

# SciFinder Web使用介绍

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# 内容

**1**

概述

**2**

检索方式

**3**

补充问题



# 概述

涵盖世界范围**98%**  
以上的相关文献  
(期刊、会议论文、报  
告、专利等)

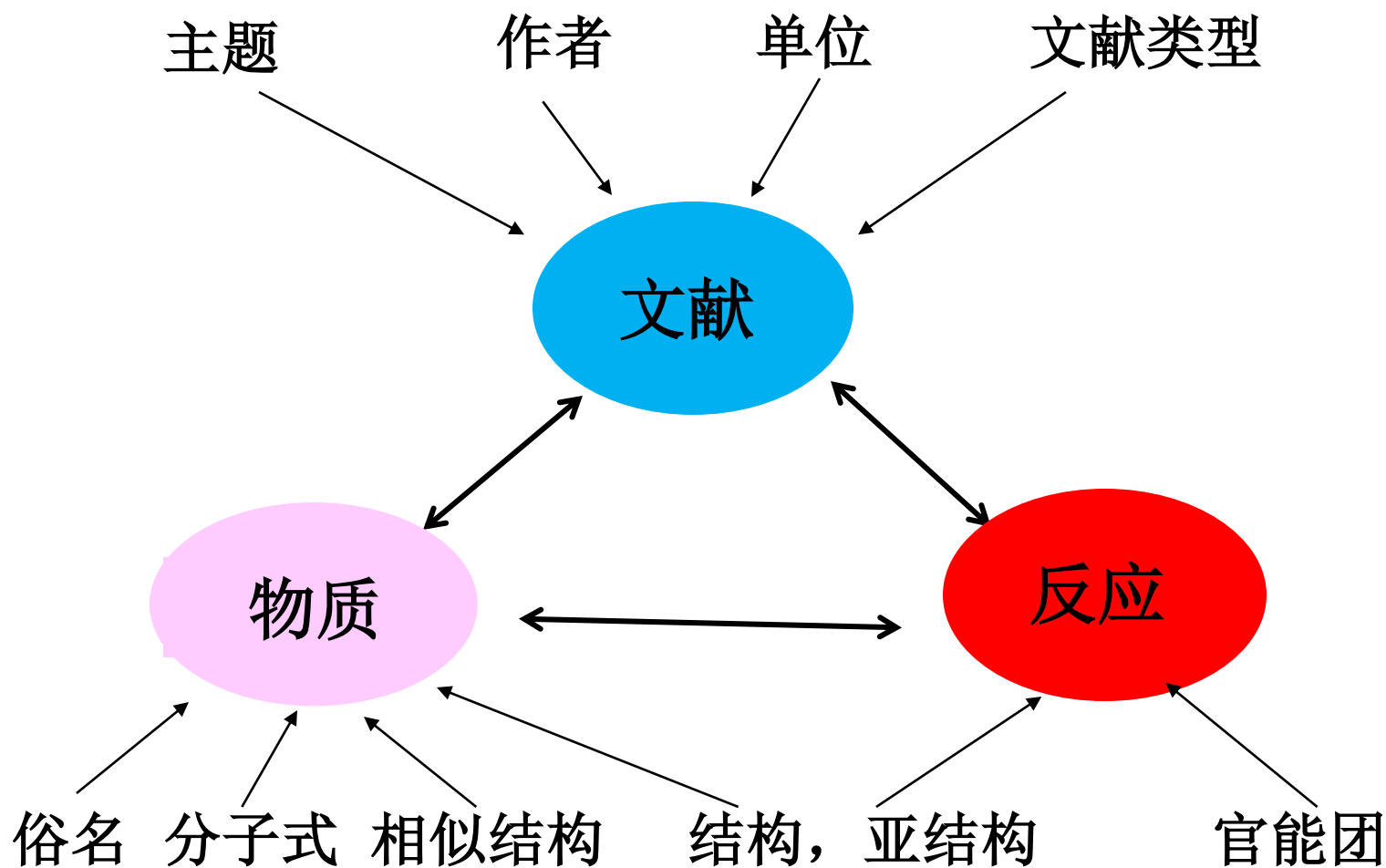
检索方式多样化

**为什么推荐!!!**

检索技巧简单

强大的分析功能

# 概述-多样化的检索方式



# 概述-多样化的检索方式

## CAS REGISTRY<sup>SM</sup>

>6600万有机无机物质

>6300生物序列

每天更新约12000新物质

物质报道文献，回溯到1802年

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反应回溯到1840年

## CAS Databases

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引文信息回溯到1997年之前，超过3亿条引文信息

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# 概述-简单的检索技巧

使用介词（如 at、by、in、of 、for、to等 ）或冠词连接检索词，组成短语。

系统能自动识别全名和缩写、名词的单复数、动词的不同时态，自动进行截词处理，不需人工截词。

系统能对输入的检索词自动进行同义词、近义词的扩展检索。

# 概述-SciFinder的注册和登陆

<a href="#">CALIS西文期刊目录库(CCC)</a>	文摘索引, 期刊, 联合目录	  
<a href="#">Cambridge Journals Online</a> <input type="button" value="全文"/>	电子期刊	  
<a href="#">Cell Press</a> <input type="button" value="全文"/>	电子期刊	  
<a href="#">Chemical Abstracts (SciFinder Scholar) (CA网络版)</a>	期刊, 会议论文, 报告	 
<a href="#">Derwent Innovations Index 德温特专利情报数据库(DII)(ISI)</a>	专利	  



# 概述-SciFinder的注册和登陆



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6. I may store no more than 5,000 records in electronic form at any one time.

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(bold\* = required)

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Last Name*:	<input type="text"/>
Email*:	<input type="text"/>
Confirm Email*:	<input type="text"/>
Phone Number:	<input type="text"/>
Fax Number:	<input type="text"/>
Area of Research:	<input type="text" value="----- Select one -----"/>
Job Title:	<input type="text" value="----- Select one -----"/>

--USERNAME AND PASSWORD--	
Username*:	<input type="text"/>
Password*:	<input type="password"/>
Re-enter Password*:	<input type="password"/>

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Answer*:	<input type="text"/>

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案必须填写

# 设置用户名及密码注意事项

用户名：必须是唯一的，且包含 5-15 个字符。它可以只包含字母或字母组合、数字和/或以下特殊字符：

- -（破折号）
- \_（下划线）
- .（句点）
- @（表示“at”的符号）

密码：必须包含 7-15 个字符，并且至少包含三个以下字符：

- 字母
- 混合的大小写字母
- 数字
- 非字母数字的字符（例如 @、#、%、&、\*）

# 对新ID的Email确认



## Almost Finished

Thank you for completing the initial step in registering to use SciFinder®!

You will receive an e-mail message from CAS that includes a link and instructions for completing the registration process. **You must click the link within 48 hours.** If not, you will need to begin the registration process again.

From: CAS

Dear user,

To complete your SciFinder registration, you must click the link provided below. By clicking the link, you agree to all of the following terms and conditions:

- I will not share my username and password with any other person.
- I will search only for myself and not for others or other organizations.
- I will not use any automated program or script for extracting or downloading CAS data, or any other systematic retrieval of data.
- I may retain a maximum of 5,000 Records at any given time for personal use or to share within a Project team for the duration of the Project.
- My organization's SciFinder License and the CAS Information Use Policies (<http://www.cas.org/legal/infopolicy.html>) apply to my use of SciFinder.
- I will contact my SciFinder Key Contact if I have questions.

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<https://scifinder.cas.org/registration/completeRegistration.html?respKey=B8CB6727-86F3-F014-11E6-D312D80AC094>

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If you need assistance at any time, consult the key contact at your organization.

48小时内打开并阅读 CAS 的电子邮件激活链接



# 检索方式

文献

物质

反应

**REFERENCES**

Research Topic  
 Author Name  
 Company Name  
 Document Identifier  
 Journal  
 Patent  
 Tags

**SUBSTANCES**

Chemical Structure  
 Markush  
 Molecular Formula  
 Property  
 Substance Identifier

**REACTIONS**

Reaction Structure

**REFERENCES: RESEARCH TOPIC ?**

Examples:

The effect of antibiotic residues on dairy products  
 Photocyanation of aromatic compounds

Search

Advanced Search

**Publication Years**

Examples: 1995, 1995-1999, 1995-, -1995

**Document Types**

- |   |                                     |
|---|-------------------------------------|
| <input type="checkbox"/> Biography      | <input type="checkbox"/> Historical |
| <input type="checkbox"/> Book           | <input type="checkbox"/> Journal    |
| <input type="checkbox"/> Clinical Trial | <input type="checkbox"/> Letter     |
| <input type="checkbox"/> Commentary     | <input type="checkbox"/> Patent     |
| <input type="checkbox"/> Conference     | <input type="checkbox"/> Preprint   |
| <input type="checkbox"/> Dissertation   | <input type="checkbox"/> Report     |
| <input type="checkbox"/> Editorial      | <input type="checkbox"/> Review     |

**Languages**

- |                                  |                                   |
|----------------------------------|-----------------------------------|
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| <input type="checkbox"/> English | <input type="checkbox"/> Polish   |
| <input type="checkbox"/> French  | <input type="checkbox"/> Russian  |
| <input type="checkbox"/> German  | <input type="checkbox"/> Spanish  |
| <input type="checkbox"/> Italian |                                   |

**Author**

Last Name \*

First

Middle

**Company**

Examples:

Minnesota Mining and Manufacturing  
 DuPont

## 检索实例：

搜索主题：印染废水中聚乙烯醇的处理技术

关键词：聚乙烯醇  
处理  
废水

PVA  
treat  
wastewater

PVA to treat of wastewater

Examples:

The effect of antibiotic residues on dairy products

Photocyanation of aromatic compounds

Search

≡ Advanced Search

使用介词连接检索



Select All Deselect All

1 of 12 Research Topic Candidates Selected

- ☐ 1 reference was found containing "PVA to treat of wastewater" as entered.
- ☒ 852 references were found containing all of the concepts "PVA", "treat" and "wastewater" closely associated with one another.
- ☐ 2493 references were found where all of the concepts "PVA", "treat" and "wastewater" were present anywhere in the reference.
- ☐ 7427 references were found containing the two concepts "PVA" and "treat" closely associated with one another.
- ☐ 25379 references were found where the two concepts "PVA" and "treat" were present anywhere in the reference.
- ☐ 1438 references were found containing the two concepts "PVA" and "wastewater" closely associated with one another.
- ☐ 2843 references were found where the two concepts "PVA" and "wastewater" were present anywhere in the reference.
- ☐ 394252 references were found containing the two concepts "treat" and "wastewater" closely associated with one another.
- ☐ 408749 references were found where the two concepts "treat" and "wastewater" were present anywhere in the reference.
- ☐ 157404 references were found containing the concept "PVA".
- ☐ 9077577 references were found containing the concept "treat".
- ☐ 490642 references were found containing the concept "wastewater".

Get References

1. “concept”表示：SciFinder 检索系统自动把检索词的名词单复数、英美文法上的差异、该词的动词、形容词、副词、名词形式等进行扩展。
- 2.“closely associated with one another”表示检索词同时出现在一句话中。
- 3.“present anywhere in the reference”表示检索词同时出现在一段话当中。

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762 References 0 Selected

Sort by: Accession Number ↓

Select All Deselect All

- ☐ Accession Number
- ☐ Author Name
- ☐ Citing References
- ☐ Publication Year
- ☐ Title

and performance evaluation of polyvinylalcohol (PVA)/polyethersulfone (PES) composite nanofiltration membranes for wastewater treatment

Ahmad; Mortazavian, Narmin

21(6), 375-383. | Language: English, Database: CAPLUS

Composite PVA/PES nanofiltration membranes were fabricated for the treatment of pulp and paper mill wastewater. The membranes were prepared by the interfacial polycondensation (IP) method. The PES support membrane was used to prepare the PVA/PES composite nanofiltration membrane. The PVA and PES were used as monomers. The maleic acid (MA) was used as crosslinking agent. The SEM (SEM) as well as atomic force microscopy (AFM) were used to study the morphology of the membranes.

concn. of 0.5-2 and 0.05-1 wt%, respectively. The results showed that the addition of PVA improved the performance of the PES support membrane.

引文排序，影响力最高的文献

- ☐ 2. Photo/electro-fenton treatment process for polyvinyl alcohol desizing wastewater

By Yang, Jie; Chu, Hairong; Xu, Yanhua; Liu, Dongzhe

From Faming Zhuanli Shenqing (2012), CN 102757144 A 20121031. | Language: Chinese, Database: CAPLUS

The Fenton treatment process includes adding acid solution to polyvinyl alcohol desizing wastewater to adjust pH to 3~6, adding 22.1 mmol/L and H<sub>2</sub>O<sub>2</sub>/CODCr 1.0~3.0, starting UV lamp with power 6~8 W and stirrer for reaction, adding inorganic salt, applying current 0.5~2.0 A for degradation for 15~120 min. The acid solution is 10~30wt% H<sub>2</sub>SO<sub>4</sub>, HCl or HNO<sub>3</sub>. The Fenton solution and H<sub>2</sub>O<sub>2</sub>. The inorganic salt is NaCl, MgCl<sub>2</sub> or KCl. The invention can remove 91% CODCr and enhance biodegradability of wastewater.

点击文献标题，阅读单篇文献详细信息

文献摘要信息

文献详细著录信息

1. Polymeric flocculants

By: Guillet, James Edwin; Heskins, Michael; Murray, D. Gary  
Assignee: Can.

重要概念索引

Wastewaters contg. aq. suspensions of clay fines are flocculated rapidly using high mol. wt. (vis 55-3] and copolymers with I contg. ≥50% of polymd. N-isopropylacrylamide units. The floc has also used in the manuf. of paper. Thus, aq. suspensions were prepd. from mixts. of sand and c isopropylacrylamide to give a homogeneous floc contg. ≤66.3% of solids.

