROL
- (nA) WATER(3A)POLLUTION

Uporaba za oženje profila:

A - vrstni red besed ni določen, med njima ni druge besede

nA - vrstni red besed ni določen, med njima je lahko največ
n drugih besed

Primeri iskanja z (A) in (nA)

PROCESS(A)CONTROL najde:

- industrial **process control** in paper production
- examples of **process control** parameters

WATER(3A)POLLUTION najde npr.:

- solving problems regarding **water pollution**
- problems of air, **water** and soil **pollution**
- **pollution** of underground **water**

Ne najde pa naslednjih možnosti:

- problems of **water**, air and fertile soil **pollution**
- **pollution** of industrial cooling systems by contaminated **water**

OPERATORJI BLIŽANJA “PROXIMITY” OPERATORJI (Veljavni za STN International)

- **(S) PATENT(S)SCIENCE(S)TECHNOLOGY**

Uporaba :

S - ključne besede morajo biti znotraj istega stavka

Primer:

In addition to their legal functions, **patents** become valuable sources of scientific literature, bringing newest information on innovative developments in various areas of **science** and **technology**.

OPERATORJI BLIŽANJA “PROXIMITY” OPERATORJI

(Veljavni za STN International)

- (L) PATENT(L)EDUCATION(L)DESIGN

Uporaba :

L - ključne besede morajo biti znotraj istega polja (npr. polje za naslov, ključne besede, abstrakt)

Primer:

Naslov članka: The Importance of **Patent** Informatics in **Education** of Students of Graphic and Textile **Design**

OKRAJŠEVANJE

(Veljavno za STN International)

? desna okrajšava za poljubno število znakov

SWEETEN?

SWEETEN
SWEETENER
SWEETENERS
SWEETENING

desna okrajšava največ za en znak

BOOK#

BOOK
BOOKS

Prednosti in pomanjkljivosti uporabe ? - desne okrajšave za poljubno število znakov

DESIGN?

DESIGN

DESIGNATE

DESIGNATION

DESIGNATING

DESIGNATOR

DESIGNEDLY

DESIGNER

DESIGNFUL

DESIGNING

DESIGNLESS

MASKIRANJE

(Veljavno za STN International)

! znak nadomesti katerokoli črko v besedi

POLYMERI!ATION

POLYMERIZ!ATION

POLYMERIS!ATION

Priprava profila: **DEFINICIJA PROBLEMA**

**SEŽIG NEVARNIH ODPADKOV V PEČEH
CEMENTARN**

PRIPRAVA KONCEPTOV

HAZARDOUS WASTE

**INCINERATION
COMBUSTION
BURNING**

CEMENT KILN

PRIPRAVA KONCEPTOV

HAZARDOUS WASTE#

INCINERATION
COMBUSTION
BURNING

CEMENT KILN#

IZDELAVA PROFILA

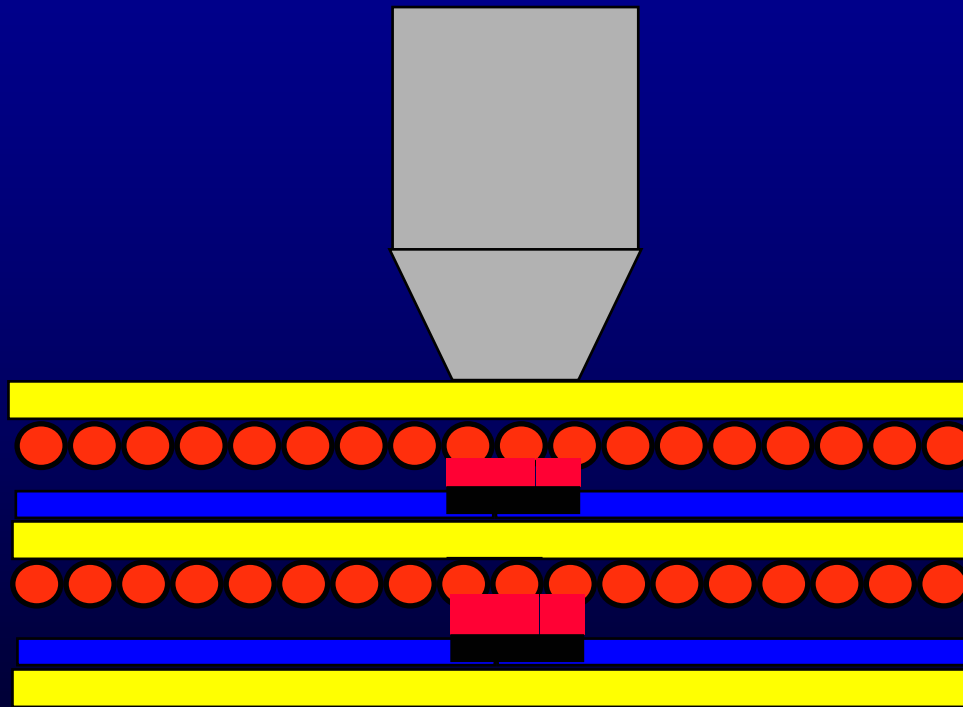
HAZARDOUS(W)WASTE# AND
(INCINERATION OR COMBUSTION OR BURNING)
AND CEMENT(W)KILN#

Primer 2:

Opredelitev problema:

- Iskanje literature za področje samokopirnega papirja na osnovi razvijalcev in mikrokapsuliranih levko barvil v mikrokapsulah z ovojnico iz polimernih aminoaldehidnih smol

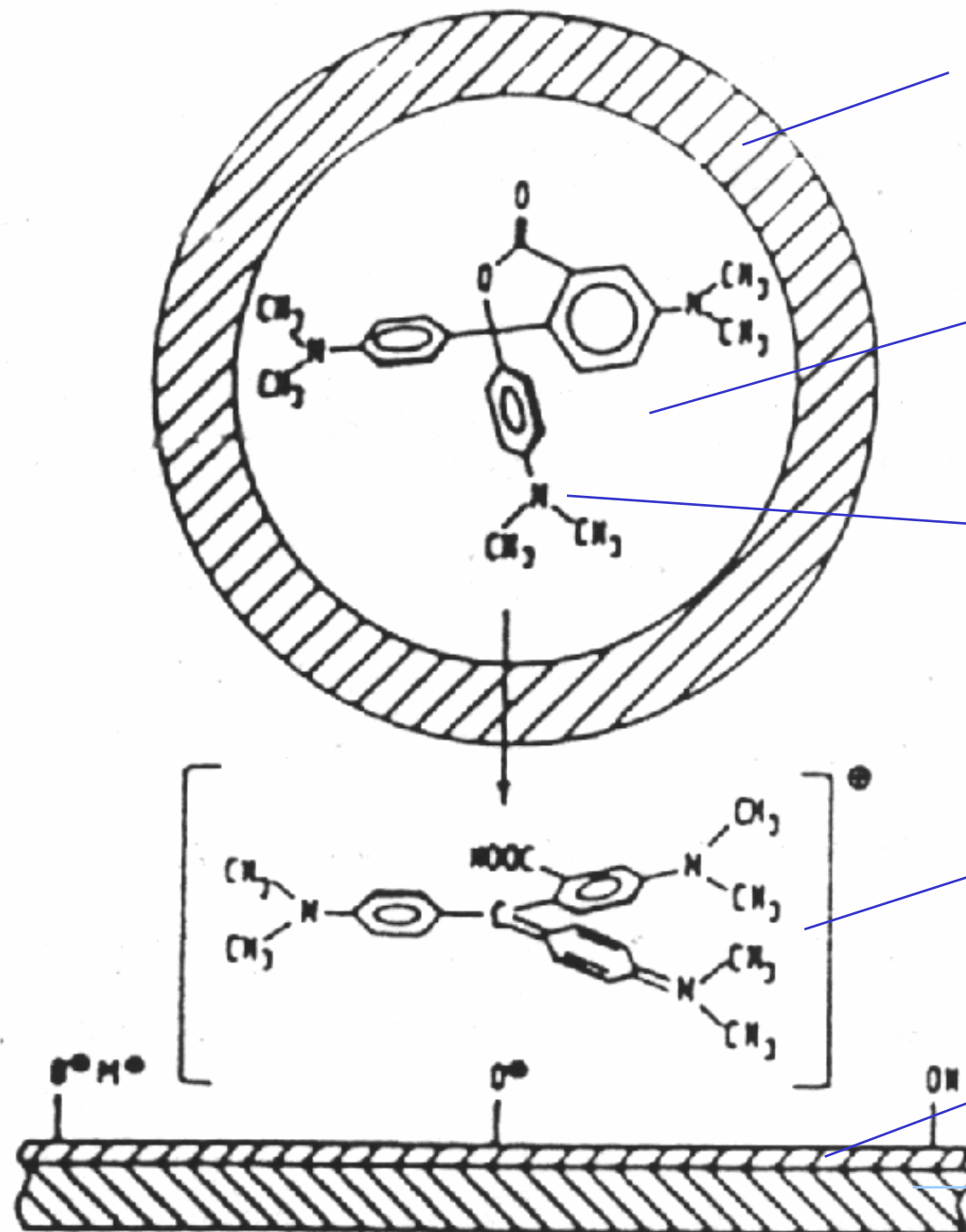
Pressure-sensitive copying paper



PAPER

**MICROENCAPSULATED
LEUCO DYE**

DEVELOPER



**MICROCAPSULE
WALL**

**MICROCAPSULE
CORE**

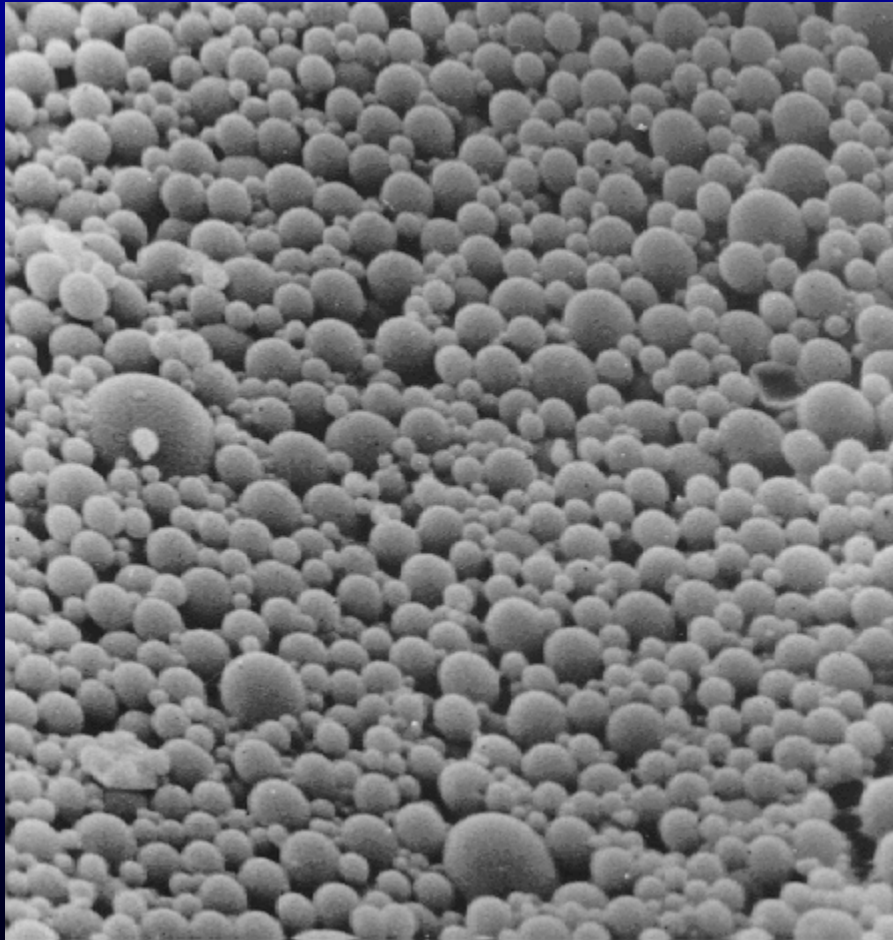
**LEUCO DYE -
COLOURLESS**

DEVELOPED DYE

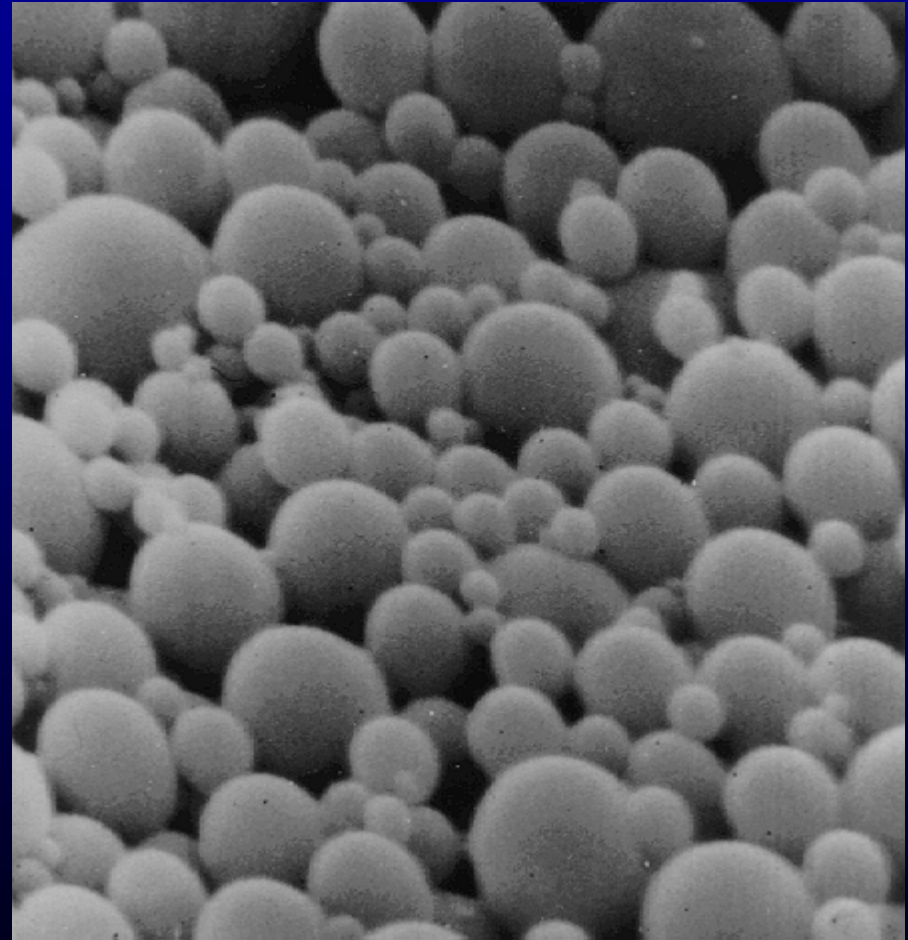
COLOUR DEVELOPER

PAPER SHEET

Scanning Electron Micrograph of microcapsules on paper



(C+Au/Pd, 1900x)



(C+Au/Pd, 6320x)

Rešitev:

1) Ključne besede in sinonimi (opredelitev ključnih besed zahteva strokovno poznavanje problematike):

microcapsules, microencapsulation, microencapsulated

carbonless copying paper, pressure-sensitive copying paper, pressure sensitive copying paper, pressure-sensitive recording paper, pressure sensitive recording paper,

leuco dye, colorless dye, colourless dye, color former, colour former, color developer, colour developer

aminoaldehyde, amino-aldehyde, amine, aldehyde

resin, polymer, polymerization, polymerisation, shell, wall

2) Koncepti:

Koncepti 1:

microcapsules
microencapsulation
microencapsulated

Koncepti 3:

leuco dye
colorless dye
colourless dye
color former
colour former
color developer
colour developer
developing

Koncepti 2:

carbonless copying paper
pressure-sensitive copying paper
pressure sensitive copying paper
pressure-sensitive recording paper
pressure sensitive recording paper

Koncepti 4a:

aminoaldehyde
amino-aldehyde
amine
aldehyde

Koncepti 4b:

resin
polymer
polymerization
polymerisation
shell
wall

3) Okrajšave in maskiranje

Koncepti 1:

microcapsule#

microencapsulat?

microencapsulation

microencapsulated

Koncepti 2:

carbonless copying paper#

pressure-sensitive copying paper#

pressure sensitive copying paper#

pressure-sensitive recording paper#

pressure sensitive recording paper#

Koncepti 3:

leuco dye#

colorless dye#

colourless dye#

color former#

colour former#

color developer

colour developer

developing

develop?

Koncepti 4a:

aminoaldehyde

amino-aldehyde

amine#

aldehyde#

Koncepti 4b:

resin#

polymer#

polymerization

polymerisation

polymer?

shell#

wall#

4) Operatorji znotraj konceptov

Koncepti 1:

microcapsule# OR microencapsulat?

Koncepti 2:

(carbonless OR pressure-sensitive OR pressure sensitive)(W)(copying OR recording)(W)paper#

Koncepti 3:

((leuco OR colorless OR colourless)(W)dye#) AND ((color OR colour)(W)develop?)

Koncepti 4:

(aminoaldehyde OR amino-aldehyde OR (amine#(3A)aldehyde#))
(5A)(resin# OR polymer? OR shell# OR wall#)

5) Operatorji med koncepti

(microcapsule# OR microencapsulat?) AND ((carbonless OR pressure-sensitive OR pressure sensitive)(W)(copying OR recording)(W)paper#) AND (((leuco OR colorless OR colourless)(W)dye#) AND ((color OR colour)(W)develop?)) AND ((aminoaldehyde OR amino-aldehyde OR (amine#(3A)aldehyde#))(5A)(resin# OR polymer? OR shell# OR wall#))

Priprava iskalnih profilov - delo študentov (vaje in primeri)

**Iskanje podatkov po
bazah na informacijskem
servisu STN International**

STN on the Web

<http://stnweb.fiz-karlsruhe.de/>

The screenshot shows a Netscape browser window with the address bar displaying <http://stnweb.fiz-karlsruhe.de/>. The browser's toolbar includes icons for Mail, AIM, Home, Radio, My Netscape, Search, Bookmarks, Hosts, Organizacije, RAZNO, SEARCH, Informatika, Kemija, and BI-GO Okolje. The website's main content area features the "STN[®] on the web" logo at the top. Below the logo is a login section with fields for "Login ID" and "Password", and a "Login" button. To the right of the login section, the text reads: "Power of STN — Convenience of the Web!" followed by a description: "STN's complete functionality for searching more than 200 essential databases of information in science and technology." Below this, the "Browser requirements" are listed: "Windows: Netscape Navigator 4.x and higher or MSIE 4.x and higher; Macintosh: Netscape 4.x or MSIE 4.x. Javascript must be enabled." At the bottom of the page, there are four icons: "First Time User" (a question mark), "Free Search Preview" (an exclamation mark, which is highlighted with a red border), "STN Sneak Preview" (a keyhole), and "What's New!" (a flower). A "Feedback" link is also visible in the left sidebar.

STN[®] on the web

Login ID

Password

Login

**Power of STN —
Convenience of the Web!**

STN's complete functionality for searching more than 200 essential databases of information in science and technology.

Browser requirements: Windows: Netscape Navigator 4.x and higher or MSIE 4.x and higher; Macintosh: Netscape 4.x or MSIE 4.x. Javascript must be enabled.

