走在科研的最前端

SciFinder Scholar：全面（Comprehensive）...
权威（Authoritative）... 可靠（Reliable）

周宇航

iGroup集团CAS产品总监

CAS美国化学文摘社

- CAS (Chemical Abstracts Service) 是美国化学学会的一个分支机构
  - 1907年成立
  - 总部在美国的哥伦比亚俄亥俄州

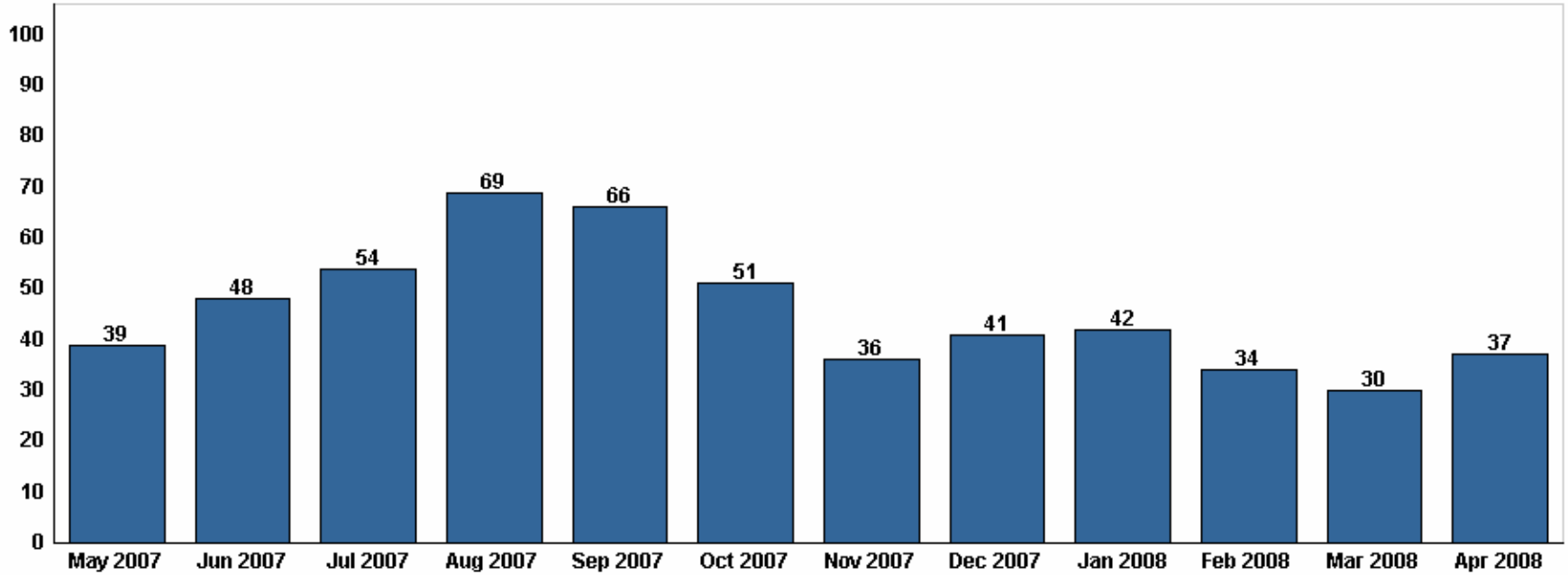
员工

- 哥伦比亚的员工
  - 以下是1200多名员工，包括八百名科学家和IT专业人士

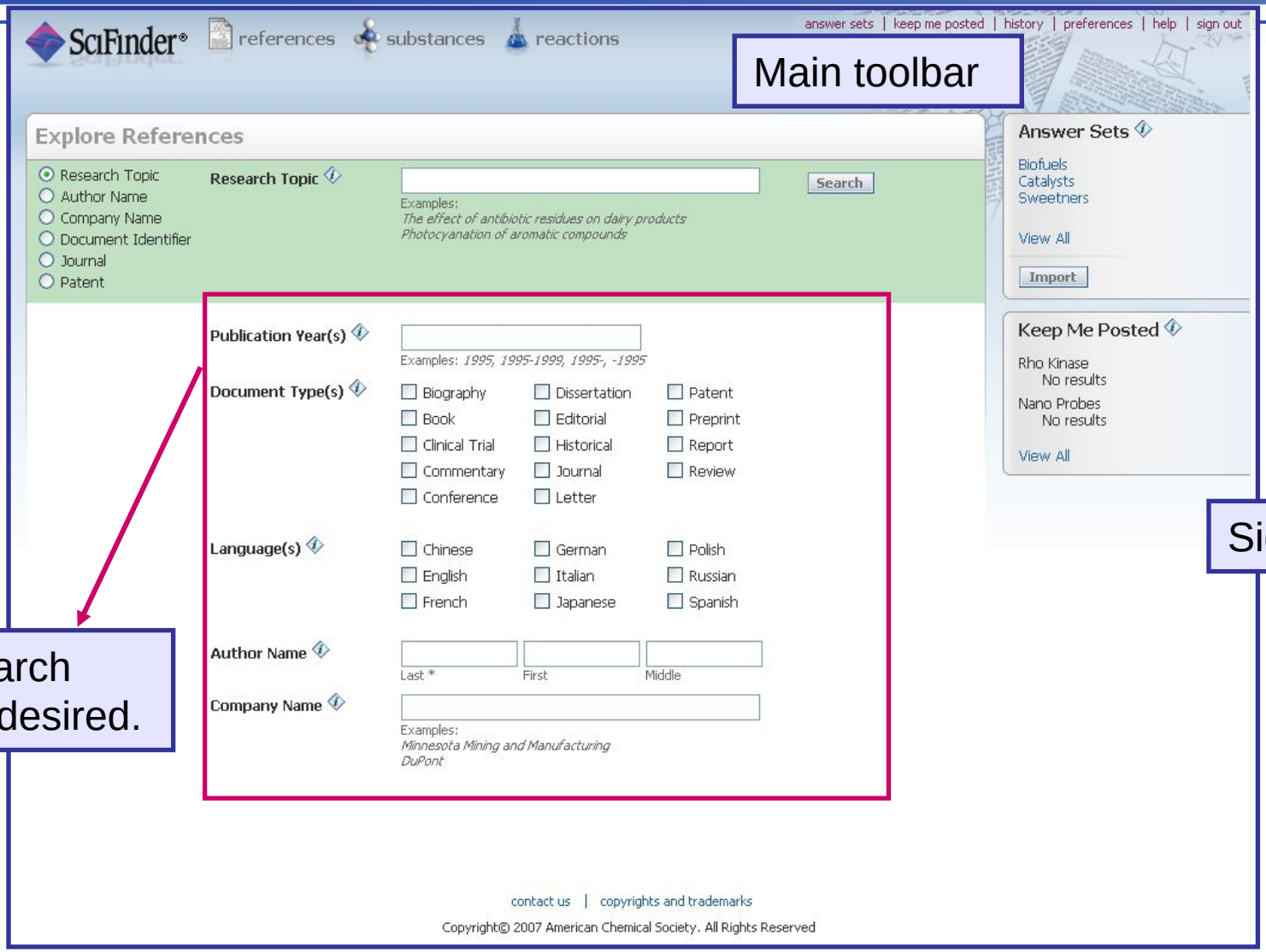
美国化学文摘 (CA)

