SciFinder Web使用介绍

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1. CAS SciFinder Discovery Platform(Academic)新平台

全文 学科：| 数学/物理/化学 |

使用原有CAS SCIFINDER账号和密码登录即可，老平台CAS SCIFINDER的访问即将于2023年7月1日正式关闭。CAS SCIFINDER Discovery Platform (Academic) 是美国化学文摘社（CAS）出品的权威化学及相关学科智能研究平台，提供全球全面、可靠的化学及相关学科研究信息和分析工具。

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2. SciFinder Academic（化学文摘）

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欢迎大家访问 CAS SCIFINDER Discovery Platform新平台，无并发用户限制。
SCIFINDER是关于化学及相关学科（包括生物医学、工程、材料、农业等）研究的重要信息来源,可以同时检索美国化学文摘社（CAS）的多个数据库和MEDLINE数据库。
SCIFINDER 提供多种检索途径和有效的分析工具。

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https://scifinder.cas.org/registration/index.html?corpKey=5BC0ED2C-86F3-5055-75DE-7AD89C71ECA9

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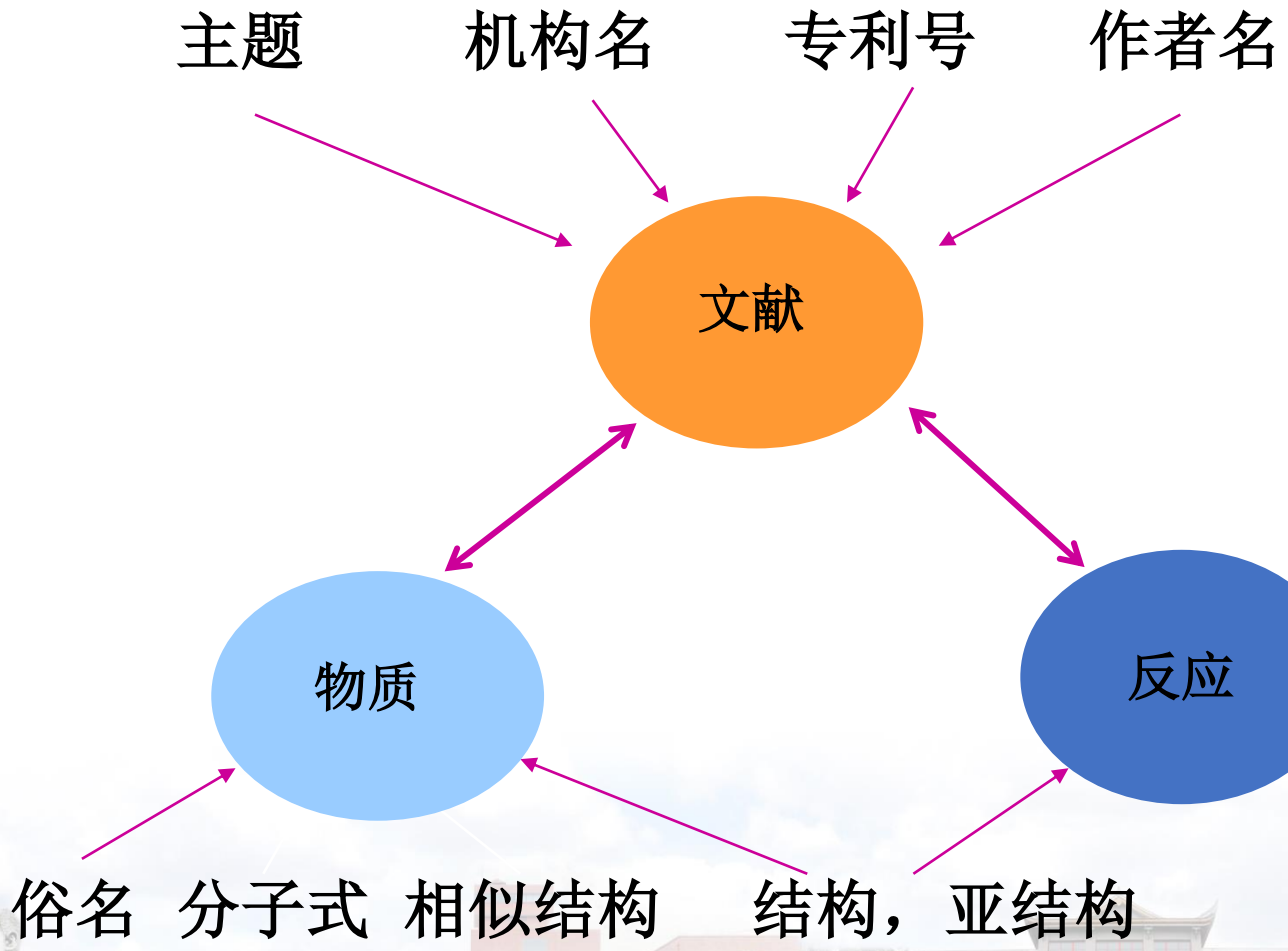
- 涵盖的学科范畴：化学及相关领域，如化学、生物、医药、材料、食品、应用化学、化学工程、农学、高分子、物理等多学科和跨学科科技信息。
- 文献类型：期刊、专利、会议论文、学位论文、图书、科技报告、评论、预印本和网络资源等。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Caplus（化学文摘数据库）：

包含了1907年以来CA印刷版的所有内容，同时还收录1907年以前的上万条记录。

3400万条文献信息

上万种期刊和63个专利发行机构的专利（含专利族）会议录、技术报告、图书、学位论文、评论、会议摘要

日更新4500条以上的记录

Caplus中的索引词帮助解决各种描述歧义问题

文献检索过程中经常遇到同义词、近义词、单复数、不同时态情况。

教育背景不同，语种不同，全球科研人员对同一概念的描述不同。

Caplus中的Index term是一种标准化的检索词，配合智能化的检索模式，保证检索的全面性

CAS Registry（CAS登记号数据库）（Pre 1957-）

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MARPAT（全球专利文献中的Markush库）：

>92.7万专利中的有机、有机金属结构

回溯至1961年

MARPAT帮助最大程度的找到结构相关专利文献

TIPS:同系物、同分异构体、同族原子之间的简单取代等结构非常相近的物质。申请专利的新化合物该如何申请专利？与已有化合物相比能有哪些结构上的差别?

马库什结构（MarkushStructure）或马库什图像（MarkushRepresentation）:在化学结构相关的专利中用来揭示一个“类属”化合物发明的通式。

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

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

REACTIONS
- Reaction Structure

选择检索方法

REFERENCES: RESEARCH TOPIC

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

Search

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Publication Years
Examples: 1995, 1995-1999, 1995-, -1995

Document Types
- Biography
- Book
- Clinical Trial
- Commentary
- Conference
- Dissertation
- Editorial
- Historical
- Journal
- Letter
- Patent
- Preprint
- Report
- Review

Languages
- Chinese
- English
- French
- German
- Italian
- Japanese
- Polish
- Russian
- Spanish

Author Last Name * First Middle

Company
Examples:
Minnesota Mining and Manufacturing
DuPont

保存过的结果集

SAVED ANSWER SETS
1
polyer flooding
PVA wastewater treat
1
1
Autosaved Reaction Set

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KEEP ME POSTED
You have no profiles.
Learn how to:
Create Keep Me Posted

邮件提醒结果集

使用技巧：

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

使用Not或者Except去除一个特定的概念

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。

例如：输入“ treat ”，系统可自动进行截词运算，检出treatment、treating、treated和treat。

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。

将概念的同义词，写在括号内

例如：输入 “ preparation ”，系统除检出preparation，还能检出manufacture、synthesis。

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　PVA
处理　treat
废水　wastewater

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

PVA in treat of wastewater

输入检索式

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

Search

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使用介词连接检索词

提前限定出版年限、文献类型等

Publication Years

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

Document Types

- Biography
- Book
- Clinical Trial
- Commentary
- Conference
- Dissertation
- Editorial
- Historical
- Journal
- Letter
- Patent
- Preprint
- Report
- Review

Languages

- Chinese
- English
- French
- German
- Italian
- Japanese
- Polish
- Russian
- Spanish

Author Last Name * First Middle

Company

Examples:
Minnesota Mining and Manufacturing
DuPont

2 of 12 Research Topic Candidates Selected

☑	1 reference was found containing **"PVA in treat of wastewater"** as entered.
☑	1886 references were found containing all of the concepts **"PVA"**, **"treat"** and **"wastewater"** closely associated with one another.
☐	6076 references were found where all of the concepts **"PVA"**, **"treat"** and **"wastewater"** were present anywhere in the reference.
☐	14230 references were found containing the two concepts **"PVA"** and **"treat"** closely associated with one another.
☐	50607 references were found where the two concepts **"PVA"** and **"treat"** were present anywhere in the reference.
☐	3005 references were found containing the two concepts **"PVA"** and **"wastewater"** closely associated with one another.
☐	7095 references were found where the two concepts **"PVA"** and **"wastewater"** were present anywhere in the reference.
☐	731820 references were found containing the two concepts **"treat"** and **"wastewater"** closely associated with one another.
☐	763828 references were found where the two concepts **"treat"** and **"wastewater"** were present anywhere in the reference.
☐	304505 references were found containing the concept **"PVA"**.
☐	15139576 references were found containing the concept **"treat"**.
☐	930754 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。


References | Get Substances | Get Reactions | Get Related | Tools | Send to SciPlanner

774 References 0 Selected | Save | Print | Export

Sort by: Accession Number | Answers per Page [20] | 1 2 3 4 5 ... 39

remove duplicate

Select All Deselect All | Display:

1. Preparation, morphology and performance evaluation of polyvinylalcohol (PVA)/polyethersulfone (PES) composite nanofiltration membranes for pulp and paper wastewater treatment Full Text

By Jahanshahi, Mohsen; Rahimpour, Ahmad; Mortazavian, Narmin

From Iranian Polymer Journal (2012), 21(6), 375-383. | Language: English, Database: CAPLUS

In this study, thin film composite **PVA**/PES nanofiltration membranes were fabricated for the **treatr** **wastewater**. Phase sepn. induced by immersion pptn. was used to prep. the PES support membrane. **PVA**/PES compos prepd. by dipping the support PES membrane in the **PVA** and crosslinking solns. at different conditions. Maleic acid (MA **PVA** and MA have concns. of 0.5-2 and 0.05-1 wt%, resp. Morphol. studies were carried out by means of SEM (SEM AFM) techniques. In addn...

Remove Duplicates
Combine Answer Sets
Add Tag
Remove Selected
Keep Selected
Full Text

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

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 soln. to polyvinyl alc. desizing **wastewater** to adjust pH to 3~ 6, adding Fenton reagent to Fe2+ 7.3~ 22.1 mmol/L and H2O2/CODCr 1.0~ 3.0, starting UV lamp with power 6~ 8 W and stirrer for reaction, adding inorg. salt to **wastewater** by 1~ 5wt%, applying current 0.5~ 2.0 A for degrdn. for 15~ 120 min. The acid soln. is 10~ 30wt% H2SO4, HCl or HNO3. FeSO4 soln. and H2O2. The inorg. salt is NaCl, MgCl2 or KCl. The invention can remove 91% CODCr and enhance biodeg

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762 References 0 Selected Save Print Export

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Accession Number
Author Name
Citing References
Publication Year
Title

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被引次数最多的文献

Display:

1. ...ance evaluation of polyvinylalcohol (PVA)/polyethersulfone (PES) composite nanofiltration membranes for p...
Full Text
By ...zavian, Narmin
Fr... 3. | Language: English, Database: CAPLUS
...ES nanofiltration membranes were fabricated for the **treatment** of pulp and paper industrial **wastewater**. Phase ...sed to prep. the PES support membrane. **PVA**/PES composite nanofiltration membranes were prepd. by dipping the ...d crosslinking solns. at different conditions. Maleic acid (MA) was used as crosslinking agent. **PVA** and MA have ... Morphol. studies were carried out by means of SEM (SEM) as well as at. force microscopy (AFM) techniques. In addn...

2. Photo/electro-fenton treatment process for polyvinyl alcohol desizing wastewater
Full Text
By Yang, Jie; Chu, Hairong; Xu, Yanhua; Liu, Dongzhe
From Faming Zhuanli Shenqing (2012), CN 102757144 A 20121031. | Language: Chinese, Database: CAPLUS
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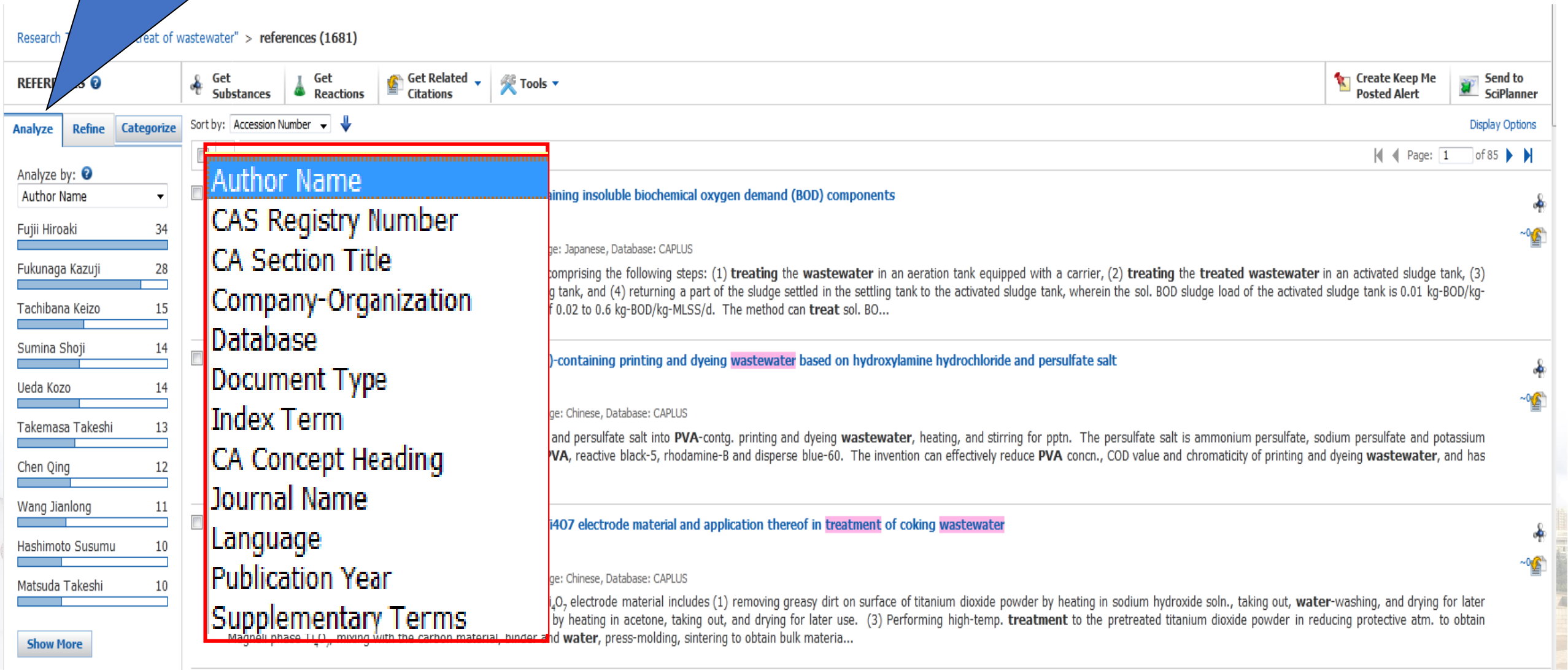
系统分析功能