[First Time User](#) [Free Search Preview](#) [STN Sneak Preview](#) [What's New!](#)

[Impressum](#)

STN on the Web <http://stnweb.fiz-karlsruhe.de/>

IZBOR KLASTROV BAZ PODATKOV PO PODROČJIH

The screenshot shows a Netscape browser window with the address bar set to <http://stnweb.fiz-karlsruhe.de/>. The browser's menu bar includes Bookmarks, Netsite, and What's Related. The toolbar contains icons for Hosts, Informatics, Organizacije, RAZNO, SEARCH, Fakt baze, Bibl baze, Slike, Kemija, and Biologija. The website layout features a dark blue sidebar on the left and a light grey main content area on the right.

New Release!

STN on the web

- About
- First Time User
- Free Search Preview
- Customer Support**
- Get Structure Plug-in
- Get Sequence Plug-in
- Standard Login
- Academic Login
- Secure Session
- STN Links
- Feedback

Free Search Preview

Search Preview is a free tool for identifying STN databases that contain answers relevant to your search question. It uses the powerful STNindex database scanning feature and displays the number of answers per database that would be retrieved in an actual search.

First click on your field of interest:

ADISBASES	Adis International Limited Database Cluster
AEROTECH	Aerospace and Related Technology Cluster
AGRICULTURE	Agriculture Cluster
BIOSCIENCE	Bioscience Literature Cluster
BUSINESS	Sci-Tech Business and News Cluster
CASRNS	CAS Registry Numbers Cluster
CHEMENG	Chemical Engineering Cluster
CHEMISTRY	Chemical Literature Cluster
COMPANIES	Files for company based searches
COMPUTER	Computer Science Cluster
CONSTRUCTION	Building and Construction Cluster

STN on the Web <http://stnweb.fiz-karlsruhe.de/>

PRIMER KLASTRA BAZ PODATKOV ZA RAČUNALNIŠTVO

STN on the web

- About
- First Time User
- Free Search Preview
- Customer Support
- Get Structure Plug-in
- Get Sequence Plug-in
- Standard Login
- Academic Login
- Secure Session
- STN Links
- Feedback

Free Search Preview

The selected field of interest is "COMPUTER" (Computer Science Cluster).

Select two or more databases in the list below. Enter your search terms. Click "Submit".

Search

Submit



Example: "fuel cell efficiency"

**Polje za vnos
iskalnega profila**

Select two or more of these databases. Click "i" for information about that database.

Deselect All

Select All

Change Field of Interest

- ☐ ABI-INFORM
- ☐ COMPENDEX
- ☐ COMPUAB
- ☐ COMPUSCIENCE
- ☐ DISSABS
- ☐ ELCOM
- ☐ FEDRIP
- ☐ IFIPAT
- ☐ INFODATA
- ☐ INSPEC



**Klik odpre
opis baze**

STN on the Web <http://stnweb.fiz-karlsruhe.de/>

PRIMER KLASTRA ZA MATERIALE (izsek)

STN on the web

- About
- First Time User
- Free Search Preview
- Customer Support
- Get Structure Plug-in
- Get Sequence Plug-in
- Standard Login
- Academic Login
- Secure Session
- STN Links
- Feedback

Free Search Preview

The selected field of interest is "MATERIALS" (Materials Science Cluster).

Select two or more databases in the list below. Enter your search terms. Click "Submit".

Search

Submit



Example: "fuel cell efficiency"

**Polje za vnos
iskalnega profila**

Select two or more of these databases. Click "i" for information about that database.

Deselect All

Select All

Change Field of Interest

- ☐ 1MOBILITY
- ☐ 2MOBILITY
- ☐ ALUMINIUM
- ☐ APOLLIT
- ☐ BABS
- ☐ CAPLUS
- ☐ CBNB
- ☐ CEABA-VTB
- ☐ CEN
- ☐ CERAB



**Klik odpre
opis baze**

STN on the Web <http://stnweb.fiz-karlsruhe.de/>

PRIMER OPISA POSAMEZNE BAZE ZNOTRAJ KLASTRA ZA MATERIALE - baza PIRA

STN STN Database Summary Sheet

PIRA

The **PIRA** File (PIRA & PAPAERBASE - Packaging, Paper, Printing, Publishing, Imaging) is a bibliographic database containing information on business and technological developments in packaging, printing, publishing, pulp, paper, imaging, and nonwovens. Both business and technical aspects of these industries are covered, with emphasis on raw materials, production processes, machinery and equipment, environmental issues, products, and end uses. In addition, PIRA includes information relating to all aspects of imaging, including photography, holography, thermography, and radiography techniques, equipment, and applications.

Pulp and paper coverage is provided by Paperbase International, a joint venture of Pira International (UK) and CTP (France), KCL (Finland), and STFI (Sweden).

The database corresponds to the following journals: *Imaging Abstracts*, *International Packaging Abstracts*, *Nonwovens Abstracts*, *Paperbase Abstracts*, *Printing Abstracts*, *World Publishing Monitor*.

The records contain product and company names, title, author, abstract, and controlled and supplementary terms, geographic terms, language, document type, chemical names, and CAS Registry Numbers (R). Also included are entry and update dates and publication years.

This database is available in STN Easy. Customers may reach STN Easy in the following ways;

In Europe: <http://stneasy.fiz-karlsruhe.de>

In Japan: <http://stneasy-japan.cas.org>

In North America and elsewhere: <http://stneasy.cas.org>

IZBOR KLASTROV BAZ PODATKOV

- ADISBASES Adis International Limited Database Cluster
- AEROTECH Aerospace and Related Technology Cluster
- AGRICULTURE Agriculture Cluster
- BIOSCIENCE Bioscience Literature Cluster
- • BUSINESS Sci-Tech Business and News Cluster
- CASRNS CAS Registry Numbers Cluster
- • CHEMENG Chemical Engineering Cluster
- • CHEMISTRY Chemical Literature Cluster
- • COMPANIES Files for company based searches
- • COMPUTER Computer Science Cluster
- CONSTRUCTION Building and Construction Cluster
- ELECTRICAL Electrical Engineering
- • ENGINEERING Engineering and Technology Cluster
- ENVIRONMENT Environment Cluster
- FOOD Food Science and Technology Cluster
- FUELS Energy Sources Cluster
- • FULLTEXT Fulltext Files Cluster

IZBOR KLASTROV BAZ PODATKOV

- GEOSCIENCE Earth and Geo-sciences Cluster
- GOVREGS Governmental Regulations Cluster
- HEALTH Health Sciences Cluster
- HUMANITIES Social Sciences Cluster
- IMSBASES IMS HEALTH Database Cluster
- • MATDATA Materials Data Cluster (Numeric Data)
- • MATERIALS Materials Science Cluster
- MEDICINE Medicine and Medical Science Cluster
- MEETINGS Sci-Tech Meetings and Conferences Cluster
- METALS Metals Cluster
- METDATA Metals Data Cluster (Numeric Data)
- MOBILITY Mobility Engineering Cluster
- NUMERIC All numeric files for STNINDEX searching
- • PATENTS Patents Cluster
- PETROLEUM Petroleum Cluster
- PHARMACOLOGY Pharmaceutical Science Cluster

IZBOR KLASTROV BAZ PODATKOV

- PHIND PHIC & PHIN Cluster (Pharm & Healthcare Ind News)
- PHYSICS Physics Cluster
- PJBBASES PJB Publications Ltd. Database Cluster
- • PLASDATA Plastics Data Cluster (Numeric Data)
- • PNTTEXT Patent Fulltext Files Cluster
- • POLYMERS Polymer Science Cluster
- • RESEARCH Research Cluster
- RFTOOLS Library Reference Tools Cluster
- SAFETY Occupational Health and Safety Cluster
- SUPPLIERS Product Directories and Suppliers Cluster
- TOXICOLOGY Toxicological Information Cluster
- • TRADEMARKS Trademark File Cluster
- • USPATALL US Patent Full Text Cluster

Pregled pomembnejših plačniških bibliografskih baz

online BIBLIOGRAPHIC DATABASES

All sciences

- **SCIENCE CITATION INDEX Expanded** (all science disciplines) = **Web of Science**: most important scientific journals - with Impact Factor (IF)
- **PASCAL** (multidisciplinary - science, technology, medicine)
- **CURRENT CONTENTS SEARCH** (science and humanities)

online BIBLIOGRAPHIC DATABASES

Engineering and technology

- **COMPENDEX** (engineering and technology)
- **INSPEC** (physics, electrical engineering, electronics, control theory and technology, computers and computing)
- **TEMA - Technology and Management** (mechanical, electrical, information, materials, textile, medical)

online BIBLIOGRAPHIC DATABASES

Computers and Informatics

- **COMPUAB** (Computer and Information Systems Abstracts)
- **COMPUSCIENCE** (Computer Science and Technology)
- **ELCOM** (Electronics and Communications Abstracts)
- **INFODATA** - information science, information systems, policy, management, brokerage

online BIBLIOGRAPHIC DATABASES

Material science

- **WSCA - World Surface Coatings Abstracts** (paint and surface coating technology and related fields)
- **RAPRA** (rubber, plastics, adhesives, and polymeric composites)
- **EMA** (Engineered Materials Abstracts) - ceramic, composite, and polymeric materials
- **METADEX** (metallurgy and materials)

online BIBLIOGRAPHIC DATABASES

Textiles

- **TEXTILETECH** textiles and related subjects
<http://www.cas.org/ONLINE/DBSS/textiletechss.html>
- **WTEXTILES** (World Textiles) - science and technology of textile and related materials, textile industry
<http://www.cas.org/ONLINE/DBSS/wtextilesss.html>

online BIBLIOGRAPHIC DATABASES

Pulp and Paper

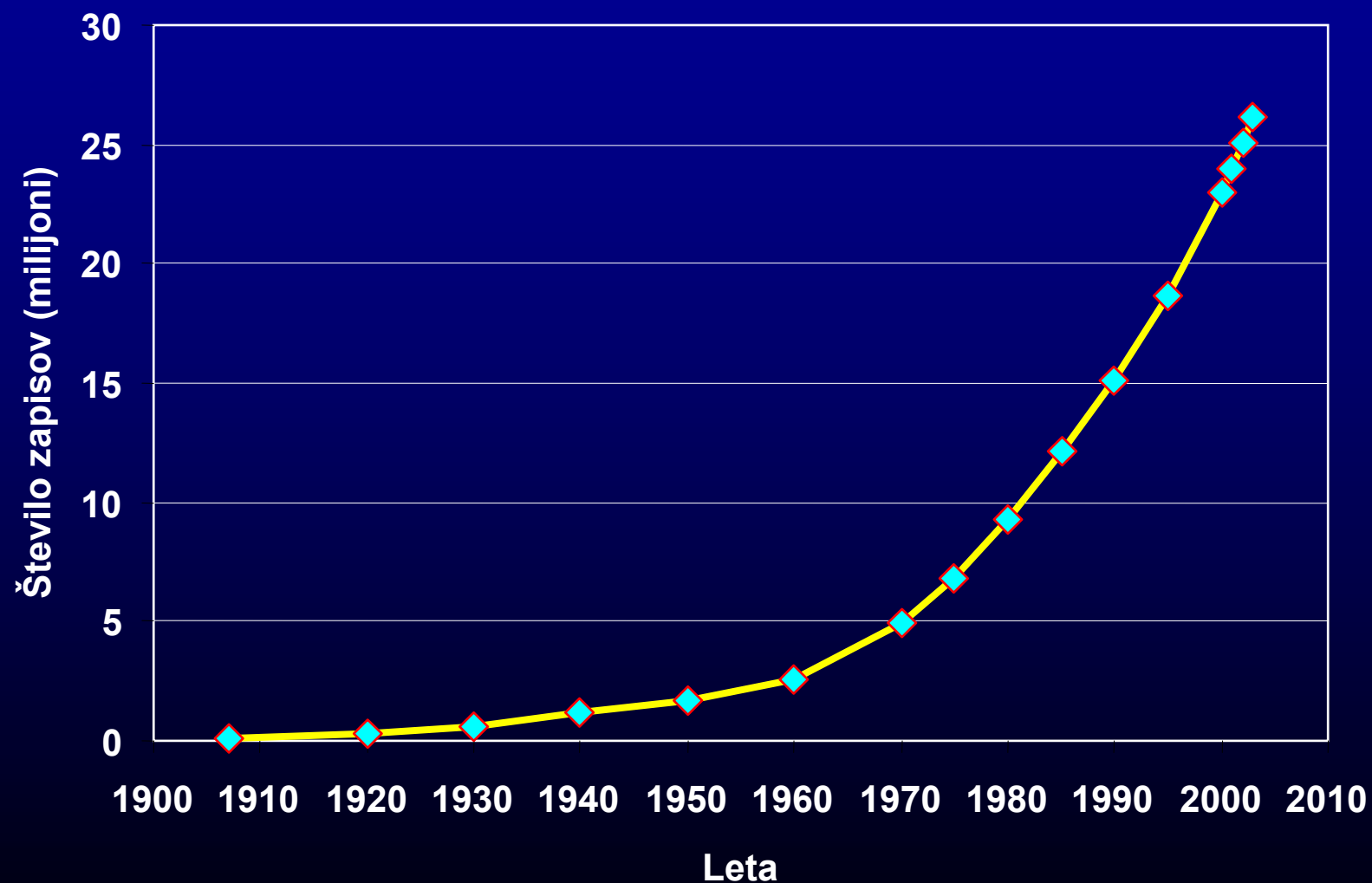
- **PAPERCHEM** (pulp and paper technology - patent and journal literature on hemicellulose, carbohydrates, lignin, wood extractives, engineering and processes, graphic arts, packaging)
<http://www.cas.org/ONLINE/DBSS/paperchem2ss.html>
- **PIRA** (business and technological developments in packaging, paper, printing, publishing, imaging) <http://www.cas.org/ONLINE/DBSS/pirass.html>

online BIBLIOGRAPHIC DATABASES

Chemistry

- **CHEMICAL ABSTRACTS** (chemistry, biochemistry, chemical engineering)
- **ANALYTICAL ABSTRACTS** (analytical chemistry)
- **CHEMINFORM** (chemical synthesis)

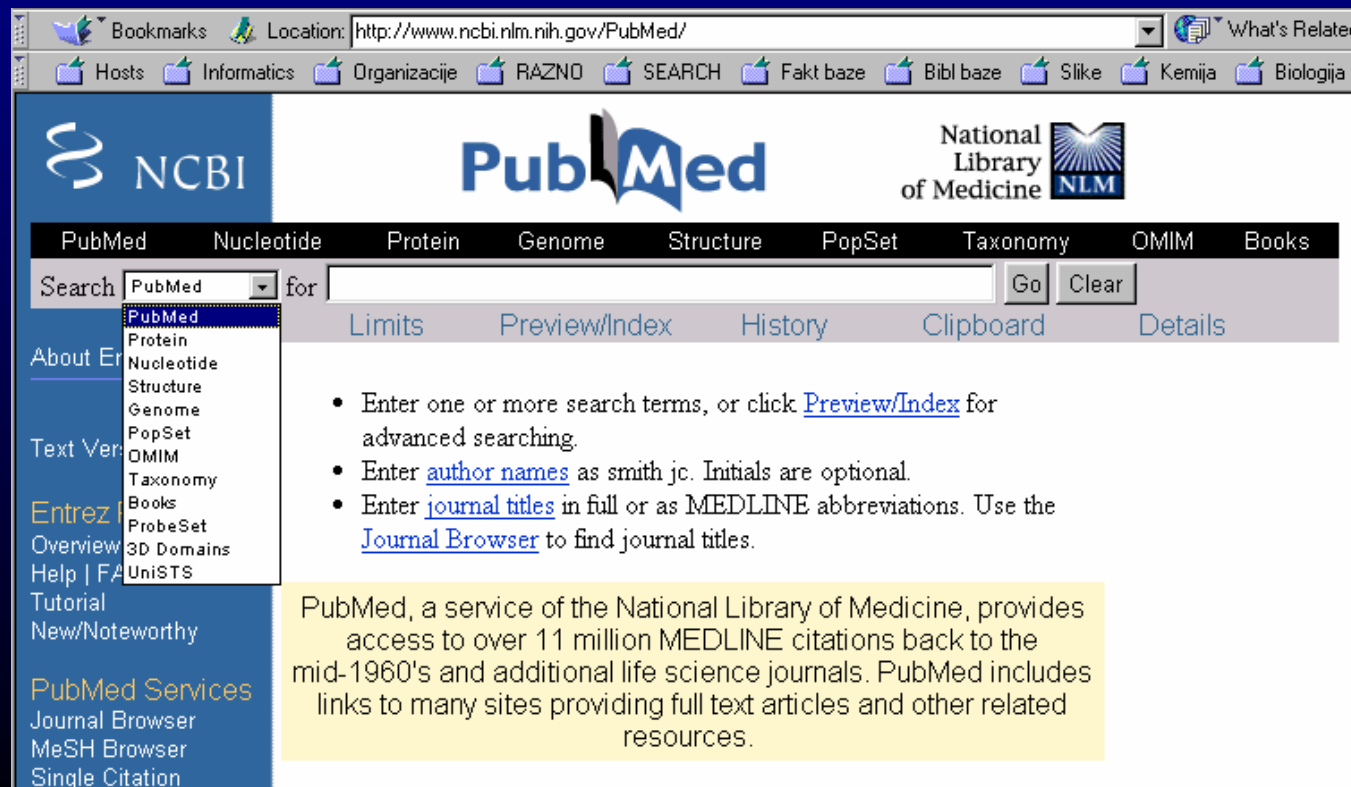
RAST BAZE CHEMICAL ABSTRACTS



online BIBLIOGRAPHIC DATABASES

Medicine

- **MEDLINE** - all areas of medicine



PUB MED

<http://www.ncbi.nlm.nih.gov/PubMed/>

online BIBLIOGRAPHIC DATABASES

Environment and Pollution

- **AQUALINE** - Water
- **OCEAN** - Ocean Abstracts
- **AQUASCI** - Aquatic Sciences and Fisheries Abstracts
- **GEOREF** - Geological sciences
- **ENERGY** - Energy research and technology
- **ENVIROENG** - Environmental Engineering Abstracts
- **POLLUAB** - Pollution Abstracts
- **TOXCENTER - Toxicology Center** pharmacological, biochemical, physiological, and toxicological effects of drugs and other chemicals

online BIBLIOGRAPHIC DATABASES

Safety

- **HEALSAFE (Health and Safety Science Abstracts)** safety: general, environmental, industrial, occupational, transportation, aviation and aerospace, medical
- **CSNB (Chemical Safety NewsBase)** - fire and explosions, storage and transport, toxic substances, studies on laboratory animals, waste removal