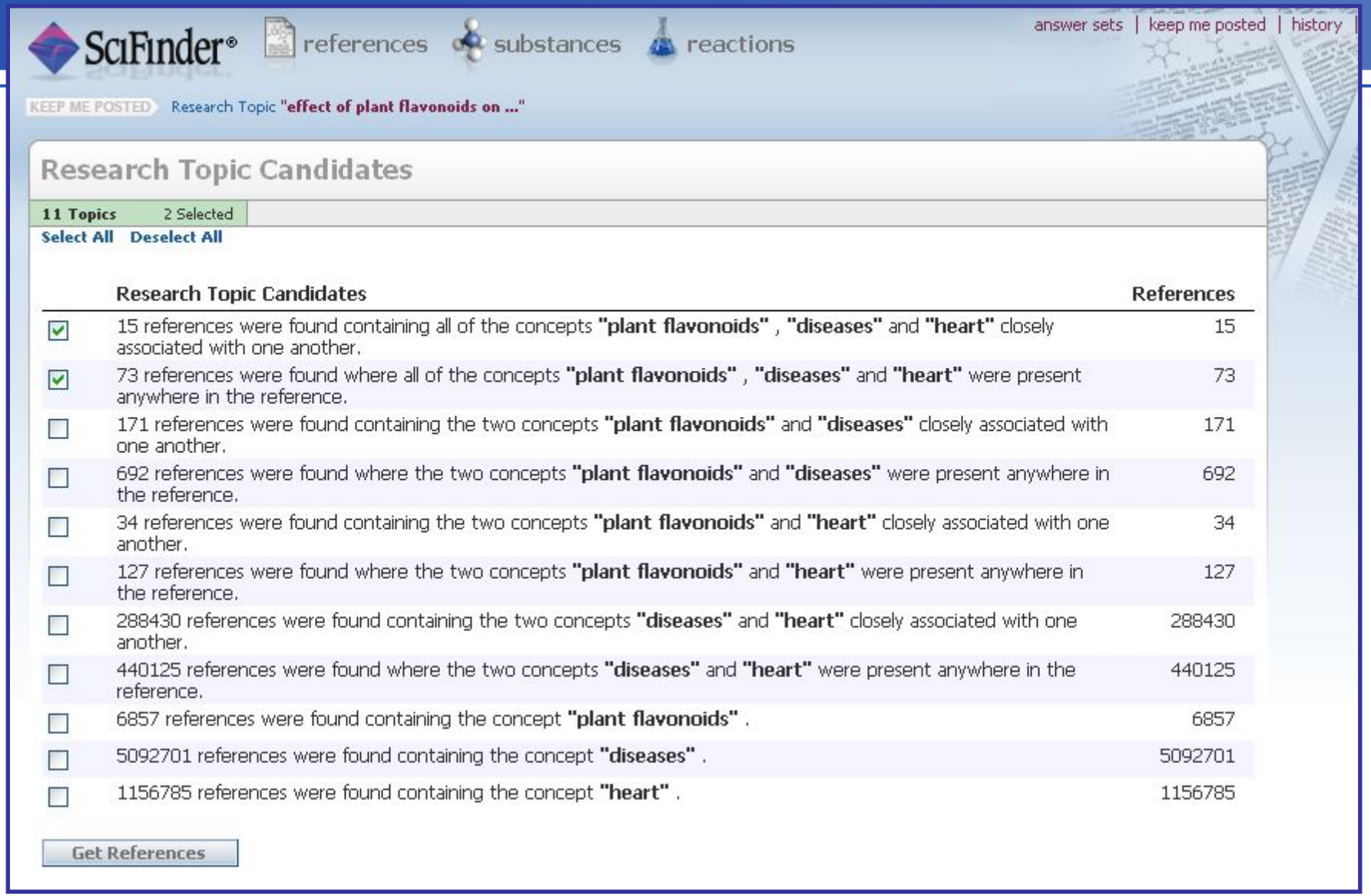
CALIS

- 從2004年起建立,我们有12个大学会员使用SCIFINDER SCHOLAR
- 在2008年,我们增加到 48个大学会员.
- 每个月试图访问超过250,000次
- 使用率每一個月不斷的增加



Scifinder Web




SciFinder®
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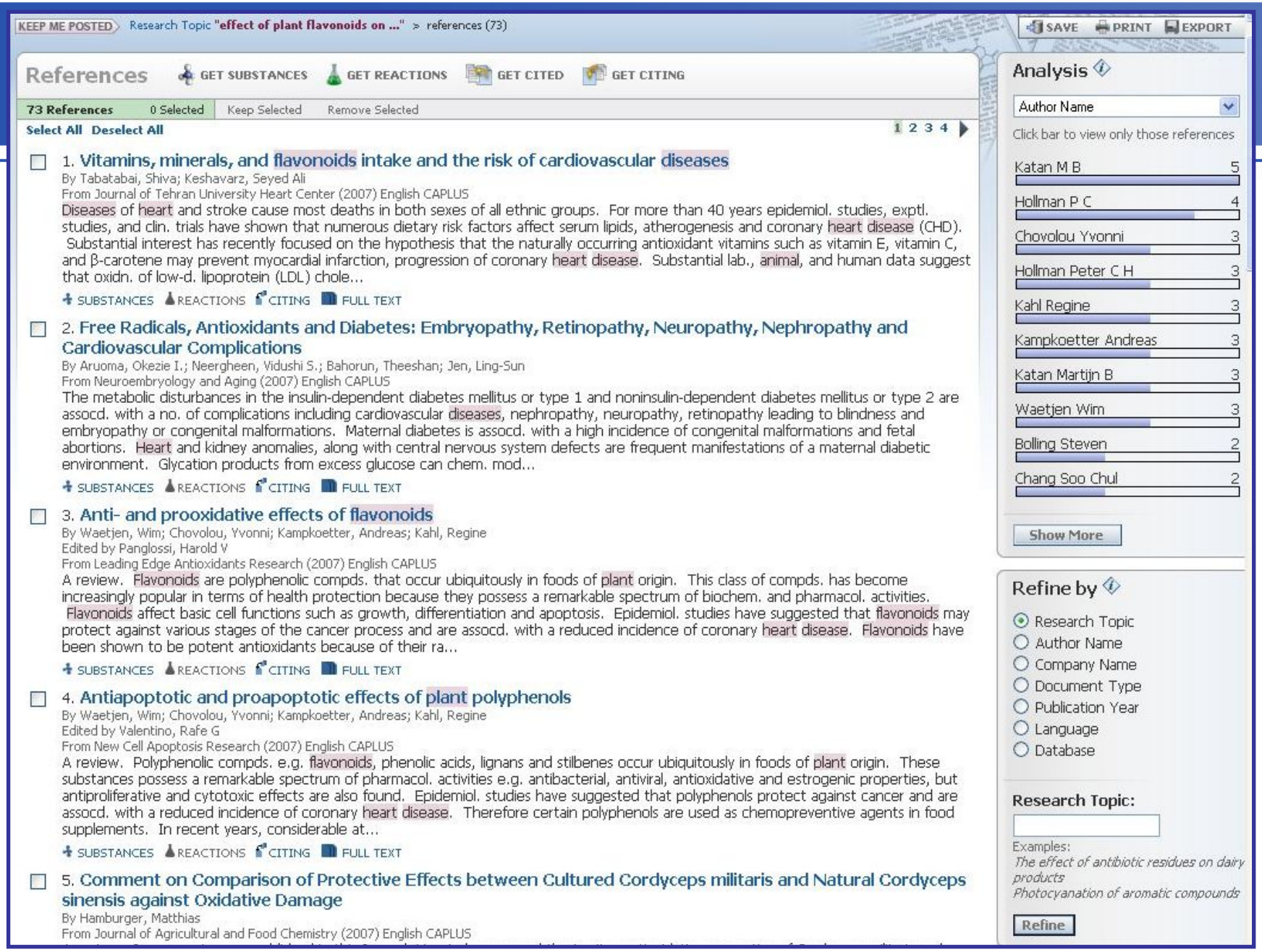
substances
reactions
answer sets | keep me posted | history
KEEP ME POSTED
Research Topic "effect of plant flavonoids on ..."
Research Topic Candidates
11 Topics
2 Selected
Select All
Deselect All
Research Topic Candidates
References
15 references were found containing all of the concepts "plant flavonoids" , "diseases" and "heart" closely associated with one another. 15
73 references were found where all of the concepts "plant flavonoids" , "diseases" and "heart" were present anywhere in the reference. 73
171 references were found containing the two concepts "plant flavonoids" and "diseases" closely associated with one another. 171
692 references were found where the two concepts "plant flavonoids" and "diseases" were present anywhere in the reference. 692
34 references were found containing the two concepts "plant flavonoids" and "heart" closely associated with one another. 34
127 references were found where the two concepts "plant flavonoids" and "heart" were present anywhere in the reference. 127
288430 references were found containing the two concepts "diseases" and "heart" closely associated with one another. 288430
440125 references were found where the two concepts "diseases" and "heart" were present anywhere in the reference. 440125
6857 references were found containing the concept "plant flavonoids" . 6857
5092701 references were found containing the concept "diseases" . 5092701
1156785 references were found containing the concept "heart" . 1156785
Get References