- 11种分析功能，帮助我们进一步细化了解课题。



Analyze by:

Author Name

Click bar to view only those references within the current answer set

Fukunaga Kazuji	28
Fujii Hiroaki	25
Tachibana Keizo	15
Sumina Shoji	14
Ueda Kozo	14
Takemasa Takeshi	13
Hashimoto Susumu	10
Matsuda Takeshi	10
Okazaki Masaki	9
Furukawa Kenji	7

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- 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

Analysis | Refine

Analyze by:

Company-Organization

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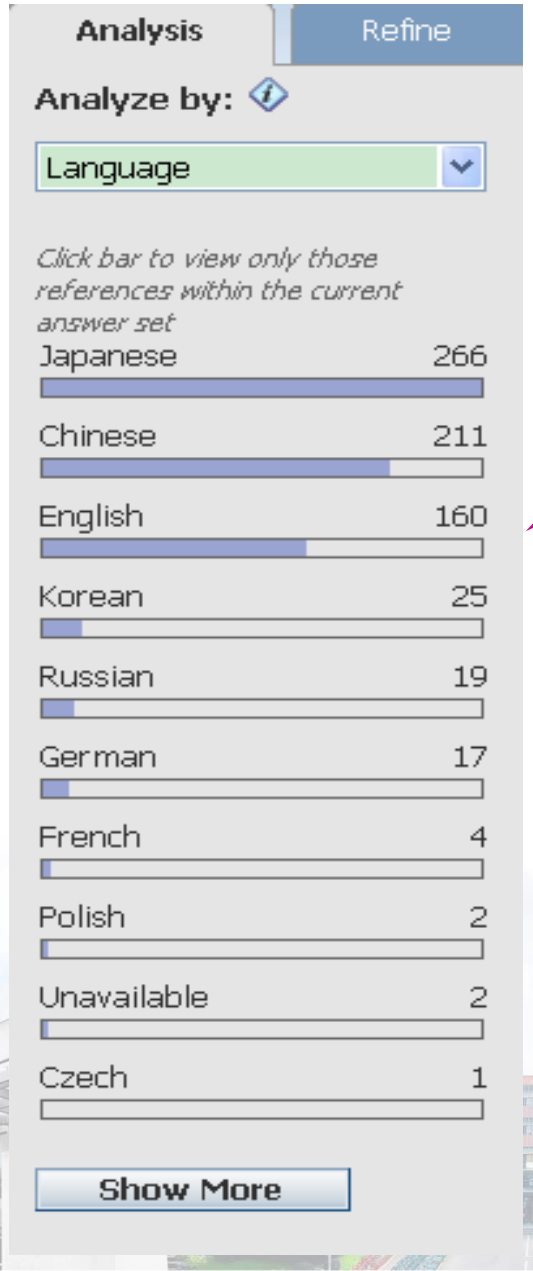
Kuraray Co Ltd, Japan	46
USSR	14
Kuraray Co, Japan	10
Japan	9
Donghua University, Peop Rep China	8
Tongji University, Peop Rep China	8
Agency of Industrial Sciences and Technology, Japan	7
Central South University, Peop Rep China	7
Kuraray Co Ltd	7
Nanjing University of Technology, Peop Rep	



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。

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Analyze by:

Publication Year

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1976 20
2008 19
2003 18
2010 17
2006 17
2009 16
2001 16
1997 16
2007 15

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Analyze - Publication Year

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Frequency
Natural Order

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2021 129
2019 128
2020 124
2016 119
2017 112
2015 [illegible]
2013 [illegible]
2014 74
2012 65

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- ◉ Selected
- ○ Range

Example: *2-20*

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- ○ Microsoft Excel Worksheet (*.xls)

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- ◉ Selected
- ○ Range

Example: *2-20*

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- ○ Portable Document Format (*.pdf)
- ◉ Microsoft Excel Worksheet (*.xls)

Details:

File Name: *

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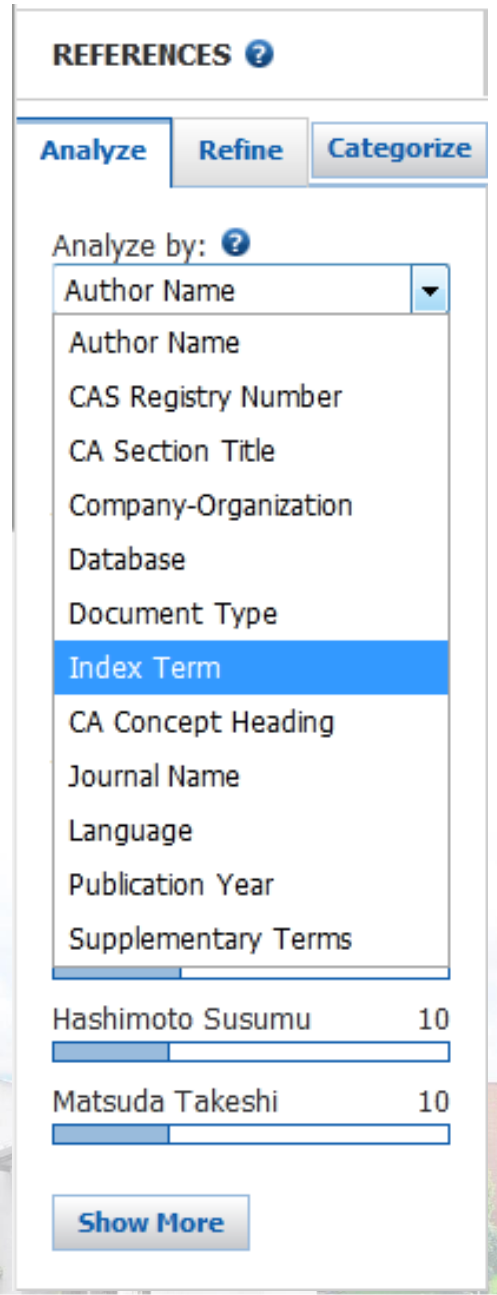
以Excel格式输出

Export Cancel

Excel导出数据做图



主题检索：具有抗癌作用的天然活性成分

关键词： Natural Active Component 、 Anti Cancer

Natural Active Component with Anti Cancer

Examples:

The effect of antibiotic residues on dairy products

Photocyanation of aromatic compounds

Search

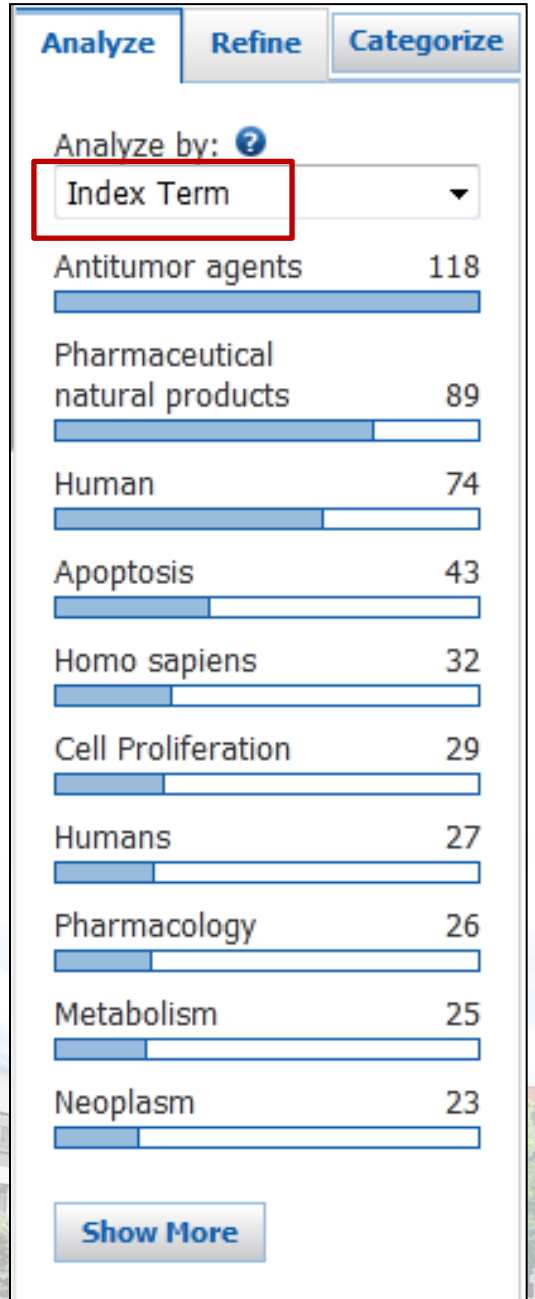
Advanced Search

Select All Deselect All

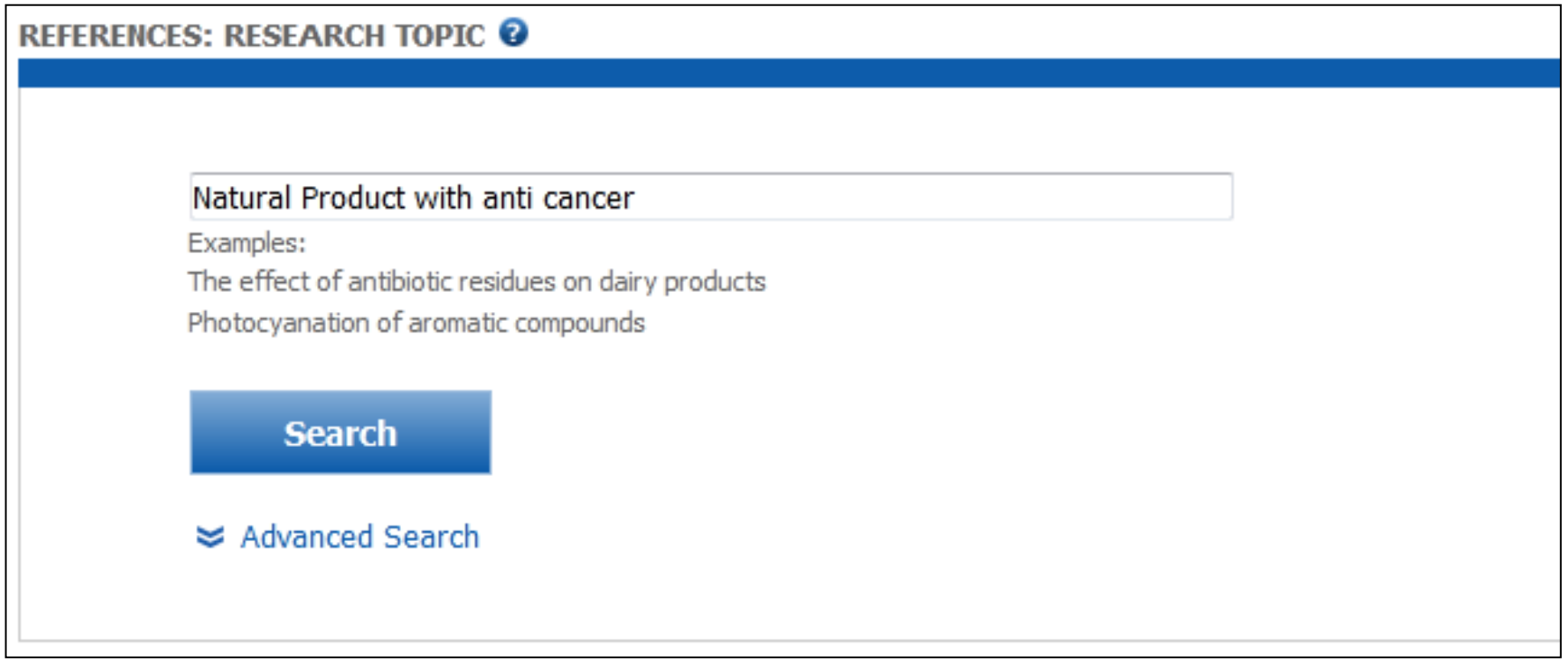
1 of 4 Research Topic Candidates Selected

- [x] 218 references were found containing the two concepts **"Natural Active Component"** and **"Anti Cancer"** closely associated with one another.
- [ ] 496 references were found where the two concepts **"Natural Active Component"** and **"Anti Cancer"** were present anywhere in the reference.
- [ ] 6302 references were found containing the concept **"Natural Active Component"**.
- [ ] 1575331 references were found containing the concept **"Anti Cancer"**.

Get References



Index Term基于内容的分析工具，发现natural products, Pharmaceutical 这个和天然活性成分很相关的词



1 of 5 Research Topic Candidates Selected

- 29 references were found containing **"Natural Product with anti cancer"** as entered.
- [x] 14184 references were found containing the two concepts **"Natural Product"** and **"anti cancer"** closely associated with one another.
- 59776 references were found where the two concepts **"Natural Product"** and **"anti cancer"** were present anywhere in the reference.
- 590886 references were found containing the concept **"Natural Product"**.
- 1575331 references were found containing the concept **"anti cancer"**.