BIBLIOGRAPHIC DATABASES

Standards

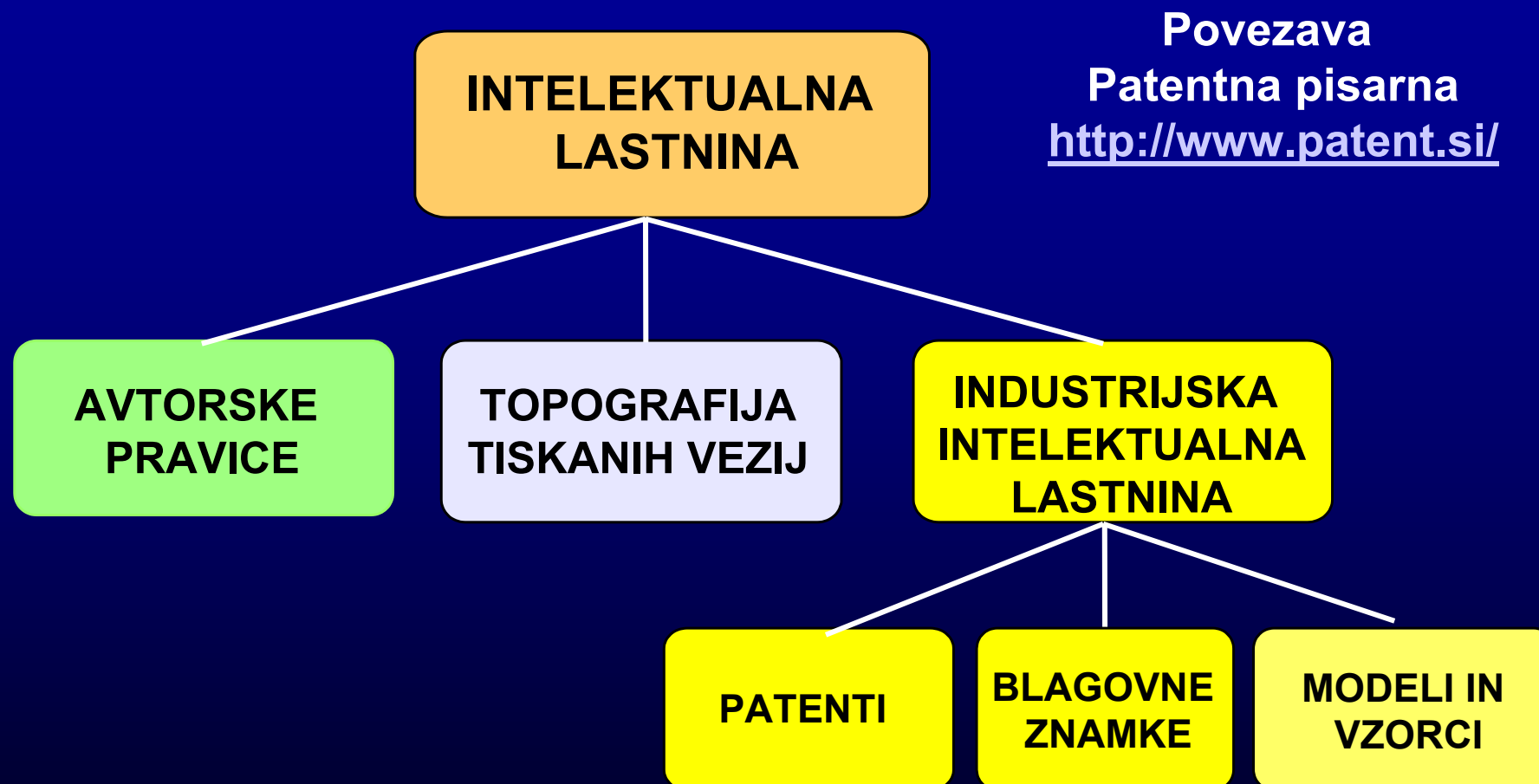
- **STANDARDS (The International Standards Database)** - technical standards and specifications (ONLINE)
- **STANDARDS INFODISK** (CD-ROM)
- **PERINORM** (CD-ROM)

online BIBLIOGRAPHIC DATABASES

Business

- **PROMT (Predicates Overview of Markets and Technology)** - all areas
- **CBNB** (chemical industry, paper, paint, plastics, agrochemicals, pharmaceuticals, and cosmetics)
- **CEN** - Chemical and Engineering News
- **CIN** - Chemical Industry Notes

Intelektualna lastnina



S patentom se zavaruje tehnični izum.

Z modelom ali vzorcem se zavaruje zunanja oblika izdelka.

Z blagovno znamko se zavaruje znak, namenjen razlikovanju blaga na trgu.

online BIBLIOGRAPHIC DATABASES

Patents

STN patents cluster <http://stnweb.fiz-karlsruhe.de/html/english/>

- **WORLD PATENTS INDEX (DERWENT)**

[Povezava Espacenet](#)

- **INPADOC**

[Primer patenta](#)

- **EUROPEAN PATENTS FULLTEXT**

[Tabela ISO
kode držav](#)

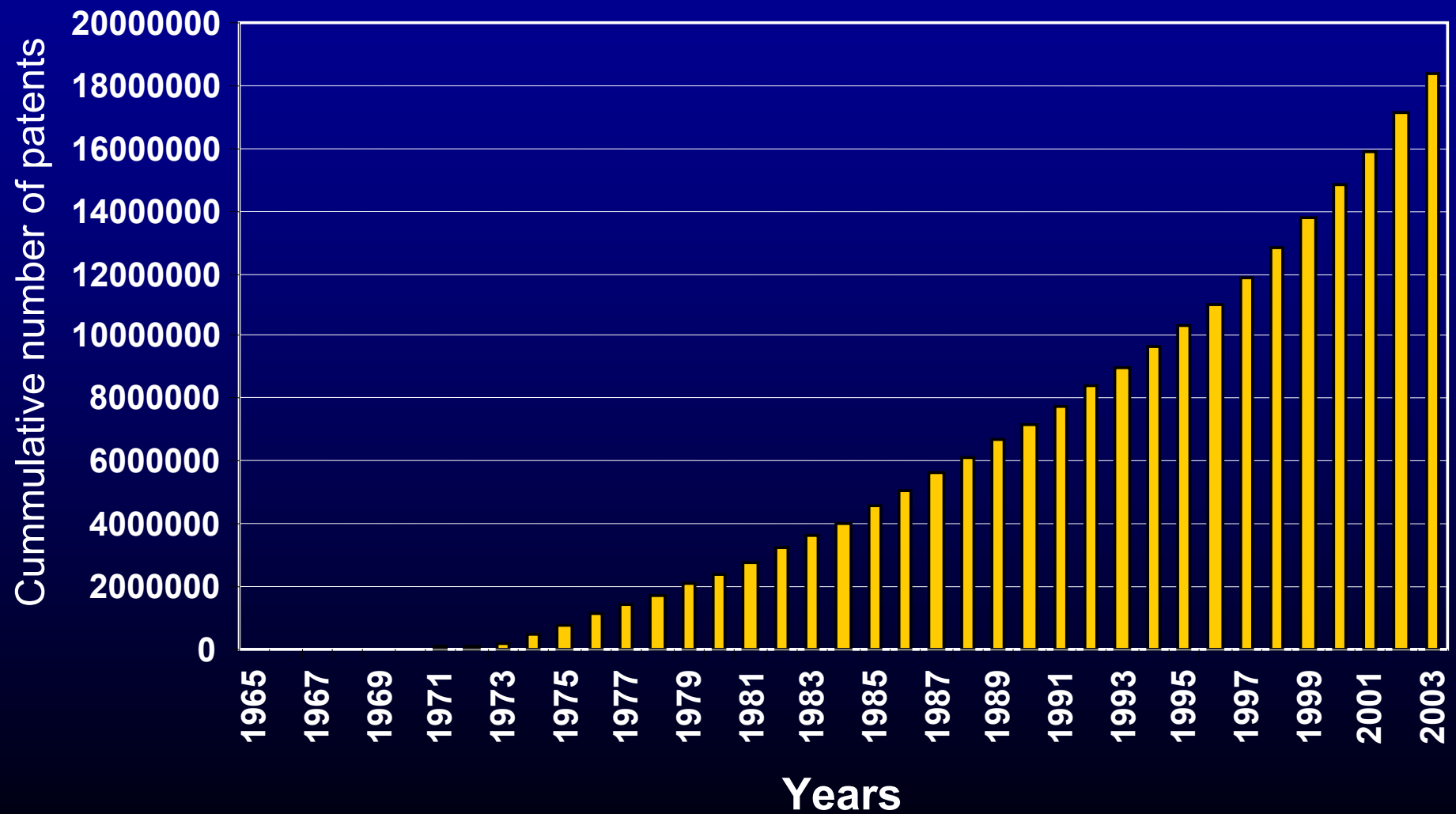
- **USPATFULL**

- **PCTFULL**

- **JAPIO**



WORLD PATENTS INDEX



online BIBLIOGRAPHIC DATABASES

Trademarks

- **DEMAS (German Trademarks Search System)** covers German trademarks since 1894
- **EUMAS - EUropean community tradeMArks Search system**
- **IRMAS (International Register Trademarks Search System)** - valid IR Marks registered with the World Intellectual Property Organization (WIPO) in Geneva, Switzerland

Povezava na Questel Orbit Intellectual Property Group
<http://www.questel.orbit.com/index.htm> - glej katalog baz podatkov

Načini iskanja po bibliografskih bazah

1. **BIBLIOGRAFSKO ISKANJE** (bibliographic searches):

RS - Retrospective Search (retrospektivne poizvedbe za izbrano časovno obdobje po letih)

SDI - Selective Dissemination of Information / Current Awareness Service (sprotne poizvedbe po postavljenem profilu)

2. **METODE DODANE VREDNOSTI** za zasledovanje trendov (Added-value processing for the **RECOGNITION OF TRENDS**)

Primer:

Retrospektivna poizvedba

**Primer 1 : grafično oblikovanje
(STN on Web)**

Preverjanje iskalnega profila na STN on the Web - Free Search Preview

<http://stnweb.fiz-karlsruhe.de/>

The screenshot shows a Netscape browser window with the address bar displaying <http://stnweb.fiz-karlsruhe.de/>. The browser's toolbar includes icons for Mail, AIM, Home, Radio, My Netscape, Search, Bookmarks, Hosts, Organizacije, RAZNO, SEARCH, Informatika, Kemija, and BI-GO Okolje. The website's main content area features the STN logo and the text "on the web". Below this, there is a login section with fields for "Login ID" and "Password", and a "Login" button. To the right of the login section, there is a section titled "Power of STN — Convenience of the Web!" with a description of STN's functionality. Below the login section, there are four icons: "First Time User" (a question mark), "Free Search Preview" (an exclamation mark, which is highlighted with a red border), "STN Sneak Preview" (a keyhole), and "What's New!" (a star). At the bottom of the page, there is a link to "Impressum".

STN on the web

About
First Time User
Free Search Preview
Customer Support
Get Structure Plug-in
Get Sequence Plug-in
Standard Login
Academic Login
Secure Session
STN Links
Feedback

STN on the web

Login ID
Password
Login

**Power of STN —
Convenience of the Web!**
STN's complete functionality for
searching more than 200 essential
databases of information in science
and technology.

Browser requirements: Windows: Netscape Navigator 4.x and higher or MSIE 4.x and higher;
Macintosh: Netscape 4.x or MSIE 4.x. Javascript must be enabled.

First Time User
 Free Search Preview
 STN Sneak Preview
 What's New!

[Impressum](#)

Izbor klastra baz podatkov - npr. Materials

STN on the web

- About
- First Time User
- Free Search Preview
- Customer Support
- Get Structure Plug-in
- Standard Login
- Academic Login
- Secure Session
- STN Links
- Feedback

Free Search Preview

Search Preview is a free tool for identifying STN databases that contain answers relevant to your search question. It uses the powerful STNindex database scanning feature and displays the number of answers per database that would be retrieved in an actual search.

First click on your field of interest:

ADISBASES	Adis International Limited Database Cluster
AEROTECH	Aerospace and Related Technology Cluster
AGRICULTURE	Agriculture Cluster
BIOSCIENCE	Bioscience Literature Cluster
BUSINESS	Sci-Tech Business and News Cluster
CASRNS	CAS Registry Numbers Cluster
CHEMENG	Chemical Engineering Cluster
CHEMISTRY	Chemical Literature Cluster
COMPANIES	Files for company based searches
COMPUTER	Computer Science Cluster
CONSTRUCTION	Building and Construction Cluster
ELECTRICAL	Electrical Engineering
ENGINEERING	Engineering and Technology Cluster
ENVIRONMENT	Environment Cluster
FOOD	Food Science and Technology Cluster
FUELS	Energy Sources Cluster
FULLTEXT	Fulltext Files Cluster
GEOSCIENCE	Earth and Geo-sciences Cluster
GOVREGS	Governmental Regulations Cluster
HEALTH	Health Sciences Cluster
HUMANITIES	Social Sciences Cluster
IMSBASES	IMS HEALTH Database Cluster
MATDATA	Materials Data Cluster (Numeric Data)
MATERIALS	Materials Science Cluster
MEDICINE	Medicine and Medical Science Cluster
MEETINGS	Sci-Tech Meetings and Conferences Cluster
METALS	Metals Cluster
METNATA	Metals Data Cluster (Numeric Data)

**Izbor klastra
baz podatkov
npr. Materials**

Start | Eudora - [In] | Exploring - C:\My Docume... | Microsoft PowerPoint - [Mi... | STN on the Web - Mi... | STN1.bmp - Paint | 3:22

Preverjanje začetnega iskalnega profila **graphic(w)design#** na vseh bazah znotraj klastra

STN on the web

- About
- First Time User
- Free Search Preview
- Customer Support
- Get Structure Plug-in
- Get Sequence Plug-in
- Standard Login
- Academic Login
- Secure Session
- STN Links
- Feedback

Free Search Preview

The selected field of interest is "MATERIALS" (Materials Science Cluster).
Select two or more databases in the list below. Enter your search terms. Click "Submit".

Search

i Example: "fuel cell efficiency"

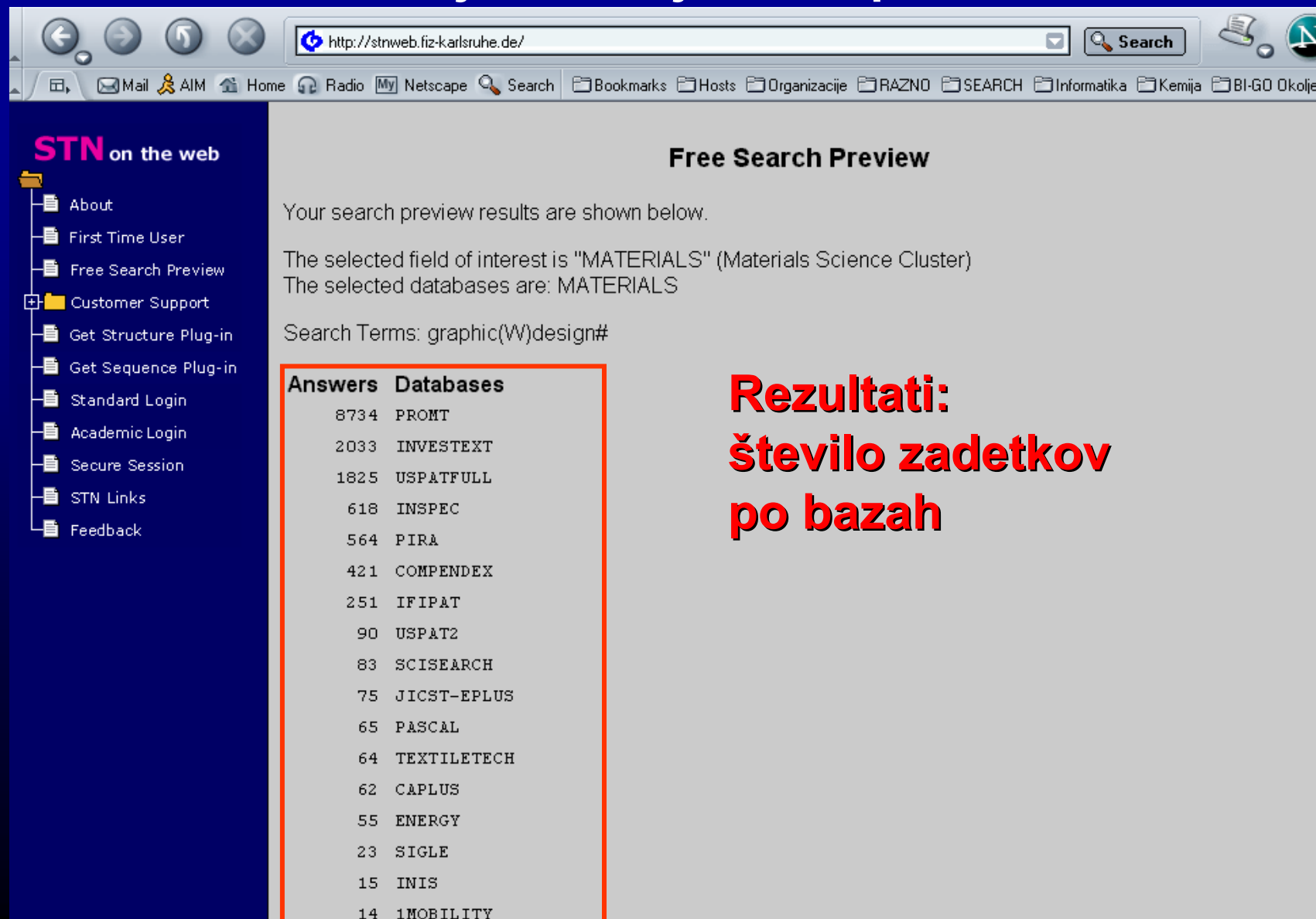
Select two or more of these databases. Click "i" for information about that database.

<input checked="" type="checkbox"/>	1MOBILITY	<i>i</i>
<input checked="" type="checkbox"/>	2MOBILITY	<i>i</i>
<input checked="" type="checkbox"/>	ALUMINIUM	<i>i</i>
<input checked="" type="checkbox"/>	APOLLIT	<i>i</i>
<input checked="" type="checkbox"/>	BABS	<i>i</i>
<input checked="" type="checkbox"/>	CAPLUS	<i>i</i>
<input checked="" type="checkbox"/>	CBNB	<i>i</i>
<input checked="" type="checkbox"/>	CEABA-VTB	<i>i</i>
<input checked="" type="checkbox"/>	CEN	<i>i</i>
<input checked="" type="checkbox"/>	CERAB	<i>i</i>
<input checked="" type="checkbox"/>	CIN	<i>i</i>

Izbor vseh baz podatkov

Zapis iskalnega profila

Rezultati: število zadetkov za iskalni profil **graphic(w)design#** po posameznih bazah. Izbor najustreznejših baz podatkov



STN on the web

- About
- First Time User
- Free Search Preview
- Customer Support
- Get Structure Plug-in
- Get Sequence Plug-in
- Standard Login
- Academic Login
- Secure Session
- STN Links
- Feedback

Free Search Preview

Your search preview results are shown below.