Patent Information

专利信息

Patent No.	Kind	Date	Applica
CA 1180827	A1	Jan 8, 1985	CA 1982
US 4536294	A	Aug 20, 1985	US 1983

Priority Application

CA 1982-399215	A	Mar 23, 1982
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Indexing

Waste Treatment and Disposal (Section 60-3) ⓘ

Substances ⓘ

25189-55-3  
28500-83-6  
81565-38-0  
97366-13-7  
97366-15-9  
97366-16-0

flocculant, in treatment of wastewater contg. clay suspensions  
Process

28377-46-0  
31261-19-5  
97366-18-2  
97366-19-3  
97381-57-2

flocculant, in treatment of wastewaters contg. clay suspensions  
Process

9003-05-8  
9003-06-9  
25085-02-3  
65324-25-6

flocculants contg., in treatment of wastewaters contg. clay suspensions  
Process

Patent Information

Jan 8, 1985  
CA 1180827  
A1

Application

Mar 23, 1982  
CA 1982-399215

Priority

Mar 23, 1982  
CA 1982-399215

Source

Can.  
38 pp.  
Patent  
1985  
CODEN: CAXXA4

Classifications

Main IPC C02F001-56

Research Topic "PVA to treat of wastewater" > references (852)

## REFERENCES ?



系统分析功能



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0 of 852 References Selected

Analyze by: ?

Author Name ▾

Fukunaga Kazuji 28

Fujii Hiroaki 27

Tachibana Keizo 15

Sumina Shoji 14

Ueda Kozo 14

Takemasa Takeshi 13

Hashimoto Susumu 10

Author Name

CAS Registry Number

CA Section Title

Company-Organization

Database

Document Type

Index Term

CA Concept Heading

Journal Name

Language

Publication Year

Supplementary Terms

biochemical treatment of printing and dyeing wastewater



Full Text

Wei-zhong; Meng, Rui; Zhang, Bao-jun

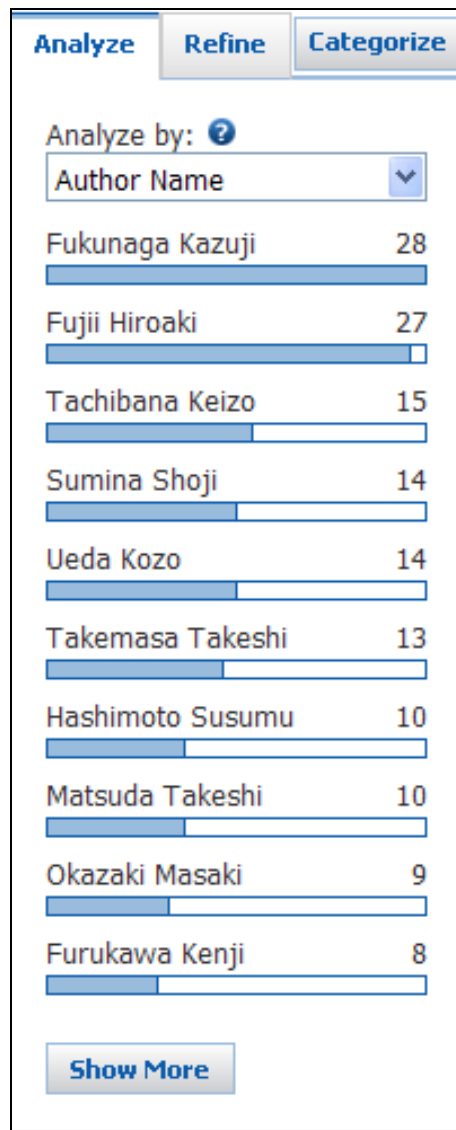
13), 21(4), 19-25. | Language: Chinese, Database: CAPLUS

search progress of using high-efficient anaerobic biol. technol. to treat dyeing wastewater. The effect of different culture conditions and influencing factors of using high-efficient anaerobic bioreactors (ABR reactor, anaerobic fluidized bed and anaerobic IC reactor etc. In addn., it also investigated the effect of PVA degrading bacteria in printing and dyeing wastewater.

vinyl alcohol /precipitated silica composite hydrogels for microorganism immobilization

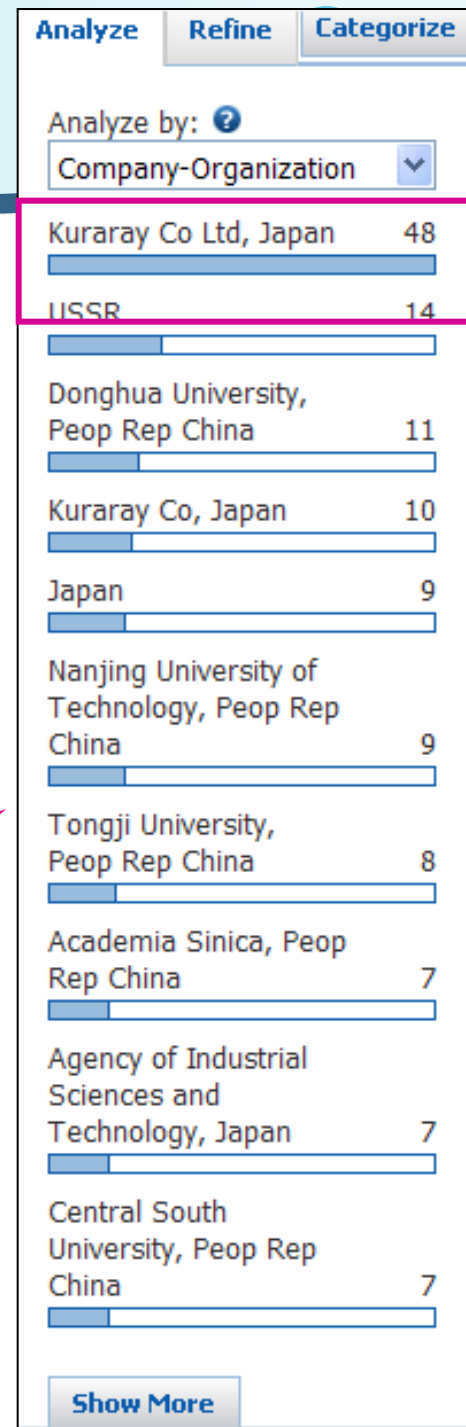
14), 56, 749-755. | Language: English, Database: CAPLUS

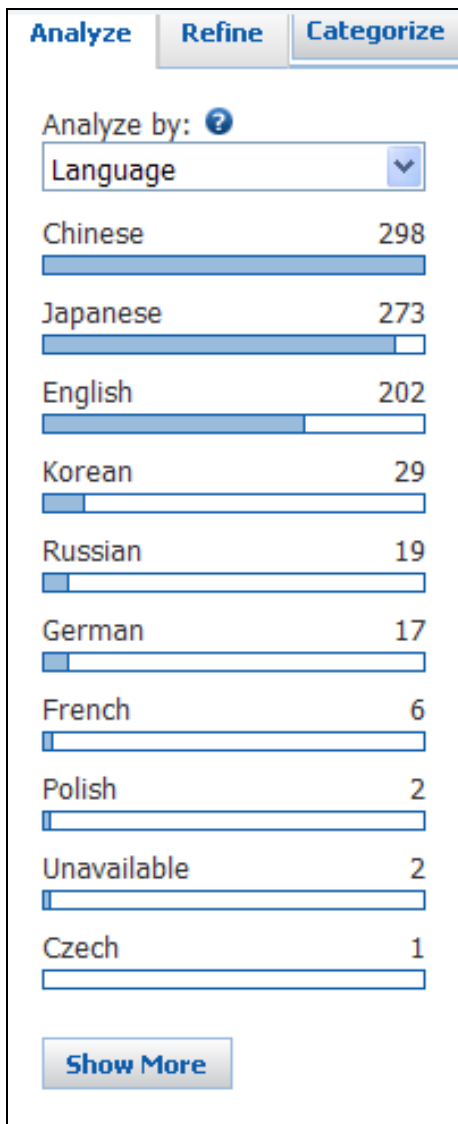
ed with pptd. silica (PSi) was prepd. by chem. crosslinking in the satd. boric acid solution. It was found that PSi could accelerate the crosslinking reaction of PVA, and the intermol. bonds of PVA hydrogel was investigated. The tensile strength of PVA hydrogel increased with the increase of PSi content, and swelling property, resulting in the improvement of the capillary water absorption.



作者分析，了解本领域，  
本课题的主要研究人员。

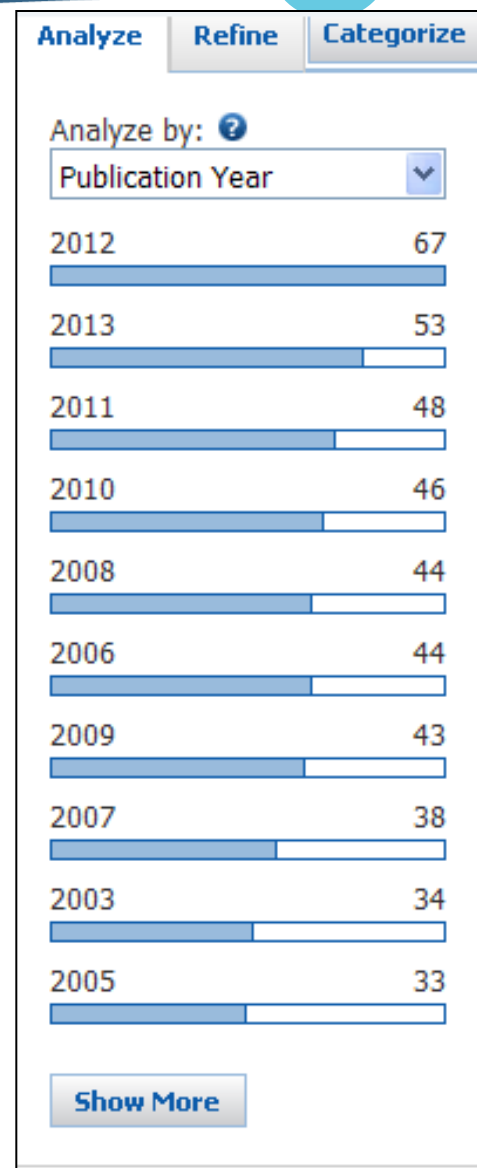
组织机构分析，了解本领域  
的核心研究机构

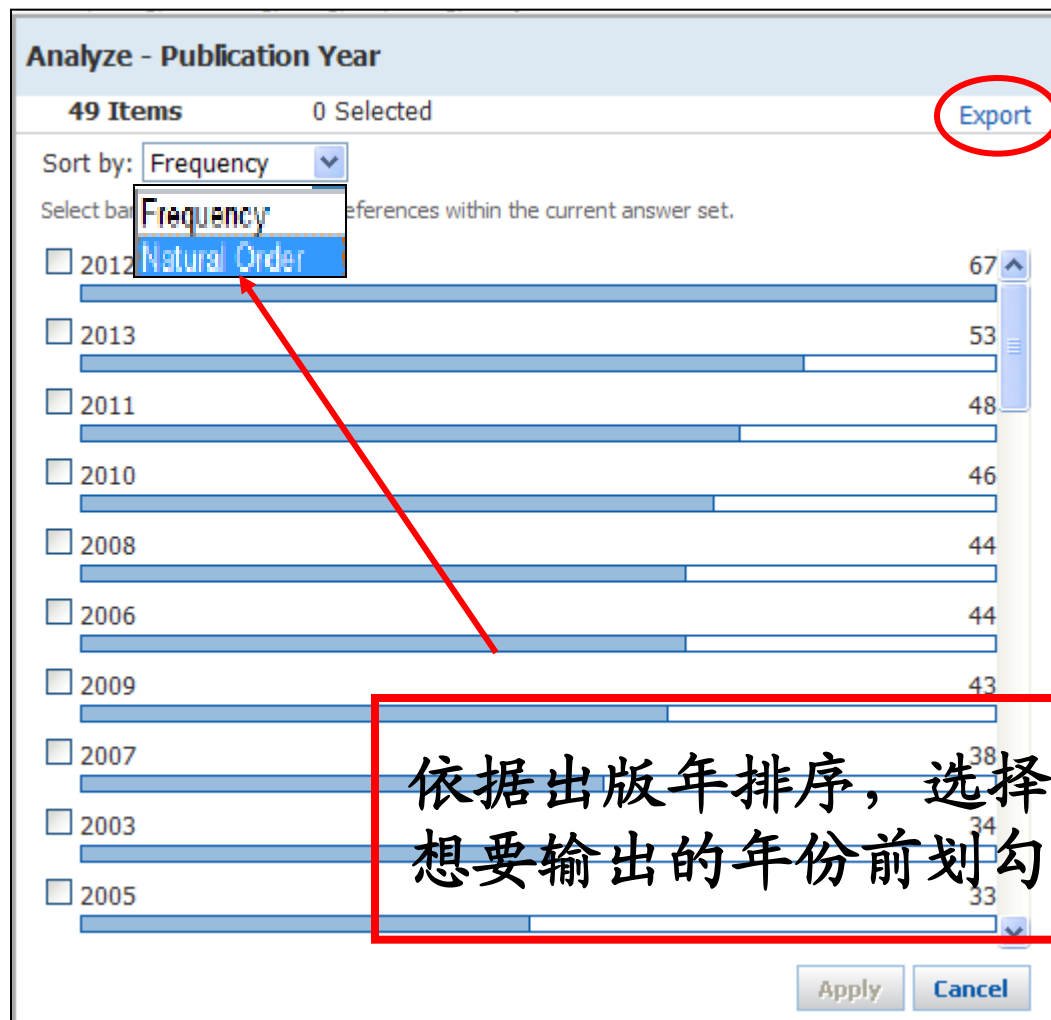
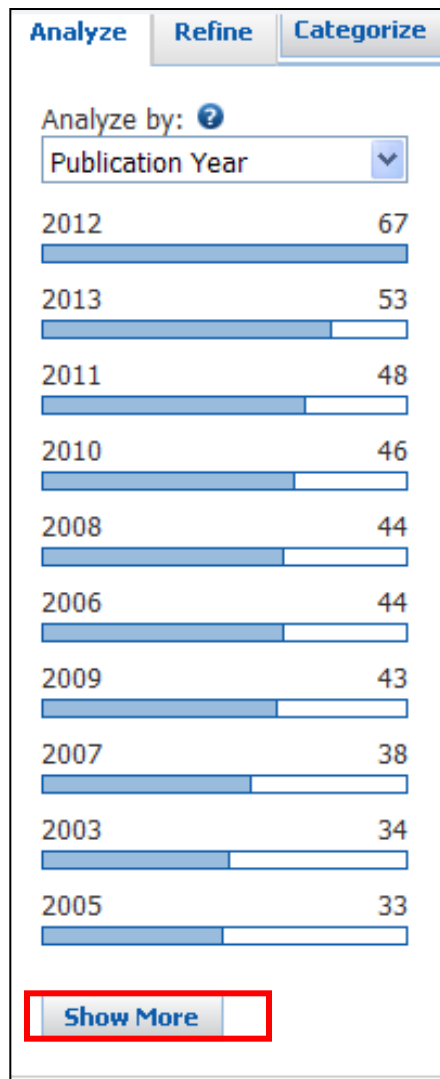