KEEP ME POSTED
Research Topic "effect of plant flavonoids on ..." > references (73)
SAVE
PRINT
EXPORT
References
GET SUBSTANCES
GET REACTIONS
GET CITED
GET CITING
73 References
0 Selected
Keep Selected
Remove Selected
Select All
Deselect All
1 2 3 4
1. Vitamins, minerals, and flavonoids intake and the risk of cardiovascular diseases
By Tabatabai, Shiva; Keshavarz, Seyed Ali
From Journal of Tehran University Heart Center (2007) English CAPLUS
Diseases of heart and stroke cause most deaths in both sexes of all ethnic groups. For more than 40 years epidemiol. studies, exptl. studies, and clin. trials have shown that numerous dietary risk factors affect serum lipids, atherogenesis and coronary heart disease (CHD). Substantial interest has recently focused on the hypothesis that the naturally occurring antioxidant vitamins such as vitamin E, vitamin C, and β-carotene may prevent myocardial infarction, progression of coronary heart disease. Substantial lab., animal, and human data suggest that oxidn. of low-d. lipoprotein (LDL) chole...
SUBSTANCES
REACTIONS
CITING
FULL TEXT
2. Free Radicals, Antioxidants and Diabetes: Embryopathy, Retinopathy, Neuropathy, Nephropathy and Cardiovascular Complications
By Aruoma, Okezie I.; Neergheen, Vidushi S.; Bahorun, Theeshan; Jen, Ling-Sun
From Neuroembryology and Aging (2007) English CAPLUS
The metabolic disturbances in the insulin-dependent diabetes mellitus or type 1 and noninsulin-dependent diabetes mellitus or type 2 are assocd. with a no. of complications including cardiovascular diseases, nephropathy, neuropathy, retinopathy leading to blindness and embryopathy or congenital malformations. Maternal diabetes is assocd. with a high incidence of congenital malformations and fetal abortions. Heart and kidney anomalies, along with central nervous system defects are frequent manifestations of a maternal diabetic environment. Glycation products from excess glucose can chem. mod...
SUBSTANCES
REACTIONS
CITING
FULL TEXT
3. Anti- and prooxidative effects of flavonoids
By Waetjen, Wim; Chovolou, Yvonni; Kampkoetter, Andreas; Kahl, Regine
Edited by Panglossi, Harold V
From Leading Edge Antioxidants Research (2007) English CAPLUS
A review. Flavonoids are polyphenolic compds. that occur ubiquitously in foods of plant origin. This class of compds. has become increasingly popular in terms of health protection because they possess a remarkable spectrum of biochem. and pharmacol. activities. Flavonoids affect basic cell functions such as growth, differentiation and apoptosis. Epidemiol. studies have suggested that flavonoids may protect against various stages of the cancer process and are assocd. with a reduced incidence of coronary heart disease. Flavonoids have been shown to be potent antioxidants because of their ra...
SUBSTANCES
REACTIONS
CITING
FULL TEXT
4. Antiapoptotic and proapoptotic effects of plant polyphenols
By Waetjen, Wim; Chovolou, Yvonni; Kampkoetter, Andreas; Kahl, Regine
Edited by Valentino, Rafe G
From New Cell Apoptosis Research (2007) English CAPLUS
A review. Polyphenolic compds. e.g. flavonoids, phenolic acids, lignans and stilbenes occur ubiquitously in foods of plant origin. These substances possess a remarkable spectrum of pharmacol. activities e.g. antibacterial, antiviral, antioxidative and estrogenic properties, but antiproliferative and cytotoxic effects are also found. Epidemiol. studies have suggested that polyphenols protect against cancer and are assocd. with a reduced incidence of coronary heart disease. Therefore certain polyphenols are used as chemopreventive agents in food supplements. In recent years, considerable at...
SUBSTANCES
REACTIONS
CITING
FULL TEXT
5. Comment on Comparison of Protective Effects between Cultured Cordyceps militaris and Natural Cordyceps sinensis against Oxidative Damage
By Hamburger, Matthias
From Journal of Agricultural and Food Chemistry (2007) English CAPLUS
Analysis
Author Name
Click bar to view only those references
Katan M B 5
Hollman P C 4
Chovolou Yvonni 3
Hollman Peter C H 3
Kahl Regine 3
Kampkoetter Andreas 3
Katan Martijn B 3
Waetjen Wim 3
Bolling Steven 2
Chang Soo Chul 2
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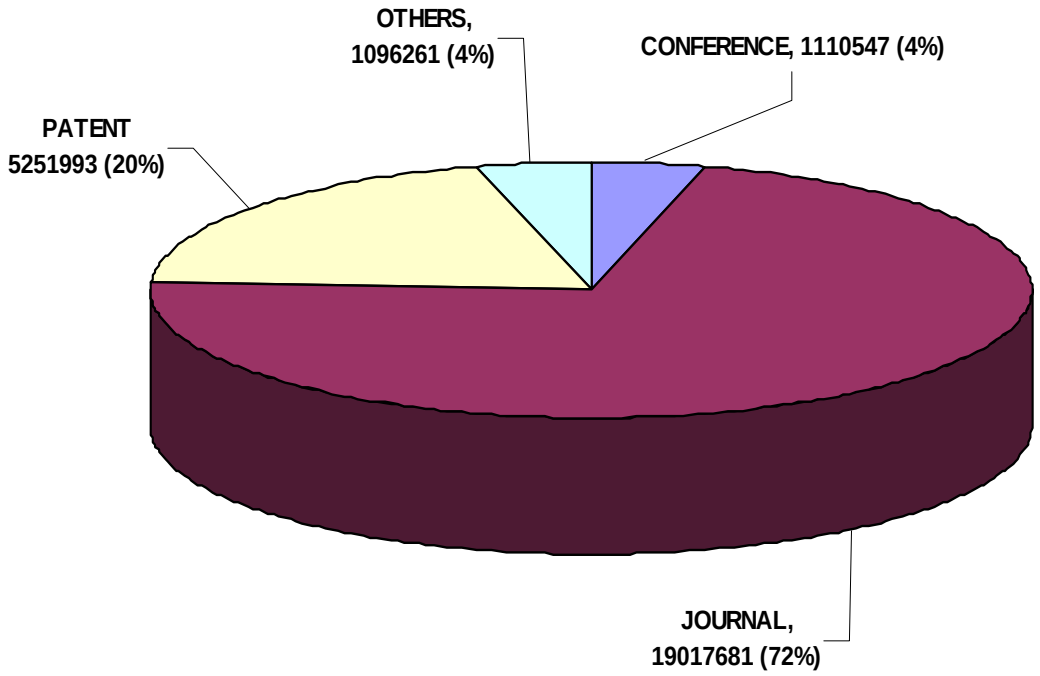
Research Topic:
Examples:
The effect of antibiotic residues on dairy products
Photocyanation of aromatic compounds
Refine