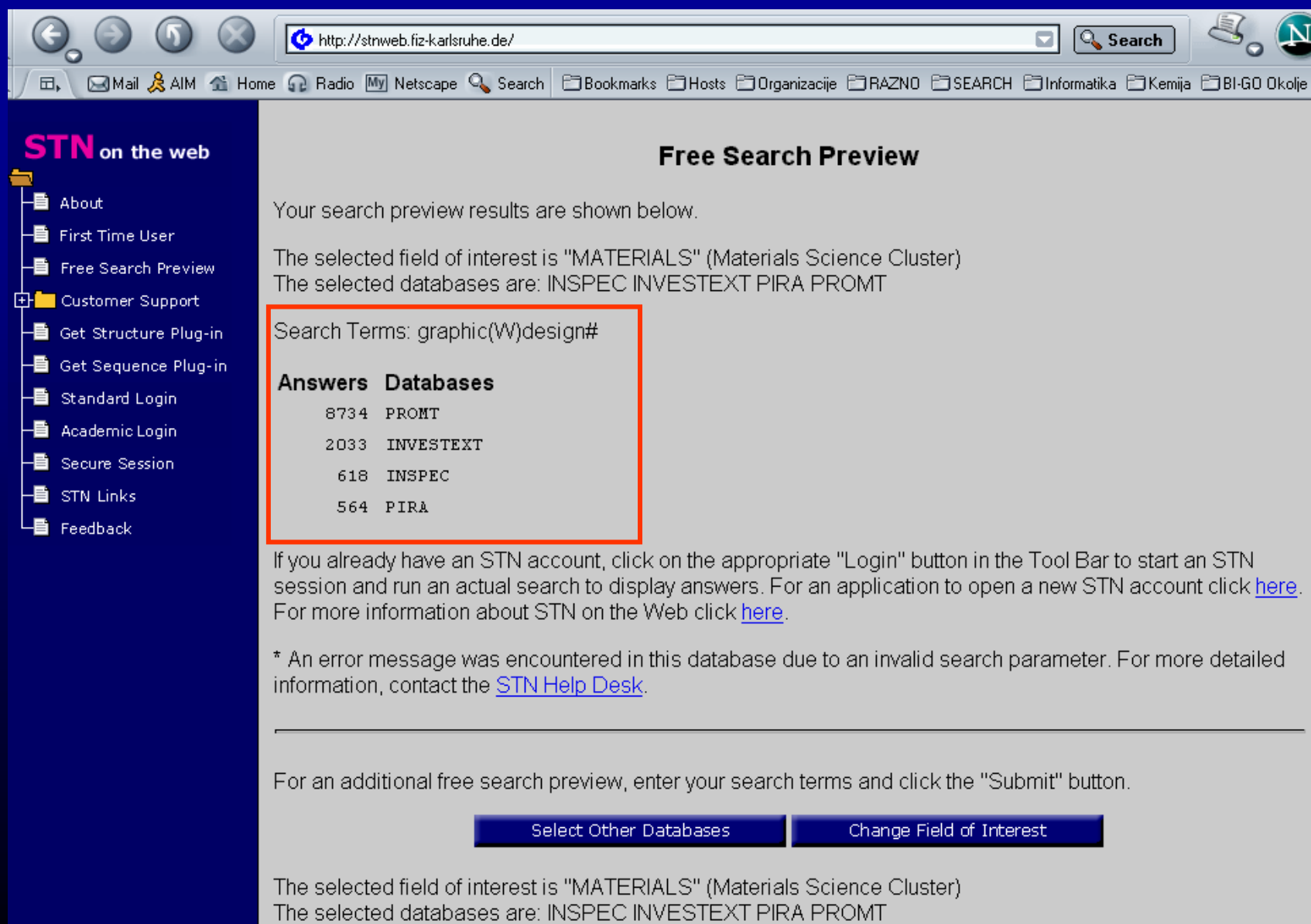
The selected field of interest is "MATERIALS" (Materials Science Cluster)
The selected databases are: MATERIALS

Search Terms: graphic(W)design#

Answers	Databases
8734	PROMT
2033	INVESTEXT
1825	USPATFULL
618	INSPEC
564	PIRA
421	COMPENDEX
251	IFIPAT
90	USPAT2
83	SCISEARCH
75	JICST-EPLUS
65	PASCAL
64	TEXTILETECH
62	CAPLUS
55	ENERGY
23	SIGLE
15	INIS
14	1MOBILITY

**Rezultati:
število zadetkov
po bazah**

Procesiranje iskalnega profila **graphic(w)design#** na izbranih bazah



STN on the web

- About
- First Time User
- Free Search Preview
- Customer Support
- Get Structure Plug-in
- Get Sequence Plug-in
- Standard Login
- Academic Login
- Secure Session
- STN Links
- Feedback

Free Search Preview

Your search preview results are shown below.

The selected field of interest is "MATERIALS" (Materials Science Cluster)
The selected databases are: INSPEC INVESTEXT PIRA PROMT

Search Terms: **graphic(w)design#**

Answers	Databases
8734	PROMT
2033	INVESTEXT
618	INSPEC
564	PIRA

If you already have an STN account, click on the appropriate "Login" button in the Tool Bar to start an STN session and run an actual search to display answers. For an application to open a new STN account click [here](#). For more information about STN on the Web click [here](#).

* An error message was encountered in this database due to an invalid search parameter. For more detailed information, contact the [STN Help Desk](#).

For an additional free search preview, enter your search terms and click the "Submit" button.

[Select Other Databases](#) [Change Field of Interest](#)

The selected field of interest is "MATERIALS" (Materials Science Cluster)
The selected databases are: INSPEC INVESTEXT PIRA PROMT

Oženje iskalnega profila : dodajanje ključnih besed **graphic(w)design# AND computer?**

The screenshot shows a web browser window with the address bar displaying <http://stnweb.fiz-karlsruhe.de/>. The browser's toolbar includes buttons for Mail, AIM, Home, Radio, My Netscape, Search, Bookmarks, Hosts, Organizacije, RAZNO, SEARCH, Informatika, Kemija, and BI-GO Okolje. The left sidebar, titled "STN on the web", contains a list of links: About, First Time User, Free Search Preview, Customer Support (highlighted with a plus icon), Get Structure Plug-in, Get Sequence Plug-in, Standard Login, Academic Login, Secure Session, STN Links, and Feedback. The main content area is titled "Free Search Preview" and contains the following text:

Your search preview results are shown below.

The selected field of interest is "MATERIALS" (Materials Science Cluster)
The selected databases are: INSPEC INVESTEXT PIRA PROMT

Search Terms: graphic(w)design# AND computer?

Answers	Databases
4010	PROMT
796	INVESTEXT
433	INSPEC
174	PIRA

If you already have an STN account, click on the appropriate "Login" button in the Tool Bar to start an STN session and run an actual search to display answers. For an application to open a new STN account click [here](#). For more information about STN on the Web click [here](#).

* An error message was encountered in this database due to an invalid search parameter. For more detailed information, contact the [STN Help Desk](#).

For an additional free search preview, enter your search terms and click the "Submit" button.

At the bottom of the page, there are two buttons: "Select Other Databases" and "Change Field of Interest".

Nadaljnje oženje iskalnega profila : dodajanje ključnih besed **graphic(w)design# AND computer? AND vector?**

STN on the web

- About
- First Time User
- Free Search Preview
- + Customer Support
- Get Structure Plug-in
- Get Sequence Plug-in
- Standard Login
- Academic Login
- Secure Session
- STN Links
- Feedback

Free Search Preview

Your search preview results are shown below.

The selected field of interest is "MATERIALS" (Materials Science Cluster)

The selected databases are: INSPEC INVESTEXT PROMT PIRA

Search Terms: graphic(w)design# AND computer? AND vector?

Answers Databases

162	PROMT
8	INVESTEXT
5	INSPEC
5	PIRA

If you already have an STN account, click on the appropriate "Login" button in the Tool Bar to start an STN session and run an actual search to display answers. For an application to open a new STN account click [here](#). For more information about STN on the Web click [here](#).

* An error message was encountered in this database due to an invalid search parameter. For more detailed information, contact the [STN Help Desk](#).

For an additional free search preview, enter your search terms and click the "Submit" button.

Select Other Databases

Change Field of Interest

Načini iskanja po bibliografskih bazah

1. **BIBLIOGRAFSKO ISKANJE** (bibliographic searches):

RS - Retrospective Search (retrospektivne poizvedbe za izbrano časovno obdobje po letih)

SDI - Selective Dissemination of Information / Current Awareness Service (sprotne poizvedbe po postavljenem profilu)

2. **METODE DODANE VREDNOSTI** za zasledovanje trendov (Added-value processing for the **RECOGNITION OF TRENDS**)

Uporaba metod dodane vrednosti za prepoznavanje trendov

**Naloga: Ugotoviti razmerje med
patentno in nepatentno literaturo za
področje sintetičnega papirja v letih
1980 - 2003
(STN on Web)**

Profili za iskanje trendov vsebujejo:

- **Ključne besede** povezane z Boolovimi operatorji in operatorji bližanja
- Opredelitev časovnega obdobja – polje Publication Year **PY**
- Opredelitev tipa dokumenta – polje Document Type **DT**
- Vezava skopov iskalnega profila z operatorjem **AND**

STN on the Web - Free Search Preview

<http://stnweb.fiz-karlsruhe.de/>

The screenshot shows a Netscape browser window with the address bar displaying <http://stnweb.fiz-karlsruhe.de/>. The browser's toolbar includes icons for Mail, AIM, Home, Radio, My Netscape, Search, Bookmarks, Hosts, Organizacije, RAZNO, SEARCH, Informatika, Kemija, and BI-GO Okolje. The website's main content area features the STN logo and the text "on the web" above a grid pattern. Below this, there is a login section with fields for "Login ID" and "Password", and a "Login" button. To the right of the login fields, the text reads "Power of STN — Convenience of the Web!" followed by a description of STN's functionality. A "Browser requirements" section specifies the necessary software for Windows and Macintosh. At the bottom, there are four circular icons: "First Time User" (question mark), "Free Search Preview" (exclamation mark, highlighted with a red border), "STN Sneak Preview" (keyhole), and "What's New!" (flower). A "Feedback" link is also present in the left sidebar.

STN on the web

- About
- First Time User
- Free Search Preview
- Customer Support
- Get Structure Plug-in
- Get Sequence Plug-in
- Standard Login
- Academic Login
- Secure Session
- STN Links
- Feedback

STN on the web

Login ID

Password

Login

**Power of STN —
Convenience of the Web!**

STN's complete functionality for searching more than 200 essential databases of information in science and technology.

Browser requirements: Windows: Netscape Navigator 4.x and higher or MSIE 4.x and higher; Macintosh: Netscape 4.x or MSIE 4.x. Javascript must be enabled.

First Time User

Free Search Preview

STN Sneak Preview

What's New!

[Impressum](#)

Izbor klastra baz podatkov - npr. Materials

STN on the web

- About
- First Time User
- Free Search Preview
- Customer Support
- Get Structure Plug-in
- Standard Login
- Academic Login
- Secure Session
- STN Links
- Feedback

Free Search Preview

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First click on your field of interest:

ADISBASES	Adis International Limited Database Cluster
AEROTECH	Aerospace and Related Technology Cluster
AGRICULTURE	Agriculture Cluster
BIOSCIENCE	Bioscience Literature Cluster
BUSINESS	Sci-Tech Business and News Cluster
CASRNS	CAS Registry Numbers Cluster
CHEMENG	Chemical Engineering Cluster
CHEMISTRY	Chemical Literature Cluster
COMPANIES	Files for company based searches
COMPUTER	Computer Science Cluster
CONSTRUCTION	Building and Construction Cluster
ELECTRICAL	Electrical Engineering
ENGINEERING	Engineering and Technology Cluster
ENVIRONMENT	Environment Cluster
FOOD	Food Science and Technology Cluster
FUELS	Energy Sources Cluster
FULLTEXT	Fulltext Files Cluster
GEOSCIENCE	Earth and Geo-sciences Cluster
GOVREGS	Governmental Regulations Cluster
HEALTH	Health Sciences Cluster
HUMANITIES	Social Sciences Cluster
IMSBASES	IMS HEALTH Database Cluster
MATDATA	Materials Data Cluster (Numeric Data)
MATERIALS	Materials Science Cluster
MEDICINE	Medicine and Medical Science Cluster
MEETINGS	Sci-Tech Meetings and Conferences Cluster
METALS	Metals Cluster
METNATA	Metals Data Cluster (Numeric Data)

http://stnweb.fiz-karlsruhe.de/

Mail AIM Home Radio My Netscape Search Bookmarks Hosts Organizacije RAZNO SEARCH

STN on the web

- About
- First Time User
- Free Search Preview
- Customer Support
- Get Structure Plug-in
- Get Sequence Plug-in
- Standard Login
- Academic Login
- Secure Session
- STN Links
- Feedback

Free Search Preview

Your search preview results are shown below.

The selected field of interest is "MATERIALS" (Materials Science Cluster)
The selected databases are: MATERIALS

Search Terms: synthetic(w)paper#

Answers	Databases
5249	USPATFULL
1337	CAPLUS
467	PIRA
389	IFIPAT
324	RAPRA
319	PROMT
241	USPAT2
230	JICST-EPLUS
115	CIN
94	CBNB
94	COMPENDEX
51	APOLLIT
49	PASCAL
42	WSCA
30	INSPEC
29	INVESTEXT
29	WTEXTILES

Iskanje
ustreznih
baz
podatkov:
iskalni
profil:
**synthetic
(w)paper#**

(Zahteva
STN:
izberi vsaj
2 bazi)

Preverjanje, ali bazi CAPlus in PIRA vsebujeta tudi patentne dokumente: **synthetic(w)paper# AND P/DT**

Free Search Preview

Your search preview results are shown below.

The selected field of interest is "MATERIALS" (Materials Science Cluster)

The selected databases are: CAPLUS PIRA

Search Terms: synthetic(w)paper# and P/DT

Answers	Databases
1105	CAPLUS
9	PIRA

Procesiranje iskalnih profilov na bazah CAPlus in PIRA po posameznih letih za:

a) vse dokumente: **synthetic(w)paper# AND 2003/PY**
(posamezni profili od 2003/PY ... do ... 1980/PY)

Search Terms: synthetic(w)paper# AND 2003/PY

Answers Databases

68 CAPLUS

8 PIRA

b) za patente: **synthetic(w)paper# AND 2003/PY
AND P/DT**

Search Terms: synthetic(w)paper# AND 2003/PY AND P/DT

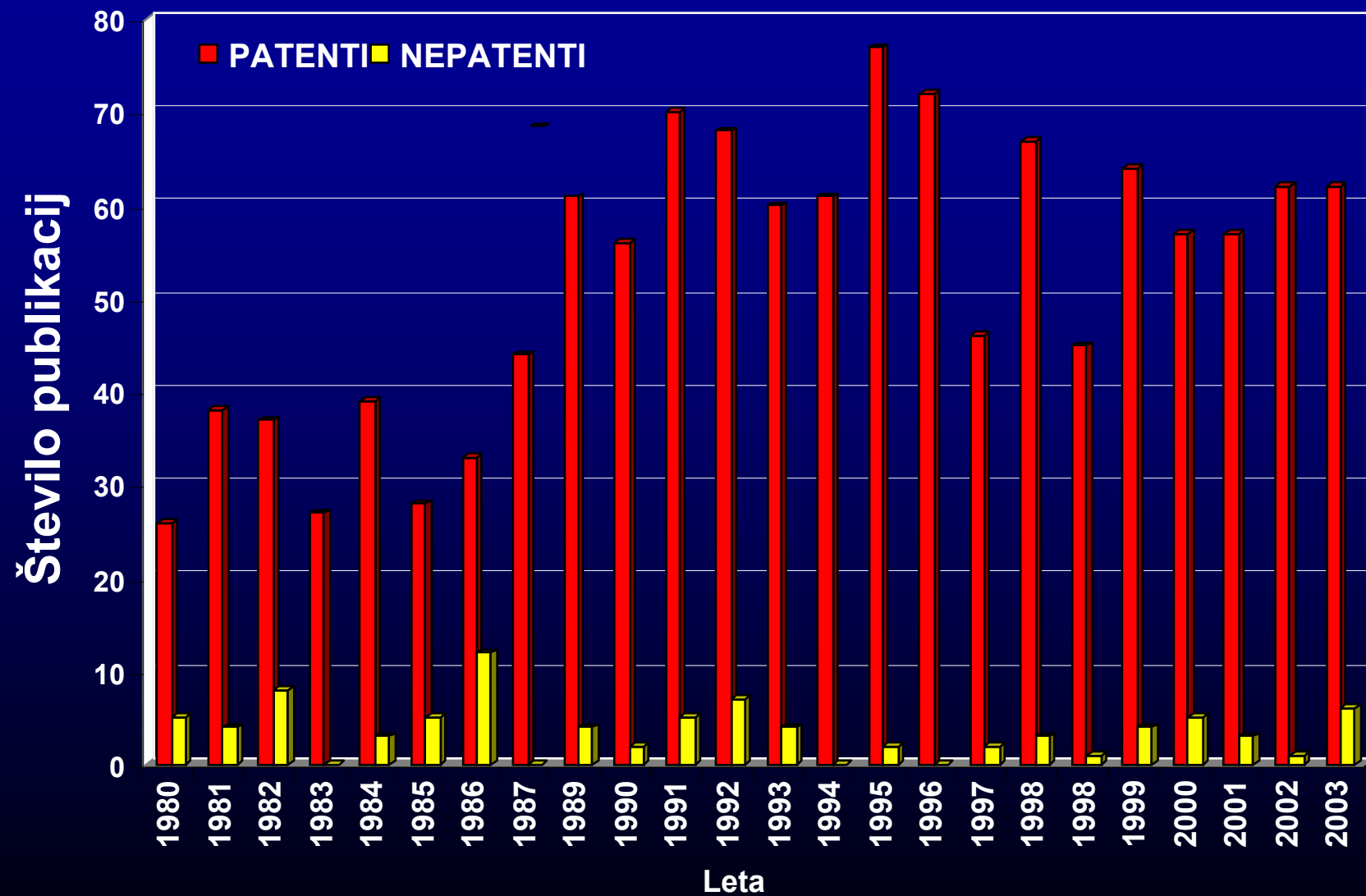
Answers Databases

62 CAPLUS

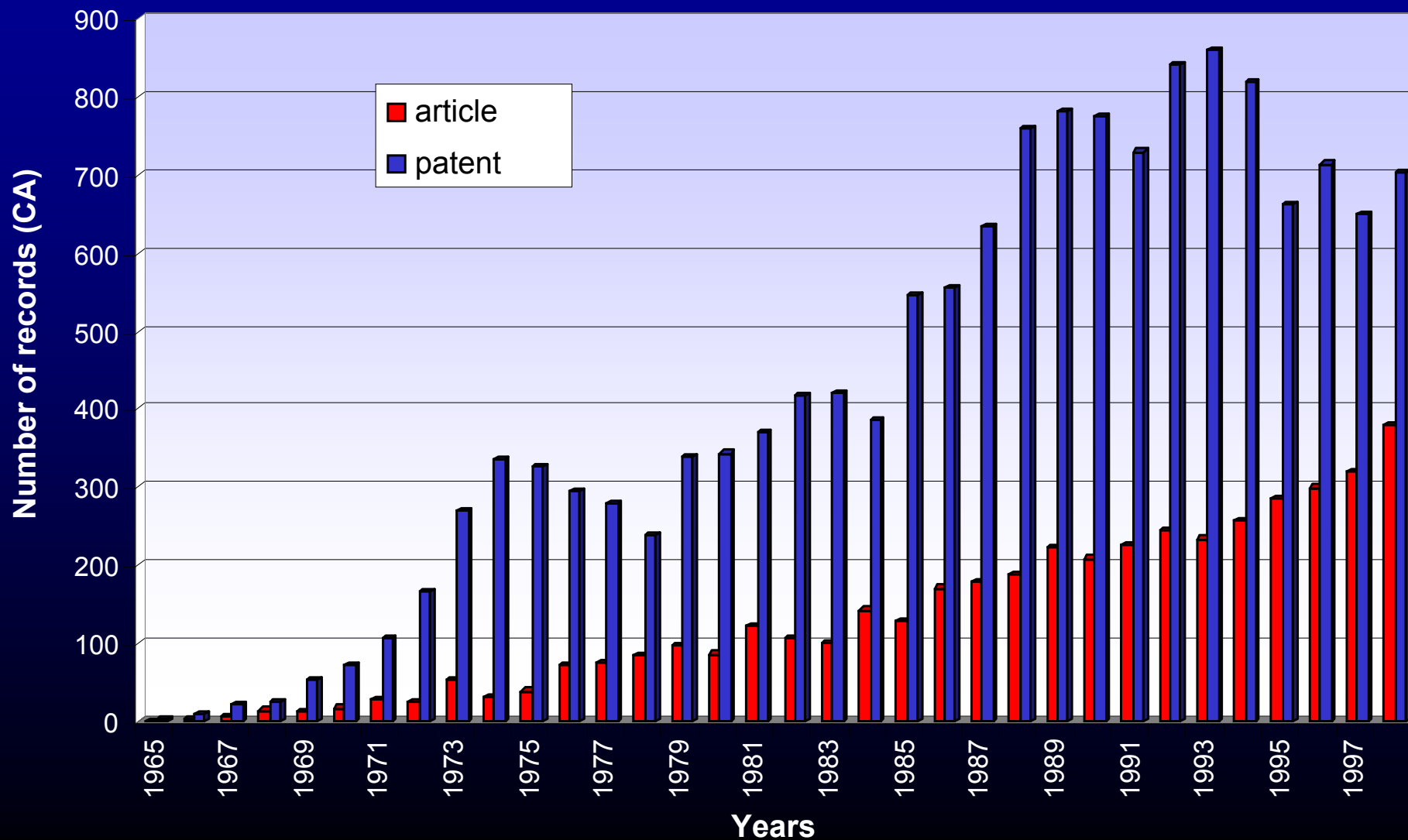
LETO	VSI	PATENTI	NEPATENTI
2003	68	62	6
2002	63	62	1
2001	60	57	3
2000	62	57	5
1999	68	64	4
1998	70	67	3
1997	48	46	2
1996	72	72	0
1995	79	77	2
1994	61	61	0
1993	64	60	4
1992	75	68	7
1991	75	70	5
1990	58	56	2
1989	65	61	4
1988	46	45	1
1987	44	44	0
1986	45	33	12
1985	33	28	5
1984	42	39	3
1983	27	27	0
1982	45	37	8
1981	42	38	4
1980	31	26	5