语言分析，了解该课题  
主要研究地区

出版年份分析，了解  
该课题主要研究时期。







## Export Analysis - Publication Year ?

### Export:

- ☒ All  
☐ Selected  
☐ Range

Example: 2-20

### For:

#### Offline review

- ☒ Portable Document Format (\*.pdf)  
☐ Microsoft Excel Worksheet (\*.xls)

## 以PDF格式输出

nanofiltration/membrane sepn. method to **treat** and reuse tannin- and NaCl-contg. food processing **wastewater** consists of: adjusting pH 4.0-7.0 using NaOH or 30% HCl, filtering to remove insol. solid particles to yield a filtrate, then filtrating the filtrate through a microfiltration membrane to yield permeate liq. I and retention liq. I; sepg. permeate and retention liqs. I through a nanofiltration membrane to yield permeate liq. II and retentate liq. II; performing vacuum evapn. and salt crystn. to yield condensed **water**, NaCl crystal...

actions ~0 Citings Full Text Link 0 Comments 0 Tags

### Preparing high-density porous carrier for biological fluidized-bed **wastewater treatment**

Yangyang; Lu, Beibei; Chen, Yingwen; Zhu, Shemin; Wang, Qiqing (2011), CN 102211807 A 20111012. Language: Chinese. Abstract: A porous carrier is prep'd. from (by wt.%) fly ash, adhesive 2-10, and **water** 15-20. The method comprises the steps of: (1) mixing fly ash and adhesive, (2) tableting, drying at 80-100° for 4-6 days, (3) impregnating the tableted carrier with an inorg. acid or base, drying, impregnating with a solution of a microorganism, and drying. actions ~0 Citings Full Text Link

### Anti-fouling coating matrix for **waste** and **water**

Hehui; Wang, Qiqing (2011), CN 102199392 A 20110928. Language: Chinese. Abstract: The method comprises dispersing nano cuprous oxide in solvent, adding the oil-sol. nano cuprous oxide, sodium dodecyl benzene sulfonate, dodecyltrimethyl ammonium chloride, Na dodecyl benzenesulfonate, dodecyltrimethyl ammonium chloride, and **water** to the solution, heating to 60-80° under normal pressure or high pressure, and keeping the temp. for 30-60 min; and dewatering the fabric through rolling. The inventive filter screen has good effect in treating **wastewater**. actions ~0 Citings Full Text Link

### Producing cuprous oxide nanoparticle-loaded filter screen used in **wastewater treatment**

Wang, Qiqing (2011), CN 102198349 A 20110928. Language: Chinese, Database: CAPLUS. Abstract: The method comprises adding a protector into **water**, and ultrasonically stirring to completely dissolve the copper salt and protector; soaking fabric in the soln., adding a nano cuprous oxide, heating to 60-80° under normal pressure or high pressure, and keeping the temp. for 30-60 min; and dewatering the fabric through rolling. The method, cuprous oxide nanoparticle is well dispersed in the fabric. The inventive filter screen has good effect in treating **wastewater**. actions ~0 Citings Full Text Link

### Well on-line profile control agent prepared by using **waste** residue from oilfield **wastewater treatment**

名称: Analysis\_11\_19\_2011\_115844.pdf  
类型: Adobe Acrobat 7.0 Document, 2.63 KB  
发送者: scifinder.cas.org

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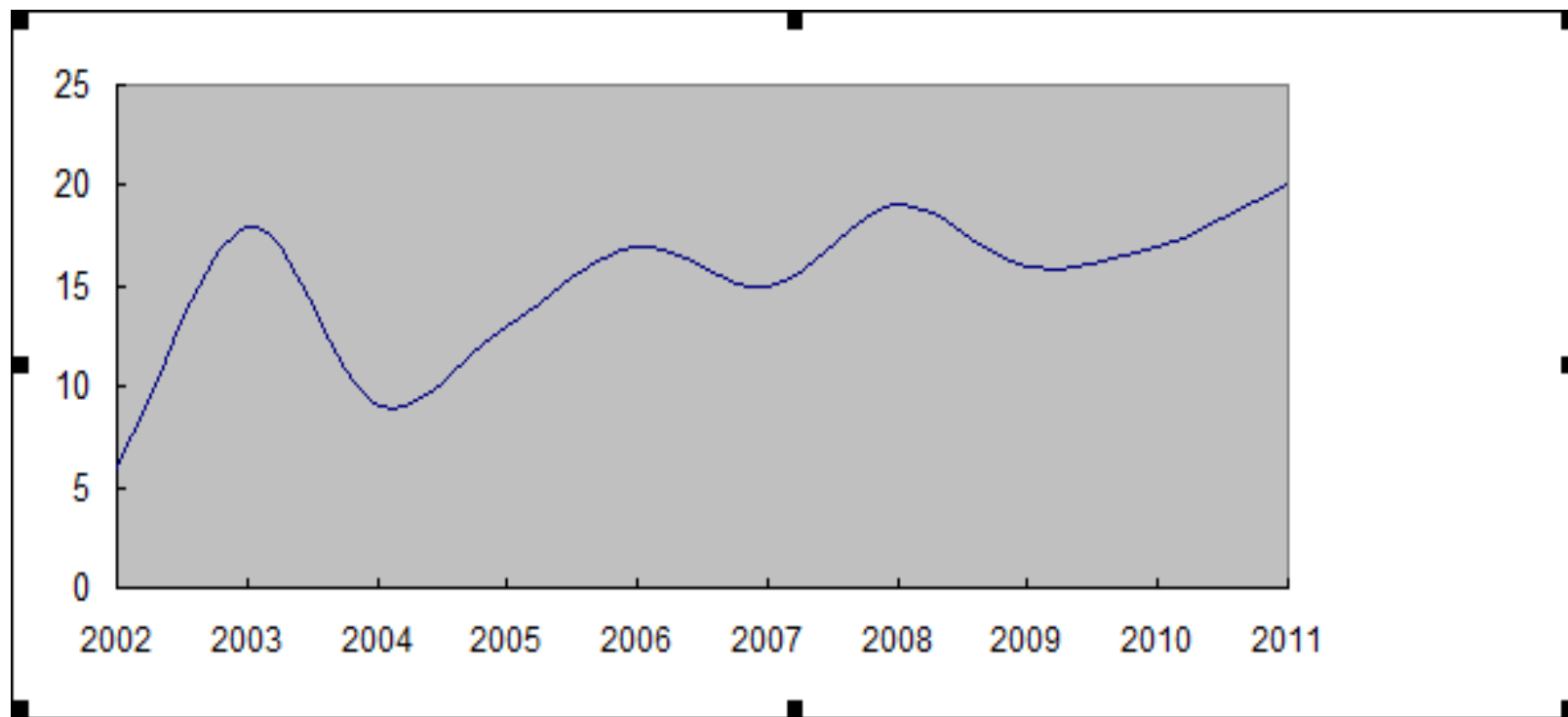
名称: Analysis\_11\_19\_2011\_121945.xls  
类型: Microsoft Excel 工作表, 4.19 KB  
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Research Topic "PVA to treat of wastewater" > references (852) > remove 14 references (838)

## REFERENCES

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- ☐ Database

Research Topic

Examples:

The effect of antibiotic residues on dairy products

Photocyanation of aromatic compounds

Refine

限定工具

- Research advances in anaerobic biochemical treatment of printing and dyeing wastewater**  
By Chu, Hong-ling; Pei, Hao-tian; Wang, Wei-zhong; Meng, Rui; Zhang, Bao-jun  
From *Journal of Environmental Science and Health: Part A* 21(4), 19-25. | Language: Chinese, Database: CAPLUS  
... progress of using high-efficient anaerobic biol. technol. to treat dyeing wastewater recently, including the application of high-efficient anaerobic bioreactors and hydrolysis acidification reactor with ... conditions and influencing factors of using high-efficient anaerobic bioreactors and hydrolysis acidification reactor with ... reactor, anaerobic fluidized bed and anaerobic IC reactor etc. In addn., it also introduces the application status of high-efficient anaerobic bioreactors and PVA degrading bacteria in printing and dyeing wastewater.
- Structure and property of polyvinyl alcohol /precipitated silica composite hydrogels for microorganism immobilization**  
By Zhang, Yi; Ye, Lin  
From *Composites, Part B: Engineering* (2014), 56, 749-755. | Language: English, Database: CAPLUS  
Polyvinyl alc. (PVA) hydrogel filled with pptd. silica (PSi) was prepd. by chem. crosslinking in the satd. boric acid soln. The structure and property of the composite hydrogel was studied. It was found that PSi could accelerate the crosslinking reaction of PVA, and the intermol. bonding of PVA/PSi composite was confirmed. Effect of PSi on reactive kinetics of PVA hydrogel was investigated. The tensile strength of PVA hydrogel increased with PSi content. Proper content of PSi could also enhance the permeability and swelling property, resulting in the improvement of the capillary water abs...
- Method and device for separating and recycling methyl acetate and methanol from alcoholysis wastewater in polyvinyl alcohol production**  
By Li, Hong; Gao, Xin; Dong, Wenwei; Li, Xingang  
From *Faming Zhuanli Shenqing* (2013), CN 103373919 A 20131030. | Language: Chinese, Database: CAPLUS

## REFERENCES ?

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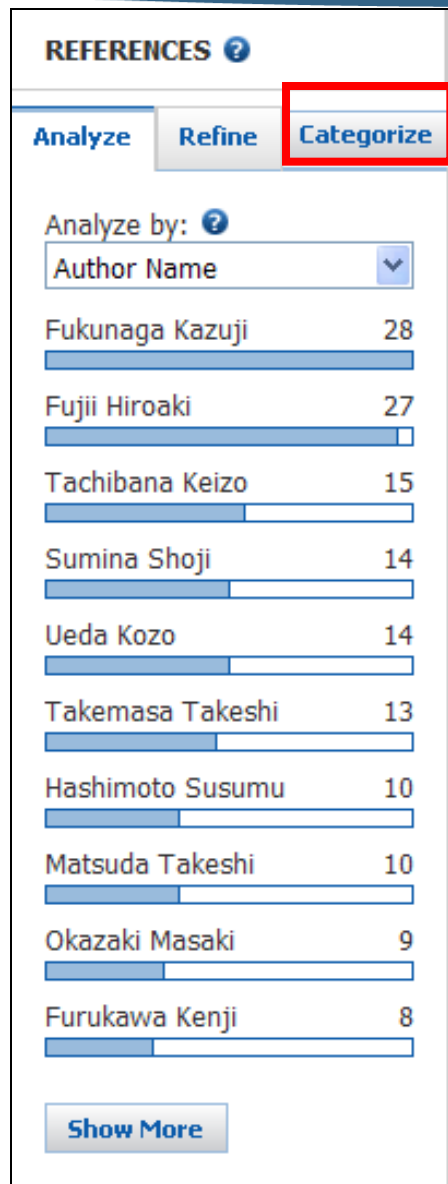
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- ☐ Company Name
- ☒ Document Type
- ☐ Publication Year
- ☐ Language
- ☐ Database

Document Type(s)

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- ☐ Book
- ☐ Clinical Trial
- ☐ Commentary
- ☐ Conference
- ☐ Dissertation
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Categorize系统分类功能，基于Index Term，根据大学科方向对文献进行自动分类。

## 一级目录

## 二级目录

## 三级目录

**Categorize** ⓘ

1. Select a heading and category.      2. Select index terms of interest.

Category Heading ⓘ	Category ⓘ	Index Terms ⓘ	Selected Terms ⓘ
All	<b>Polymers (316)</b>	<b>1 2 3 4</b>	Click 'x' to remove the category from 'Selected Terms'
Technology	Modifiers & additives (196)	<b>Select All   Deselect All</b>	<b>x Polymer chemistry &gt; Polymers (1 Terms)</b>
<b>Polymer chemistry</b>	Applications & phenomena (29)	<input checked="" type="checkbox"/> Polyvinyl alcohol 635	
General chemistry	Processes & apparatus (29)	<input type="checkbox"/> Sodium alginate 67	
Environmental chemistry	Miscellaneous substances (49)	<input type="checkbox"/> Poly(vinyl acetate) 54	
Physical chemistry		<input type="checkbox"/> Polyethylene glycol 46	
Biology		<input type="checkbox"/> Polyacrylamide 40	
Biotechnology		<input type="checkbox"/> Polyoxyalkylenes 38	
Synthetic chemistry		<input type="checkbox"/> Starch 38	
Genetics & protein chemistry		<input type="checkbox"/> Polyethylene 31	
Catalysis		<input type="checkbox"/> Cellulose 24	
Analytical chemistry		<input type="checkbox"/> Polypropylene 23	
		<input type="checkbox"/> Polyvinyl alcohol, Modified 23	
		<input type="checkbox"/> Polymers 21	
		<input type="checkbox"/> Polyurethanes 21	
		<input type="checkbox"/> Polyamides 18	
		<input type="checkbox"/> Polysulfones 18	

Polymer chemistry > Polymers > 1 Index Term(s) Selected

**可以选择感兴趣的内容，用于文献的筛选**

OK Cancel

Explore▼Saved Searches▼SciPlanner

Research Topic "PVA to wastewater of treat" > references (852) > refine "Patents only" (451)

REFERENCES ?

Get Substance

Create Keep Me Posted Alert

Send to SciPlanner

AnalyzeRefineCategorize

Analyze by: ?

Author Name

Fukunaga Kazuji28

Fujii Hiroaki27

Tachibana Keizo15

Sumina Shoji14

Ueda Kozo14

Takemasa Takeshi13

Hashimoto Susumu10

Matsuda Takeshi10

Okazaki Masaki9

Sort by: Access

1. Re

By Ch

From

2. St

By Zh

From

3. Method and device for separating and recycling methyl acetate and methanol from alcoholysis wastewater in polyvinyl alcohol production

Full Text

By Li, Hong; Gao, Xin; Dong, Wenwei; Li, Xingang

From Faming Zhuanli Shengqing (2013), CN 103373919 A 20131030. | Language: Chinese, Database: CAPLUS

NEW Display Options

Page: 1 of 43

being wastewater

Full Text

APLUS

erobic biol. technol. to treat dyeing wastewater recently, including the application

using high-e fficient anaerobic bioreactors and hydrolysis acidification reactor with

aerobic IC reactor etc. In addn., it also introduces the application status of high-

being wastewater.

hydrogels for microorganism immobilization

Full Text

PLUS

crosslinking in the satd. boric acid soln. The structure and property of the composite

g reaction of PVA, and the intermol. bonding of PVA/PSi composite was confirmed.

ile strength of PVA hydrogel increased with PSi content. Proper content of PSi could

also enhance the permeability and swelling property, resulting in the improvement of the capillary water abs...