REFERENCES

Analyze | Refine | Categorize

Refine by:
- Research Topic
- Author
- Company Name
- Document Type
- Publication Year
- Language
- Database

Research Topic

Examples:

The effect of antibiotic residues on dairy products

Photocyanation of aromatic compounds

Refine

Get Substances | Get Reactions | Get Related Citations | Tools

Sort by: Accession Number

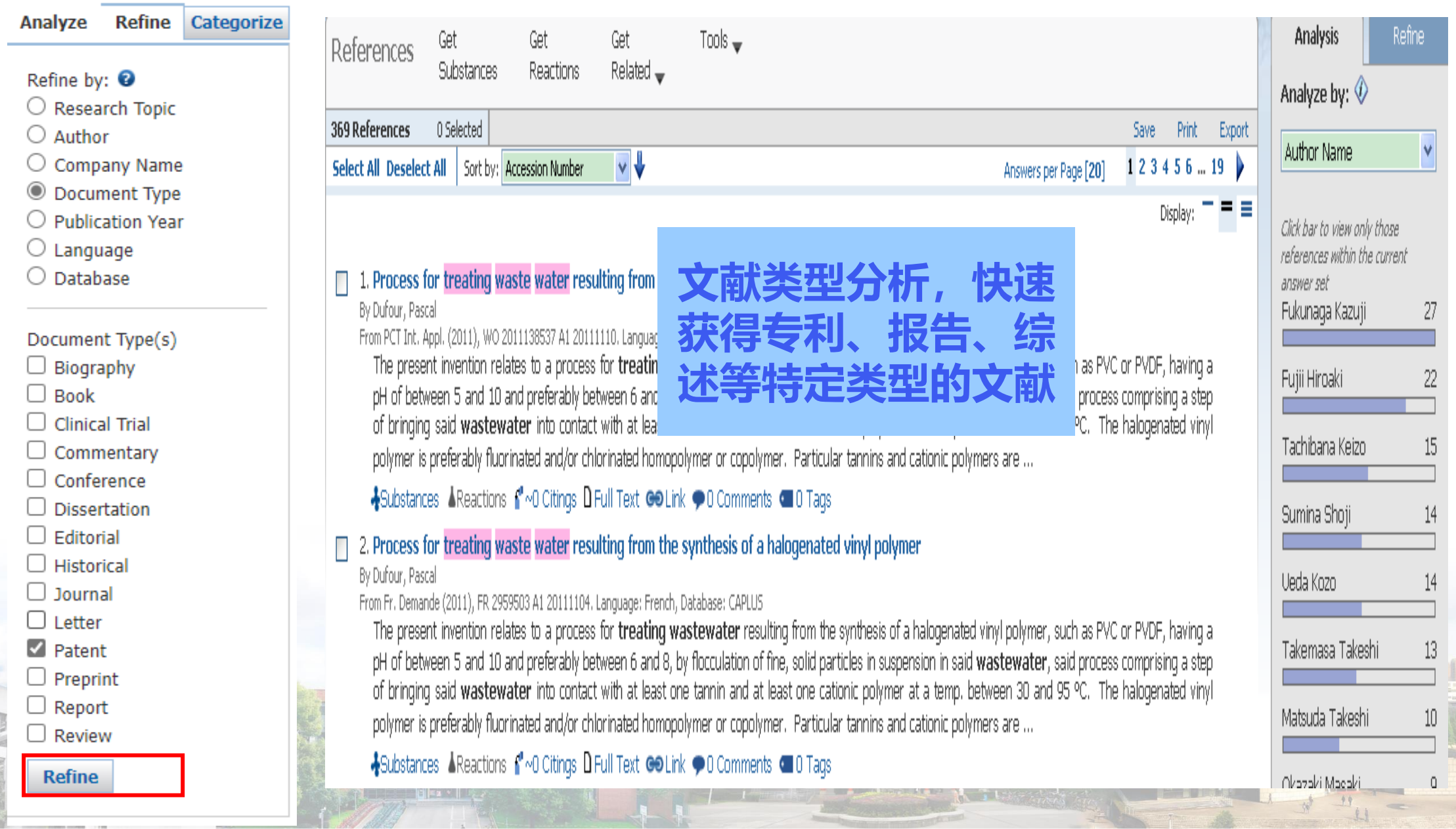
2 of 1854 Re

7种分析限定工具

1. Process for extracting pva in slurry with supercritical carbon dioxide [Ma
Quick View PATENTPAK
By Cai, Tao; Zheng, Fuer; Ye, Shuangfei; Wu, Qiulan; Li, Juan; Zhao, Chunmei
From Faming Zhuanli Shenqing (2022), CN 114292437 A 20220408. | Language: Ch
[Machine Translation of Descriptors]. Disclosed is a process for extg. **PVA** i obtained by suction filtration until the quality of the filter cake is unchanged time and carbon dioxide flow rate and...

2. Preparation and performance of a high-flux graphene oxide membrane f
Quick View Other Sources
By Wang, Zi-heng; Sun, Jia-wei; Ning, Xiao-gang; Xu, Xiang-ping; Bian, Wen-hai; Qin
From Gaoxiao Huaxue Gongcheng Xuebao (2021), 35(1), 155-163. | Language: Chi
Pervaporation is a promising technol. to **treat** org. **wastewater** with high glutaraldehyde in the GO interlayers. The membrane exhibited robust phys The **treatment** dramatically reduced COD (COD) level and ammonia nitrog

3. Method for treating high-concentration polyvinyl alcohol wastewater in
Quick View PATENTPAK
By Chen, Zhenxi; Liu, Jianfeng; Wang, Weifeng; Wang, Weicong; Xia, Min; Zhu, Xudo
From Faming Zhuanli Shenqing (2022), CN 114249458 A 20220329. | Language: Ch
[Machine Translation of Descriptors]. The present invention relates to the f wherein the method comprises the following steps:(1) Adding ferrous sulfate less than 400, and adding silicate to adjust the pH value ...



文献类型分析，快速获得专利、报告、综述等特定类型的文献

2. Preparation and performance of a high-flux graphene oxide membrane for wastewater treatment via pervaporation

文献摘要信息

By: Wang, Zi-heng; Sun, Jia-wei; Ning, Xiao-gang; Xu, Xiang-ping; Bian, Wen-hai; Qin, Ying-zhe; Li, Na

Pervaporation is a promising technol. to treat org. wastewater with high salinity from chem. industry. A high-performance laminated GO membrane was prepd. by a pressure-assisted self-assembly method via intercalation and crosslinking with poly (vinyl alc.) and glutaraldehyde in the GO interlayers. The membrane exhibited robust physicochem. stability, high water permeability and high salt rejection. Water flux of 98.2 $kg \cdot m^{-2} \cdot h^{-1}$ and salt rejection of 99.99% were achieved from the pervaporation of 10% NaCl soln. at 85°C. The treatment dramatically reduced COD (COD) level and ammonia nitrogen content, and effectively removed trace amt. of mercury from industrial org. salty wastewater. The membrane exhibits good anti-fouling property under harsh environment, which shows great potential in wastewater treatment.

Indexing

重要概念索引

Waste Treatment and Disposal (Section60)

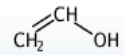
Concepts

- Chemical oxygen demand
- Contact angle
- Hydrophilicity
- Pervaporation membranes
- Self-assembly
- Temperature
- Concentration(condition)
- Crosslinking
- Intercalation
- Pervaporation wastewater treatment
- Stability

prepn. and performance of a high-flux graphene oxide membrane for wastewater treatment via pervaporation

Substances

111-30-8 Glutaraldehyde
9002-89-5 Polyvinyl alcohol



prepn. and performance of a high-flux graphene oxide membrane for wastewater treatment via pervaporation

Modifier or additive use; Uses

7647-14-5 Sodium chloride
7664-41-7 Ammonia

prepn. and performance of a high-flux graphene oxide membrane for wastewater treatment via pervaporation

Physical, engineering or chemical process; Pollutant; Removal or disposal; Occurrence; Process

1034343-98-0 Graphene

prepn. and performance of a high-flux graphene oxide membrane for wastewater treatment via pervaporation

Properties; Technical or engineered material use; Uses

Supplementary Terms

flux graphene oxide membrane wastewater treatment pervaporation

文献详细著录信息

QUICK LINKS
0 Tags, 0 Comments

SOURCE
Gaoxiao Huaxue Gongcheng Xuebao
Volume35
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Pages155-163
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2021
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ISSN:1003-9015
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Shaanxi Key Laboratory of Energy Chemical Process Intensification, School of Chemical Engineering and Technology
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710049

ACCESSION NUMBER
2022:806243
CAPLUS

PUBLISHER
Gaoxiao Huaxue Gongcheng Xuebao Bianjibu

LANGUAGE
Chinese

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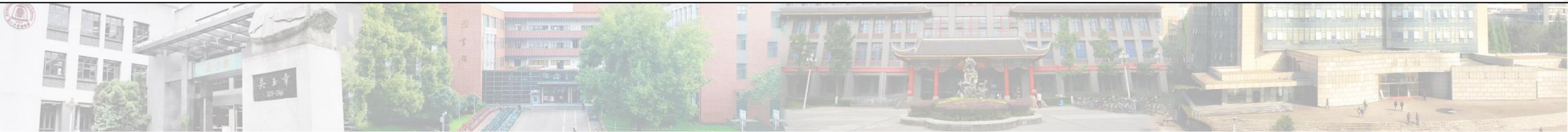
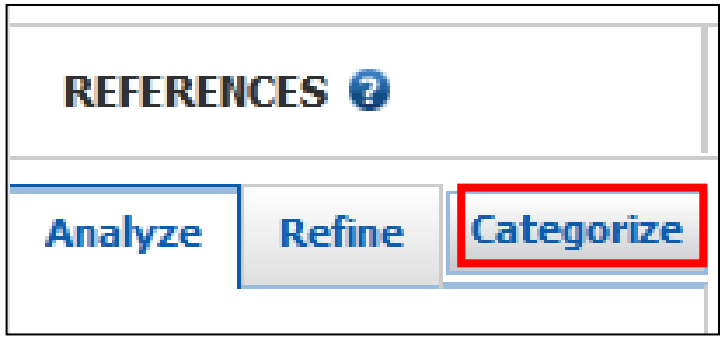


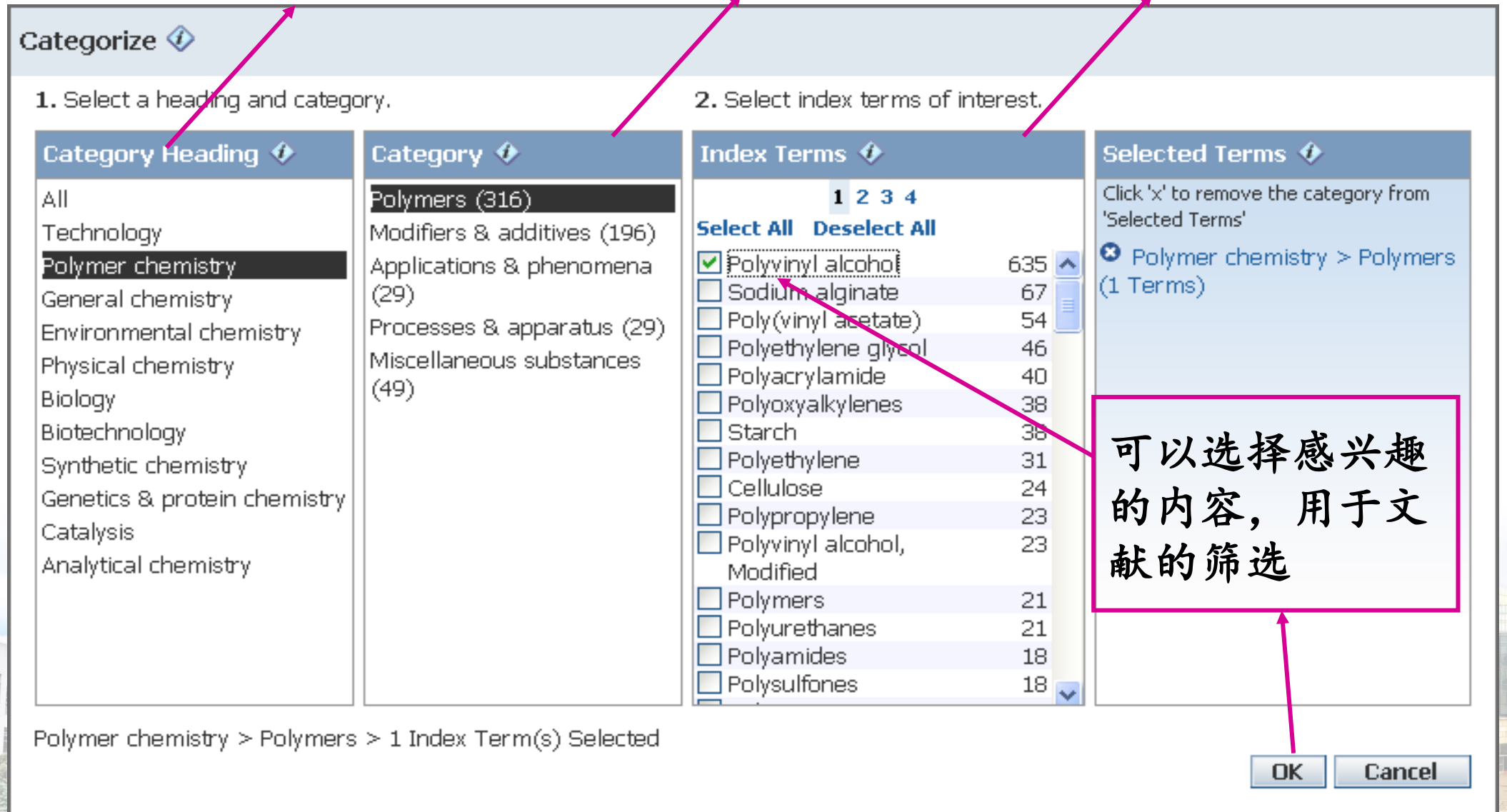


Categorize系统分析工具

一级目录

二级目录

与二级目录相关的 Index Term



可以选择感兴趣的内容，用于文献的筛选

References | Get Substances | Get Reactions | Get Related | Tools

635 References | 0 Selected | Save | Print | Export

Select All Deselect All | Sort by: Accession Number | Answers per Page [20] | 1 2 3 4 5 6 ... 32