**Urejanje
podatkov v
tabelo**

Grafična predstavitev rezultatov

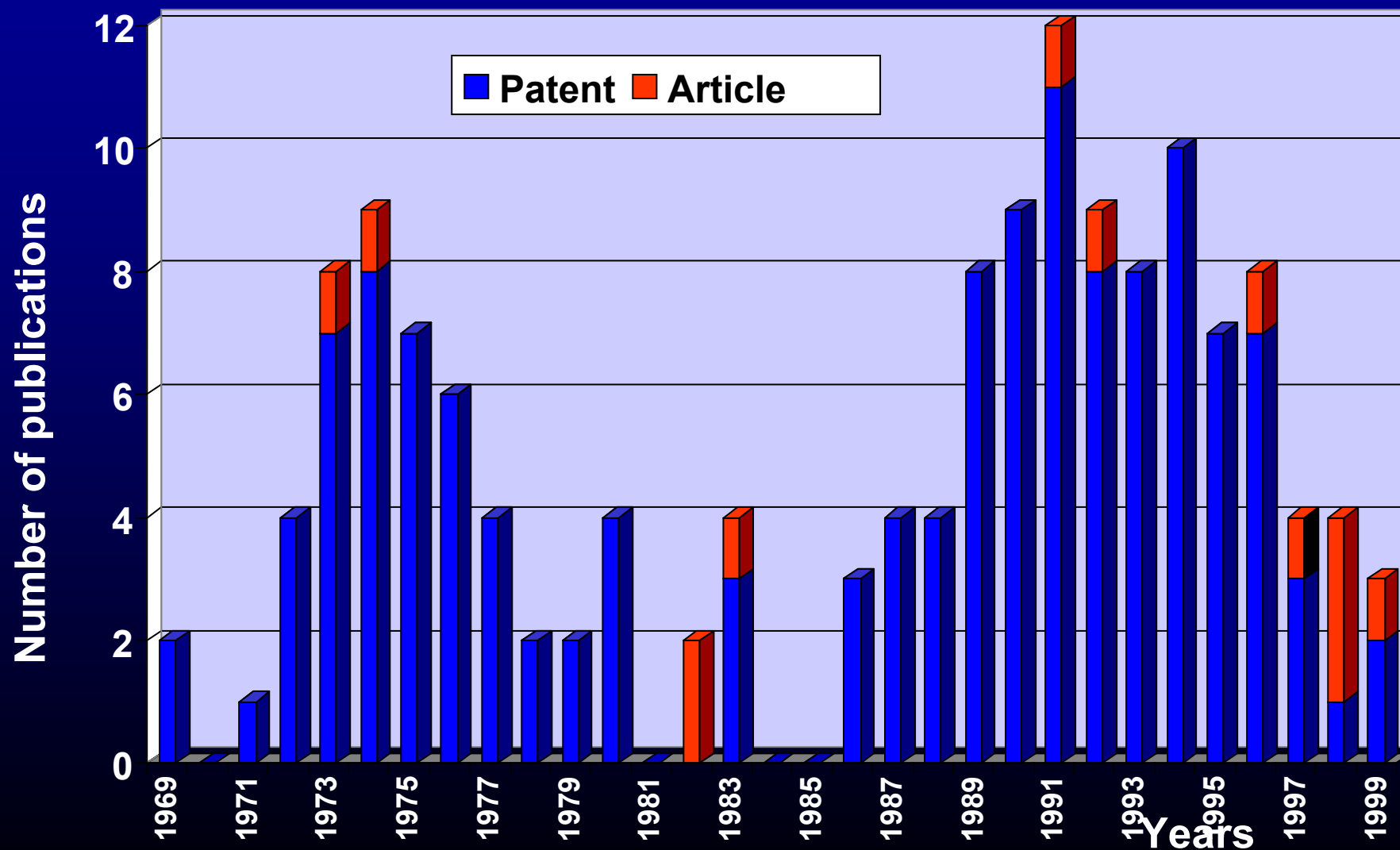


Primer 2: Growth of new patents and scientific articles on microencapsulation (CAPlus)



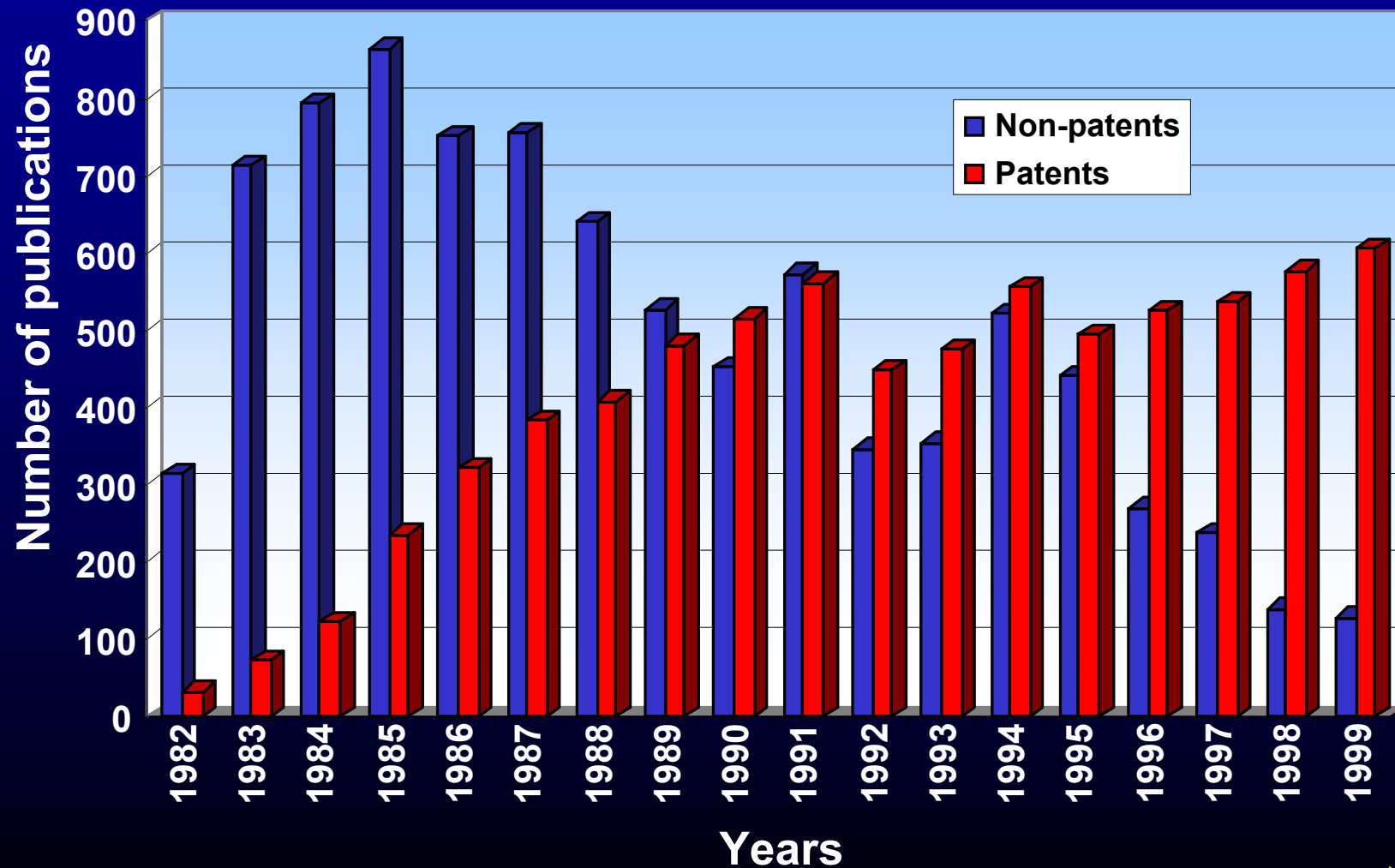
Primer 3:

Growth of new patents and scientific articles on microencapsulation for textiles (CAPlus)



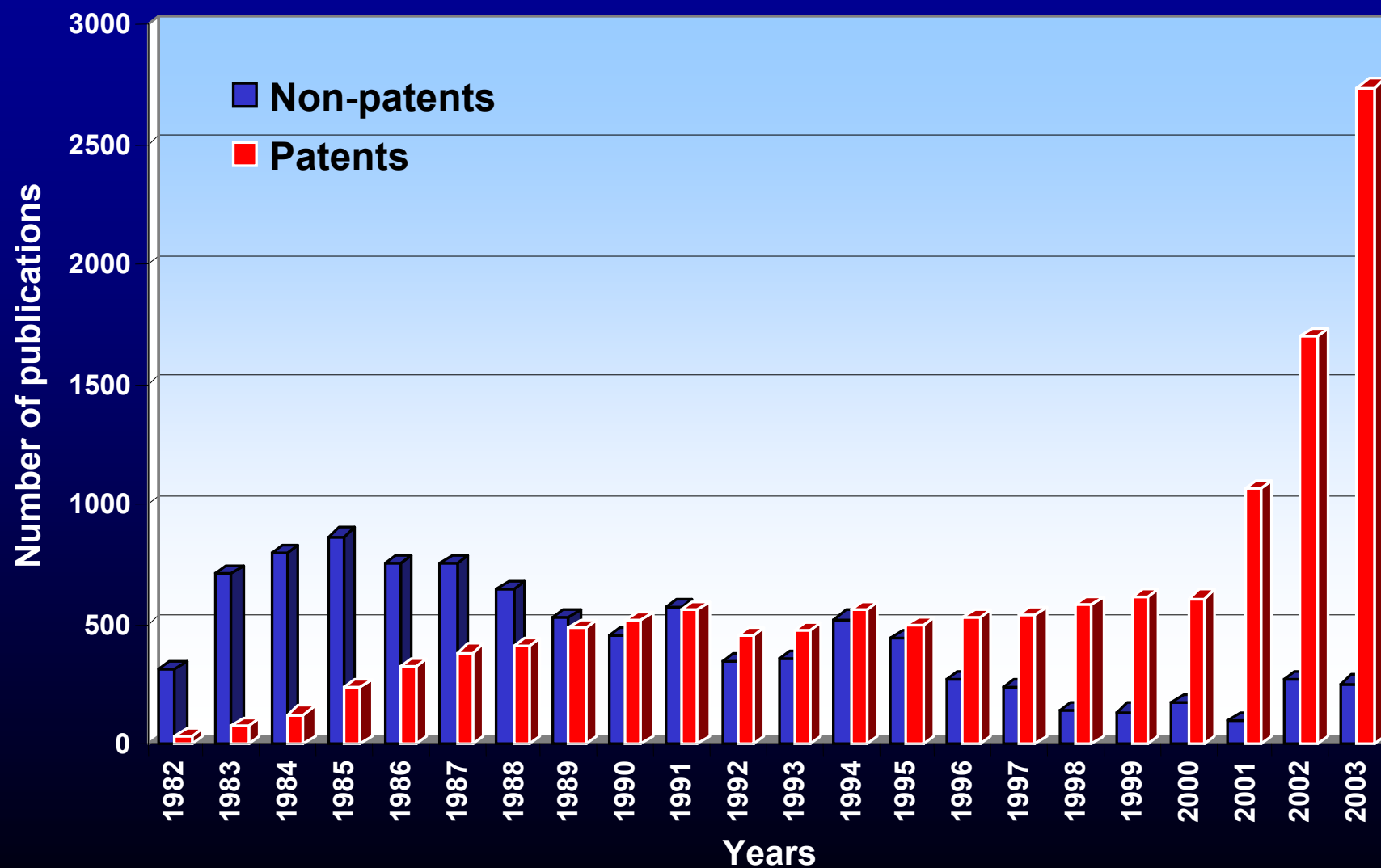
Primer 4:

Monoclonal antibodies (Biotechnology Abstracts) 1982-99

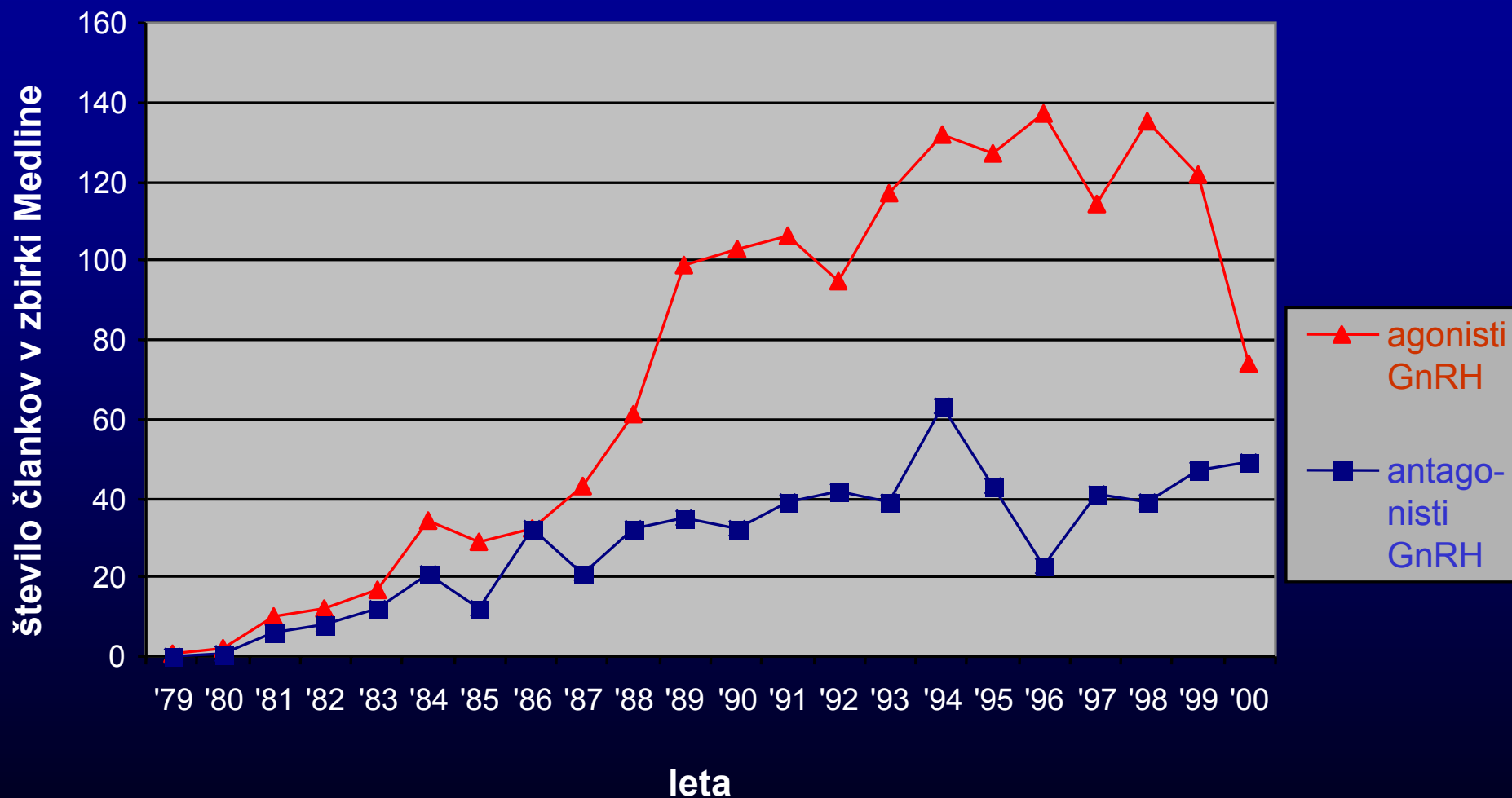


TRENDS : UPDATING 1999-2003

Monoclonal antibodies (Biotechnology Abstracts)



Primer 5: Primerjava sorodnih področij



Letno število novih člankov, ki obravnavajo dva tipa zdravil.
Poizvedba v bazi Medline 1979 – 2000

Tržne cene baz podatkov (primer STN)

<http://www.stn-international.de/service/prices/prices.html>

Povezava - cenik STN

Pricelist/Order Form - Netscape

File Edit View Go Bookmarks Tools Window Help

http://www.stn-international.de/service/prices/prices.html Search

Mail AIM Home Radio My Netscape Search Bookmarks Hosts Organizacije RAZNO SEARCH Informatika Kemija BI-GO Okolje

STN[®]

FIZ Karlsruhe Home | Terms and Conditions | Contact
Home | About us | Guided Tour | STN Easy | STN on the Web | Search Site

Prices / Order Forms

STN Price Lists	Currencies
<ul style="list-style-type: none">STN databases classicSTN on the Web <p>Please read our Terms and Conditions</p>	EURO (German) * EURO (English) British Pounds US Dollar
<ul style="list-style-type: none">STN Easy databases <p>Please read our Terms and Conditions</p>	EURO (German) * EURO (English) British Pounds US Dollar
	* Nur für deutsche Kunden: (HTML /) Begleichung der STN Rechnung über Bankeinzug
<ul style="list-style-type: none">STN Express with Discover! <p>Please read the License Agreement</p>	All currencies for Win/Mac (HTML)
<ul style="list-style-type: none">User Documentation (Database Summary Sheets Instructional Materials, etc.) <p>Please read our Terms and Conditions</p>	EURO (English) * British Pounds
FIZ AutoDoc	Formats and prices for document delivery (EURO)
Search Service	EURO (German) EURO (English) (HTML)
Order Forms	Language

Primeri bibliografskih baz v prostem dostopu na Internetu

Primeri BIBLIOGRAFSKIH baz podatkov v prostem dostopu

- COBISS <http://cobiss.izum.si/>
- DIRECTORY OF OPEN ACCESS JOURNALS
<http://www.doaj.org/>
- ESPACENET <http://ep.espacenet.com/>
- US patent and Image fulltext database
<http://patft.uspto.gov/netahtml/search-bool.html>
- PUBMED <http://www.ncbi.nlm.nih.gov/PubMed/>
- ERIC <http://www.eduref.org/Eric/>