Scifinder Scholar

- 提供世界上最全面的文摘和索引数据库
- CAS的科学家以专业的知识编辑、整理和分析文献,将文献内容增值
- 开发SciFinder 和 SciFinder Scholar 桌面研究工具
- 包含六个数据库
  - CAplus (= CA)
  - CAS registry (注册号)
    世界上最全面的物质，序列以及化学反应数据库
  - CASEACT
  - Medline
  - CHEMCAST(商业化学品记录)
  - CHEMLIST (化学品监管数据库)

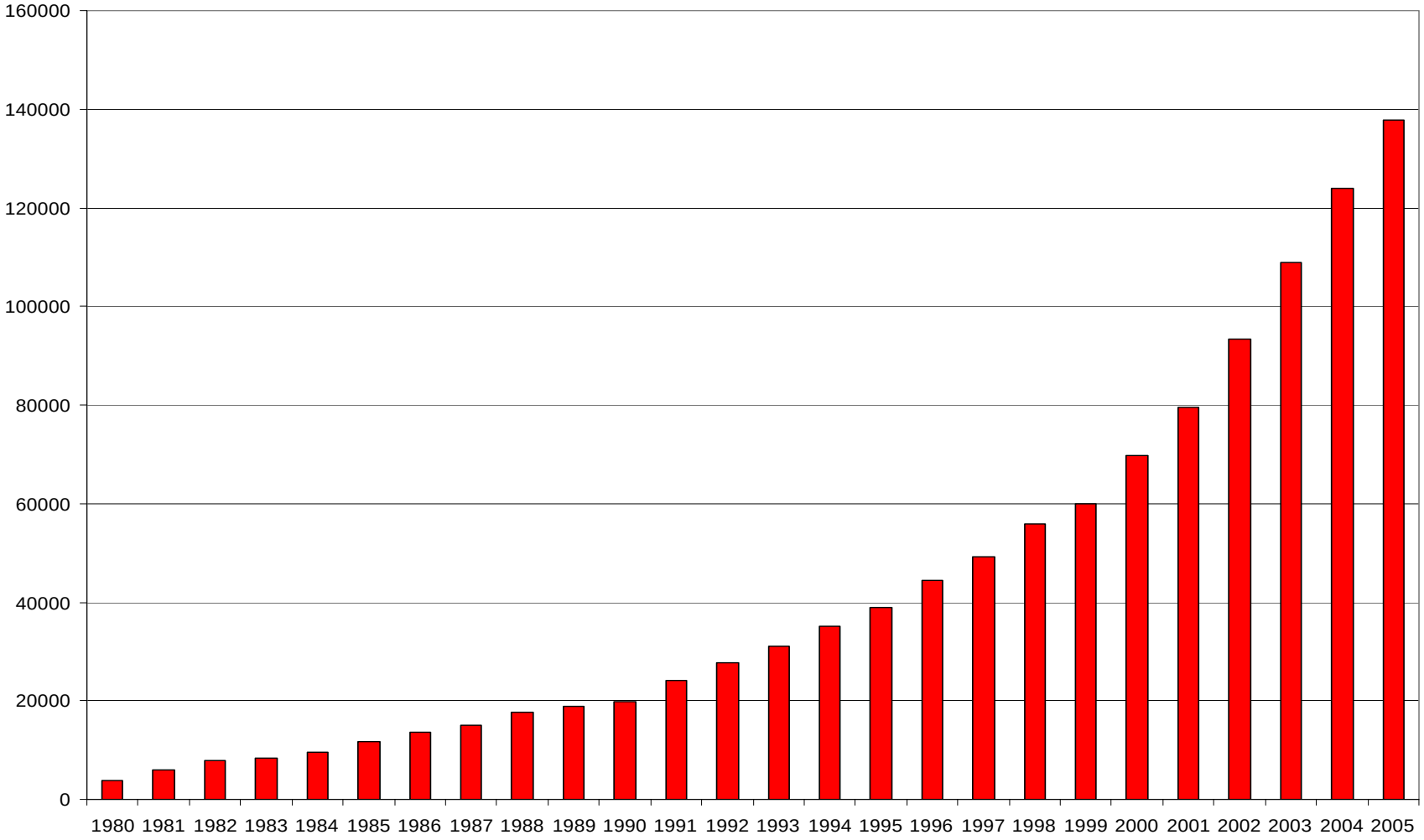
CAplus

- CAplus
  - 文献数据库
  - 索引记录来自世界科学文献
  - 始于1907
  - 涵盖了不同类型的文献

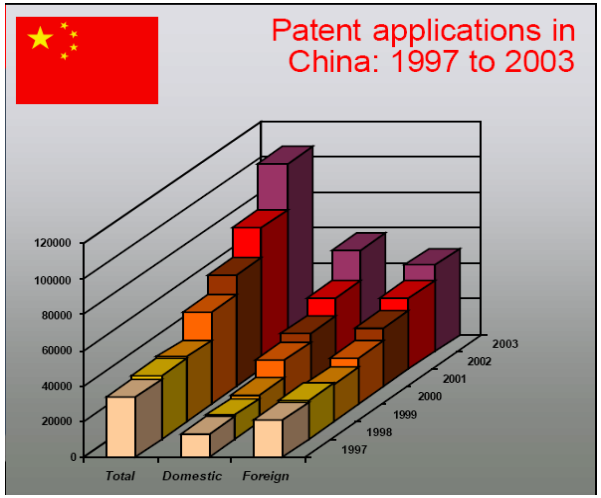


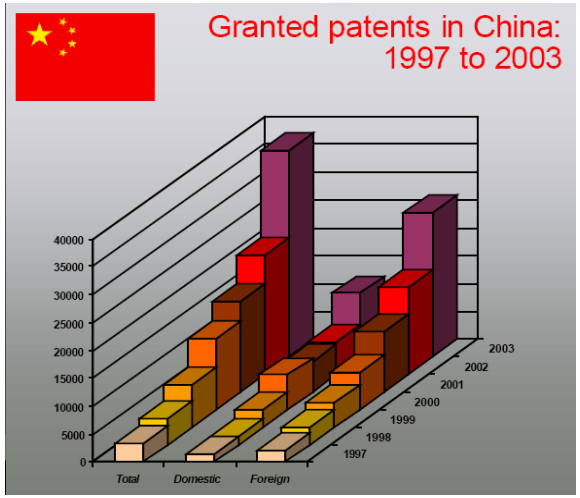
CAplus (覆盖文献情况: 中国)

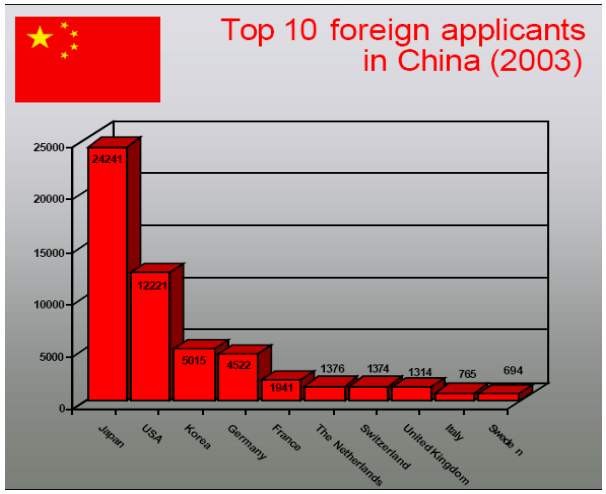
CAplus中收录的记录量



中国专利文献的增长反映了经济的实力







- 申请专利的增长速度是全球最快的
- 授权的专利深受外来投资者的喜爱
- 主要是日本的专利申请者
- 与2005年相比，2006年申请的专利新增了28%，近350，000项。

Comprehensive... Authoritative... Reliable

全面

- 唯一的综合性科学期刊资源和专利信息

  Scifinder Scholar从多于10,000个关键的科学期刊提供以百万计的期刊文章参考文献 ，和由世界各地57家专利局的专利和专利家族的参考文献。

- 最实时性的科学情报来源

  CAplus与CA registry为每天更新

  9个主要专利局的专利参考文献,在专利的发行以后2天内收录在CAplus里面

  CAplus每天增加超过3,000个纪录

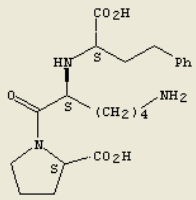
Comprehensive... Authoritative... Reliable

CAS Registry

全球最大的物质数据库
34,000,000有机&无机物质. 60,000,000蛋白质&核酸序列

Registry Number: 76547-98-3

Absolute stereochemistry. Rotation (-).