Display:

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 8,256mg/L, BOD5 858mg/L and SS 389mg/L, and through the process **treatment**, the **wastewater** reached ...978-1996). The removal ratios of COD, BOD5 and SS were 99 %, 98.6 % and 97.4 %.
Substances Reactions ~0 Citings

2. Process for treating waste water res...
By Dufour, Pascal
From PCT Int. Appl. (2011), WO 2011138537 A1 201...
The present invention relates to a proces...genated vinyl polymer, such as PVC or PVDF, having a pH of between 5 and 10 and preferably b... in said **wastewater**, said process comprising a step of bringing said **wastewater** into conta... temp. between 30 and 95 °C. The halogenated vinyl polymer is preferably fluorinated and/or c...nic polymers are ...
Substances Reactions ~0 Citings

3. Process for treating waste water res...
By Dufour, Pascal
From Fr. Demande (2011), FR 2959503 A1 20111104. Language: French, Database: CAPLUS
The present invention relates to a process for **treating wastewater** resulting from the synthesis of a halogenated vinyl polymer, such as PVC or PVDF, having a pH of between 5 and 10 and preferably between 6 and 8, by flocculation of fine, solid particles in suspension in said **wastewater**, said process comprising a step of bringing said **wastewater** into contact with at least one tannin and at least one cationic polymer at a temp. between 30 and 95 °C. The halogenated vinyl polymer is preferably fluorinated and/or chlorinated homopolymer or copolymer. Particular tannins and cationic polymers are ...
Substances Reactions ~0 Citings Full Text Link 0 Comments 0 Tags

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

Analysis | Refine

Analyze by:

Database

Click bar to view only those references within the current answer set

CAPLUS 628

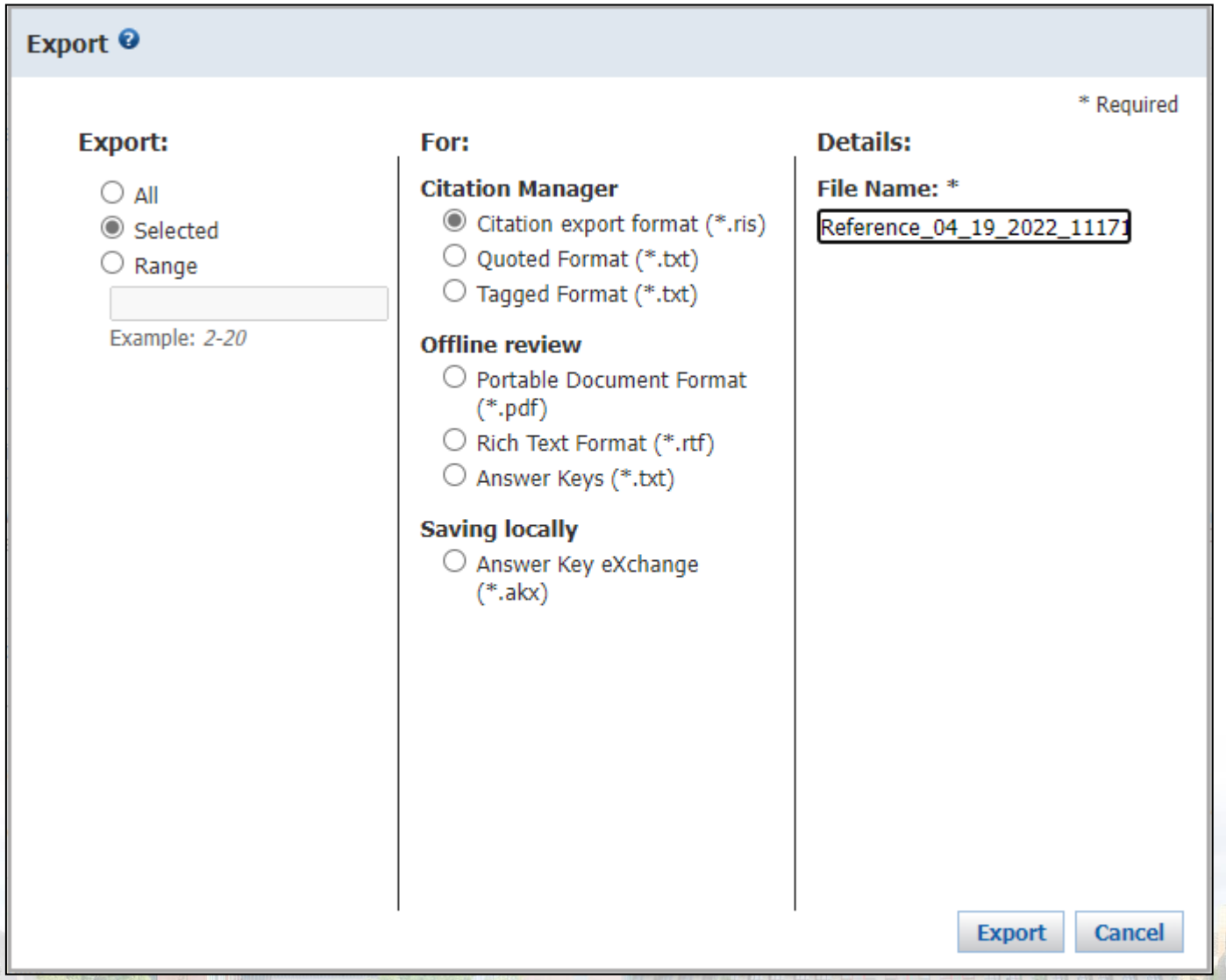
MEDLINE 7

Show More

Categorize

More detailed analysis based on CAS indexing

Categorize



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Offline Review：保存成PDF、RTF格式，用于脱机浏览。detail可保存100条记录。

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。

Research Topic "Natural Product with anti canc..." > references (14184) > refine "Patents only" (2049) > Celastrol derivative and its p...

REFERENCES

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

SUBSTANCES

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

REACTIONS

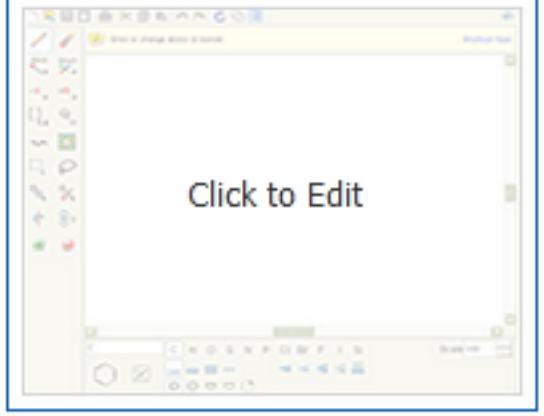
- Reaction Structure

物质检索

SUBSTANCES: CHEMICAL STRUCTURE

Structure Editor:

Java | Non-Java



Import CXF

Search

Advanced Search

ChemDraw

Launch a SciFinder/SciFinder^n substance or

- 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

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

Explore ▾ | Saved Searches ▾ | SciPlanner

Substance Identifier "Vinyl alcohol " > **substances (1)**

SUBSTANCES | Get References | Get Reactions | Get Commercial Sources | Tools ▾

Analyze | Refine

Sort by: CAS Registry Number

0 of 1 Substance Selected

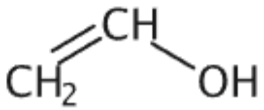
Analyze by: Substance Role

Analytical Study	1
Biological Study	1
Combinatorial Study	1
Formation, Nonpreparative	1
Miscellaneous	1
Occurrence	1
Preparation	1
Process	1
Properties	1
Prophetic in Patents	1

Show More

1. **557-75-5**

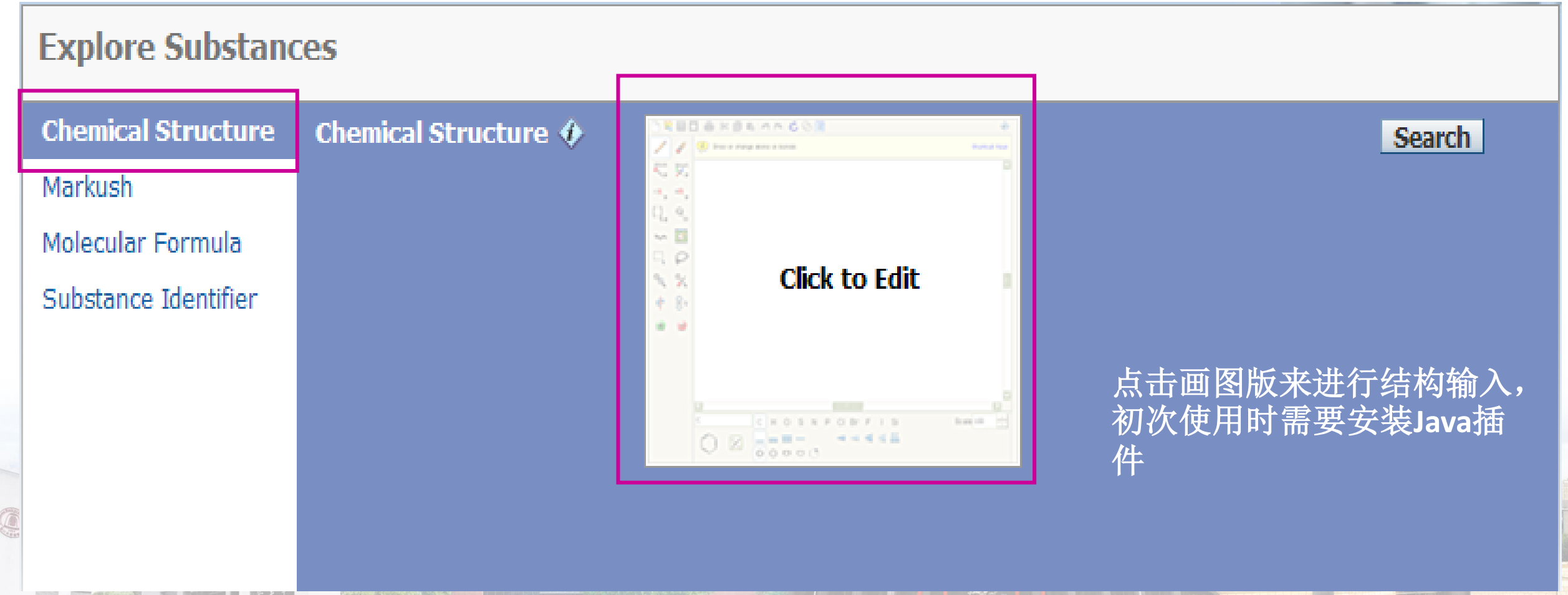
~6557 ~13

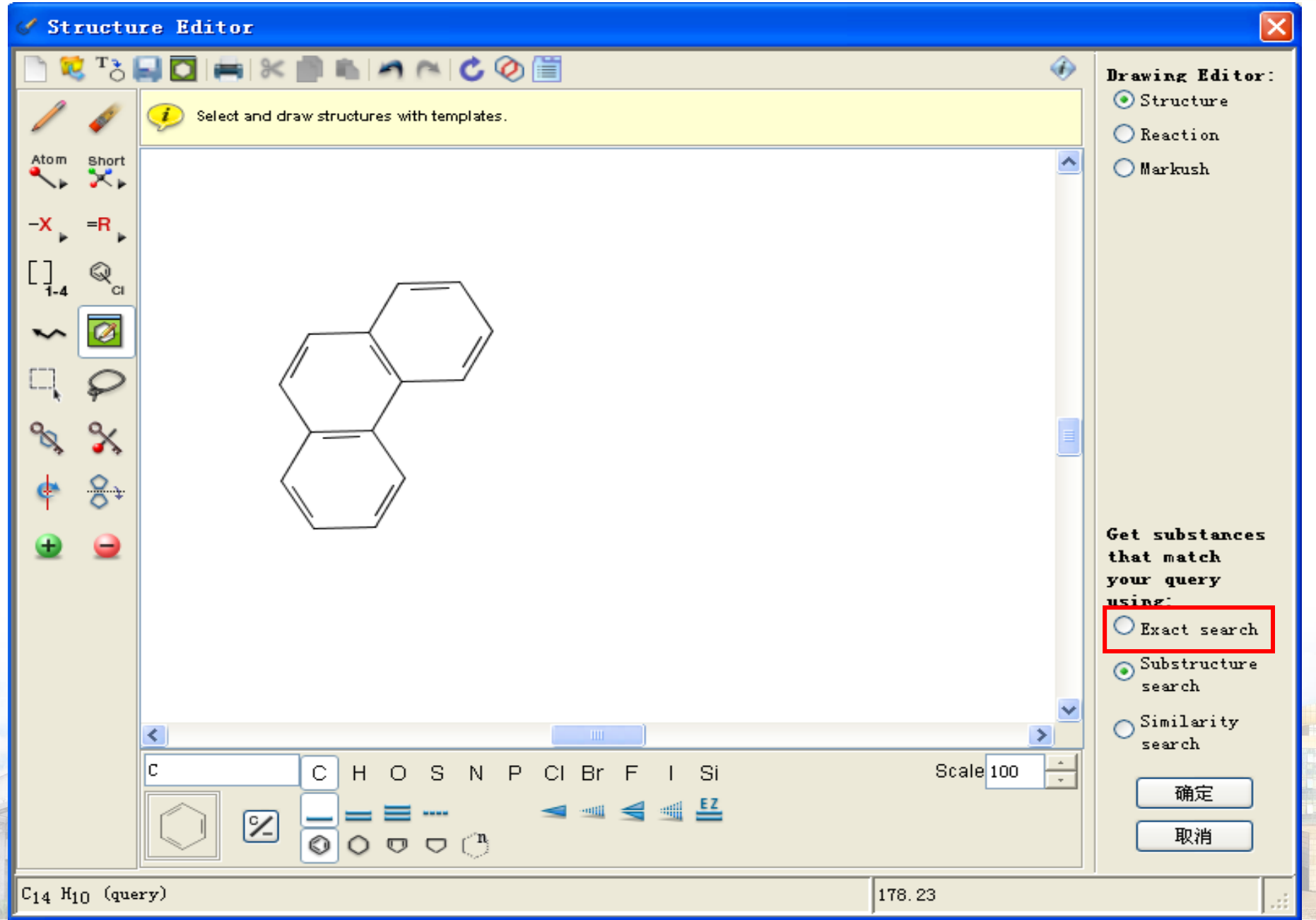


C_2H_4O
Ethenol

Key Physical Properties
Regulatory Information
Spectra
Experimental Properties


只了解一个化学结构式，怎样获得具体的物质信息？




Structure Editor
Select and draw structures with templates.
Atom
Short
-X
=R
1-4
Cl
Drawing Editor:
Structure
Reaction
Markush
Get substances that match your query using:
Exact search
Substructure search
Similarity search
确定
取消
C
H
O
S
N
P
Cl
Br
F
I
Si
Scale 100
C14 H10 (query)
178.23