结果保存

Save: 将检索结果保存到SFS系统内部

Export: 将检索结果保存到桌面



**Export** ⓘ

\* Required

Export:	For:	Details:
<p><input type="radio"/> All</p> <p><input checked="" type="radio"/> Selected</p> <p><input type="radio"/> Range</p> <p><input type="text"/></p> <p>Example: 2-20</p>	<p><b>Citation Manager</b></p> <p><input type="radio"/> Citation export format (*.ris)</p> <p><input type="radio"/> Quoted Format (*.txt)</p> <p><input type="radio"/> Tagged Format (*.txt)</p> <p><b>Offline review</b></p> <p><input checked="" type="radio"/> Portable Document Format (*.pdf)</p> <p><input type="radio"/> Rich Text Format (*.rtf)</p> <p><input type="radio"/> Answer Keys (*.txt)</p> <p><b>Saving locally</b></p> <p><input type="radio"/> Answer Key eXchange (*.akx)</p>	<p><b>File Name:</b> *</p> <p><input type="text" value="Reference_11_16_2011_181542"/></p> <p><b>Format:</b></p> <p><input type="radio"/> Summary without abstracts</p> <p><input type="radio"/> Summary with partial abstracts</p> <p><input checked="" type="radio"/> Summary with full abstracts</p> <p><input type="radio"/> Detail (full record)</p> <p><b>Include:</b></p> <p><input type="checkbox"/> Task History</p> <p><input type="checkbox"/> Tags</p> <p><input type="checkbox"/> Comments</p>

**Export** **Cancel**

1. 保存成RIS格式，用于EndNote的文献管理工具。
2. 保存成PDF、RTF格式，用于脱机浏览。选择summary可保存500条记录，选择detail可保存100条记录。



## References

Get  
SubstancesGet  
ReactionsGet  
Related

Tools ▾

701 References 3 Selected

Save Print Export

9 duplicates were removed. To remove duplicates automatically, visit [Preferences](#).[Select All](#) [Deselect All](#)Sort by: Accession Number ▾

Answers per Page [20] 1 2 3 4 5 6 ... 36 ▶

☒ 1. Project of leather wastewater treatment by UASB and two-stage SBR

By Jiang, Qingyuan

From Guangdong Huagong (2011), 38(6), 160-161, 144. Language: Chinese, Database: CAPLUS

UASB and two stage SBR was adopted to treat leather wastewater. With influent COD treatment, the wastewater reached the I class std. of "Integrated Wastewater Discharge Standard" were 99 %, 98.6 % and 97.4 %.

保存结果

Saved Answer Sets  
KMP Alert ResultsHelp  
History  
Preferences

Analysis

Refine

Analyze by: ⓘ

Author Name ▾

[Click here to view only those](#)

## Save This Answer Set ⓘ

\* Required

## Save:

- ☐ All answers
- ☒ Only selected answers

## Title: \*

PVA wastewater treat

## Description:

OK

Cancel

Explore ▼

Saved Searches ▼

SciPlanner

Author Name "zhu, q" > references (767)



## REFERENCES

Research Topic

Author Name

Company Name

Document Identifier

Journal

Patent

Tags



## SUBSTANCES

Chemical Structure

### REFERENCES: AUTHOR NAME ?

Last Name \*

chu

First

|

Middle



Look for alternate spellings of the last name

Search

2 of 365 Author Name Candidates Selected

	References
<input type="checkbox"/> CHU	6
<input checked="" type="checkbox"/> <b>CHU L</b>	155
<input type="checkbox"/> CHU L A	1
<input type="checkbox"/> CHU L C	42
<input type="checkbox"/> CHU L C Y	1
<input type="checkbox"/> CHU L D	2
<input type="checkbox"/> CHU L E	1
<input type="checkbox"/> CHU L F	4
<input type="checkbox"/> CHU L H	17
<input type="checkbox"/> CHU L H L	1
<input type="checkbox"/> CHU L H X	1
<input type="checkbox"/> CHU L J	1
<input type="checkbox"/> CHU L K	26
<input type="checkbox"/> CHU L L	35
<input type="checkbox"/> CHU L L H	4

**CHU L,  
CHU L Y,  
CHU LIANG YIN,  
CHU LIANGYIN**

KMP-跟踪文献

REFERENCES

Analyze

Refine

Categorize

Analyze by:

Author Name

Chu L

155

Holt S C

21

Chu L Y

20

Ebersole J L

11

Misra T K

11

Abstreiter G

8

Silver S

8

Bohm G

7

Chan P H

7

Get Substances

Get Reactions

Get Related Citations

Get Full Text

Tools

Sort by: Accession Number

0 of 175 References Selected

Page: 1 of 9

1. Effect of capillary pressure on phase behavior in tight rocks and shales

By Nojabaei, B.; Johns, R. T.; **Chu, L.**

From SPE Reservoir Evaluation & Engineering (2013), 16(3), 281-289. | Language: English, Database: CAPLUS

Phase behavior is important in the calcn. of hydrocarbons in place and in the flow of phases through the rocks. Pore sizes can be on the order of nanometers for shale and tight-r ock formations. Such small pores can affect the phase behavior of in-s itu oil and gas because of increased capillary pressure. Not accounting for increased capillary pressure in small pores can lead to inaccurate ests. of ultimate recovery, and of satn. pressures. In this paper, capillary pressure is coupled with phase equil. equations, and the resulting system of nonlinear fugacity equations is solved to present a...

2. Thermo-R esponsive Polyethersulfone Composite Membranes Blended with Poly(N-i sopropylacrylamide) Nanogels

By Wang, G.; Xie, R.; Ju, X.-J.; **Chu, L.-Y.**

From Chemical Engineering & Technology (2012), 35(11), 2015-2022. | Language: English, Database: CAPLUS

Thermo-r esponsive composite polyethersulfone (PES) membranes blended with monodisperse poly(N-i sopropylacrylamide) (PNIPAM) nanogels were prepd. from blends of PES soln. and PNIPAM nanogels by phase inversion. The monodisperse and spherical PNIPAM thermo-r esponsive nanogels were synthesized by pptn. polymn. The blended PNIPAM nanogels did not affect the formation of the finger-l ike pore structure of the PES membrane but resulted in microporous structures. The water flux across the composite membrane at temps. above the lower crit. soln. temp. (LCST) of PNIPAM was much higher than that below...

3. Identification of tumor stem-l ike cells in a mouse myeloma cell line

By Dou, J.; Li, Y.; Zhao, F.; Hu, W.; Wen, P.; Tang, Q.; **Chu, L.**; Wang, Y.; Cao, M.; Jiang, C.; et al

From Cellular and Molecular Biology (Sarreguemines, France, Online) (2009), 55(Suppl.), OL1151-OL1160. | Language: English, Database: CAPLUS

We used colonv formation assay in the soft agar media or the serum-f ree media. the methods of identifying BrdU-l abel-r etaining cells and the SP cells as

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Display Options

Create Keep Me Posted Profile ?

\* Required

Title: \*

Description:

Characters Remaining: 1024

Duration

Expires On: Nov 15, 2014 [Change](#)

Frequency

Send updates once every 

Week

☐ Exclude previously retrieved references.

Create

Cancel

Search:

Explore references by author name:

Candidates Selected:

CHU, L

CHU, L Y

## KMP: 对关注的领域随时保持关注

# 文献检索小结

- 检索主题时用介词连接检索词。
- 检索结果项，应尽量选择含“concepts”和“associated with”项。
- 可通过Refine和Analyze项缩小检索结果范围。
- 使用Categorize可将检索结果按不同主题分类。
- 作者名检索时姓写全，名写首字母，得到文献后依Organization分析



# 检索方式

文献

物质

反应

## REFERENCES

Research Topic  
Author Name  
Company Name  
Document Identifier  
Journal  
Patent  
Tags

## SUBSTANCES

Chemical Structure  
Markush  
Molecular Formula  
Property  
Substance Identifier

## REACTIONS

Reaction Structure

## SUBSTANCES: SUBSTANCE IDENTIFIER ?

Enter one per line.

Examples:

50-00-0

999815

Acetaminophen

Search

- 五种物质检索方式:
- 结构检索
- Markush检索
- 分子式检索
- 性质
- 分子标示符检索



# 1. 标示符检索

REFERENCES

Research Topic

Author Name

Company Name

Document Identifier

Journal

Patent

Tags

SUBSTANCES

Chemical Structure

Markush

Molecular Formula

Property

Substance Identifier

REACTIONS

Reaction Structure

SUBSTANCES: SUBSTANCE IDENTIFIER ?

Vinyl alcohol

Enter one per line.  
Examples:  
50-00-0  
999815  
Acetaminophen

Search

可以通过输入物质的名称、CA号、俗名、商品名进行检索

规则：1. 每次最多可输入25个物质名称，每行1个。

# Scifinder中的物质信息

0 of 1 Substance Selected

References

~4646

Commercial Sources

Reactions

OH

$C_2H_4O$   
Ethenol

▶ **Key Physical Properties**

Regulatory Information

Spectra

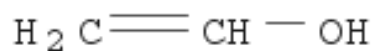
Experimental Properties

Regulatory Information

谱图

化学实验性质

详细列出“乙烯醇”的文献数量、化学反应、销售厂商、法规信息



**CAS Registry Number:** 557-75-5

View Substance Detail

Explore by Structure ▶

Synthesize this...

Get Reactions where Substance is a ▶

Get Commercial Sources

Get Regulatory Information

Get References

Export as Image

Send to SciPlanner

转入结构检索  
或反应检索

在SciFinder中，鼠标滑过物质，可以打开物质的标准菜单，从而获得与物质相关的所有内容

CAS Registry Number 557-75-5

~4,646   ~5 

**C<sub>2</sub> H<sub>4</sub> O**

Ethenol

**Molecular Weight**

44.05

**Melting Point (Experimental)**

Value: 9 °C

**Boiling Point (Experimental)**

Value: 101 °C

**Density (Predicted)**

Value: 0.813±0.06 g/cm<sup>3</sup> | Condition: Temp: 20 °C Press: 760 Torr

**pKa (Predicted)**

Value: 10.50±0.50 | Condition: Most Acidic Temp: 25 °C

**Other Names**

Vinyl alcohol (8CI)

Acetaldehyde enol

Hydroxyethene

Hydroxyethylene

CAS号

分子式

结构式

分子量

熔点

沸点

化学名

别名

## 物质来源，相关文献篇数和类型

CAS Role	Patents	Nonpatents	Nonspecific Derivatives from Patents	Nonspecific Derivatives from Nonpatents
Analytical Study	✓	✓	✓	✓
Biological Study	✓	✓	✓	✓
Combinatorial Study		✓		
Formation, Nonpreparative	✓	✓		✓
Miscellaneous	✓			
Occurrence	✓	✓	✓	
Preparation	✓	✓	✓	✓
Process	✓	✓	✓	✓
Properties	✓	✓	✓	✓
Prophetic in Patents			✓	
Reactant or Reagent	✓	✓	✓	✓
Uses	✓	✓	✓	✓

按照**CAS Role**分类的专利、非专利文献列表。对某类文献感兴趣，仅需点击交叉处的 即可方便快捷地获取。

# 预测数据与实验数据

Biological Properties	Value	Condition	Note	Top
Bioconcentration Factor	1.79	pH 1 Temp: 25 °C	(15)	
Bioconcentration Factor	1.79	pH 2 Temp: 25 °C	(15)	
Bioconcentration Factor	1.79	pH 3 Temp: 25 °C	(15)	
Bioconcentration Factor	1.79	pH 4 Temp: 25 °C	(15)	
Bioconcentration Factor	1.79	pH 5 Temp: 25 °C	(15)	
Bioconcentration Factor	1.79	pH 6 Temp: 25 °C	(15)	
Bioconcentration Factor	1.79	pH 7 Temp: 25 °C	(15)	
Bioconcentration Factor	1.78	pH 8 Temp: 25 °C	(15)	
Bioconcentration Factor	1.73	pH 9 Temp: 25 °C	(15)	
Bioconcentration Factor	1.36	pH 10 Temp: 25 °C	(15)	

Chemical Properties	Value	Condition	Note	Top
Koc	52.8	pH 1 Temp: 25 °C	(15)	
Koc	52.8	pH 2 Temp: 25 °C	(15)	
Koc	52.8	pH 3 Temp: 25 °C	(15)	
Koc	52.8	pH 4 Temp: 25 °C	(15)	
Koc	52.8	pH 5 Temp: 25 °C	(15)	
Koc	52.8	pH 6 Temp: 25 °C	(15)	
Koc	52.8	pH 7 Temp: 25 °C	(15)	
Koc	52.6	pH 8 Temp: 25 °C	(15)	
Koc	51.2	pH 9 Temp: 25 °C	(15)	
Koc	40.1	pH 10 Temp: 25 °C	(15)	
logD	0.63	pH 1 Temp: 25 °C	(15)	

## 2. 性质检索

Explore ▼ Saved Searches ▼ SciPlanner

Substance Identifier "Melamine " > substances (1) > 108-78-1 > Raman Spectrum (RM857)

**REFERENCES**

- Research Topic
- Author Name
- Company Name
- Document Identifier
- Journal
- Patent
- Tags

**SUBSTANCES**

- Chemical Structure
- Markush
- Molecular Formula
- Property**
- Substance Identifier

**REACTIONS**

- Reaction Structure

**SUBSTANCES: PROPERTY ?**

Select the category and enter an appropriate value or range.

☒ Experimental

Tensile Strength (MPa) Value or Range

>40

Examples: Individual value as 44, range as 25-35, or open ended range as >125 or <125

☐ Predicted

Select Property... Value or Range

Examples: Individual value as 44, range as 25-35, or open ended range as >125 or <125

**Search**

寻找比PVC的拉伸强度大的有机材料

Explore ▾

Saved Searches ▾

SciPlanner

Save

Print

Export

Property "Experimental - Tensile Strengt..." > substances (19898)

SUBSTANCES ?

Get References

Get Reactions

Get Commercial Sources

Tools ▾

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Analyze

Refine

Sort by: CAS Registry Number ▾

Answers per Page [15] View: ▮ ▮ ▮

0 of 19898 Substances Selected

Page: 1 of 1327

Refine by: ?