BIBLIOGRAFSKE baze podatkov v prostem dostopu

- **Amazon** <http://www.amazon.com>
<http://www.amazon.co.uk>
- **The Internet Public Library**
<http://www.ipl.org/div/subject/browse/bus15.00.00/>
- **PADDI - Planning Architecture Design Database
Ireland** <http://www.paddi.net/>
- **SVAROG** <http://baza.svarog.org/index.php>

3. FAKTOGRAFSKE BAZE PODATKOV

Primeri plačljivih faktografskih baz podatkov

1. Katalogi in direktoriji

FACTUAL DATABASES: CATALOGUES & DIRECTORIES

online, CD-ROM



- **names**
- **formulae**
- **physical, chemical and toxicity data**
- **uses**
- **manufacturers**

text search
structure search
substructure search

FACTUAL DATABASES: CATALOGUES & DIRECTORIES



- **THE EUROPEAN BUSINESS DIRECTORY**
- 500,000 European producers: names, addresses, activities, number of employees, turnover, economic indicators

2. Nomenklaturne baze

CHEMICAL COMPOUNDS

- ChemName

ORGANISMS

- BIOSIS Register of Bacterial Nomenclature
- TRITON - Taxonomy Resource and Index to Organism Names

3. Baze kemijskih spojin

- **names, synonyms, formulae**
- **physical and chemical properties**
- **toxicity, safety**
- **pharmacological effects**
- **uses, producers**

FACTUAL DATABASES: CHEMICAL COMPOUNDS

REGISTRY (online)

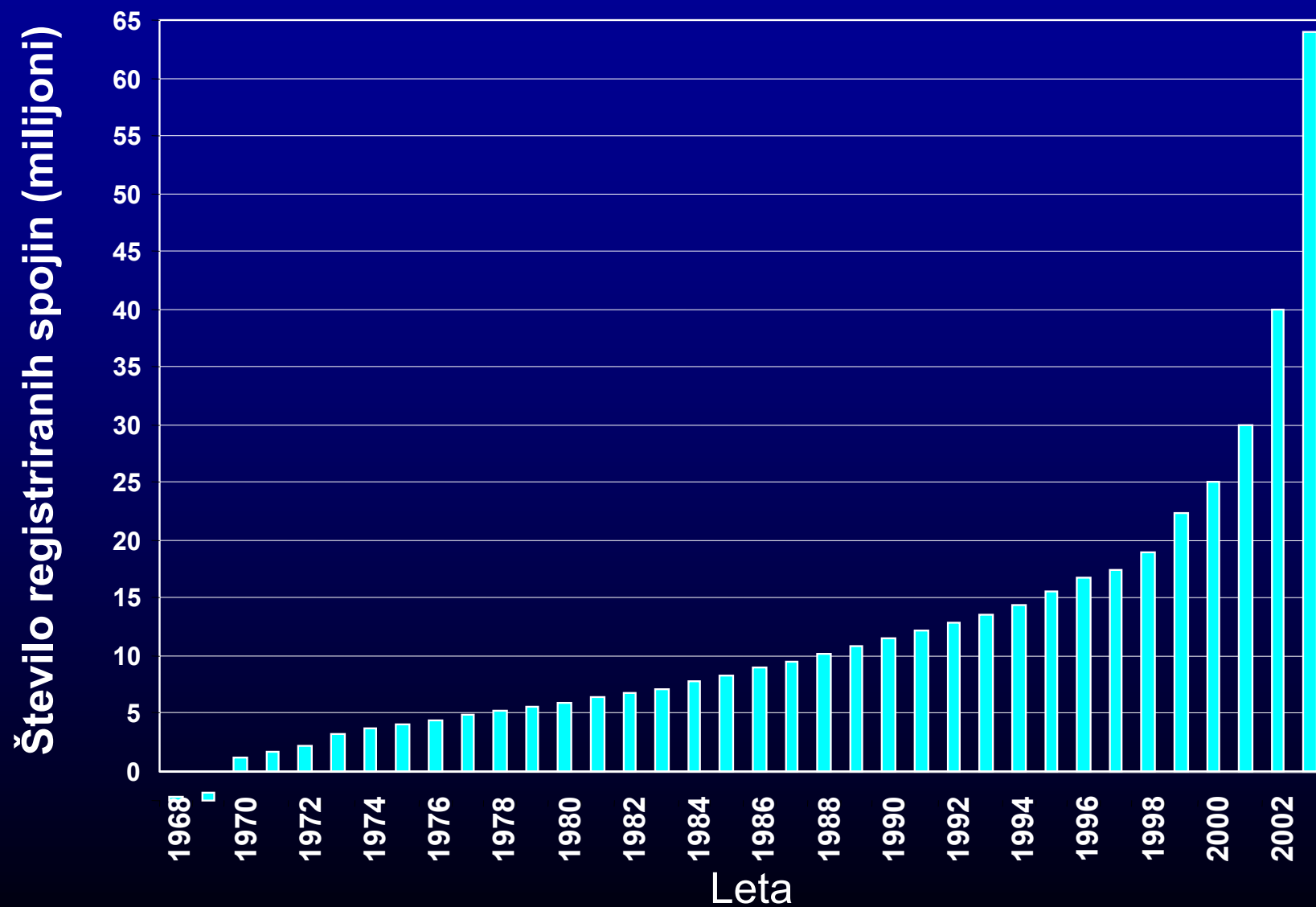
- CAS <http://www.cas.org/>
- 80 million compounds (end 2004)
- CAS registry numbers; names, synonyms; molecular formulas; structures
- protein and nucleic acid sequences
- number of references, 10 newest references

The Latest CAS Registry Number® and Substance Count

Date	Mon Dec 6 09:42:07 EST 2004
Count	24,916,500 organic and inorganic substances
	51,510,931 sequences
CAS RN	792907-43-8 is the most recent CAS Registry Number

Števec spojin:
<http://www.cas.org/cgi-bin/regreport.pl>

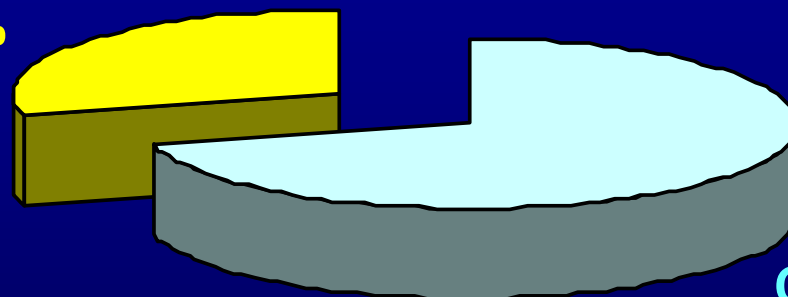
NARAŠČANJE ŠTEVILA INFORMACIJSKEGA REGISTRA



NARAŠČANJE ŠTEVILA INFORMACIJ

CA REGISTRY

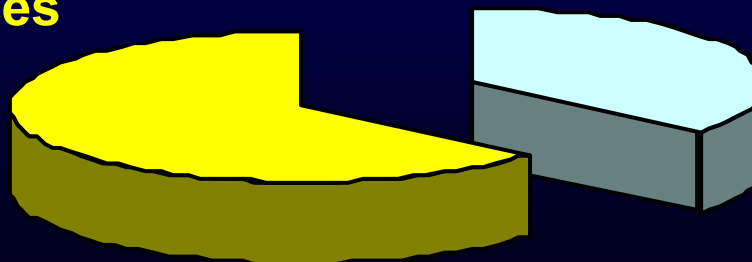
Biosequences
29%



CAS data, May 2000

**Chemical
substances**
71%

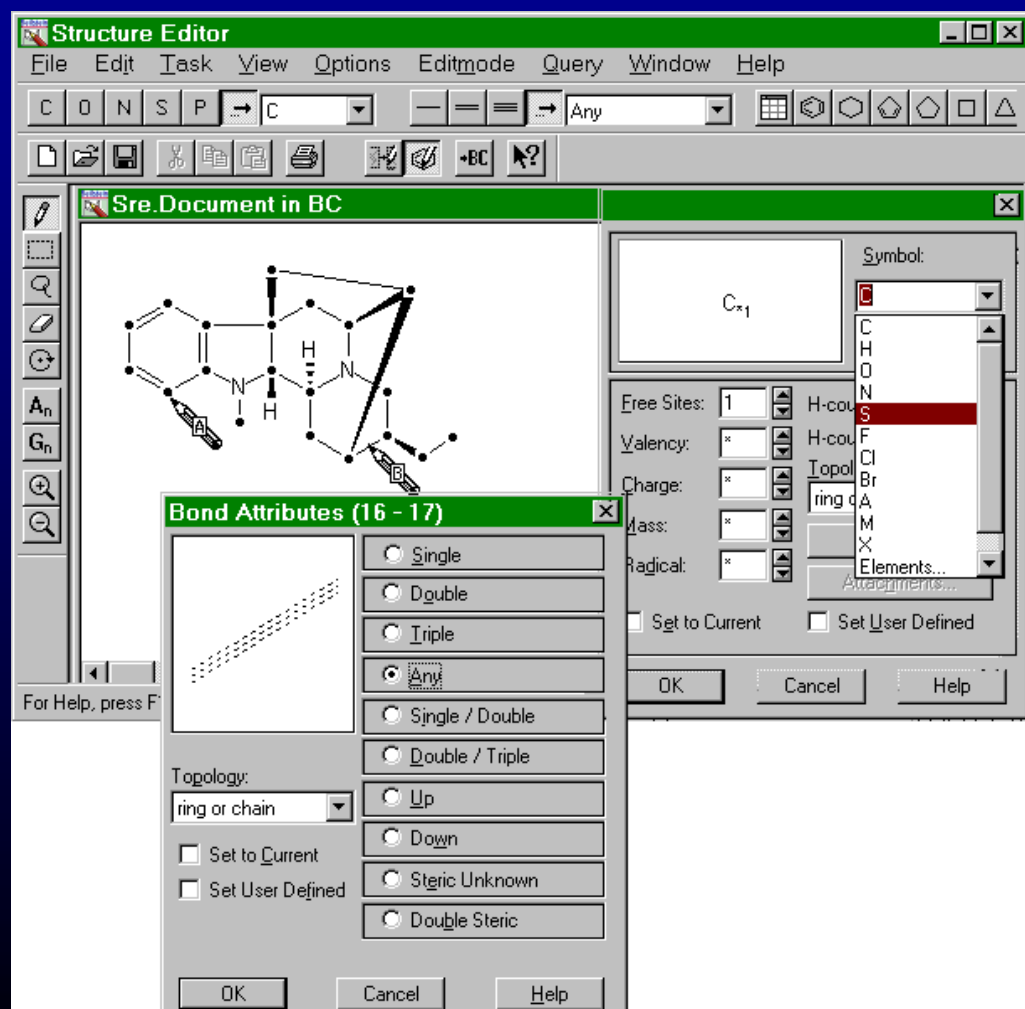
Biosequences
64%



**Chemical
substances**
36%

CAS data, April 2004

FACTUAL DATABASES: CHEMICAL COMPOUNDS



- **BEILSTEIN
(online)**

- organic chemistry
- structures
- preparation
- reactions
- physical properties

FACTUAL DATABASES: CHEMICAL COMPOUNDS

- **GMELIN FORMULA INDEX DATABASE**
online

- **inorganic,
organometallic
and physical
chemistry**
- **names,
formulas,
structures,
physical and
chemical
properties,
bibliography**

Gmelin Handbook of inorganic and organometallic Chemistry																	
1 H 2																	2 He 1
3 Li 20	4 Be 26																5 B 13
11 Na 21	12 Mg 27																6 C 14
																	7 N 4
																	8 O 3
																	9 F 5
																	10 Ne 1
																	11 Na 21
																	12 Mg 27
																	13 Al 35
																	14 Si 15
																	15 P 16
																	16 S 9
																	17 Cl 6
																	18 Ar 1
19 K 22	20 Ca 28	21 Sc 39	22 Ti 41	23 V 48	24 Cr 52	25 Mn 56	26 Fe 59	27 Co 58	28 Ni 57	29 Cu 60	30 Zn 32	31 Ga 36	32 Ge 45	33 As 17	34 Se 10	35 Br 7	36 Kr 1
37 Rb 24	38 Sr 29	39 Y 39	40 Zr 42	41 Nb 49	42 Mo 53	43 Tc 69	44 Ru 63	45 Rh 64	46 Pd 65	47 Ag 61	48 Cd 33	49 In 37	50 Sn 46	51 Sb 18	52 Te 11	53 I 8	54 Xe 1
55 Cs 25	56 Ba 30	57 La 39	72 Hf 43	73 Ta 50	74 W 54	75 Re 70	76 Os 66	77 Ir 67	78 Pt 68	79 Au 62	80 Hg 34	81 Tl 38	82 Pb 47	83 Bi 19	84 Po 12	85 At 8a	86 Rn 1
87 Fr 25a	88 Ra 31	89 Ac 40	104 71	105 71													
* NH ₄ 23																	
** Lanthanides 39		58 Ce	59 Pr	60 Nd	61 Pm	62 Sm	63 Eu	64 Gd	65 Tb	66 Dy	67 Ho	68 Er	69 Tm	70 Yb	71 Lu		
*** Actinides		90 Th 44	91 Pa 51	92 U 55	93 Np 71	94 Pu 71	95 Am 71	96 Cm 71	97 Bk 71	98 Cf 71	99 Es 71	100 Fm 71	101 Md 71	102 No 71	103 Lr 71		

FACTUAL DATABASES: CHEMICAL COMPOUNDS

- **TOMES PLUS**
(Micromedex)
Environmental
health & safety

11 Databases:

MEDITEXT,
HAZARDTEXT,
INFOTEXT,
SARATEXT, HSDB,
CHRIS,
OHM/TADS, IRIS,
RTECS, NJHSFS,
NIOSH

TOMES Plus[®] System

from Thomson MICROMEDEX

- ◆ Provides unbiased chemical information critical to productivity and efficiency
- ◆ Assists in determining the potential for human health or environmental impacts
- ◆ Includes objective references widely recognized by scientific and technical communities

FACTUAL DATABASES: CHEMICAL COMPOUNDS

- 126,000 environmentally risky substances

- **DANGEROUS GOODS**

- **Databases:** Hommel, Chemdata, Swiss Operation Files, Merck, BAG Toxic Substances Lists, SUVA, VCI



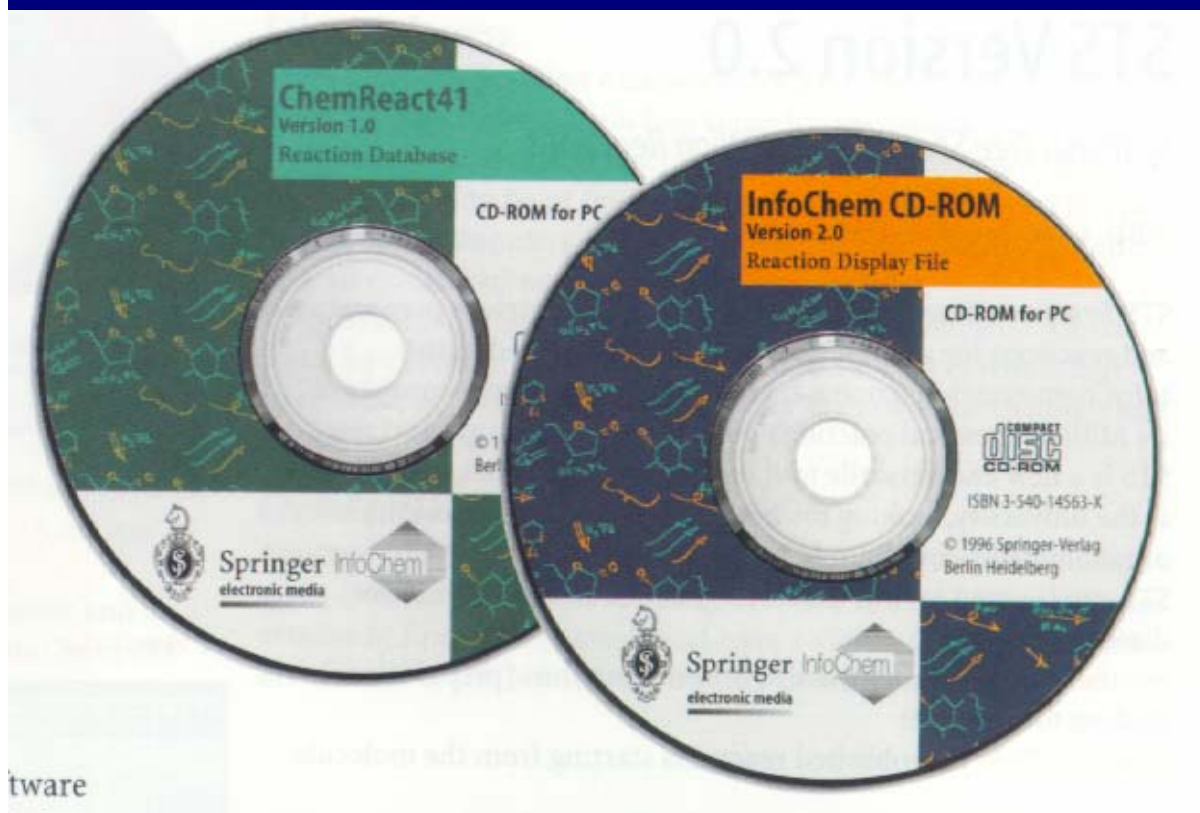
4. Baze kemijskih reakcij

- **REACTANTS, PRODUCTS**
- **REACTION MECHANISMS**

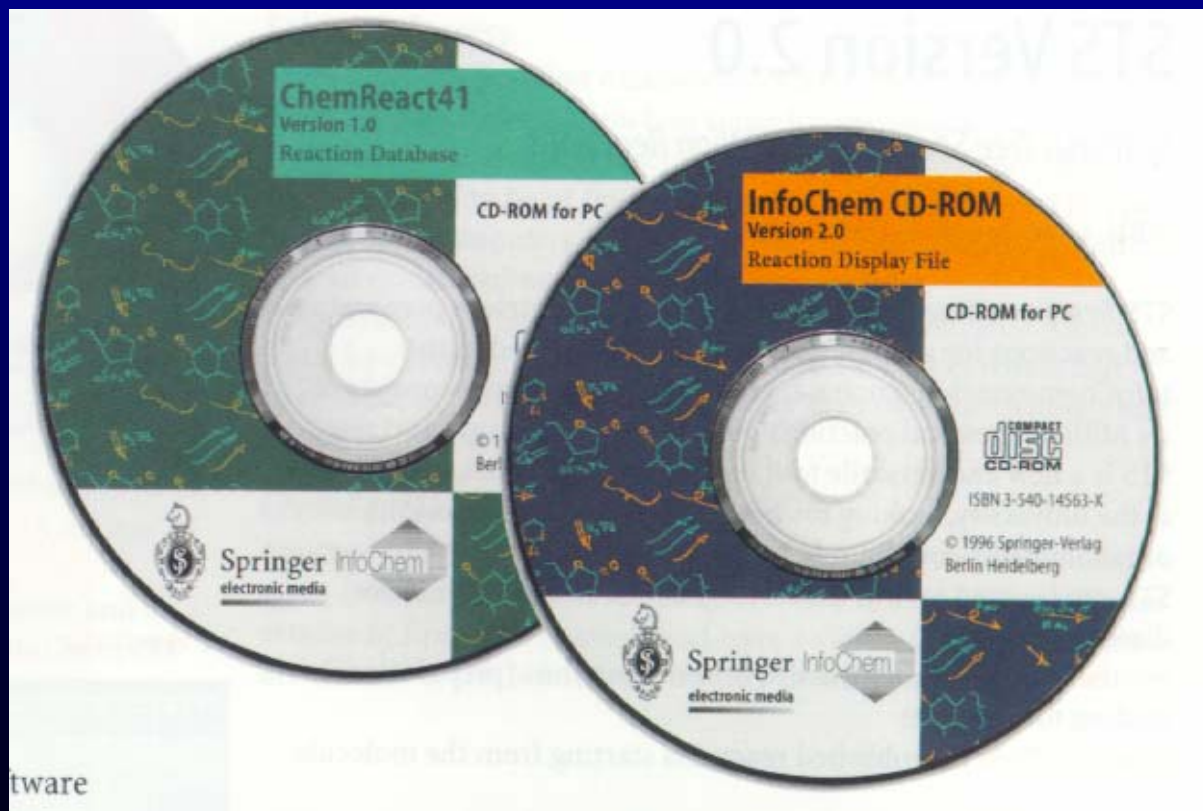
FACTUAL DATABASES: CHEMICAL REACTIONS

ChemReact Online & CD-ROM

- **ChemReact Online** (390,000 reactions)
- **ChemReact 41** (41,000 reactions)
- **ChemReact 32** (32,000 reactions)
- **ChemReact 10** (10,000 reactions)
- reaction types
- reaction graphics
- reaction summary
- bibliography