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

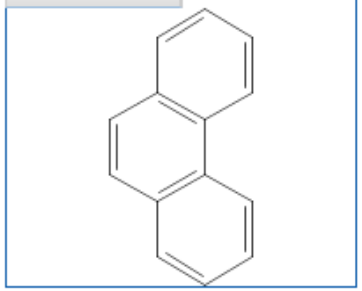
SUBSTANCES
- Chemical Structure
- Markush
- Molecular Formula
- Property
- Substance Identifier

REACTIONS
- Reaction Structure

SUBSTANCES: CHEMICAL STRUCTURE

Structure Editor:

Java | Non-Java



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Import CXF

Search Type:
- Exact Structure
- Substructure
- Similarity

Show precision analysis

ChemDraw

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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

Search

Advanced Search Always Show

Characteristics
- Single component
- Commercially available
- Included in references

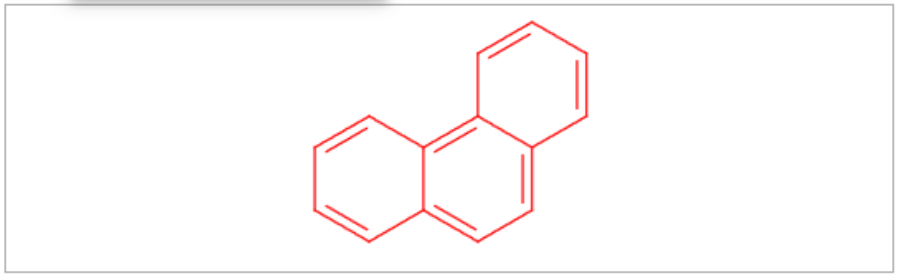
Classes
- Alloys
- Coordination compounds
- Incompletely defined
- Mixtures
- Polymers
- Organics, and others not listed

Get References | Get Reactions | Get Commercial Sources | Tools

Sort by: Relevance

Relevance
CAS Registry Number
Number of References
Number of Commercial Sources
Molecular Weight
Molecular Formula

1. ~44462

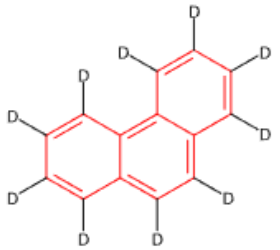


$C_{14}H_{10}$
Phenanthrene

Key Physical Properties
Regulatory Information
Spectra
Experimental Properties

2. 1517-22-2

~372 ~69

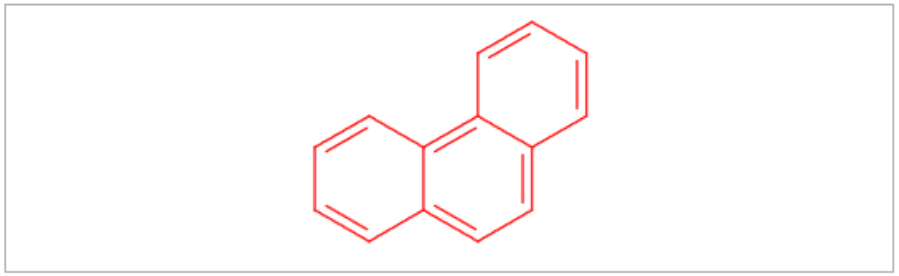


$C_{14}D_{10}$
Phenanthrene-*1,2,3,4,5,6,7,8,9,10-*d_{10}

Key Physical Properties
Regulatory Information
Spectra
Experimental Properties

4. 34510-03-7

~87



$C_{14}H_{10}$
Phenanthrene, radical ion(1-)

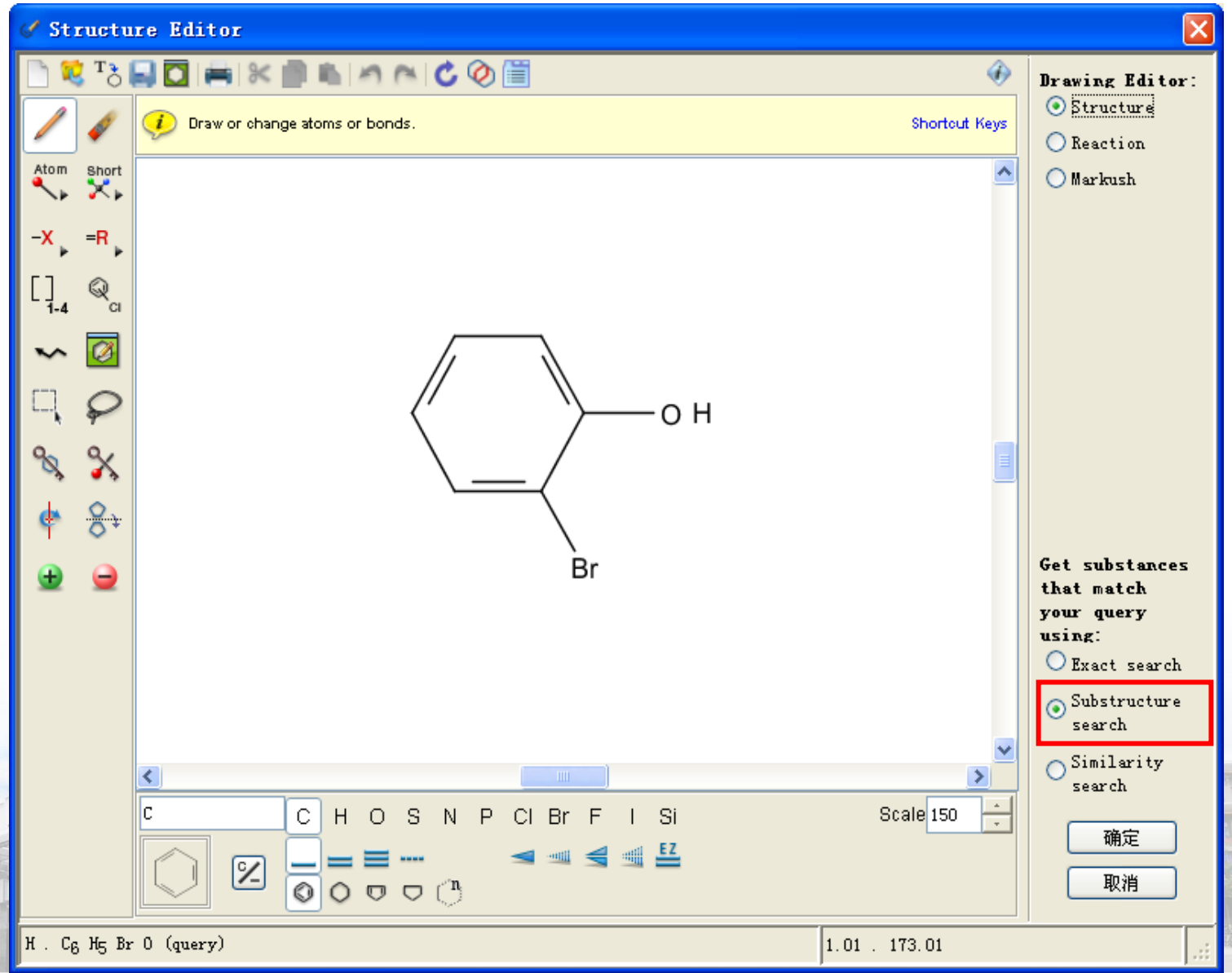
5. 14252-59-6

(Component: 34510-03-7)

~34

• Na +

亚结构检索

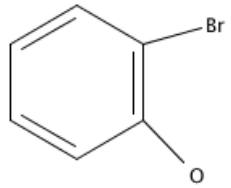


亚结构检索

查找特定母核结构的一类物质

SUBSTANCES: CHEMICAL STRUCTURE

Structure Editor:



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Search Type:

- ○ Exact Structure
- ◉ Substructure
- ○ Similarity

☐ Show precision analysis

ChemDraw

Launch a SciFinder/SciFinder^n substance or reaction search directly from the latest version of ChemDraw. Learn More

Search

Advanced Search ☐ Always Show

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

Substances | Get References | Get Reactions | Tools

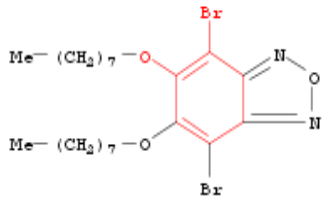
获得与物质有关的文献、反应、商品信息。

4957 Substances | 0 Selected | Save | Print | Export

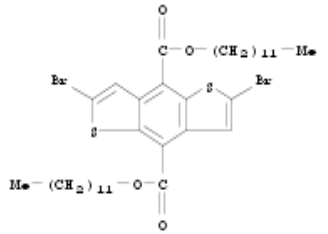
Select All | Deselect All | Sort by: CAS Registry Number | answers per Page [15] | 1 2 3 4 5 6 ... 331 | View:

1. Substance Detail
1345700-09-5

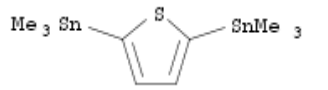
1314801-35-8
$C_{22}H_{34}Br_2N_2O_3$



1313404-21-5
$C_{36}H_{52}Br_2O_4S_2$

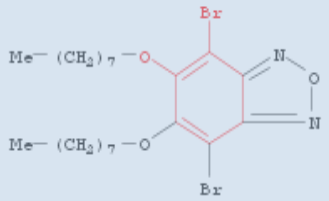


86134-26-1
$C_{10}H_{20}SSn_2$

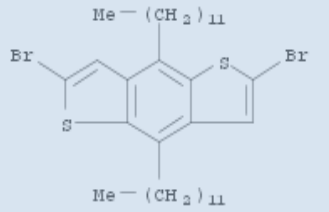


2. Substance Detail
1345700-08-4

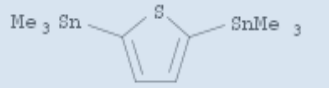
1314801-35-8
$C_{22}H_{34}Br_2N_2O_3$



903518-67-2
$C_{34}H_{52}Br_2S_2$

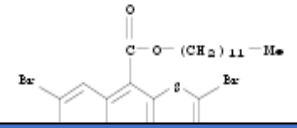


86134-26-1
$C_{10}H_{20}SSn_2$



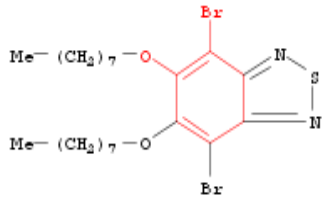
3. Substance Detail
1345700-07-3

1313404-21-5
$C_{36}H_{52}Br_2O_4S_2$

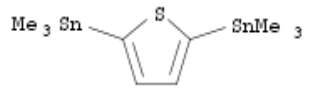


分析限定工具

1192352-08-1
$C_{22}H_{34}Br_2N_2O_2S$



86134-26-1
$C_{10}H_{20}SSn_2$



Analysis | Refine

Analyze by:

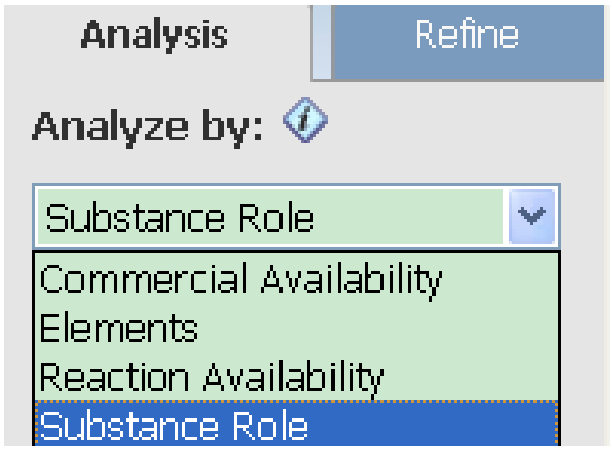
Substance Role

Click bar to view only those substances within the current answer set

Preparation	4957
Uses	2654
Properties	2243
Reactant or Reagent	260
Process	235
Biological Study	100
Analytical Study	34
Prophetic in Patents	15
Formation, Nonpreparative	5
Miscellaneous	5