☐ Chemical Structure
 ☐ Isotope-Containing
 ☒ Metal-Containing
 ☐ Commercial Availability
 ☐ Property Availability
 ☐ Property Value
 ☐ Reference Availability
 ☐ Atom Attachment

Select One:

☐ Include only metal-containing substances
 ☒ Exclude metal-containing substances

Refine

1. Substance Detail

1447928-37-1

~1

Component	Component Percent
Mg	90
Zn	8.9
Er	1.4

Er . Mg . Zn

Magnesium alloy, base, Mg 90,Zn 8.9,Er 1.4

Experimental Properties

2. Substance Detail

1447928-36-0

~1

Component	Component Percent
Mg	93
Zn	5.9
Er	1

Er . Mg . Zn

Magnesium alloy, base, Mg 93,Zn 5.9,Er 1

Experimental Properties

3. Substance Detail

1447830-14-9

~3

Component	Component Percent
Mg	95
Zn	3.9
Gd	1.6

Gd . Mg . Zn

Magnesium alloy, base, Mg 95,Zn 3.9,Gd 1.6

Experimental Properties

4. Substance Detail

1447803-60-2

~1

Component	Component Percent
Mg	93
Y	4
Mn	1.2
Zn	1
Ca	0.9

Ca . Mg . Mn . Y . Zn

Magnesium alloy, base, Mg 93,Y 4,Mn 1.2,Zn 1,Ca 0.9

Experimental Properties

通过Refine快速排除具有某类性质的物质



Explore ▾

Saved Searches ▾

SciPlanner

Save

Print

Export

Property "Experimental - Tensile Strengt..." > substances (19898) > refine "exclude metal-containing" (2284)

SUBSTANCES ?

Get References

Get Reactions

Get Commercial Sources

Tools ▾

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Send to SciPlanner

Analyze Refine

Sort by: CAS Registry Number ▾ ↓

Answers per Page [15] View: ▮ ▮ ▮

0 of 2284 Substances Selected

Page: 1 of 153

Analyze by: ?

Substance Role ▾

Properties 2211

Preparation 1952

Uses 881

Process 745

Reactant or Reagent 364

Biological Study 240

Analytical Study 196

Miscellaneous 187

Occurrence 143

Formation, Nonpreparative 141

Show More

1. Substance Detail  
1356571-12-4

~2

Substance  
Image  
Cannot Be  
Displayed  
1356571-12-

Unspecified  
Iron alloy, base, (X50MnAl25-5)

Experimental Properties

2. Substance Detail  
1346871-45-1

~2

Substance  
Image  
Cannot Be  
Displayed  
1346871-45-

Editor Note: A two-part epoxy resin adhesive (Henkel Adhesives)

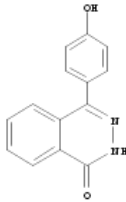
Unspecified  
Hysol EA 9380.05

Experimental Properties

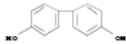
3. Substance Detail  
1339943-97-3

~1

152594-70-2  
C<sub>14</sub> H<sub>10</sub> N<sub>2</sub> O<sub>2</sub>



92-88-6  
C<sub>12</sub> H<sub>10</sub> O<sub>2</sub>



90-98-2  
C<sub>10</sub> H<sub>8</sub> Cl<sub>2</sub> O

4. Substance Detail  
1332830-93-9

~1

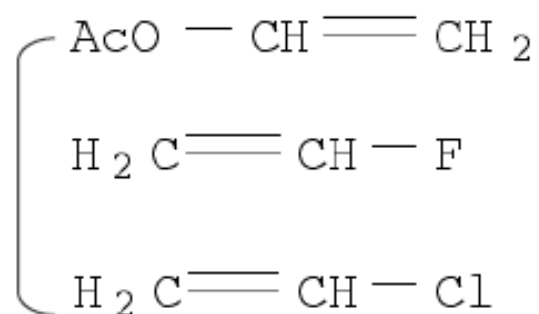
Substance  
Image  
Cannot Be  
Displayed  
1332830-93-

Unspecified  
Iron alloy, base, (04Kh19N5G11M2AFB)

Experimental Properties

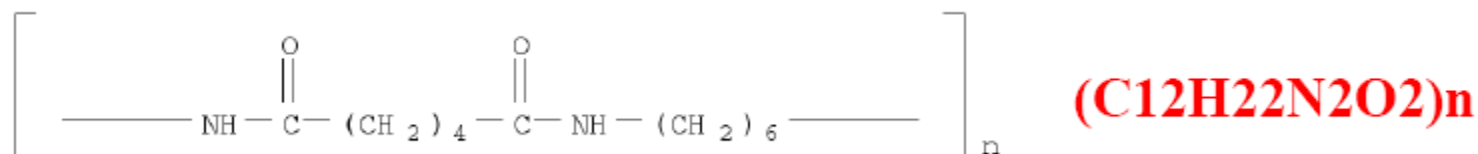
### 3. 分子式检索

(1) 只知道起始原料-聚合物括号表示，组分间用点分开，括号外用x表示。



例:  $(\text{C}_4\text{H}_6\text{O}_2.\text{C}_2\text{H}_3\text{Cl}.\text{C}_2\text{H}_3\text{F})_x$

(2) 知道结构重复单元-外括号用n表示



(3) 无机盐：按照混合物的方法检，使用 **Dot-disconnect** 将不同组分连接

例：H<sub>2</sub>SO<sub>4</sub>.Na

分子式输入规则-Hill排序：

- 1) 不含碳的化合物，分子式按元素符号的字母顺序排列。
- 2) 含碳的化合物，则“C”在前。
- 3) 如有“H”则紧随其后，其他元素符号按照字母顺序排列在氢后。

## 4. 结构式检索

只了解一个化学结构式，怎样获得具体的物质信息？

Substance Identifier "Vinyl alcohol" > substances (1)

**REFERENCES**

- Research Topic
- Author Name
- Company Name
- Document Identifier
- Journal
- Patent
- Tags

**SUBSTANCES**

- Chemical Structure**
- Markush
- Molecular Formula
- Property
- Substance Identifier

**REACTIONS**

- Reaction Structure

**SUBSTANCES: CHEMICAL STRUCTURE ?**

Structure Editor:

Java Non-Java

Click to Edit

Search Type:

- ☐ Exact Structure
- ☒ Substructure
- ☐ Similarity

Import CXF

**Search**

Advanced Search ☐ Allow

**Characteristics**

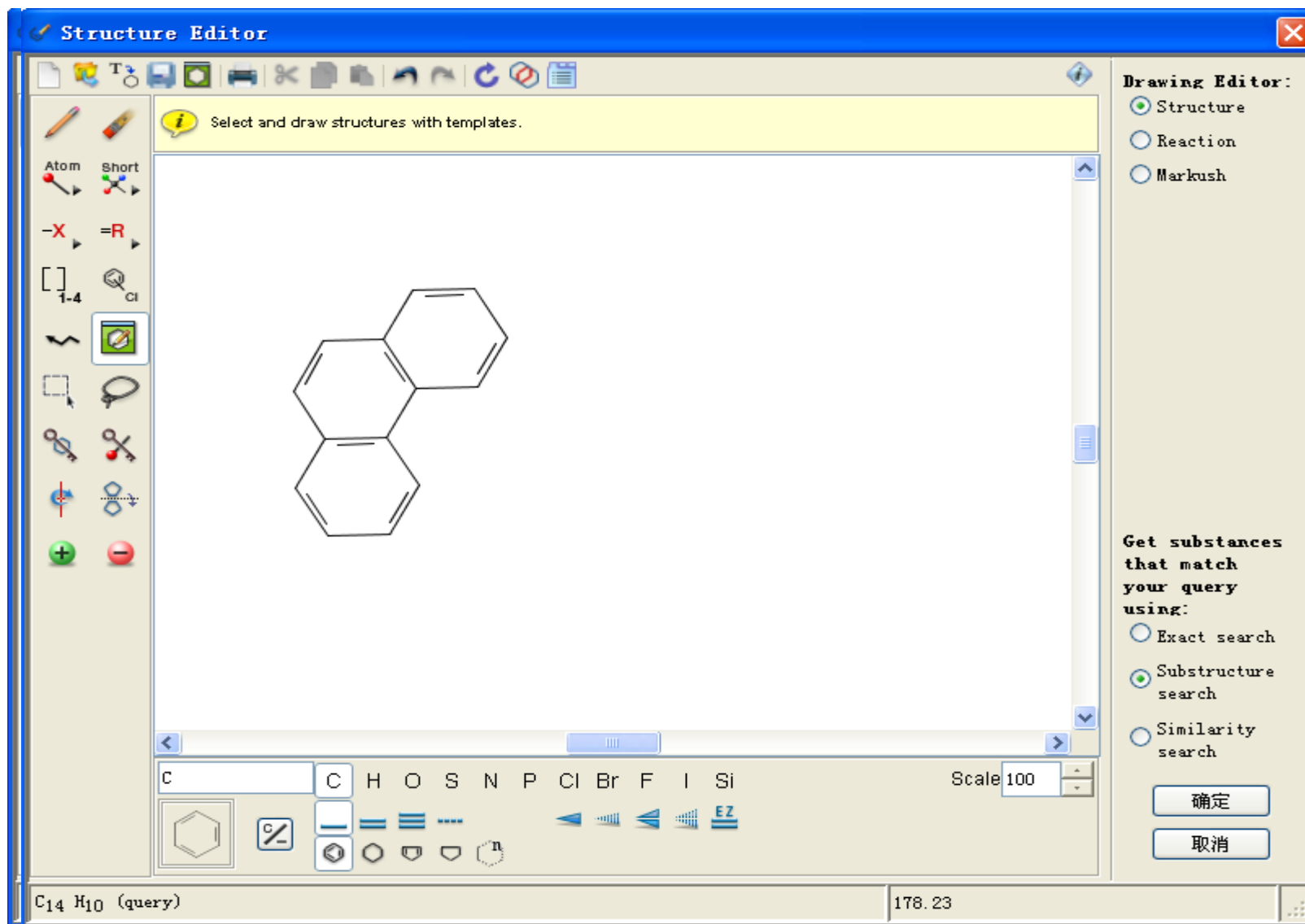
- ☐ Single component
- ☐ Commercially available
- ☐ Included in references

**Classes**

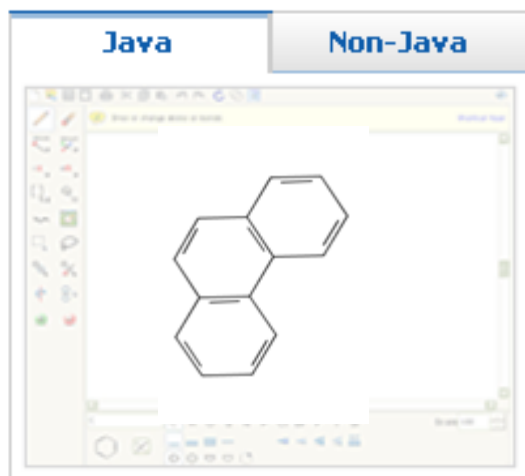
- ☐ Alloys
- ☐ Coordination compounds
- ☐ Incompletely defined
- ☐ Mixtures
- ☐ Polymers
- ☐ Organics, and others not listed

**Studies**

- ☐ Analytical
- ☐ Biological
- ☐ Preparation
- ☐ Reactant or reagent



Structure Editor:



Import CXF

Search

Advanced Search ☐ Always Show

Search Type:

- ☒ Exact Structure
- ☐ Substructure
- ☐ Similarity

☐ Show precision analysis

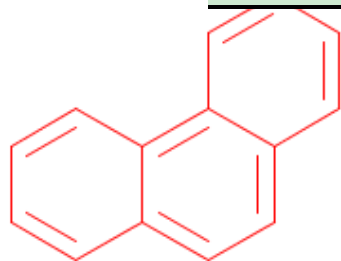
三种结构检索方式：  
精确结构检索  
亚结构检索  
相似结构检索

# 精确结构检索

551 Substances 0 Selected  
 Select All Deselect All Sort by: CAS Registry Number

- ☐ 1. Substance Detail  
 1336891-83-8  
 (Component: 85-01-8)

CAS Registry Number  
 Number of References  
 Molecular Weight  
 Molecular Formula



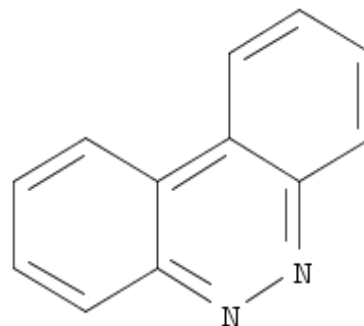
• 3 K

C<sub>14</sub> H<sub>10</sub> · 3 K

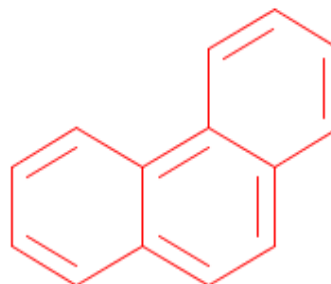
Phenanthrene, potassium salt (1:3)