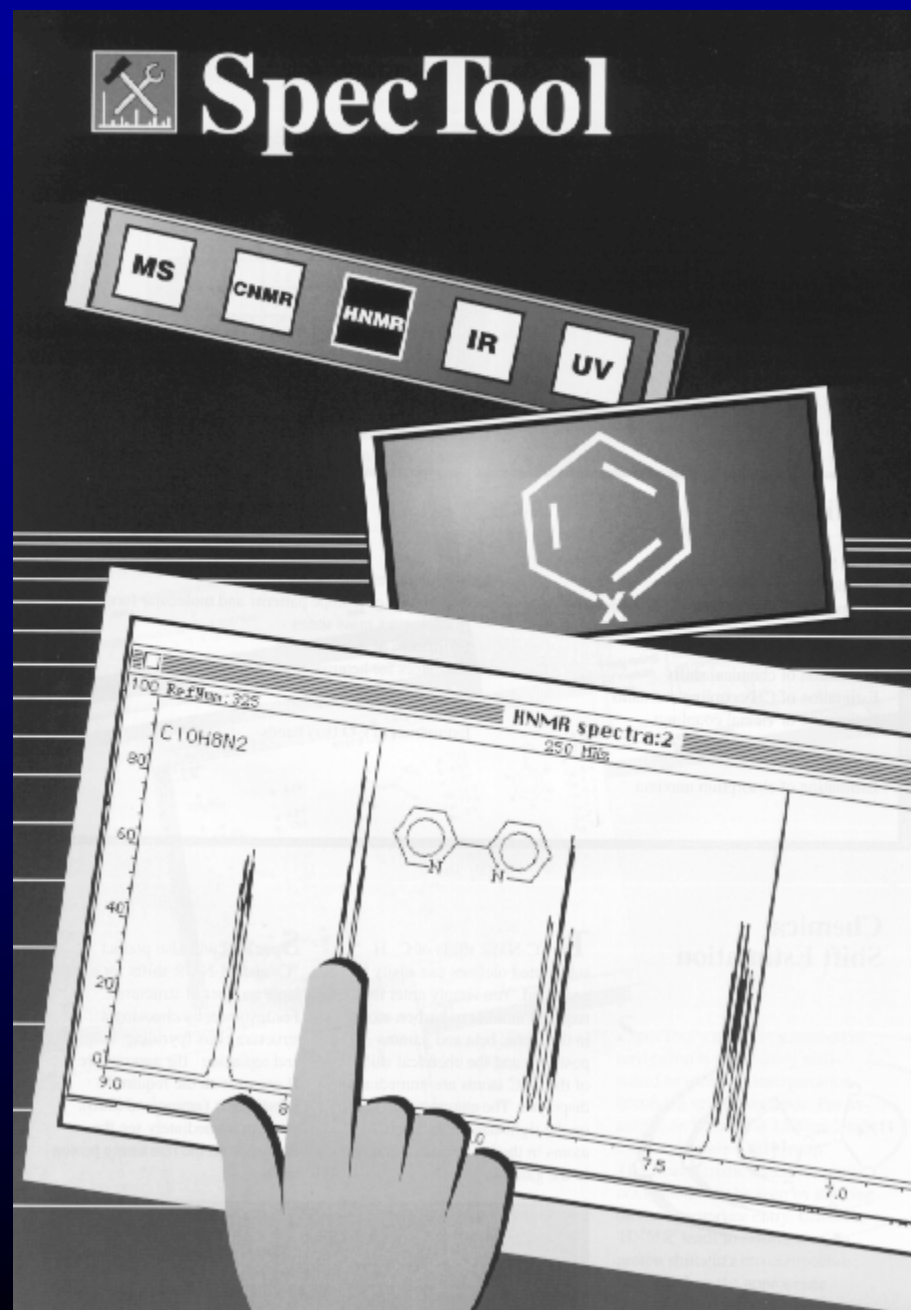
InfoChem



- in combination with ChemReact 41
- 1,5 million additional examples in 2.5 million reactions

5. Baze spektrov spojin

FACTUAL DATABASES: SPECTROSCOPY

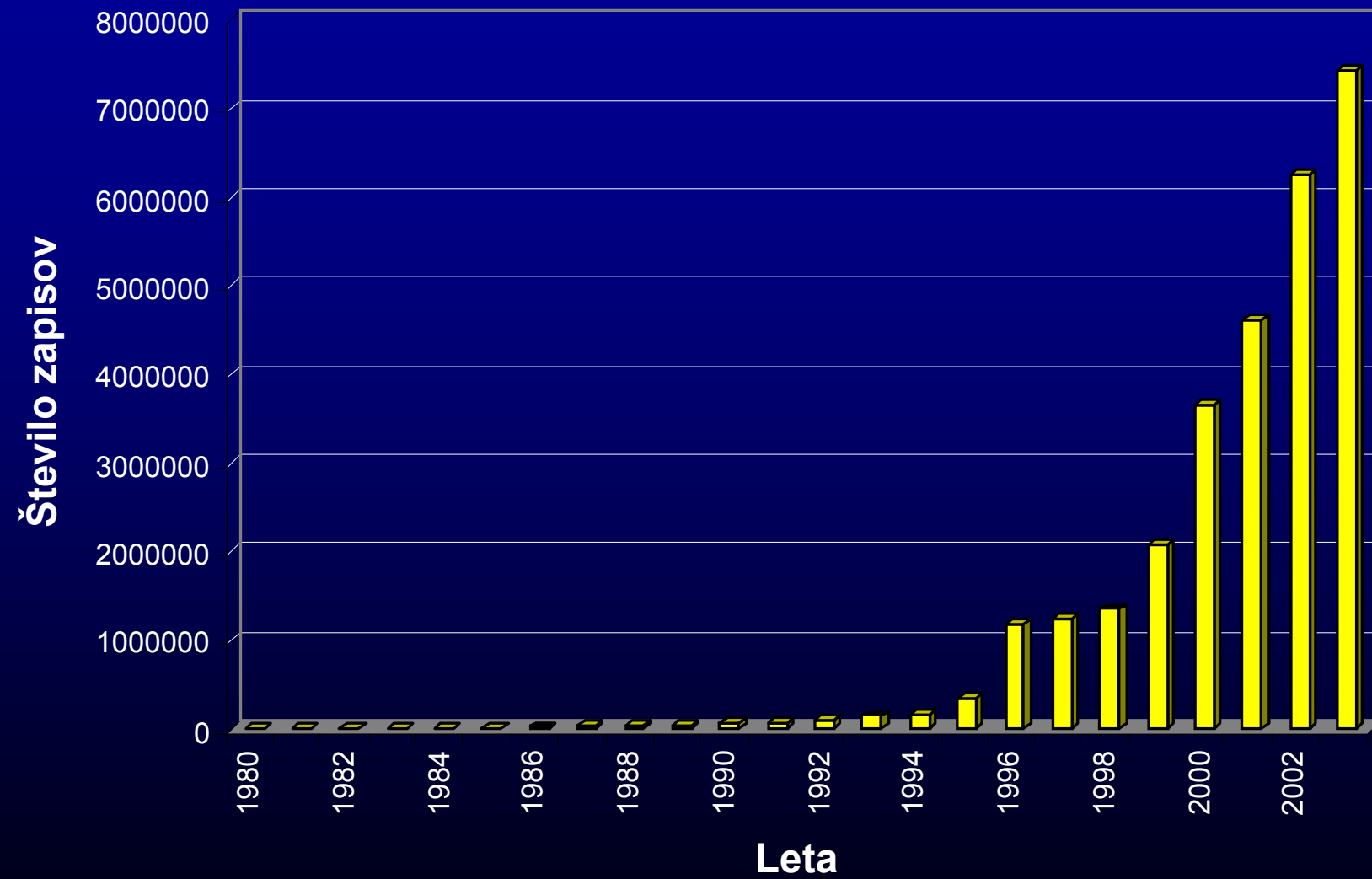


- **SPECTOOL**
- **¹³C-NMR**
- **¹H-NMR**
- **UV/vis**
- **MS**
- **IR**
- **hypertext navigation**

6. Baze struktur in sekvenc polimerov

- **sekvence nukleinskih kislin**
- **sekvence in 3D proteinov**
- **strukture ogljikovih hidratov**

GenBank

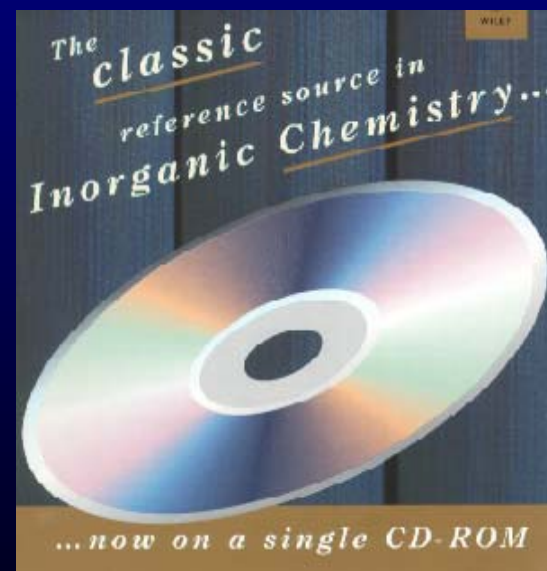


7. Tržne baze

- **new products : pharmaceuticals, biotechnology**
- **companies profiles**
- **production, consumption**
- **market trends**
- **licences, know-how**

8. Enciklopedije v polnem tekstu s hiperpovezavami (online and CD-ROM)

- Encyclopedia of Inorganic Chemistry
- Kirk-Othmer Encyclopedia
- Ullmann's Encyclopedia



9. Baze slik

- **art and design**
- **anatomy, pathology**
- **plants, animals, microorganisms**
- **molecular models**
- **maps**
- **logotypes, patented models**