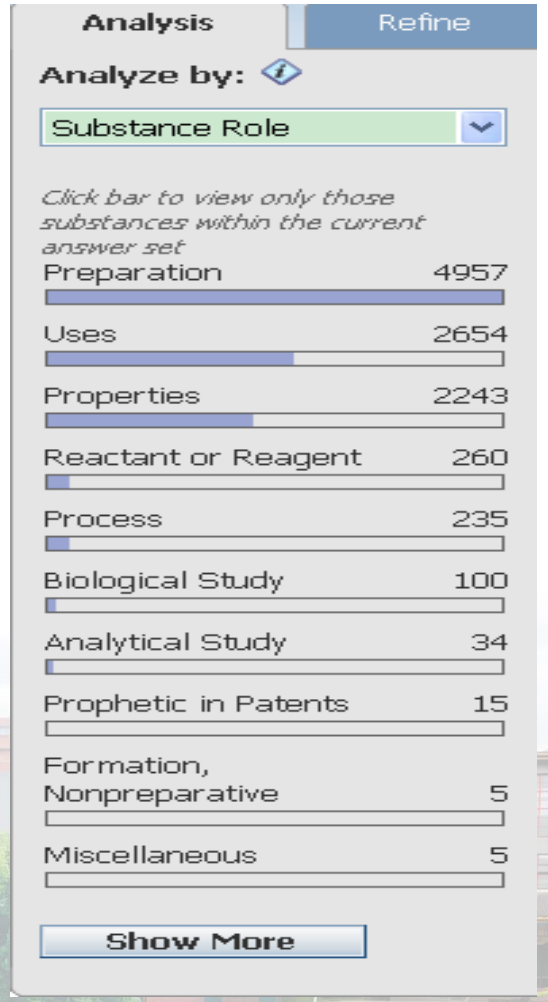
Show More

物质检索分析工具

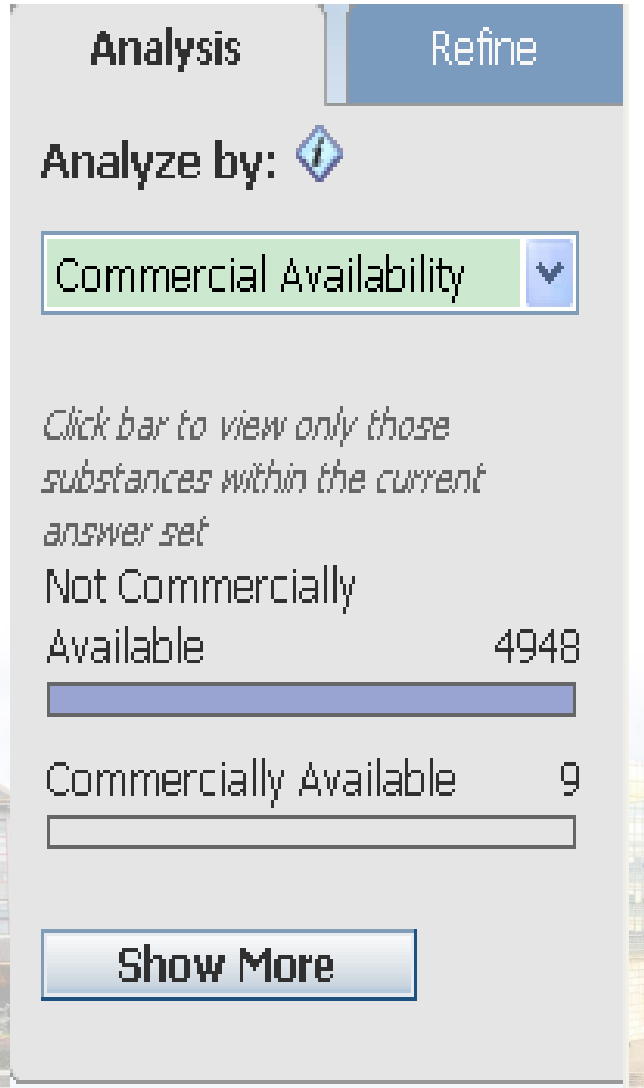


一共4种分析工具：
商业来源分析
元素分析
反应分析
物质角色分析

了解物质的研究情况



了解物质的商业来源



物质检索限定工具

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
6 文献来
7 原子附

可精选物质的熔点、沸点、PH值等信息

Analysis | **Refine**

Refine by:

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

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:

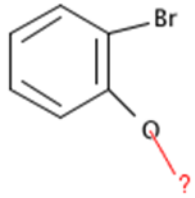
- Chemical Structure
- Isotope-Containing
- Metal-Containing
- Commercial Availability
- Property Availability
- Property Value
- Reference Availability
- Atom Attachment

Refine by Atom Attachment

1. Click an atom to display the attachments present at that site.

2. Select attachment(s) of interest.

Substructure



Atom Attachments

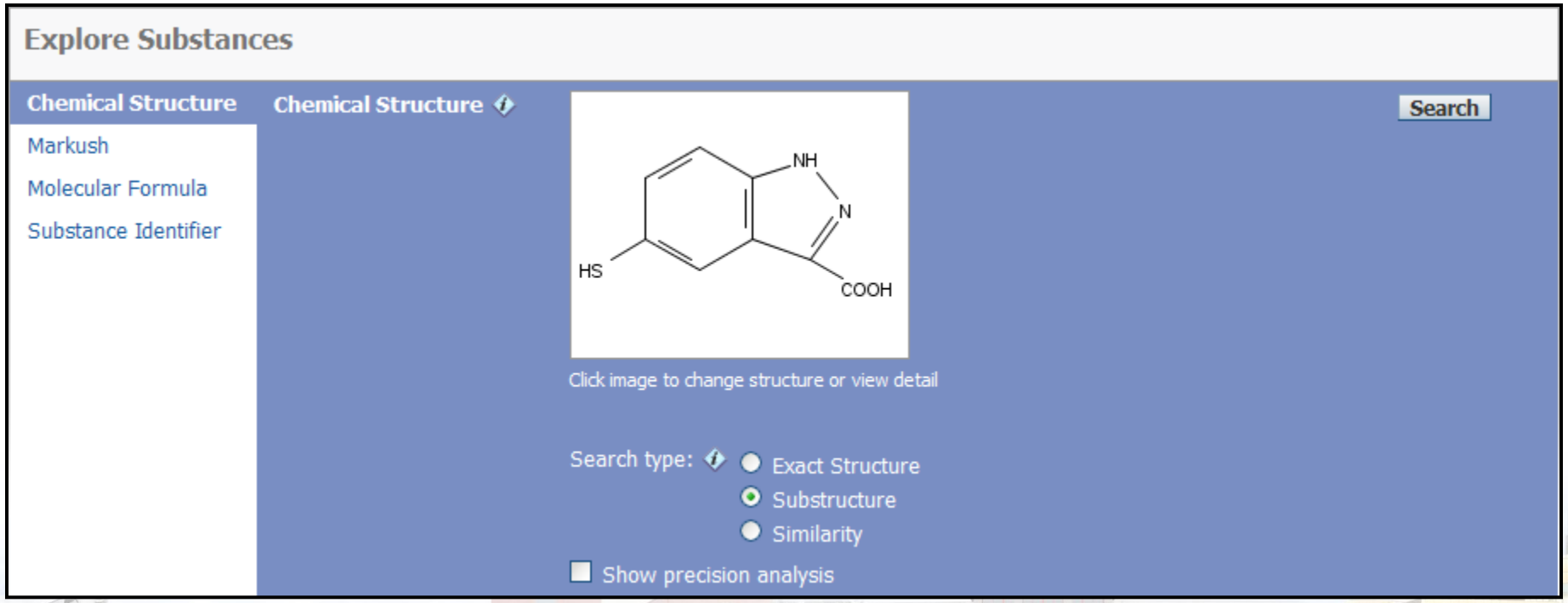
Select All Deselect All

H or None	1955
C	3979
P	20
Si	14
Cu	14
Zn	8
Mn	5
Co	5
Sm	4
S	3
Ni	3
Ir	2
Ce	2
Cd	2
Sb	1
Pb	1
Other	767
A - Any (not H)	4063
Ak - Alkyl chain	3706
Cb - Carbocycle	103
Q - Any (not C,H)	84
M - Metal	47

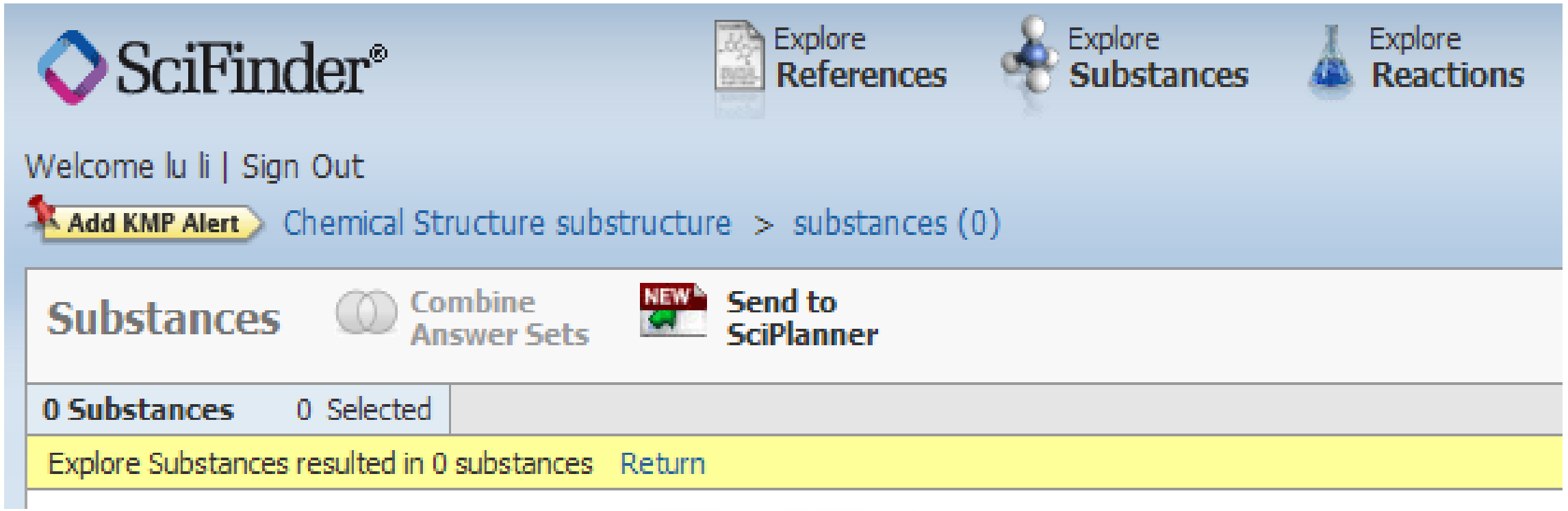
? =

Refine Cancel

相似结构检索



想要合成一种设计的新物质



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。

Structure Editor - 1.cxf

Draw or change atoms or bonds. Shortcut Keys

Drawing Editor:
- Structure
- Reaction
- Markush

Atom Short -X =R 1-4 Cl

C H O S N P Cl Br

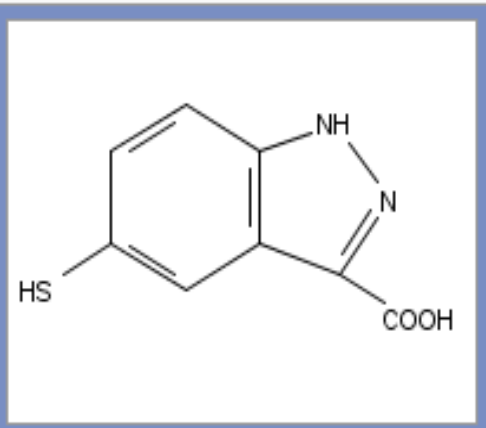
$C_8 H_6 N_2 O_2 S$ (query)

HS

Explore Substances

Chemical Structure
- Markush
- Molecular Formula
- Substance Identifier

Chemical Structure



Click image to change structure or view detail

Search

Search type:
- Exact Structure
- Substructure
- Similarity

Show precision analysis

Similarity Candidates

6 Candidates 3 Selected

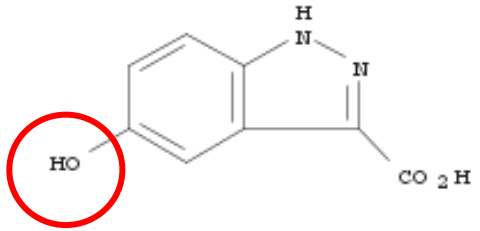
Select All Deselect All

	Similarity Candidates	Substances
☐	≥ 99 (most similar)	0
☐	95-98	0
☐	90-94	0
☑	85-89	10
☑	80-84	26
☑	75-79	45
☐	70-74	148
☐	65-69	322
☐	0-64 (least similar)	657

相似度越高，结构越相近

Get Substances

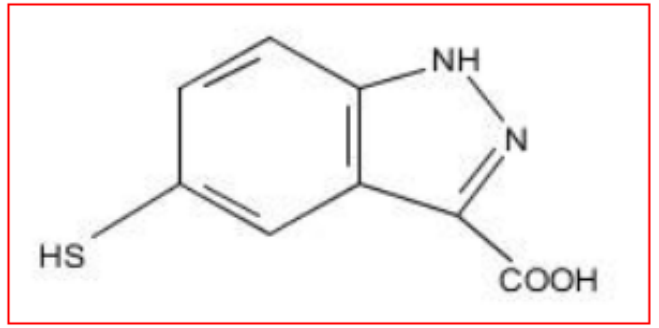
1. **Substance Detail** *Score:* 88
885518-94-5



C8 H6 N2 O3

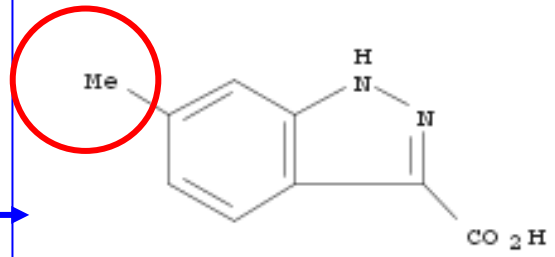
1H-Indazole-3-carboxylic acid, 5-hydroxy