Formula: C21 H31 N3 O5

CA Index Name: L-Proline, N2-[(1S)-1-carboxy-3-phenylpropyl]-L-lysyl- (9CI)

CAplus

全球最大的文摘数据库
28,000,000期刊和专利记录

Bibliographic Information

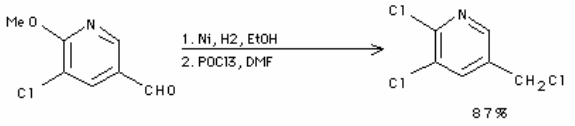
Synthesis and Assignment of Absolute Configuration of (-)-Oleocanthal: A Potent, Naturally Occurring Non-steroidal Anti-inflammatory and Anti-oxidant Agent Derived from Extra Virgin Olive Oils. Smith, Amos B., III; Han, Qiang; Breslin, Paul A. S.; Beauchamp, Gary K. Department of Chemistry, Monell Chemical Senses Center, Laboratory for Research on the Structure of Matter, University of Pennsylvania, Philadelphia, PA, USA. Organic Letters (2005), 7(22), 5075-5078. Publisher: American Chemical Society, CODEN: ORLEF7 ISSN: 1523-7060. Journal written in English. AN 2005:1039884 CAPLUS

Abstract

Effective total syntheses and the assignment of abs. configurations of both the (+)- and (-)-enantiomers of oleocanthal 1 (a.k.a. Deacetoxy ligstroside aglycon), the latter derived from extra virgin olive oils and known to be responsible for the back of the throat irritant properties of olive oils, have been achieved. The abs. and relative stereochem. of the naturally occurring enantiomer (-)-1 proved to be 3S,4E. Both syntheses begin with D-(-)-ribose, proceed in 12 steps, and are achieved with an overall yield of 7%. Both enantiomers proved to be non-steroidal anti-inflammatory and anti-oxidant agents.

CASREACT

全球最大的反应数据库
>14,500,000条单步和多步的反应



Comprehensive... Authoritative... Reliable

权威

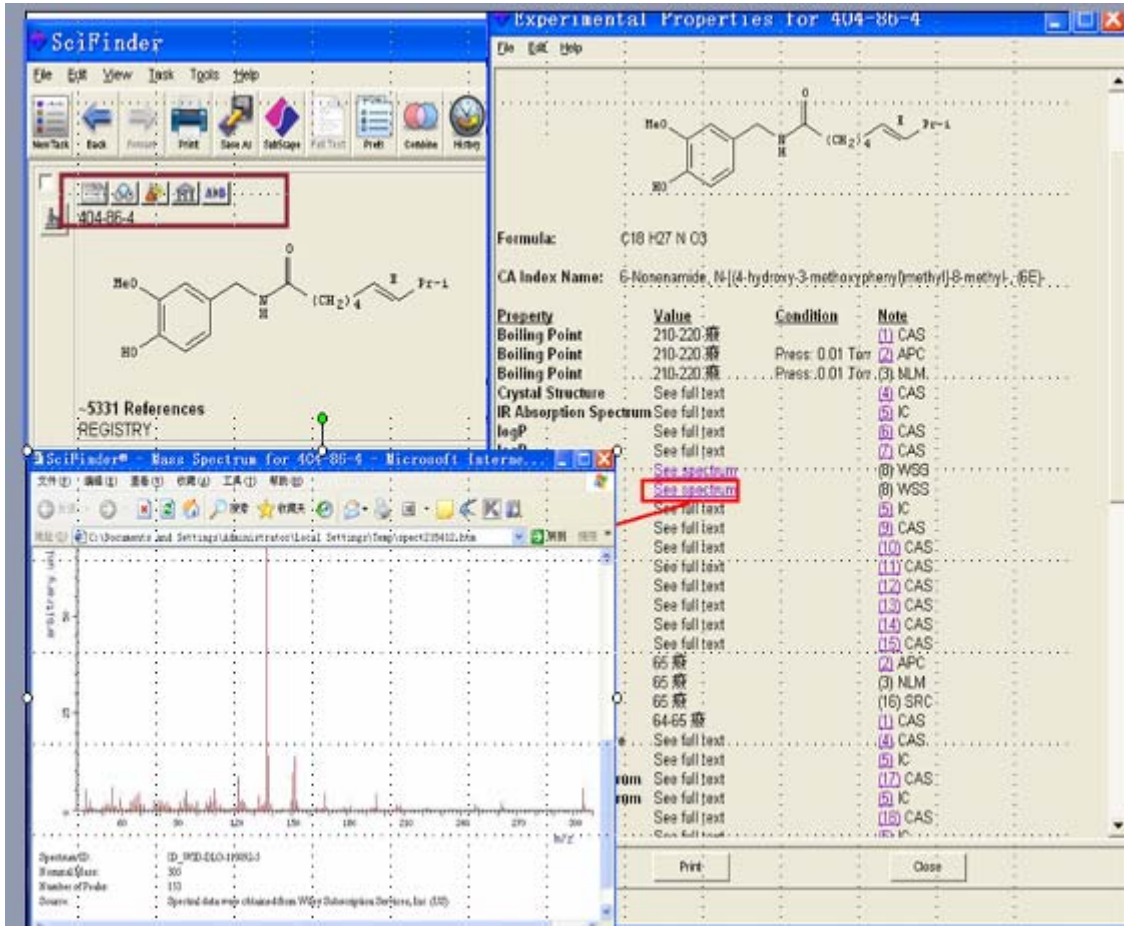
- CAS的索引
  - 八百多位专业科学家分析和索引科研文献和专利，为文献内容增值
- CAS收录100多年的数据
  - CAplus自1907年开始, 收录 9,500 余种期刊，包括1,900 余种化学核心期刊所有文章; 文章收录自50多个国家的专利
- CAS登记号
  - 为每一个物质都有的独一编号, 用来确认物质, 被世界广泛使用

Comprehensive... Authoritative... Reliable

可靠

- 所有CAS的数据是有相关文献支持，用户可随时查阅

- CAS的索引和检索系统帮助用户进行全面和精确的检索，减少检索漏掉



看科学家说什么Scifinder

2001年诺贝尔奖得主

Dr. K. Barry Sharpless
Nobel Laureate
W.M. Keck Professor of Chemistry
Scripps Research Institute

Dr. K. Barry Sharpless
Nobel Laureate (2001年诺贝尔奖得主)