- ~1 References
- Reactions
- Commercial Sources

230-17-1  
 C<sub>12</sub> H<sub>8</sub> N<sub>2</sub>

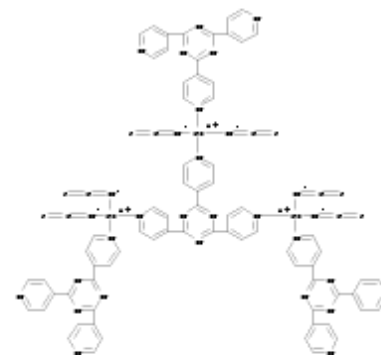


85-01-8  
 C<sub>14</sub> H<sub>10</sub>

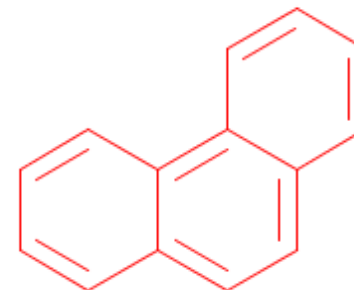


$3^+ \text{N} - (\text{CH}_2)_9 - \text{Me}$

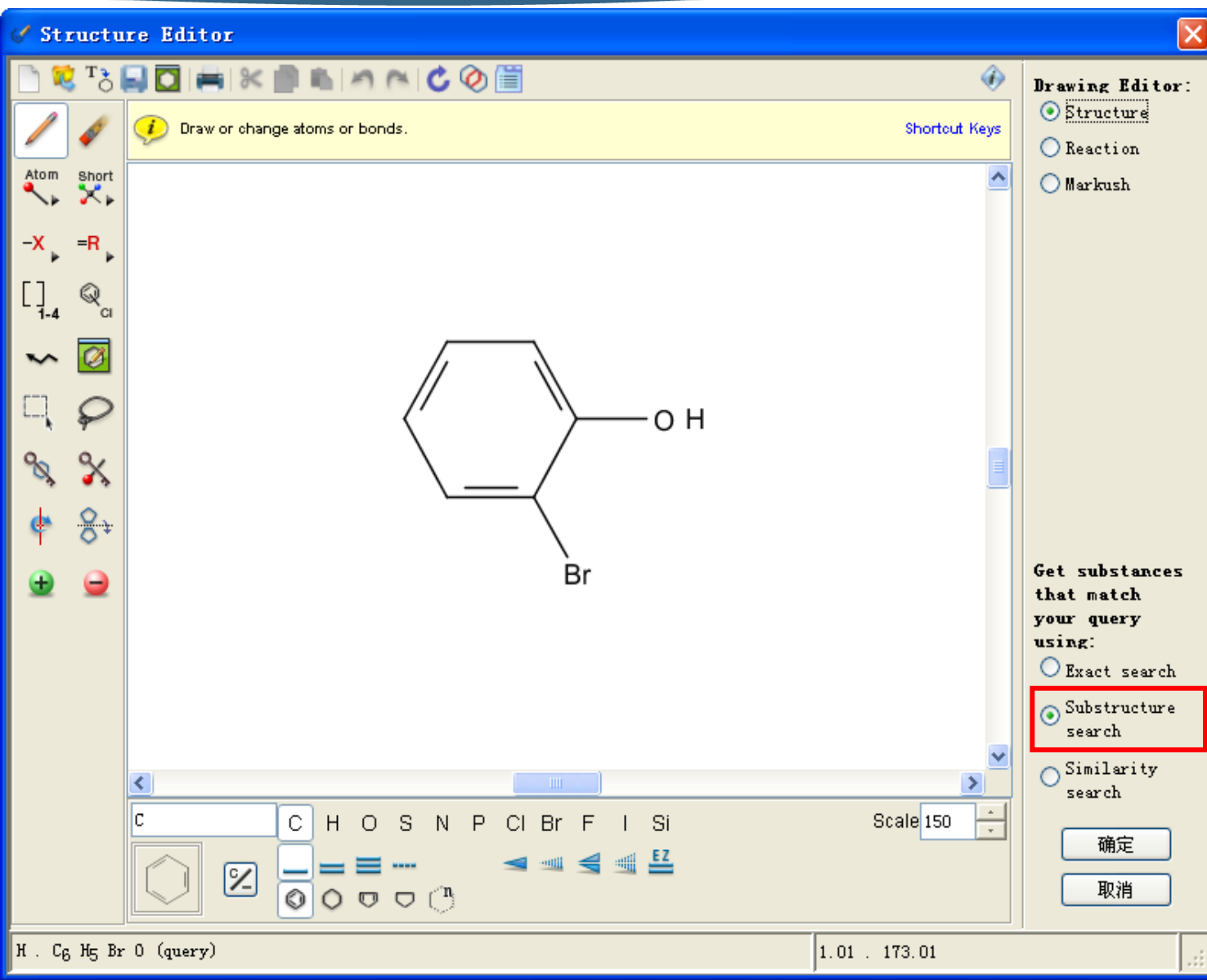
1252019-62-7  
 C<sub>78</sub> H<sub>48</sub> Co<sub>3</sub> N<sub>30</sub> S<sub>6</sub>



85-01-8  
 C<sub>14</sub> H<sub>10</sub>



# 亚结构检索



亚结构检索  
查找特定母  
核结构的一  
类物质



## REFERENCES

Research Topic  
Author Name  
Company Name  
Document Identifier  
Journal  
Patent  
Tags

## SUBSTANCES

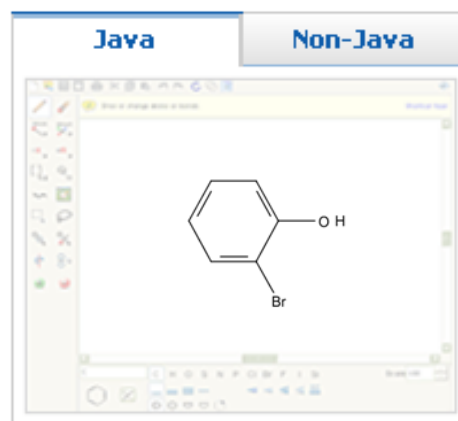
Chemical Structure  
Markush  
Molecular Formula  
Property  
Substance Identifier

## REACTIONS

Reaction Structure

## SUBSTANCES: CHEMICAL STRUCTURE ?

Structure Editor:



Search Type:

- ☐ Exact Structure  
☒ Substructure  
☐ Similarity

☐ Show precision analysis

Import CXF

Search

Advanced Search

获得与物质有关的  
文献、反应、商品  
信息。

Get References

Get Reactions

Get Commercial Sources

Tools

Create Keep Me Posted Alert

Send to SciPlanner

Sort by: CAS Registry Number

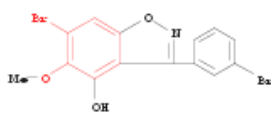
NEW Display Options

0 of 413784 Substances Selected

Page: 1 of 27586

1. Substance Detail

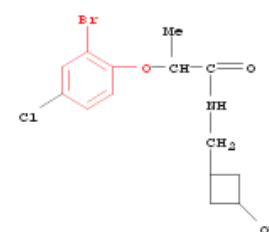
1472760-76-1



$C_{14}H_9Br_2NO_3$   
 1, 2-B enzisoxazol-4 -o l, 6-b romo-3 -  
 ( 3-b romophenyl) -5 -m ethoxy-

2. Substance Detail

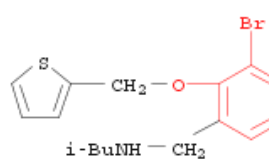
1472755-77-3



$C_{14}H_{17}BrClNO_3$   
 Propanamide, 2-( 2-b romo-4 -  
 chlorophenoxy) - N[ (3-h ydroxycyclobutyl)  
 m ethyl] -

3. Substance Detail

1472754-80-5



$C_{16}H_{20}BrNOS$   
 Benzenemethanamine, 3-b romo- N( 2-  
 methylpropyl) -2 -( 2-t hienylmethoxy) -

# 物质检索分析限定工具

**Analyze** **Refine**

Sample Analysis: ?  
Substance Role ▾

Preparation  
▬

Biological Study  
▬

Uses  
▬

Prophetic in Patents  
▬

Reactant or Reagent  
▬

Properties  
▬

Process  
▬

Analytical Study  
▬

Combinatorial Study  
▬

Occurrence  
▬

Show More

**Analyze** **Refine**

Refine by: ?

☒ Chemical Structure

☐ Isotope-Containing

☐ Metal-Containing

☐ Commercial Availability

☐ Property Availability

☐ Property Value

☐ Reference Availability

☐ Atom Attachment

七种限定功能:

- 1 结构修饰
- 2 同位素包含
- 3 金属包含
- 4 商业来源
- 5 理化性质
- 6 文献来源
- 7 原子附属性

Analysis

Refine

Refine by: 

- ☐ Chemical Structure
- ☐ Isotope-Containing
- ☐ Metal-Containing
- ☐ Commercial
- ☐ Property Available
- ☒ Property Value
- ☐ Reference Available
- ☐ Atom Attachment

可精选物质的熔点、  
沸点、PH值等信息

Select a property on the left, and specify values or limits on the right. Repeat for multiple properties.

Properties - 1 selected

Experimental

- ☐ Boiling Point
- ☐ Melting Point

Predicted

- ☐ H Acceptors
- ☐ H Donors
- ☐ Molecular Weight
- ☐ logP
- ☐ Freely Rotatable Bonds
- ☐ Bioconcentration Factor
- ☐ Boiling Point
- ☐ Density
- ☐ Enthalpy of Vaporization
- ☐ Flash Point
- ☐ H Acceptor/Donor Sum
- ☐ Koc
- ☐ logD
- ☐ Mass Intrinsic Solubility

Values - Predicted pKa

Specify range:

0.0

to

14.0

Min:

Max:

Limit by:

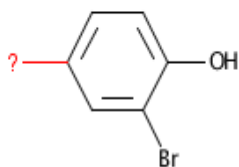
- ☐ Most acidic
- ☐ Most basic

Analysis

Refine

Refine by: ⓘ

- ☒ Chemical Structure
- ☐ Isotope-Containing
- ☐ Metal-Containing
- ☐ Commercial Availability
- ☐ Property Availability
- ☐ Property Value
- ☐ Reference Availability
- ☐ Atom Attachment

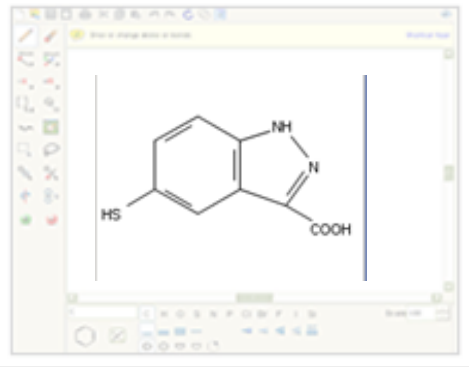


精炼指定处  
(问号处)所  
带的元素

# 相似结构检索

Structure Editor:

**Java** **Non-Java**



Search Type:

☒ Exact Structure


☐ Substructure

☐ Similarity

☐ Show precision analysis

Import CXF

**Search**



 Advanced Search

想要合成一种设计的新物质

SciFinder®

Welcome lu li | Sign Out

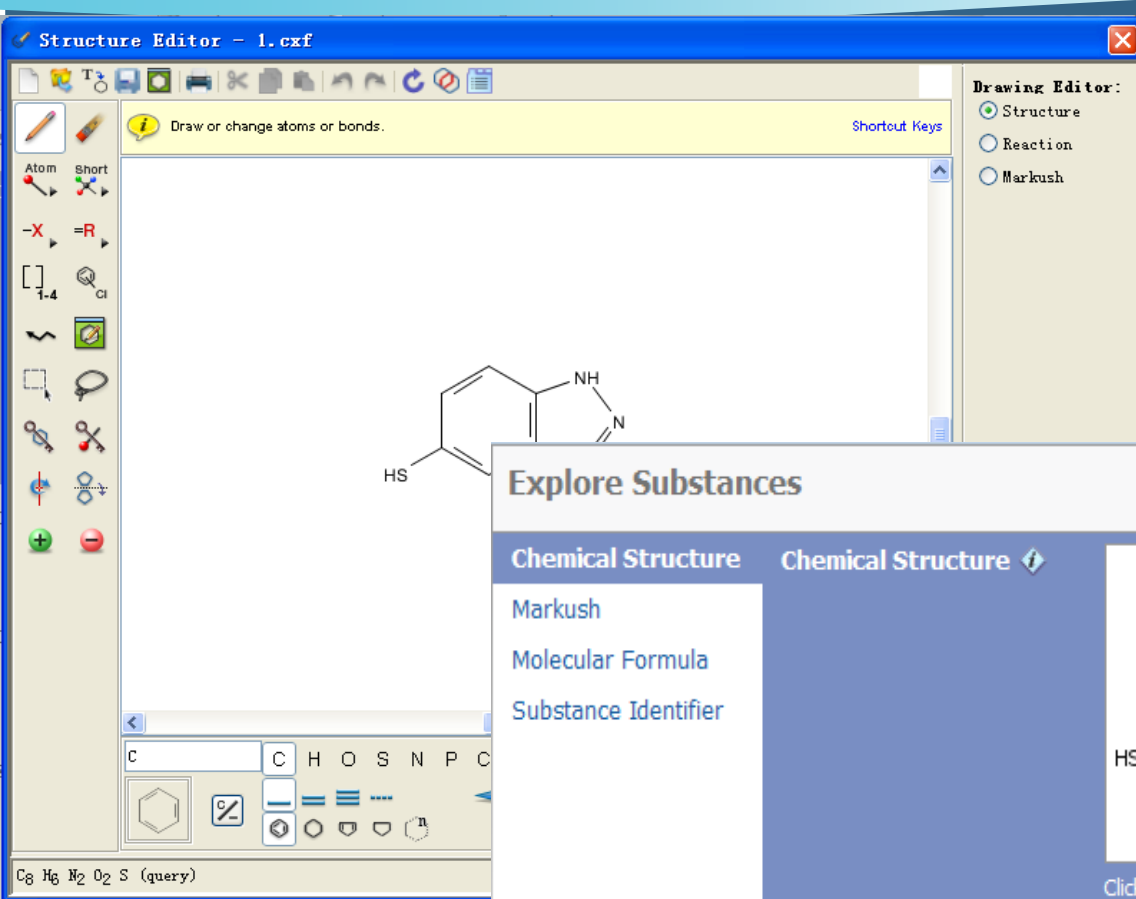
[Add KMP Alert](#) [Chemical Structure substructure](#) > [substances \(0\)](#)

**Substances**  [Combine Answer Sets](#)  [Send to SciPlanner](#)

**0 Substances** 0 Selected

Explore Substances resulted in 0 substances [Return](#)

检索结果为0，新物质，未合成过可通过相似物质的反应，得到新物质的合成可能性。



## Explore Substances

Chemical Structure

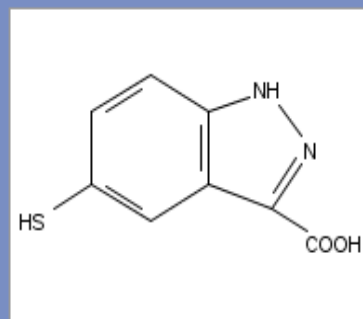
Chemical Structure 

Markush

Molecular Formula

Substance Identifier

Search



Click image to change structure or view detail

Search type:  ☐ Exact Structure

☐ Substructure

☒ Similarity

☐ Show precision analysis



## Similarity Candidates

6 Candidates 3 Selected

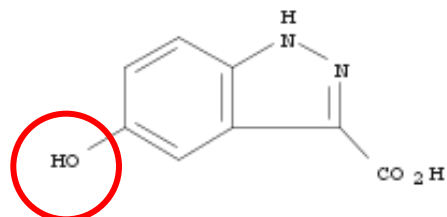
Select All Deselect All

Similarity Candidates		Substances
<input type="checkbox"/>	≥ 99 (most similar)	0
<input type="checkbox"/>	95-98	0
<input type="checkbox"/>	90-94	0
<input checked="" type="checkbox"/>	85-89	10
<input checked="" type="checkbox"/>	80-84	26
<input checked="" type="checkbox"/>	75-79	45
<input type="checkbox"/>	70-74	148
<input type="checkbox"/>	65-69	322
<input type="checkbox"/>	0-64 (least similar)	657