<http://www.bf.uni-lj.si/ag/fito/>

Novi naslov : <http://www.fito-info.bf.uni-lj.si/>



FITO-INFO

Informacijski sistem za varstvo rastlin

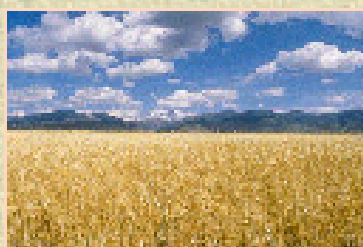


Sredstva za varstvo rastlin

Registrirana sredstva

Toksikologija FFS

Prodajalne sredstev



Sistematika

CIRSIUM - svn

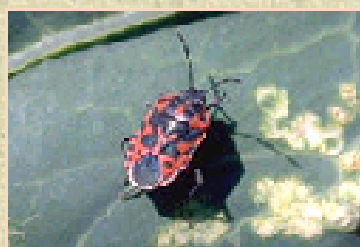
CIRSIUM - eng

Rastline

Škodljivci

Bakterije

Škodljivi organizmi po posevkih



Opisi

Bolezni

Škodljivci

Koristne živali

Obrazci

fito register, potni list



Slike

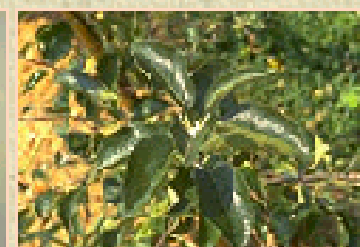
Bolezni

Škodljivci

Ostale poškodbe

Posevki

Koristne živali



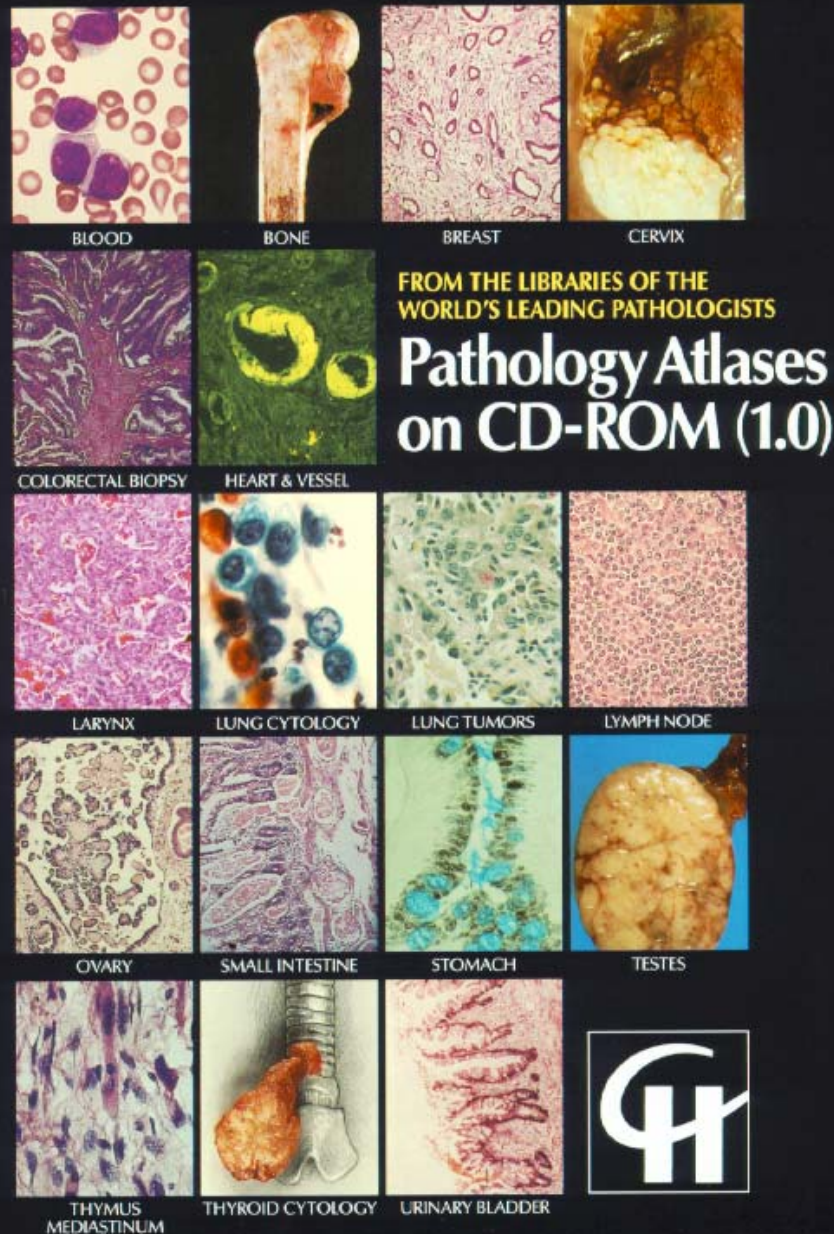
Zakonodaja

Zakonodaja s področja varstva rastlin

Povezave

Društvo za varstvo rastlin

FACTUAL DATABASES: IMAGES / PHOTOGRAPHS

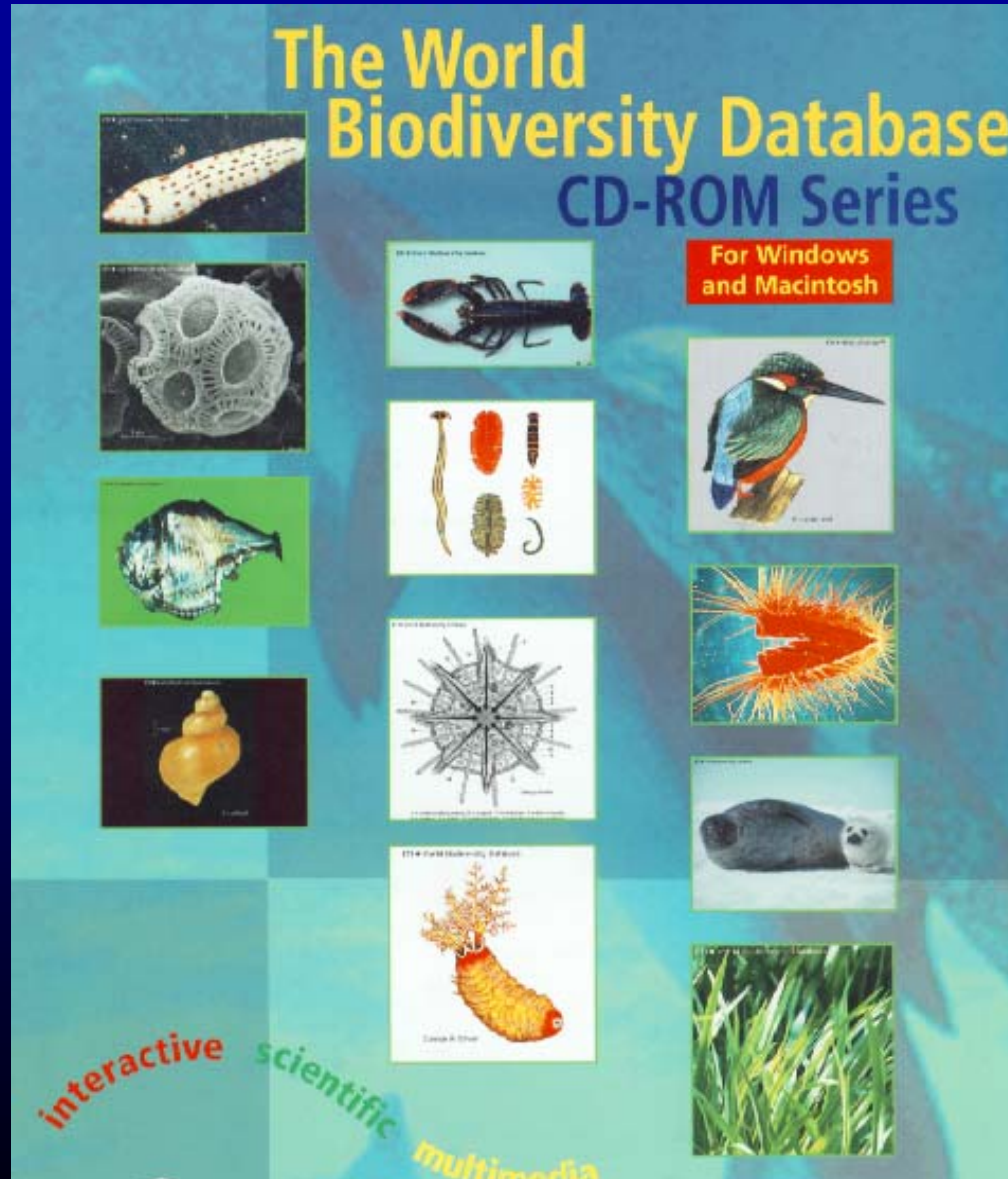


Pathology Atlases

10. Multimedia

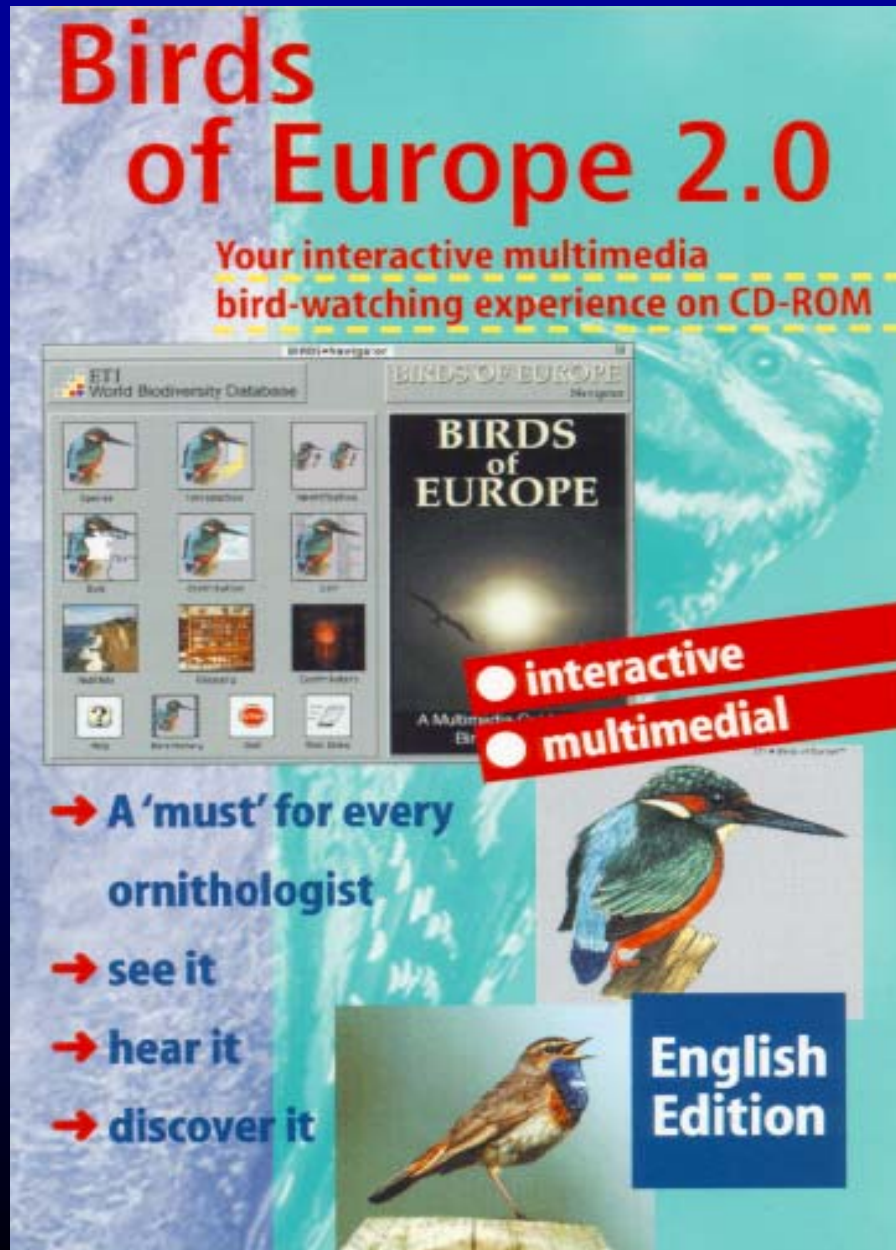
- **text, numbers**
- **graphics,
photographs**
- **sound, music**
- **simulations, video**
- **HYPertext**

FACTUAL DATABASES: MULTIMEDIA



- **The World Biodiversity Database (Unesco)**
- 22 CD-ROMs series
- taxonomic descriptions
- identification system,
- images, sound, video

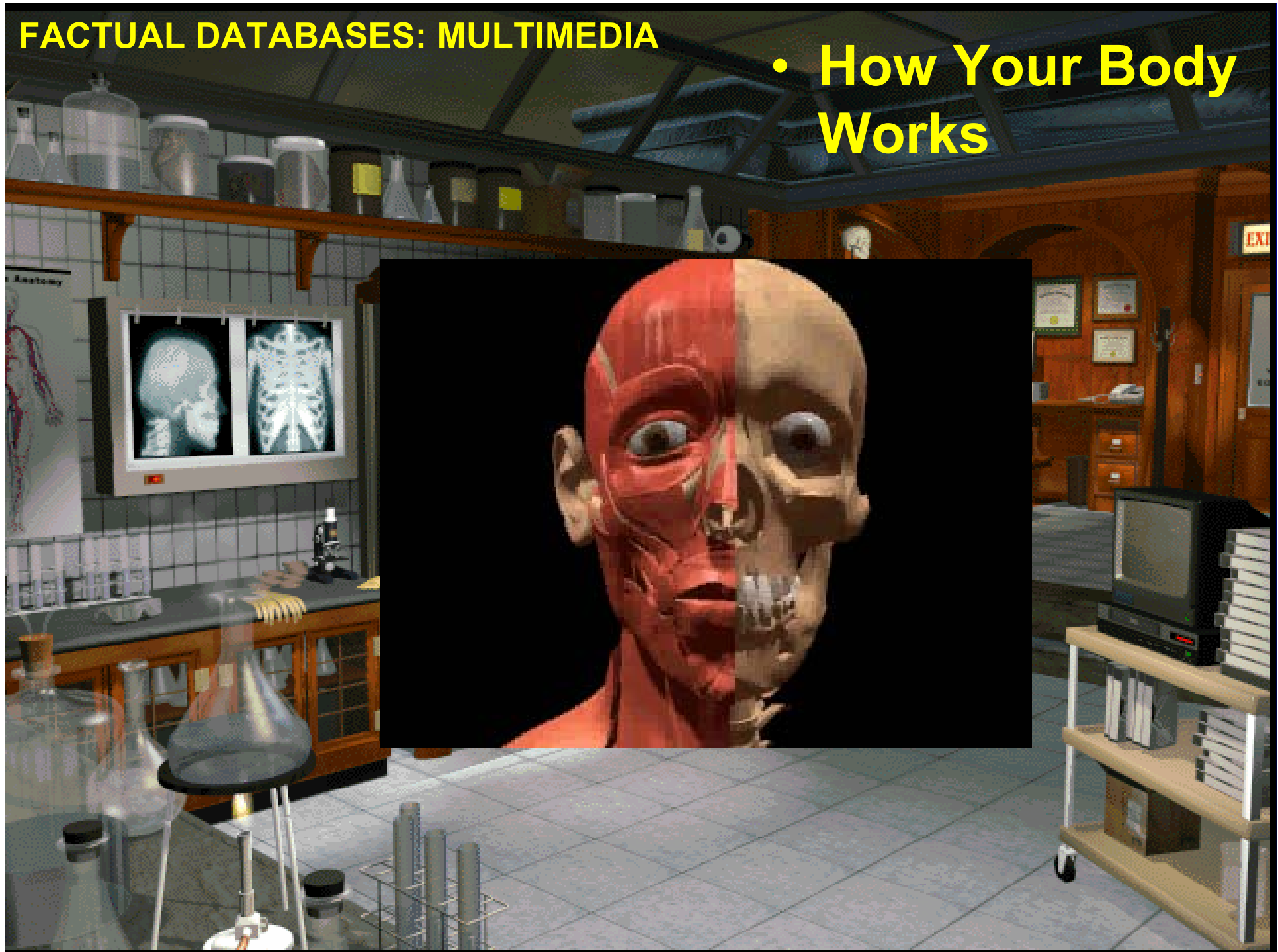
FACTUAL DATABASES: MULTIMEDIA



- **Birds of Europe**
- 447 bird species
- pictures and songs
- selected videos
- taxonomy, habitats, behaviour, reproduction...

FACTUAL DATABASES: MULTIMEDIA

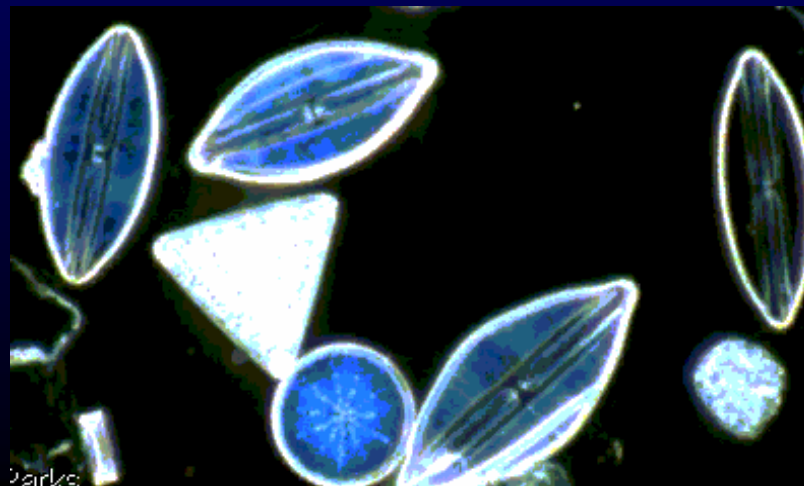
- How Your Body Works



FACTUAL DATABASES: MULTIMEDIA



Microsoft ENCARTA
contains Life sciences



Primeri faktografskih baz podatkov v prostem dostopu na Internetu

FAKTOGRAFSKE baze podatkov v prostem dostopu - KEMIJA

- **KEMINFO** <http://www.keminfo.uni-lj.si/> (spletni portal z več bazami podatkov in drugimi gradivi)
- **Chemfinder**
<http://chemfinder.cambridgesoft.com/>
- **Hazardous Chemicals Database**
<http://ull.chemistry.uakron.edu/erd/>
- **Organic Compounds Database**
<http://www.colby.edu/chemistry/cmp/cmp.html>
- **ChemExper** <http://www.chemexper.com/>

Baze za elektronsko poslovanje:

Nakup kemikalij **CHEMSTORE.COM**

<http://chemstore.cambridgesoft.com/>

The screenshot shows the ChemStore.Com website in a web browser. The browser's address bar displays the URL <http://chemstore.cambridgesoft.com/>. The website header features the ChemStore.Com logo with the tagline "Chemicals, Supplies & Software". Navigation links include ChemStore.Com, ChemACX.Com, CheMarket.Com, ABOUT, REGISTER, and CONTACT. A "CALL ME NOW" button is also present. A search bar with a "GO!" button is located below the navigation links. The main content area is divided into three columns. The left column contains links for "Browse" (Category, Product Name, Brand, Windows, Macintosh, Subscriptions, Download Software, FREE www.freechem.com), "Biologicals" (Buffers, Diagnostics, Proteins, ...), and "Chemicals" (Fine Chemicals, Reagents, Standards, ...). The middle column contains links for "Software" (Biotechnology, Chemical Analysis, Chemical Databases, Chemical Office Suites, Chemical Struct Drawing, Chemistry Education, Chromatography, Data Acquisition & Control, Downloads, Electronic Notebooks, Free, General Utilities, Graphing & Analysis, Information Management, Inventory Management, Mathematics, Macintosh, Molecular Analysis, Molecular Modeling, ...). The right column features two product listings: "ChemDraw Ultra 7.0 CD-ROM Edition by CambridgeSoft" with a list price of \$1,795.00, an "Our Price" of \$1,499.00, and a "You Save" amount of \$296.00 (16%); and "Chem3D Ultra 7.0 Download Edition by CambridgeSoft" with a list price of \$995.00, an "Our Price" of \$699.00, and a "You Save" amount of \$296.00 (30%).

Bookmarks Location: <http://chemstore.cambridgesoft.com/> What's Related

ChemStore.Com
Chemicals, Supplies & Software

ChemStore.Com ChemFinder.Com
ChemNews.Com ChemClub.Com
CambridgeSoft.Com

CALL ME NOW

ChemStore.Com ChemACX.Com CheMarket.Com ABOUT REGISTER CONTACT

[Contact ChemStore.Com](#) [Contact ChemACX.Com](#) [Contact CheMarket.Com](#)

SEARCH GO! [VIEW CART](#) [HELP](#)

Browse
[Category](#),
[Product Name](#),
[Brand](#),
[Windows](#),
[Macintosh](#),
[Subscriptions](#),
[Download Software](#),
FREE www.freechem.com

Biologicals
Buffers, Diagnostics,
Proteins, ...

Chemicals
Fine Chemicals, Reagents,
Standards, ...

Software
[Biotechnology](#),
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[Chemical Databases](#),
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[Chemical Struct Drawing](#),
[Chemistry Education](#),
[Chromatography](#),
[Data Acquisition & Control](#),
[Downloads](#),
[Electronic Notebooks](#),
[Free](#),
[General Utilities](#),
[Graphing & Analysis](#),
[Information Management](#),
[Inventory Management](#),
[Mathematics](#),
[Macintosh](#),
[Molecular Analysis](#),
[Molecular Modeling](#),

**ChemDraw Ultra 7.0
CD-ROM Edition**
by CambridgeSoft

List Price: \$1,795.00
Our Price: **\$1,499.00**
You Save: **\$296.00 (16%)**

**Chem3D Ultra 7.0
Download Edition**
by CambridgeSoft

List Price: \$995.00
Our Price: **\$699.00**
You Save: **\$296.00 (30%)**

Baze za elektronsko poslovanje: Nakup kemikalij **CHEM ACX.COM**

<http://chemacx.cambridgesoft.com/chemacx/index.asp>

The screenshot shows a web browser window with the address bar displaying <http://chemacx.cambridgesoft.com/chemacx/index.asp>. The browser's toolbar includes icons for Bookmarks, Location, and a 'What's Related' button. Below the toolbar, a row of icons represents various database categories: Hosts, Informatics, Organizacije, RAZNO, SEARCH, Fakt baze, Bibl baze, Slike, Kemija, and Biologija.

The main content area features a navigation bar with links to [CambridgeSoft](#), [ChemFinder.Com](#), [Chem Store.Com](#), [ChemNews.Com](#), [ChemClub.Com](#), [ChemQuote.Com](#), [ChemACX.Com](#), [SciStore.Com](#), [LabEqwip.Com](#), and [ChemSell.Com](#). Below this is a large red banner for **ChemACX.Com** with the tagline 'Chemical Searching and Buying'. To the right of the banner are links for 'SHOPPING CART', 'LOGIN', 'YOUR ACCOUNT', and 'HELP'.

On the left side, there is a 'CALL ME NOW' button and a 'FREE!' banner. Below these are links for 'ChemACX.Com', 'About', 'Instructions', 'Register', 'Corporate ACX', 'Suppliers', 'Join ACX', and 'Vendor Login'.

The central search area has a text input field with 'methanol' entered and a 'Search' button. Below the input field, it says 'Or choose: [Advanced Query with Plugin](#) or [download the free plugin](#)'. Further down, a paragraph states: 'Individual access to ChemACX.Com is provided as a free of charge service to the scientific community. Access from corporations, academic institutions and government organizations is charged on an annual enterprise subscription basis.' At the bottom, it says 'To report technical problems using this site [Click here](#)'.

Baze za elektronsko poslovanje: Nakup kemikalij **CHEM ACX.COM**

<http://chemacx.cambridgesoft.com/chemacx/index.asp>

Bookmarks Location: What's Related

Hosts Informatics Organizacije RAZNO SEARCH Fakt baze Bibl baze Slike Kemija Biologija

ChemACX.Com [SHOPPING CART](#) [LOGIN](#)
[YOUR ACCOUNT](#) [HELP](#)

[NEW QUERY](#) [LOG OFF](#)

Total Hits: 28

Record 1-9 of 28 hits [GO TO RECORD](#)

NAMES ▾ DETAILS MARK <input type="checkbox"/>	NAMES ▾ DETAILS MARK <input type="checkbox"/>	NAMES ▾ DETAILS MARK <input type="checkbox"/>
<p>Record #1</p> <p>CAS#: 67-56-1</p>	<p>Record #2</p> <p>CAS#: 124-41-4</p>	<p>Record #3</p> <p>CAS#: 811-98-3</p>
NAMES ▾ DETAILS MARK <input type="checkbox"/>	NAMES ▾ DETAILS MARK <input type="checkbox"/>	NAMES ▾ DETAILS MARK <input type="checkbox"/>
Record #4	Record #5	Record #6

FAKTOGRAFSKE baze podatkov v prostem dostopu - POSLOVNI DIREKTORIJI

- **The European Business Directory - Europages**
<http://www.europages.net/>
- **Central and Eastern European Business Directory** <http://www.ceebsd.co.uk/ceebsd/>
- **Eurobusiness** <http://eurombusiness.net/>

FAKTOGRAFSKE baze podatkov v prostem dostopu - UMETNOST

- The Internet Art Database <http://dart.fineart.com/default.asp>
- Fine-Art <http://www.fine-art.com/>
- RBArtsDatabase <http://www.artarchiv.net/>
- Fine Art Database <http://www.fineart-datenbank.de/>

FAKTOGRAFSKE baze podatkov v prostem dostopu - OBLIKOVANJE

- TRIBU DESIGN <http://www.tribu-design.com/en/>
- GraphicDesignGate <http://www.graphicdesigngate.com/>
- Photo and Graphic Art Resources <http://www.carlvolk.com/links.asp>
- All Posters <http://www.allposters.com/>

Uporabni spletni naslovi za grafično oblikovanje

- **Graphic Design (Yahoo)**
[http://dir.yahoo.com/Arts/Design Arts/Graphic Design/Graphic Designers/](http://dir.yahoo.com/Arts/Design_Arts/Graphic_Design/Graphic_Designers/)
- **Grafika (Najdi.si)**
<http://www.najdi.si/nk/gettopic.jsp?topic=4cb%2F4cc%2F000%2F23d%2F28b>

Uporabni spletni naslovi za grafično oblikovanje

- **All Graphic Design Resources**
<http://www.allgraphicdesign.com/>
- **Design and Publishing** <http://www.graphic-design.com/>
- **Graphic Brain (search engine)** <http://www.graphicbrain.com/>
- **Web Page Design** <http://www.wpdfd.com/>
- **Graphics and Graphic Art**
http://www.zeroland.co.nz/graphic_art.html#des

Uporabni spletni naslovi za oblikovanje tekstilij in oblačil

- **FASHION DESIGN (Yahoo)**
[http://dir.yahoo.com/Arts/Design Arts/Fashion and Beauty/Designers/](http://dir.yahoo.com/Arts/Design_Arts/Fashion_and_Beauty/Designers/)
- **TEXTILES DESIGN (Yahoo)**
[http://dir.yahoo.com/Arts/Design Arts/Textiles/Artists/](http://dir.yahoo.com/Arts/Design_Arts/Textiles/Artists/)

Spletni naslovi - organizacije

- UNESCO <http://portal.unesco.org/en/>
- The World Bank <http://www.worldbank.org/>
- MŠZŠ <http://www.mszs.si/slo/>
- MG <http://www.mg-rs.si/>
- MKGP <http://www.gov.si/mkgp/slo/index.php>
- MK <http://www.gov.si/mk/>
- European Patent Office <http://www.european-patent-office.org/index.en.php>
- SIPO <http://www.uil-sipo.si/>
- FDA <http://www.fda.gov/default.htm>

Zaključek: Možnosti iskanja znanstvenih in strokovnih informacij