- **SciFinder's significance, speed, and scope**

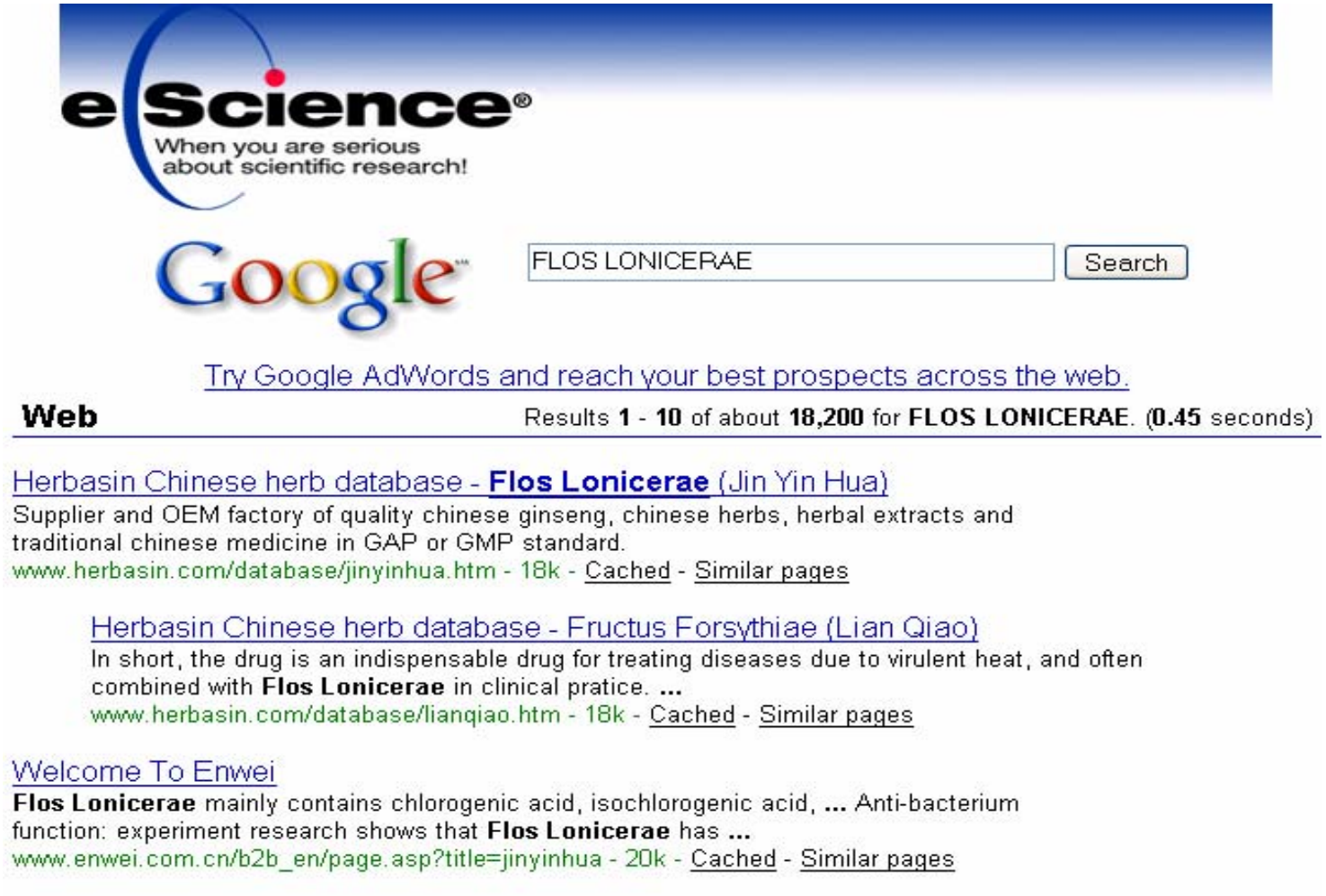
  We were using SciFinder at Scripps even before SciFinder ScholarTM was invented. I am a big user and don't see how any researcher could hope to excel without daily, round-the-clock access. In the old days, you could be forgiven for not knowing about a certain paper, but now there is no excuse. The speed and scope of its search power is amazing, and the answer to 'what aspect is most helpful to you?' could be as diverse as the users. In my case, SciFinder enhances my reactivity insights, making it easier to 'see' those ill-defined boundaries where important new phenomena are lurking.

- Scifinder的查寻力量,速度和范围

  在SciFinder Scholar被发明了以前，我们已经在Scripps研究所使用SciFinder 。我是一名主要的用户，我不了解研究员怎么可能不希望每日，每夜不停的使用它。在过去，您可能认为不知道一些研究论文可以被原谅，但是现在是没有借口的。 它的查寻力量,速度和范围是惊人的。 它的答案对您查寻‘什么方面对您是最有帮助？’能是不同的用户,不一样的答案。在我而言， Scifinder提高我的反应和洞察力，使我决策更容易。使我能 '看见'那些艰难确定分界线及重要地方潜伏的新现象。

金银花

- Google搜索



中草药数据库

Herbasin Chinese herb database - Flos Lonicerae (Jin Yin Hua)

English Name

Honeysuckle Flower

Chinese Name

金银花

Picture

Origin

Honeysuckle Flower is the dried flower bud or opening flower of *Lonicera japonica* Thunb., *lonicera hypoglauca* Miq., *Lonicera confuse* DC. or *Lonicera dasystyla* Rehd. (Fam Caprifoliaceae).

Nature and Affinity

It is sweet in taste and cold in nature. Its therapeutic action is related to the Channels of the Lung, Heart and Stomach.

Main Active Ingredient

chlorogenic acid (C16H18O9)

DESCRIPTION

flower of Lonicera japonica Clavate, stout in upper part and tapered downwards, slightly curved, 2~3 cm long, about 3 mm in diameter in upper part and 1.5 mm in diameter in lower part. Externally yellowish-white or greenish-white, gradually darken on keeping, densely pubescent. Foliaceous bracts occasionally visible. Calyx green, 5-lobed at the apex, lobes pubescent, about 2 mm long. Corolla tubular when open, apex 2-lipped; stamens 5, epipetalous, yellow; pistil 1, ovary glabrous. Odour, delicately aromatic; taste, weak and slightly bitter.

flower of lonicera hypoglauca 2.5~4.5 cm long, 0.8~2 mm in diameter. Externally yellowish-white to yellowish-brown, glabrous or sparsely pubescent. Calyx tube glabrous, 5-lobed at the apex, lobes long-triangular, pubescent. The lower lip of corolla recurved when open. Style glabrous.

flower of Lonicera confuse 1.6~3.5 cm long, 0.5~2 mm in diameter. Calyx tube and corolla densely covered with greyish-white hairs. Ovary hairy.

flower of Lonicera dasystyla 2.5~4 cm long, 1~2.5 mm in diameter. Externally pale purplish-yellow, glabrous. Calyx lobes short-triangular. The upper lip of corolla usually irregular when open. Style densely covered with long pubescences at the lower part.