取代基不同



取代基和位置不同

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

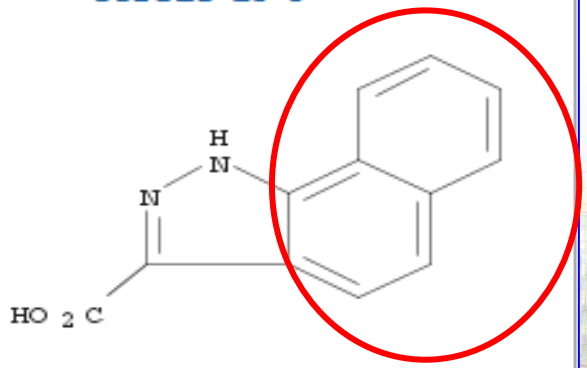


C9 H8 N2 O2

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

母核结构不同

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



C12 H8 N2 O2

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

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。

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

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

REACTIONS
- Reaction Structure

反应检索

REFERENCES: RESEARCH TOPIC

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

Search

Advanced Search Always Show

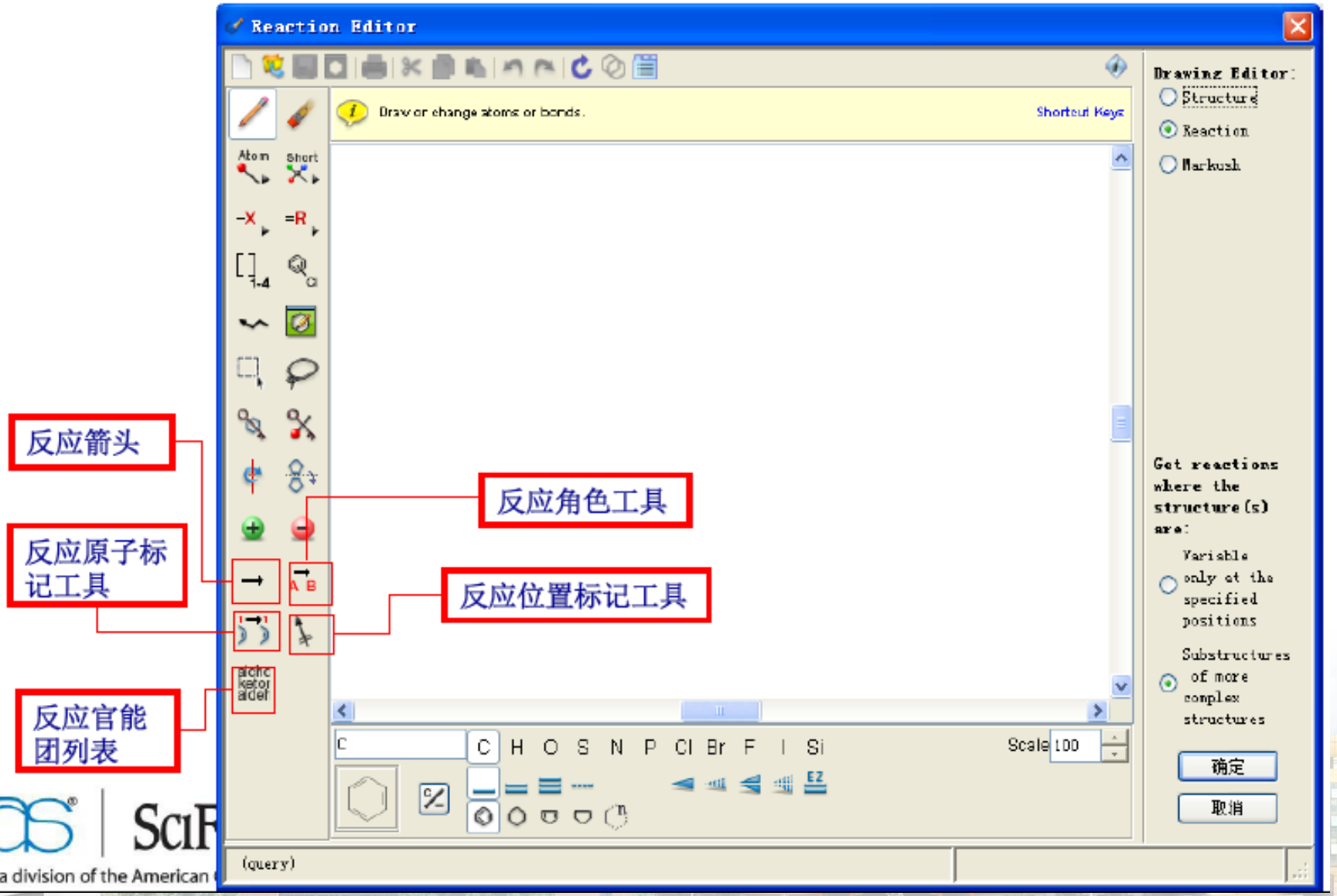
Publication Years
Examples: 1995, 1995-1999, 1995-, -1995

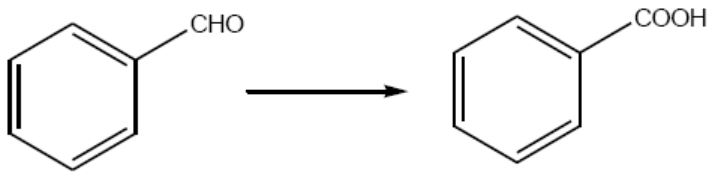
Document Types
- Biography
- Book
- Clinical Trial
- Commentary
- Conference
- Dissertation
- Editorial
- Historical
- Journal
- Letter
- Patent
- Preprint
- Report
- Review

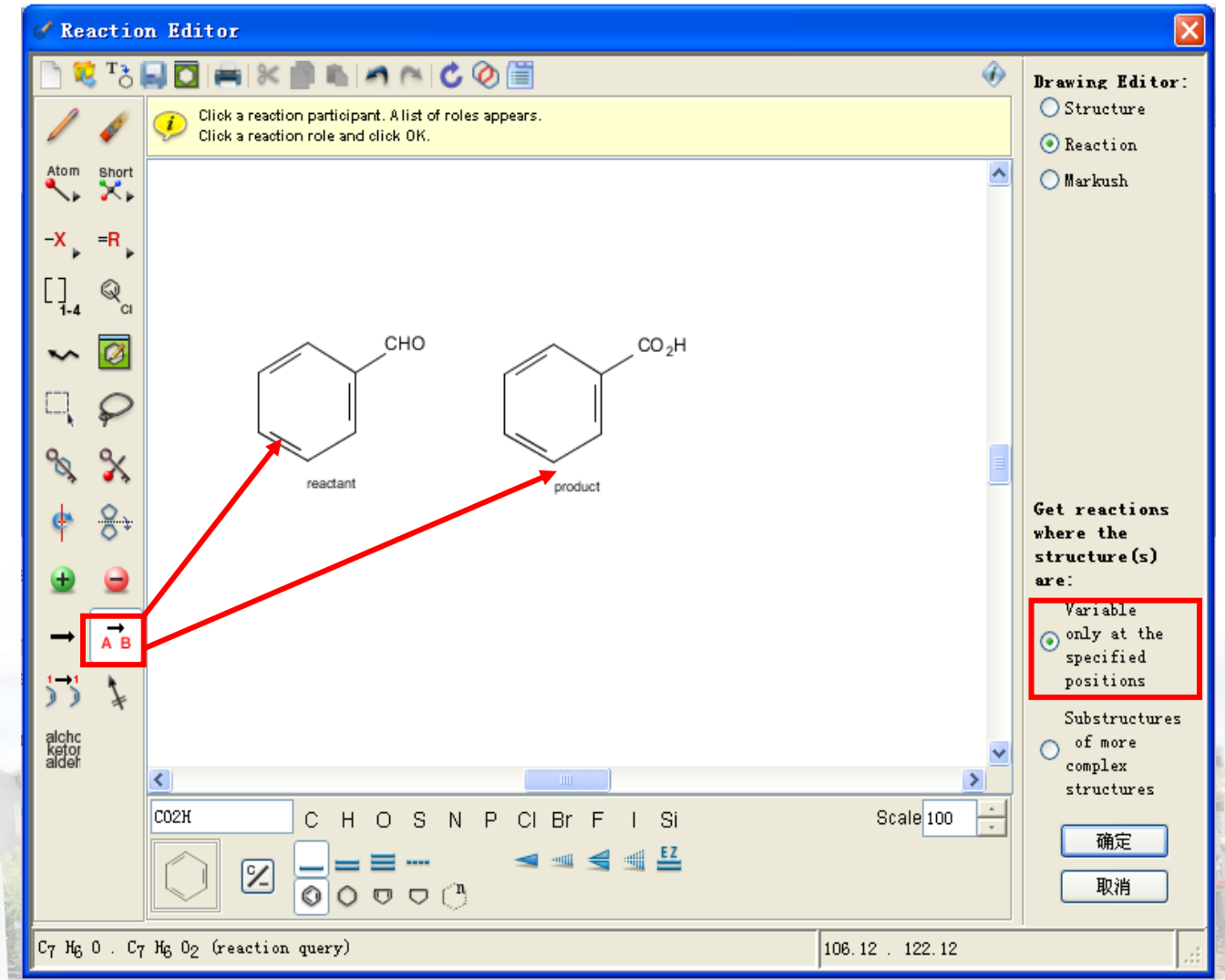
Languages
- Chinese
- English
- French
- German
- Italian
- Japanese
- Polish
- Russian
- Spanish

Author
Last Name * First Middle

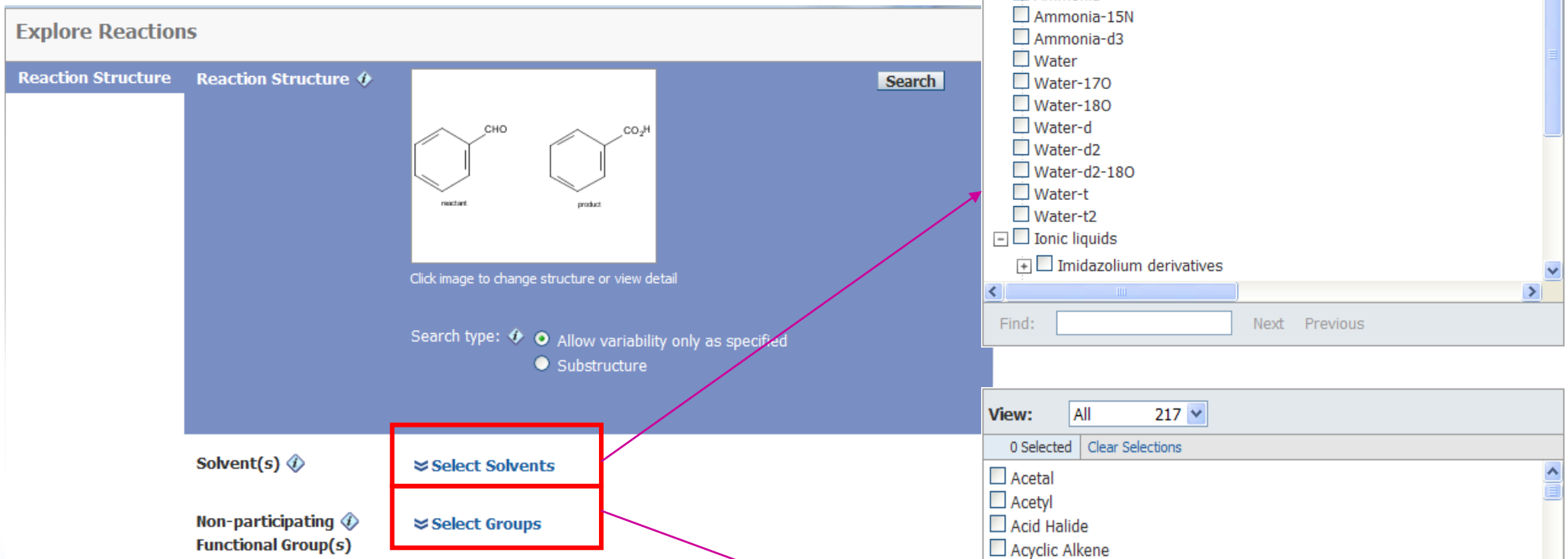
Company
Examples:
Minnesota Mining and Manufacturing
DuPont



Reaction Editor
Draw or change atoms or bonds.
Shortcut Keys
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
Scale 100
(query)
反应箭头
反应原子标记工具
反应官能团列表
反应角色工具
反应位置标记工具





精确物质检索获得特定的物质反应



可以提前设定反应溶剂
和不参与反应的官能团

查看实验过程

1. View Reaction Detail Link Similar Reactions

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

Overview

Steps/Stages

1.1 R:O_2, C:14285-59-7, S:MeCN, 60 h, rt, 1 atm

Notes

reusable catalyst, 288 W LED lamps used, cobalt phthalocyanine tetrasulfonic acid supported on graphene oxide catalyst prepared and used, green chemistry, photochemical, solid-supported catalyst, Reactants: 1, Reagents: 1, Catalysts: 1, Solvents: 1, Steps: 1, Stages: 1, Most stages in any one step: 1

References

Cobalt (II) Phthalocyanine Sulfonate Supported on Reduced Graphene Oxide (RGO) as a Recyclable Photocatalyst for the Oxidation of Aldehydes to Carboxylic Acids
Quick View Other Sources
By Hajimohammadi, Mahdi et al
From Catalysis Letters, 151(1), 36-44; 2021

METHODSNOW™

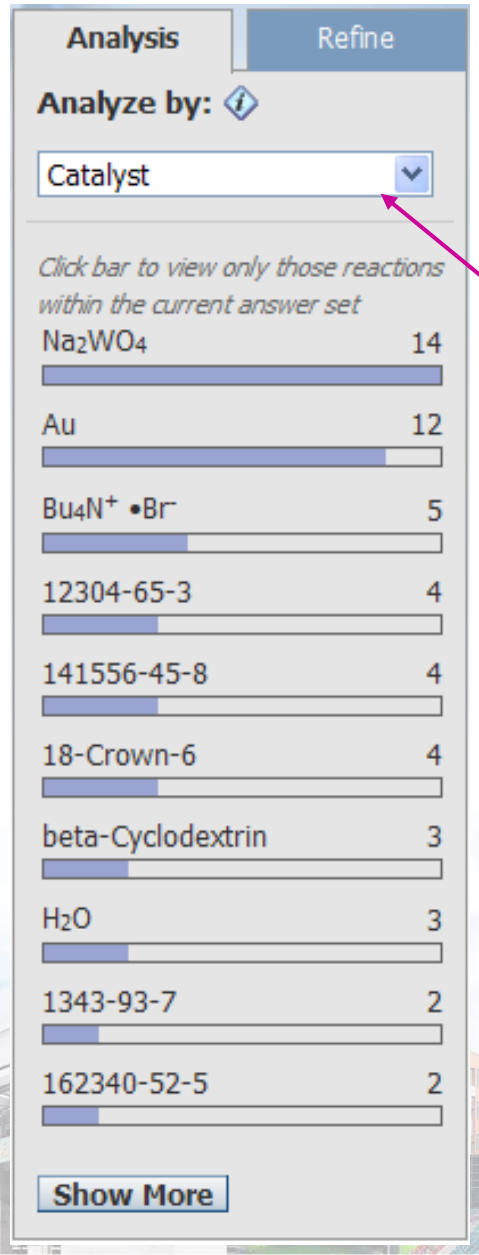
Procedure

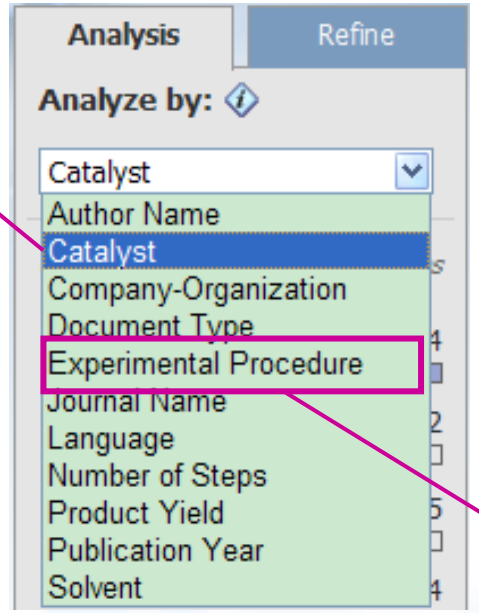
1. Disperse the aldehyde substrate (0.5 mmol) and 1 mg of the cobalt (II) phthalocyanine sulfonate supported on reduced graphene oxide in 7 mL of CH_3CN by ultrasound exposure for 5 minutes.
2. Bubble the air through the solution.