Get Substances

相似度越高，结构越相近

1. Substance Detail Score: 88  
885518-94-5

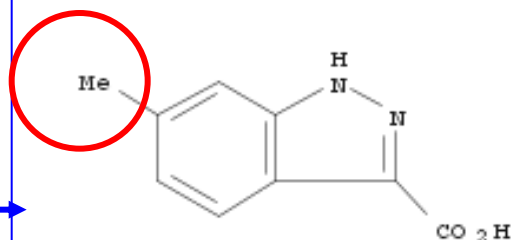


C<sub>8</sub> H<sub>6</sub> N<sub>2</sub> O<sub>3</sub>

1H-Indazole-3-carboxylic acid, 5-hydroxy

取代基不同

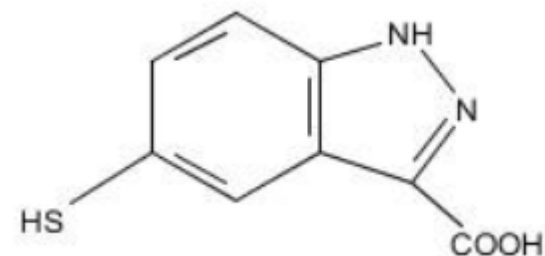
4. Substance Detail Score: 86  
858227-12-0



C<sub>9</sub> H<sub>8</sub> N<sub>2</sub> O<sub>2</sub>

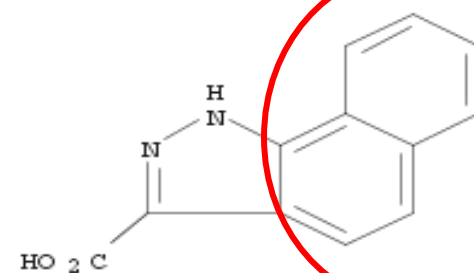
1H-Indazole-3-carboxylic acid, 6-methyl-

取代基和位置不同



母核结构不同

64. Substance Detail Score: 76  
665020-19-9



C<sub>12</sub> H<sub>8</sub> N<sub>2</sub> O<sub>2</sub>

1H-Benz[g]indazole-3-carboxylic acid

## 5. Markush检索

➤ 具体物质[Specific Substance]：

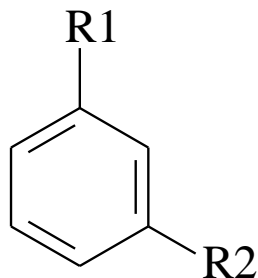
以具体化学结构所陈述的特定物质，会被标示CAS No.

➤ 预测性物质[Prophetic Substance]：

使用Markush结构所陈述的预测物质，一个Markush可以陈述上百或上千的化学物质

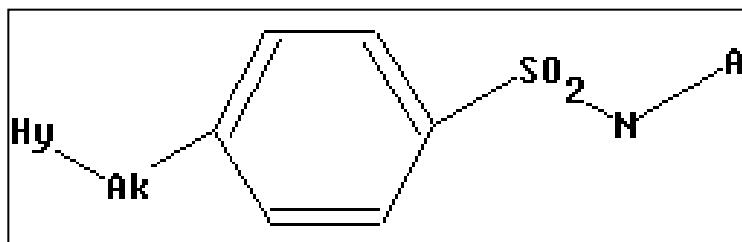
Patent 中所陈述的预测物质，不会被标示CAS No.

Markush检索，能检索到通过结构检索检不到的专利



R1 = H, Br, Cl, I

R2 = Br, Cl, I, —CH<sub>2</sub>—halogen, —CH(CH<sub>3</sub>)—halogen,



SciFinder中的Markush检索  
能帮助做初步的专利评估。

Explore ▼
Saved Searches ▼
SciPlanner

Chemical Structure similarity > substances (127) > 1027511-99-4

**REFERENCES**  
Research Topic  
Author Name  
Company Name  
Document Identifier  
Journal  
Patent  
Tags

**SUBSTANCES**  
Chemical Structure  
**Markush**  
Molecular Formula  
Property  
Substance Identifier

**REACTIONS**  
Reaction Structure

**SUBSTANCES: MARKUSH ?**

Click image to change structure or view detail.

Import CXF

**Search**

Search Type:  
☒ Allow variability only as specified  
☐ Substructure

# 全部是专利文献

Explore ▼

Saved Searches ▼

SciPlanner

Save

Print

Export

Markush structure variable only at spe... > references (119)

REFERENCES ?

Get Substances

Get Reactions

Get Related Citations

Get Full Text

Tools ▼

Create Keep Me Posted Alert

Send to SciPlanner

Analyze Refine Categorize

Sort by: Accession Number ▼

Answers per Page [20] Display: — = ≡

0 of 119 References Selected

Page: 1 of 6

Analyze by: ?

Document Type ▼

Patent 119

Show More

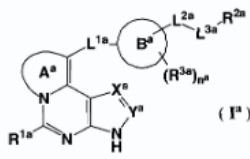
☐ 1. Substituted piperidine derivatives as a GPR119 agonist useful in treatment of metabolism related diseases and their preparation

By Yang, Jin; Kim, Jinwoong; Lee, Hankyu; Kim, Jaehyun; Son, Changmo; Lee, Kyuhwan; Choi, Hyunggho; Kim, Daehoon; Choi, Hyosun; Rhee, Jaekool  
From PCT Int. Appl. (2013), WO 2013105753 A1 20130718. | Language: English, Database: CAPLUS

The invention is related to substituted piperidine derivs. of formula I as a GPR119 agonist useful in treatment of metab. related diseases such as diabetes or obesity and their prepn. The invention compds. I, wherein A is (un)substituted Ph or heterocyclic group; R<sup>1</sup> is COOR<sub>3</sub>, or a (un)substituted heterocyclic group; R<sup>2</sup> and R<sup>3</sup> are each independently a straight or branched chain, or a(un)substituted C<sub>1-5</sub> alkyl group; m is 0, 1, 2, 3; n is 1, 2, 3; their pharmaceutically acceptable salts are claimed. Compd. II was prepd. by multi-step procedure (procedure given). The invention compds. were eva...

☐ 2. Preparation of tricyclic heterocyclic compounds as JAK inhibitors

By Hayashi, Keishi; Watanabe, Tsuneo; Toyama, Koji; Kamon, Junji; Minami, Masataka; Uni, Miyuki; Nasu, Mariko  
From PCT Int. Appl. (2013), WO 2013024895 A1 20130221. | Language: English, Database: CAPLUS



(I\*)

Title compds. I [A<sup>a</sup> = 5- to 6-membered heteroaryl contg. one or two N atom; X<sup>a</sup> = H or CR<sup>3a</sup>; R<sup>1a</sup> = H, halo, alkyl or haloalkyl; ring B<sup>a</sup> = cycloalkane, cycloalkene, 3- to 14-membered nonarom. heterocycle, arom. carbocycle or 5- to 10-membered arom. heterocycle; R<sup>2a</sup> = H, halo, azido, cycloalkyl, etc.; L<sup>1a</sup> = single bond, alkylene, alkenylene or alkynylene; L<sup>2a</sup> = single bond, alkylene, alkenylene, or alkynylene; L<sup>3a</sup> = single bond, O, S, etc.; Y<sup>a</sup> = CR<sup>10a</sup>; n = 0, 1 or 2, R<sup>3a</sup> = hydroxy, amino, carboxy, carbamoyl, each of R<sup>3a</sup> and R<sup>10</sup> independently = H, halogen, cyano, carbamoyl, etc.], and their pharma...

# 结构检索小结

## 精确结构检索：

获得物质的盐、聚合物、配合物等，母体结构不能改变，不能修饰

## 亚结构检索：

所画的结构必须存在，母体结构不能修改，但可以修饰。

## 相似结构检索：

母体结构可以修改，可以修饰，相似度来控制获得的结果。

# 检索方式-反应检索

Chemical Structure substructure > substances (413784)

**REFERENCES**

- Research Topic
- Author Name
- Company Name
- Document Identifier
- Journal
- Patent
- Tags

**SUBSTANCES**

- Chemical Structure
- Markush
- Molecular Formula
- Property
- Substance Identifier

**REACTIONS**

- Reaction Structure

**REACTIONS: REACTION STRUCTURE ?**

Structure Editor:

Java Non-Java

Click to Edit

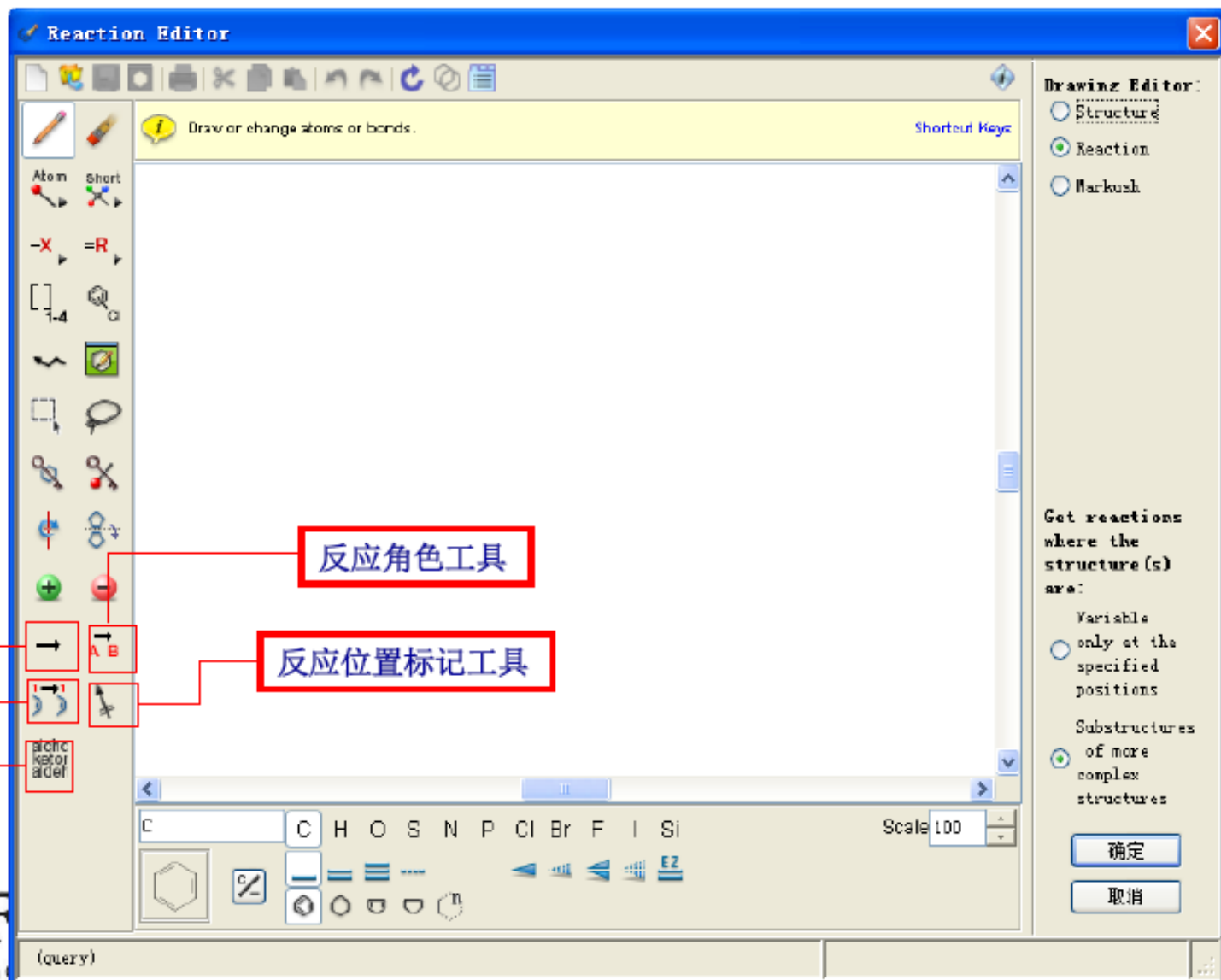
Search Type:

- ☐ Allow variability only as specified
- ☒ Substructure

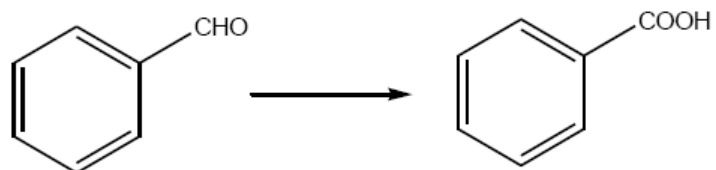
Import CXF

Search

Advanced Search







**Reaction Editor**

Click a reaction participant. A list of roles appears.  
Click a reaction role and click OK.

reactant product

**Drawing Editor:**

- ☐ Structure
- ☒ Reaction
- ☐ Markush

Get reactions where the structure(s) are:

Variable ☒ only at the specified positions

Substructures ☐ of more complex structures

确定 取消

C<sub>7</sub>H<sub>6</sub>O . C<sub>7</sub>H<sub>6</sub>O<sub>2</sub> (reaction query) 106.12 . 122.12

精确物质检索获得特定的物质反应

☒ Advanced Search    ☐ Always Show

---

**Solvents**    ☒ Select Solvents

**Non-participating Functional Groups**    ☒ Select Groups

**Number of Steps**    
  
 Examples: 1, 1-3, 1-, -3

**Classifications**

<input type="checkbox"/> Biotransformation	<input type="checkbox"/> Non-catalyzed
<input type="checkbox"/> Catalyzed	<input type="checkbox"/> Photochemical
<input type="checkbox"/> Chemoselective	<input type="checkbox"/> Radiochemical
<input type="checkbox"/> Combinatorial	<input type="checkbox"/> Regioselective
<input type="checkbox"/> Electrochemical	<input type="checkbox"/> Stereoselective
<input type="checkbox"/> Gas-phase	

**Sources**

<input checked="" type="radio"/> Any source
<input type="radio"/> Patents only
<input type="radio"/> Sources other than patents