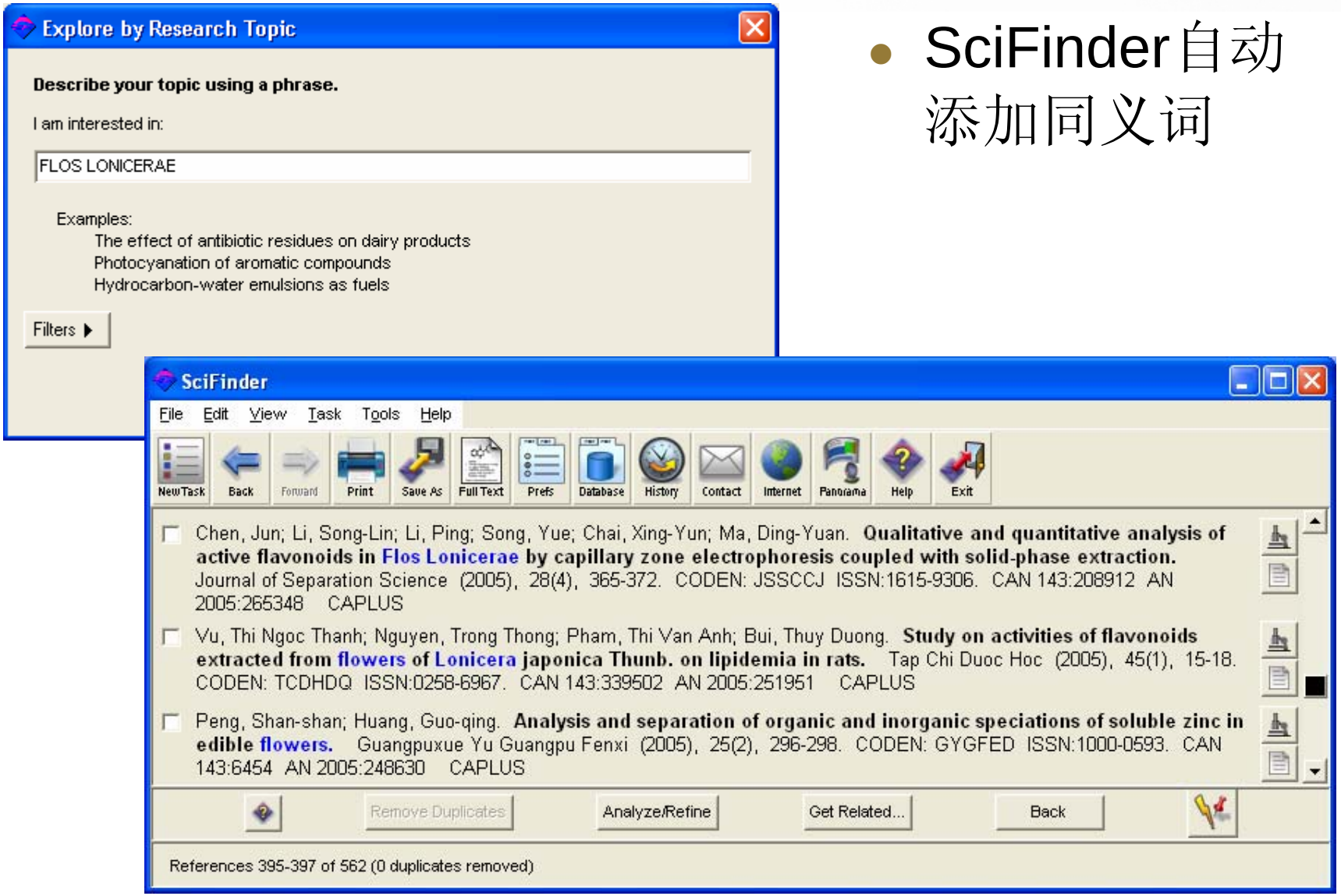
ACTION

To remove toxic heat and dispel wind-heat.

金银花的信息?

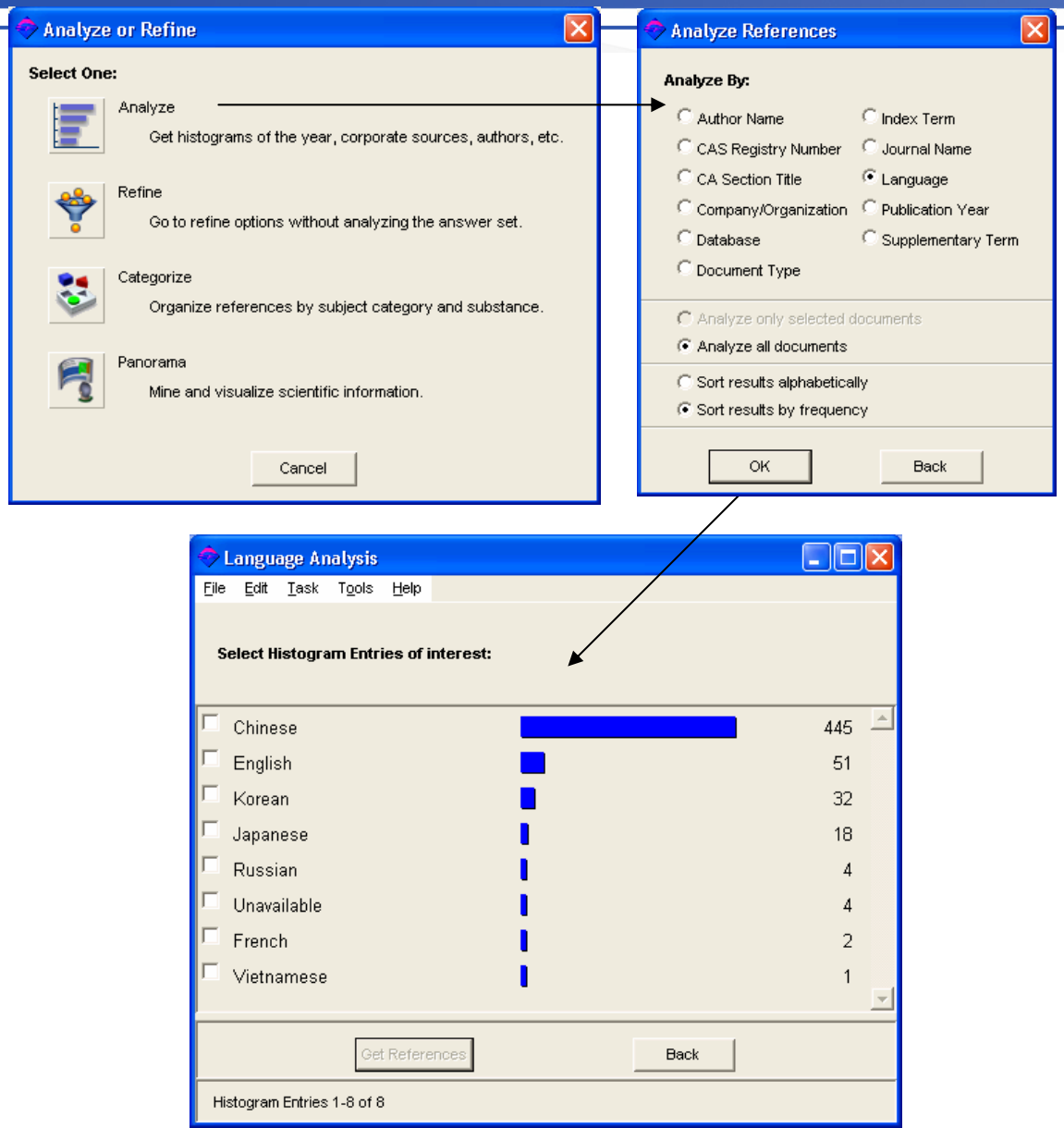
- 全面的信息：
  - 植物科?
  - 植物种属?
    - 其他名称
  - 医药用途?
  - 活性成分?
  - 期刊及专利?
  - ???