View more...

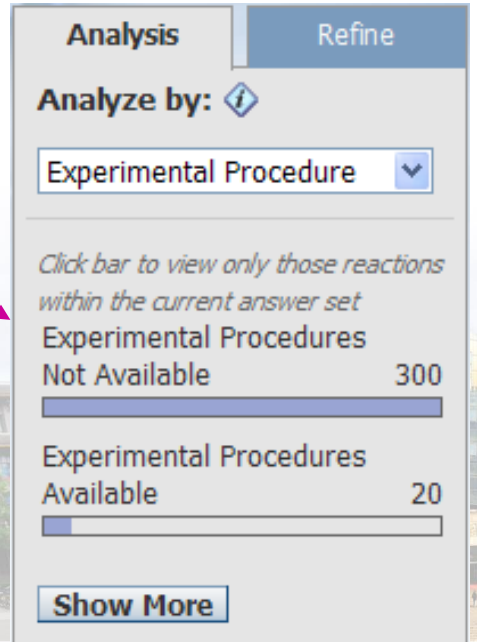
View with MethodsNow

反应结果分析





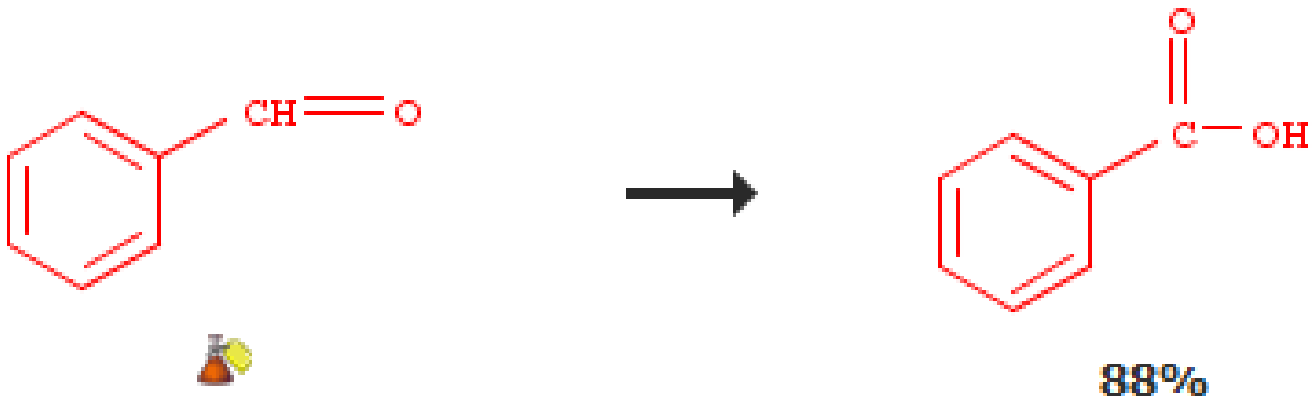
催化剂分析，用于找到经济有效的催化剂



实验过程分析，用于找到描述实验过程的反应

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

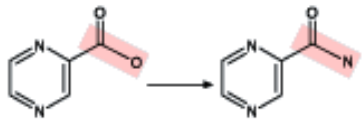
Get Similar Reactions

Retrieve similar reactions from:

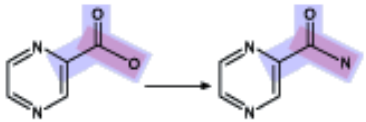
- (•) All reactions
- ( ) Current answer set

Include this level of similarity:

- ( ) Broad - Reaction centers only (9316)



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



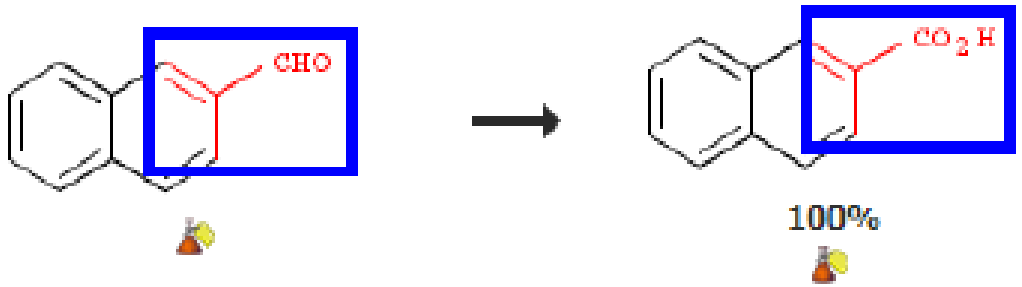
- (•) Narrow - Reaction centers plus extended atoms and bonds (3458)

Broad：紧反应中心相似
Medium：反应中心及附属原子和健
Narrow：反应中心及扩展的原子和健

Display:

1. View Reaction Detail Link Similar Reactions

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



Overview

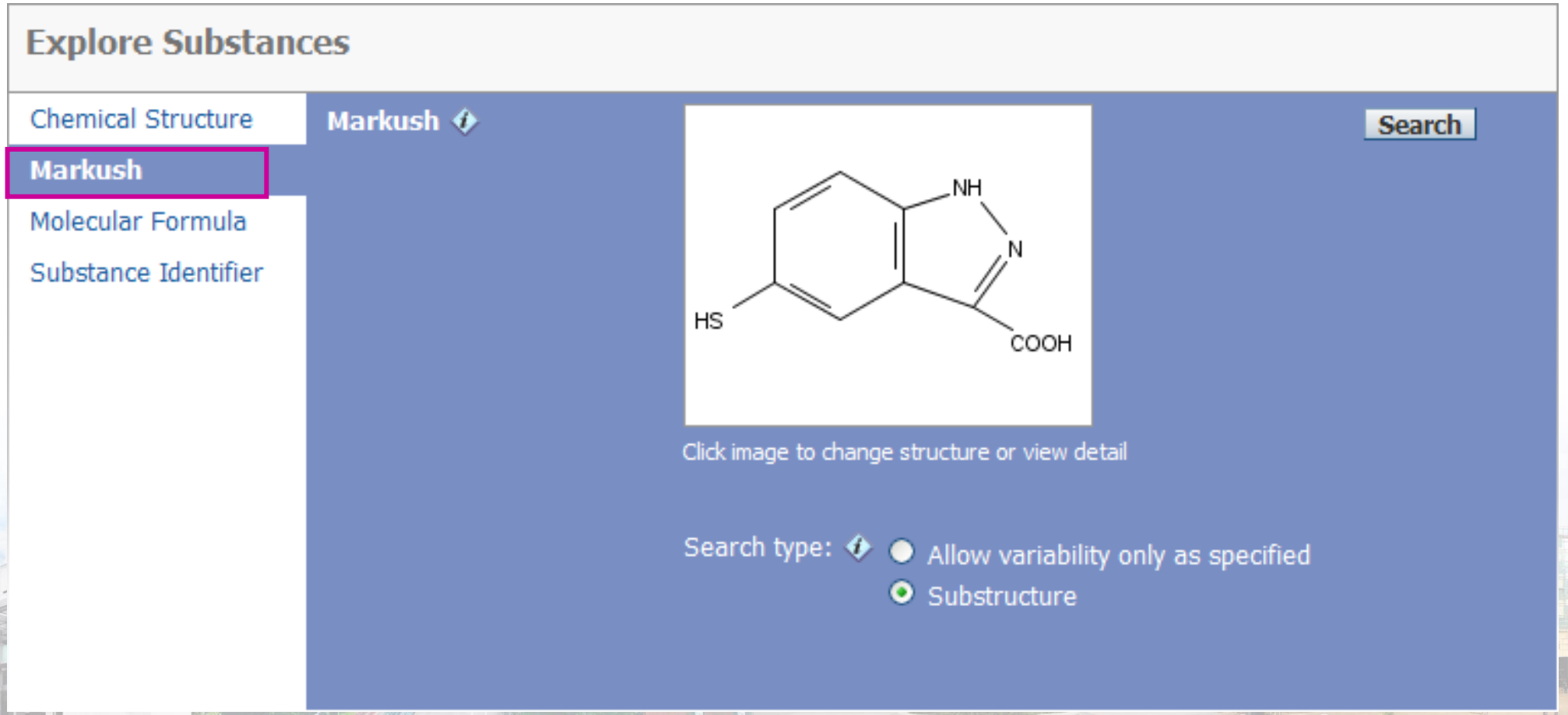
补充问题

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

补充问题-Markrush检索

Markush检索-初步的专利评估



Markush直接返回保护了该结构的专利

与所查专利保护单体进行对比

US 2011082143 (A1)
Bibliographic data
Description
Claims
Mosaics
Original document
INPADOC legal status

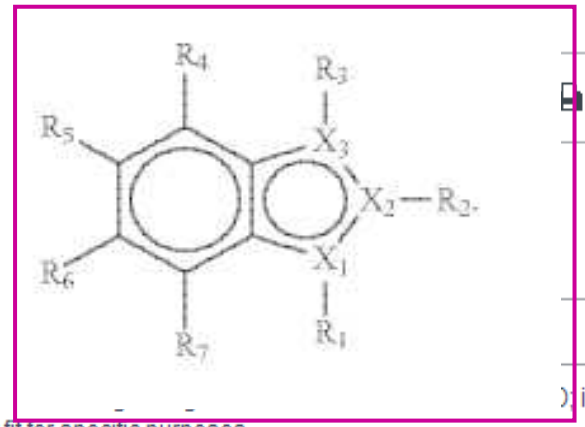
Claims: US 2011082143 (A1)

In my patents list Report data error Print

Bicyclic Heteroaryl Compounds

Claims of US 2011082143 (A1)

Translate this text Claims tree



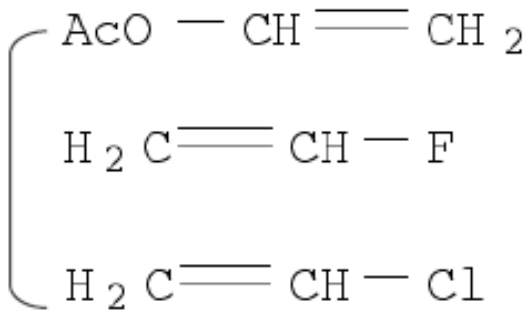
1. What is claimed is: 1. A compound of formula (I):

wherein
each of X1, X2, and X3, independently, is C or N, and at least two of X1, X2, and X3 are each N;
each of R1 and R3, independently, is deleted, H, alkyl, alkenyl, alkynyl, cycloalkyl, cycloalkenyl, heterocycloalkyl, heterocycloalkenyl, aryl, heteroaryl, halo, CN, NO2, ORa, COORa, OC(O)Ra, C(O)Ra, C(O)NRaRb, C(O)N(Ra)N(Rb)C(O)Rc, NRaRb, N(Rc)SO2NRaRb, SO2NRaRb, or SRa, in which each of Ra, Rb, and Rc, independently, is H, alkyl, cycloalkyl, heterocycloalkyl, aryl, or heteroaryl, or Ra and Rb together with the nitrogen atom to which they are attached form heterocycloalkyl or heteroaryl;
R2 is heterocycloalkenyl, aryl, or heteroaryl;
each of R4, R5, R6, and R7, independently, is H, alkyl, alkenyl, alkynyl, cycloalkyl, cycloalkenyl, heterocycloalkyl, heterocycloalkenyl, aryl, heteroaryl, halo, CN, NO2, ORd, COORd, OC(O)Rd, C(O)Rd, C(O)NRdRe, C(O)N(Rd)N(Re)C(O)Rf, NRdRe, N(Rf)SO2NRdRe, SO2NRdRe, or SRd, in which each of Rd, Re, and Rf, independently, is H, alkyl, cycloalkyl, heterocycloalkyl, aryl, or heteroaryl, or Rd and Re together with the nitrogen atom to which they are attached form heterocycloalkyl or heteroaryl.

Quick help
- What happens if I click on "In my patents list"?
- What happens if I click on the "Register" button?
- What happens if I click on the button "Translate this text?"
- How can I view the claim structure?
- Why are the claims sometimes in French or German, or some other language?
- How can I search in the text of the claims?
- Can I download the complete text of the claims?
- How can I view the chemical structures in the full text?

补充问题-聚合物检索

输入聚合物名称方式：聚合物括号表示，组分间用点分开，括号外用x表示。



例:(C4H6O2.C2H3Cl.C2H3F)x

讲座签到

调查问卷