**Pub**    ☐

可以提前设定反应溶剂  
和不参与反应的官能团

**Solvent Hierarchy**  
[View Solvent List]

0 Selected    [Select All](#)    [Deselect All](#)

- ☐ Inorganic solvents
  - ☐ Ammonia
  - ☐ Ammonia-15N
  - ☐ Ammonia-d3
  - ☐ Water
  - ☐ Water-17O
  - ☐ Water-18O
  - ☐ Water-d
  - ☐ Water-d2
  - ☐ Water-d2-18O
  - ☐ Water-t
  - ☐ Water-t2
- ☐ Ionic liquids
  - ☐ Imidazolium derivatives

Find:     [Next](#)    [Previous](#)

**View:**    All    217

0 Selected    [Clear Selections](#)

- ☐ Acetal
- ☐ Acetyl
- ☐ Acid Halide
- ☐ Acyclic Alkene
- ☐ Acyclic Ketone
- ☐ Acylmetal
- ☐ ALCOHOLS
- ☐ Aldehyde
- ☐ pi-Alkene
- ☐ ALKENES
- ☐ Alkyl Halide
- ☐ pi-Alkyne
- ☐ Alkyne

Reactions must have ☒ all selections    ☐ any selection

► Overview

By Ding, Yuansheng et al  
From *Jingxi Shiyou Huagong*, 27(3), 19-22; 2010  
[Full Text](#)

18-Crown-6 4

# 查看实验过程

Reactions Get References Tools Send to SciPlanner

20 Reactions 0 Selected Save Print Export

Select All Deselect All Sort by: Relevance Answers per Page [15] 1 2

Display:

☐ 1. View Reaction Detail Link Similar Reactions

Single Step *Hover over any structure for more options.*

88%

► Overview

► Experimental Procedure

查看实验过程

## ▼ Experimental Procedure

*Organic*  
**LETTERS**

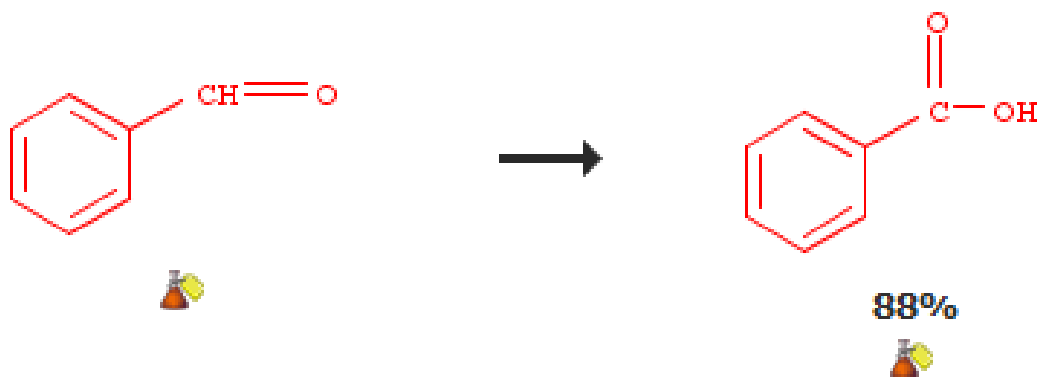
General/Typical Procedure: (a) Synthesis of carboxylic acids:- DBU(20 mol %) was added to a suspension of the 1,3-dimesityl imidazolium chloride (15 mol %) and aldehyde(1 mmol) in dry THF. A slow stream of CO<sub>2</sub> was passed through this solution for 15 minutes. The reaction mixture was quenched with hydrochloric acid (1N, 5ml) and extracted with dichloromethane (3x4 ml). The organic layer was washed with brine, dried with Na<sub>2</sub>SO<sub>4</sub>, filtered and concentrated. The concentrated residue was subjected to column chromatography on a silica gel (100-200 mesh) column using 90:10 hexane-ethyl acetate solvent mixture as eluent to afford corresponding carboxylic acid. Compound 3c, yield 88% <sup>1</sup>H NMR (500 MHz, CDCl<sub>3</sub>) δ 8.13-8.11 (m, 2H) 7.61-7.59 (m, 1H) 7.49-7.46 (m, 1H) <sup>13</sup>C NMR (125 MHz, CDCl<sub>3</sub>) δ 172.0, 133.7, 130.3, 129.4, 128.4

## 获得反应中心相似的反应



1. View Reaction Detail  Link  **Similar Reactions**

**Single Step** *Hover over any structure for more options.*



- Overview
- Experimental Procedure

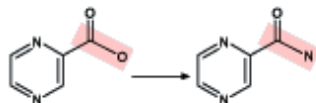
## Get Similar Reactions ⓘ

### Retrieve similar reactions from:

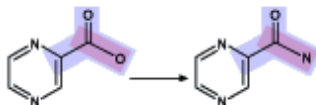
- ☒ All reactions
- ☐ Current answer set

### Include this level of similarity:

- ☐ Broad - Reaction centers only (9316)



- ☐ Medium - Reaction centers plus adjacent atoms and bonds (4176)



- ☒ Narrow - Reaction centers plus extended atoms and bonds (3458)



**Broad:** 反应中心相似

**Medium:** 反应中心及附属原子和键

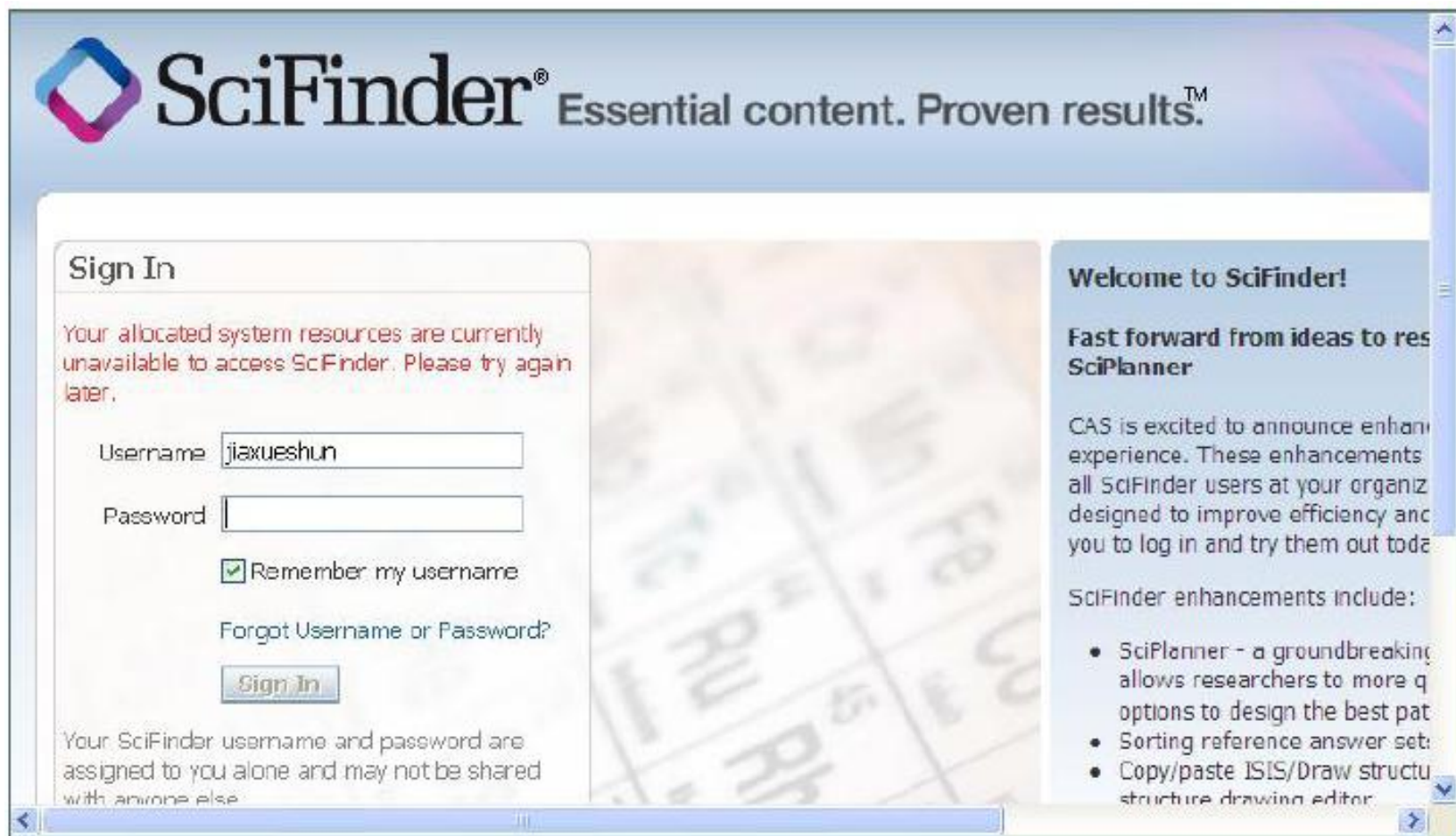
**Narrow:** 反应中心及扩展的原子和键

☐ 1. View Reaction Detail [Link](#) Similar Reactions  
Single Step *Hover over any structure for more options.*



► Overview

# 补充问题



The image shows a screenshot of the SciFinder login page. The header features the SciFinder logo and the tagline "Essential content. Proven results.™". The main content area is divided into two sections. On the left is the "Sign In" section, which includes a message about system resources being unavailable, a username field containing "jiaxueshun", a password field, a "Remember my username" checkbox, a "Forgot Username or Password?" link, and a "Sign In" button. Below this is a disclaimer about the user's credentials. On the right is a "Welcome to SciFinder!" section with a "Fast forward from ideas to res SciPlanner" heading, a paragraph about CAS enhancements, and a list of features including SciPlanner, sorting reference answer sets, and a copy/paste ISIS/Draw structure drawing editor.

**SciFinder®** Essential content. Proven results.™

### Sign In

Your allocated system resources are currently unavailable to access SciFinder. Please try again later.

Username:

Password:

☒ Remember my username

[Forgot Username or Password?](#)

Your SciFinder username and password are assigned to you alone and may not be shared with anyone else.

### Welcome to SciFinder!

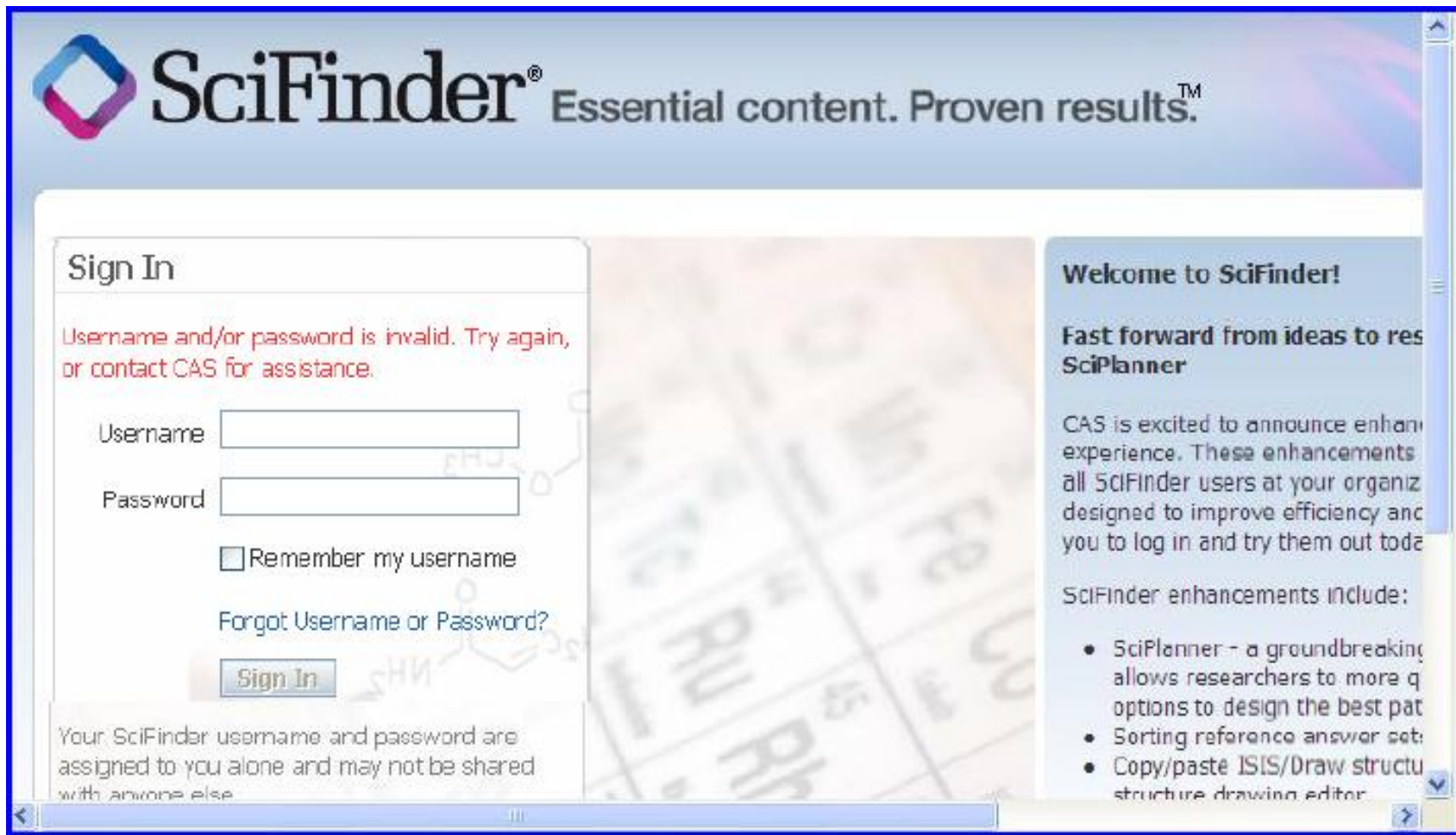
#### Fast forward from ideas to res SciPlanner

CAS is excited to announce enhanced experience. These enhancements are available to all SciFinder users at your organization designed to improve efficiency and productivity. Log in and try them out today!

SciFinder enhancements include:

- SciPlanner - a groundbreaking tool that allows researchers to more quickly explore reaction options to design the best pathway.
- Sorting reference answer sets.
- Copy/paste ISIS/Draw structure drawing editor.

并发用户已满，请稍后再试



用户名或密码错误，请在username处填写，截图，并与图书馆联系





# THANK YOU

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