SciFinder: 主题检索(CAplus)



- SciFinder自动添加同义词

中文记录


Analyze or Refine
Select One:
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Get histograms of the year, corporate sources, authors, etc.
Refine
Go to refine options without analyzing the answer set.
Categorize
Organize references by subject category and substance.
Panorama
Mine and visualize scientific information.
Cancel
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Document Type
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Sort results by frequency
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Chinese 445
English 51
Korean 32
Japanese 18
Russian 4
Unavailable 4
French 2
Vietnamese 1
Get References
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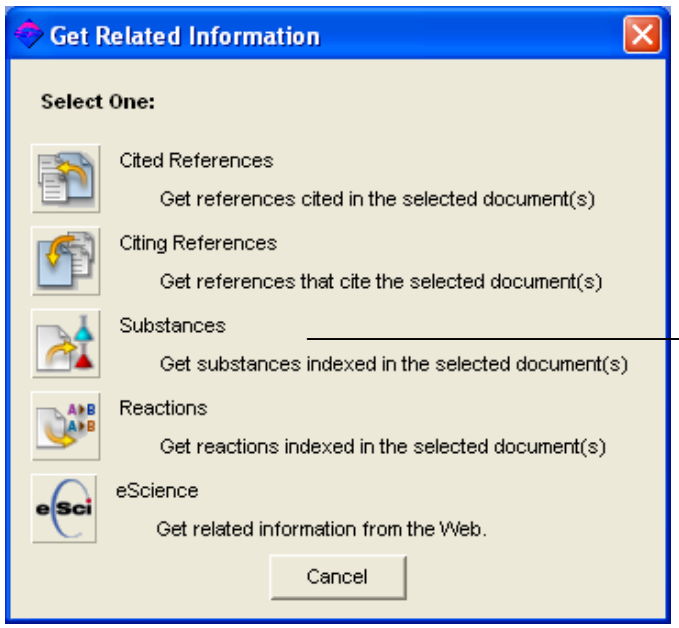
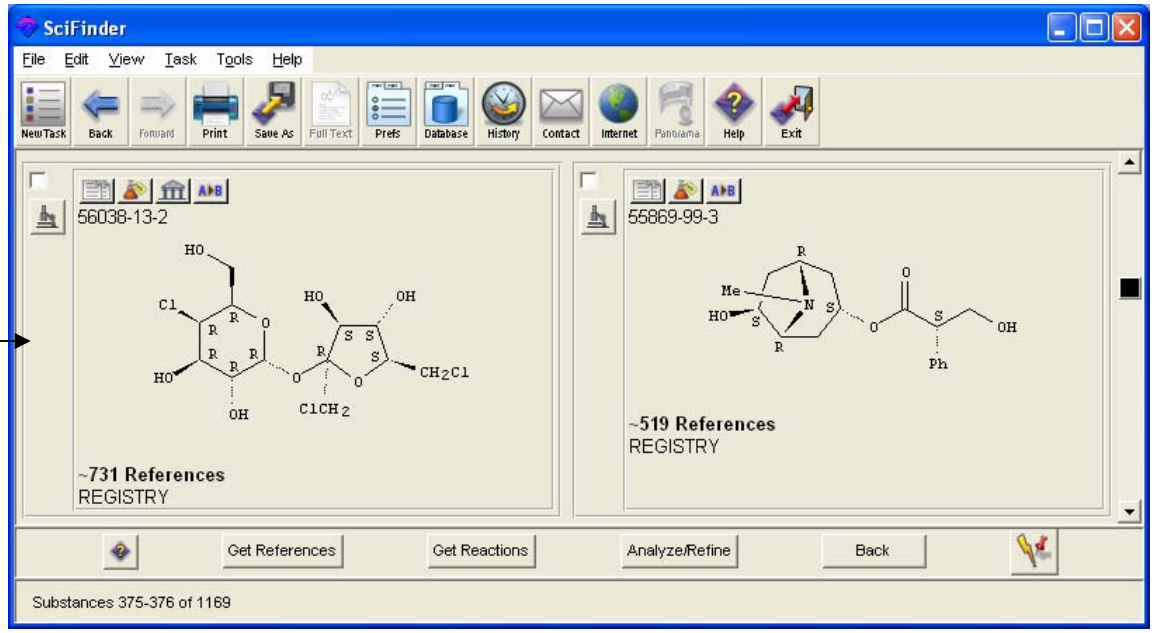
Histogram Entries 1-8 of 8

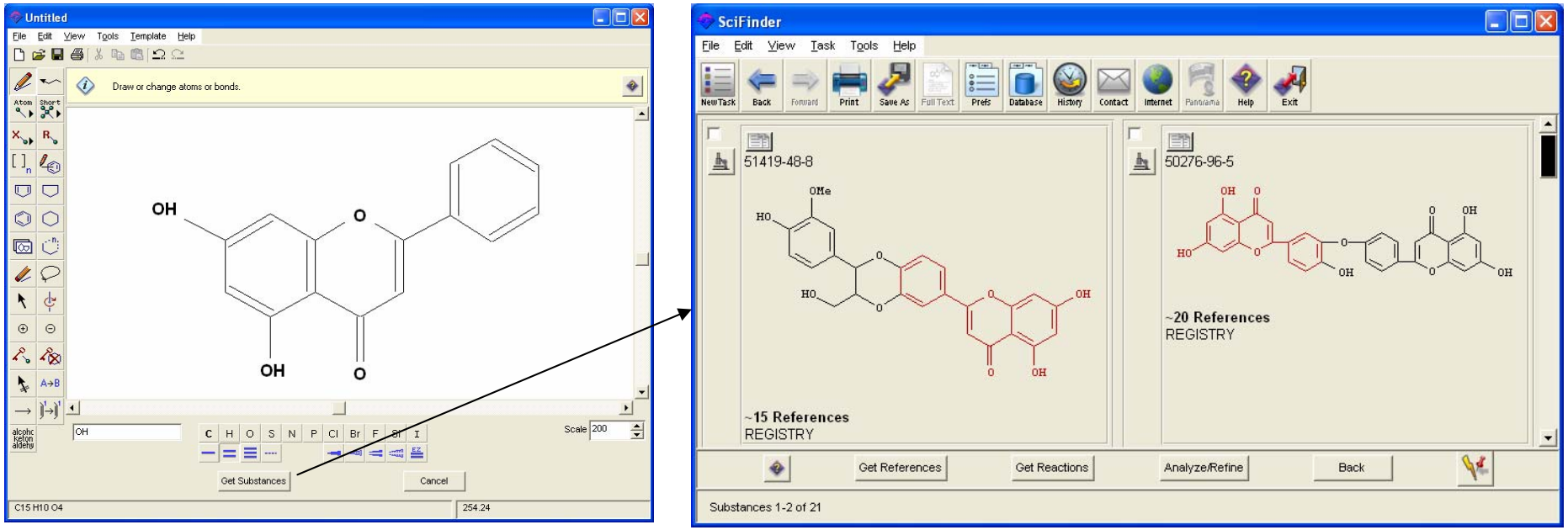
Get Related: 获得相关物质





- 562个记录中有1100多种物质
- 可以通过许多方式缩小检索结果，如：通过结构

金银花中的类黄酮



- 主题检索之后继以相关物质检索
  - 给科研人员极大便利
  - 为SciFinder所特有

总结: 金银花

- SciFinder 主题检索
  - 自动添加同义词;
  - 分析
    - 中文期刊很重要;
  - 获取相关物质
    - 找出相关物质
    - 根据结构缩小检索结果
- SciFinder 分类
  - 另一种独有的后处理方法

总结

- 药物检索时出现的问题:
  - 同义词;
  - 信息是以怎样的方式被收录:
    - 全文;
    - 数据库.
- SciFinder 具有便捷的搜索引擎功能，并且具有许多独一无二的后处理方法.
- 当检索科学信息时:
  - 了解数据库;
  - 了解搜索引擎如何运作.

总结

- CAS一直秉承着帮助科研人员及情报人员创造增值资源的理念精髓。
- 我们致力于寻求让科学研究更高效更全面的途径。
- CAS涵盖的内容是无可比拟的；且包含了大量的不断更新的文献。(特别是中文文献)
- 运用SciFinder这一独特的检索工具，科研人员可以进行全面的信息检索和高效的科学研究。
- CAS中国愿竭诚助您认识SciFinder—研究过程不可缺少的工具！

Blessing from CAS colleagues in Columbus

众志成城，佛佑四川


谢谢!
CAS CELEBRATES
100
YEARS
1907-2007

欢迎参加!

CAS用户座谈咨询会与上机培训

- 内容：SciFinder Scholar
- 时间：5月15日
  14:30 – 16:00
- 地点：图书馆 老馆 208室